Philadelphia University

Catalog 2009-2010

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www.PhilaU.edu

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Anti-Discrimination Policy

Philadelphia University does not discriminate on any condition of ethnicity or ancestry, or on the basis of creed, race, color, sex, age, religion, national origin, marital status, sexual orientation or disability in its admissions, education programs, activities or employment practices. This policy is in accordance with state and federal laws, including Title IX of the Education Amendments of 1972, Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990.

The programs, policies, procedures, requirements, tuition and fees described in this catalog are subject to change without notice, at the discretion of the University.

Responsibility to Keep Informed

Students are ultimately responsible for their own progress toward graduation; they are expected to use the catalog as a reference handbook and to familiarize themselves with the principal policies and procedures contained in it. The online version of this catalog (www.PhilaU.edu/catalog) will be updated annually. Students are responsible for monitoring the Web site concerning changes to policies and procedures that might affect their progress toward graduation and regularly check campus mailboxes and Philadelphia University email as a means of keeping informed.

Alphabetical List of Philadelphia University Undergraduate Degree, Certificate and Minor Programs

For information on Philadelphia University's graduate degree programs visit www.PhilaU.edu/gradcatalog.

	Bachelor	Associate	Certificate	Minor
Accounting	BS	A	C	M
Architectural Studies	BS			
Architectural Engineering	BS			
Architecture	BArch			
Behavioral and Health Services	BS			
Biochemistry	BS			
Biology	BS			
Biopsychology	BS			
Business Administration		A		M
Chemistry	BS			
College Studies				
Digital Animation	BS			
Digital Design	BS			
E-Commerce				M
Economics				M
Engineering	BSE			
Entrepreneurship			C	
Environmental and Conservation Biology	BS			M
Environmental Sustainability	BS		C	
Fashion Design	BS			
Fashion Industry Management	BS			M
Fashion Merchandising	BS			
Finance	BS			M
Financial Information Systems	BS			
Foundation Design				M
Graphic Design Communication	BS			
Health Sciences	BS			
Health and Human Services		A		
Health Services Management	BS		C	
Health Services Management: Business	BS			
Health Services Management: Psychology	BS			
Historic Preservation				M
Human Resource Management	BS		C	M
Industrial Design	BS			
Industrial and Systems Engineering	BS			
Information Systems				M
Information Technology	BS			
Interior Design	BS			
International Business	BS			M
Landscape Architecture	BLA			M
Law and Society	BS			
Law Enforcement Leadership	BS			
Leadership in Emergency Services	BS			
Management	BS			M
Management Information Systems	BS			
Marketing	BS			M
Mechanical Engineering	BS			
Multimedia and Visualization				M
Organizational Behavior				M
Organizational Leadership	BS			
Photography				M
Physician Assistant Studies	BS/MS			
Pre-M.B.A.	BS			M
Pre-Medical Studies	BS			
Professional Communication	BS			
Psychology	BS			M
Science and Business	BS			
Social Sciences				M
Textile				M
Textile Design	BS			
Textile Engineering Technology	BS			
Textile Technology	BS			M

Graduate Degree Programs

Degree Programs

Doctor of Philosophy in Textile Engineering and Science
Master of Business Administration
Master of Science in Construction Management
Master of Science in Digital Design
Master of Science in Disaster Medicine and Management
Master of Science in Fashion Apparel Studies
Master of Science in Midwifery
Master of Science in Occupational Therapy
Master of Science in Physician Assistant Studies
Master of Science in Sustainable Design
Master of Science in Taxation
Master of Science in Textile Design
Master of Science in Textile Engineering

Combined Degrees

M.B.A./Master of Science in Physician Assistant Studies
M.B.A./Master of Science in Taxation
B.S./M.B.A. Programs
B.S./M.S. Programs

Certificate Programs

Business Administration
Disaster Medicine and Management
Instructional Design and Technology
Midwifery
Sustainable Construction Management

A Brief History of the University

Philadelphia University was founded in 1884 as the Philadelphia Textile School, in the wake of the 1876 Centennial Exposition. A group of textile manufacturers, led by Theodore Search, noticed a sizeable gap between the quality and variety of American textile products and those displayed by European mills. To address this, the group established the School to educate America's textile workers and managers.

Several years later, the School affiliated with the Pennsylvania Museum (now the Philadelphia Museum of Art) and School of Industrial Art. By the mid-1890s, the School had settled at Broad and Pine Streets in downtown Philadelphia. It survived the Depression and entered a new period of growth at the outset of World War II. In 1941, the School was granted the right to award baccalaureate degrees and changed its name to the Philadelphia Textile Institute (PTI).

By 1949, PTI, which was no longer affiliated with the museum, began conducting classes at its present site in the East Falls section of Philadelphia. Throughout the 1950s, it continued to grow, and in 1961, changed its name to Philadelphia College of Textiles & Science.

The student population doubled from 1954 to 1964, and again by 1978. Programs in the arts and sciences and business administration were added. The College purchased an adjoining property in 1972, doubling the size of its campus.

As Philadelphia College of Textiles & Science, the institution offered its first graduate degree, the Master of Business Administration in 1976. With the purchase of properties in 1980 and 1988, the size of the campus nearly doubled again and grew to include additional classrooms, research laboratories, student residences and athletic facilities. In 1992, the 54,000-square-foot Paul J. Gutman Library was built.

The College continued throughout the '90s to provide its students with the highest quality education and real-world experience demanded by their chosen professions, adding majors in a wide range of fields. To better reflect the institution's breadth and depth, the College applied for and was granted university status by the Commonwealth of Pennsylvania in 1999. And, in a historic move, the Board of Trustees voted to change the School's name to Philadelphia University on July 13, 1999.

The University now has six schools, which includes the Schools of Architecture, Business Administration, Design and Media, Engineering and Textiles, Liberal Arts, and Science and Health.

Mission Statement

Philadelphia University is a student-centered institution that prepares graduates for successful careers in an evolving global marketplace. By blending the liberal arts and sciences, professional studies, interdisciplinary learning and collaborations in and out of the classroom, students learn to thrive in diverse and challenging environments. Our students are encouraged to form supportive relationships with each other as well as faculty, staff and alumni in an academically rigorous setting that is focused on intellectual and personal growth. Philadelphia University is an experiential learning community where integrity, creativity, curiosity, ethics, responsibility and the free exchange of ideas are valued.

Vision Statement

Philadelphia University will be the model for professional university education in the 21st century.

For more information on how Philadelphia University is achieving this vision, please visit www.PhilaU.edu/strategicinitiatives.

The University Today

Philadelphia University is a 21st-century professional university. Where education is active, collaborative, real world and grounded in the liberal arts. Where innovation is the focus of everything we do.

The 2009-2010 academic year marks the University's 125th Anniversary. Since the late-19th century, we have focused on innovation and been a leader in professional education — helping individuals meet the challenge of achieving their goals. Our distinctive programs prepare our students for 21st-century careers by giving them the *Power to Do*.

Today, Philadelphia University's alumni are global leaders in design, architecture, fashion, business, engineering, health professions, textiles, materials technology and science.

To prepare such leaders, academic programs are grounded in the arts and sciences within an integrated and collaborative curriculum and are taught with a hands-on approach by dedicated faculty. Our faculty are teachers, researchers and practitioners who are passionate about preparing graduates to be leaders in their chosen fields. Here, personal attention and ongoing advisement are cornerstones. From the moment students enroll, they have a network of resources to help them transition to a university environment, support them academically and facilitate their personal and professional development. These benefits, together with an emphasis on quality education, are the reasons why we bring out the best in every student.

Philadelphia University is a private university with 3,100 part- and full-time students from 38 states and 30 countries. The University offers more than 50 undergraduate and graduate degree programs in the Schools of Architecture,

Business Administration, Design and Media, Engineering and Textiles, Liberal Arts, and Science and Health leading to the Bachelor of Science, Bachelor of Science in Engineering, Bachelor of Architecture, Bachelor of Landscape Architecture, master's degrees and a doctoral degree in Textile Engineering and Science.

The Campus

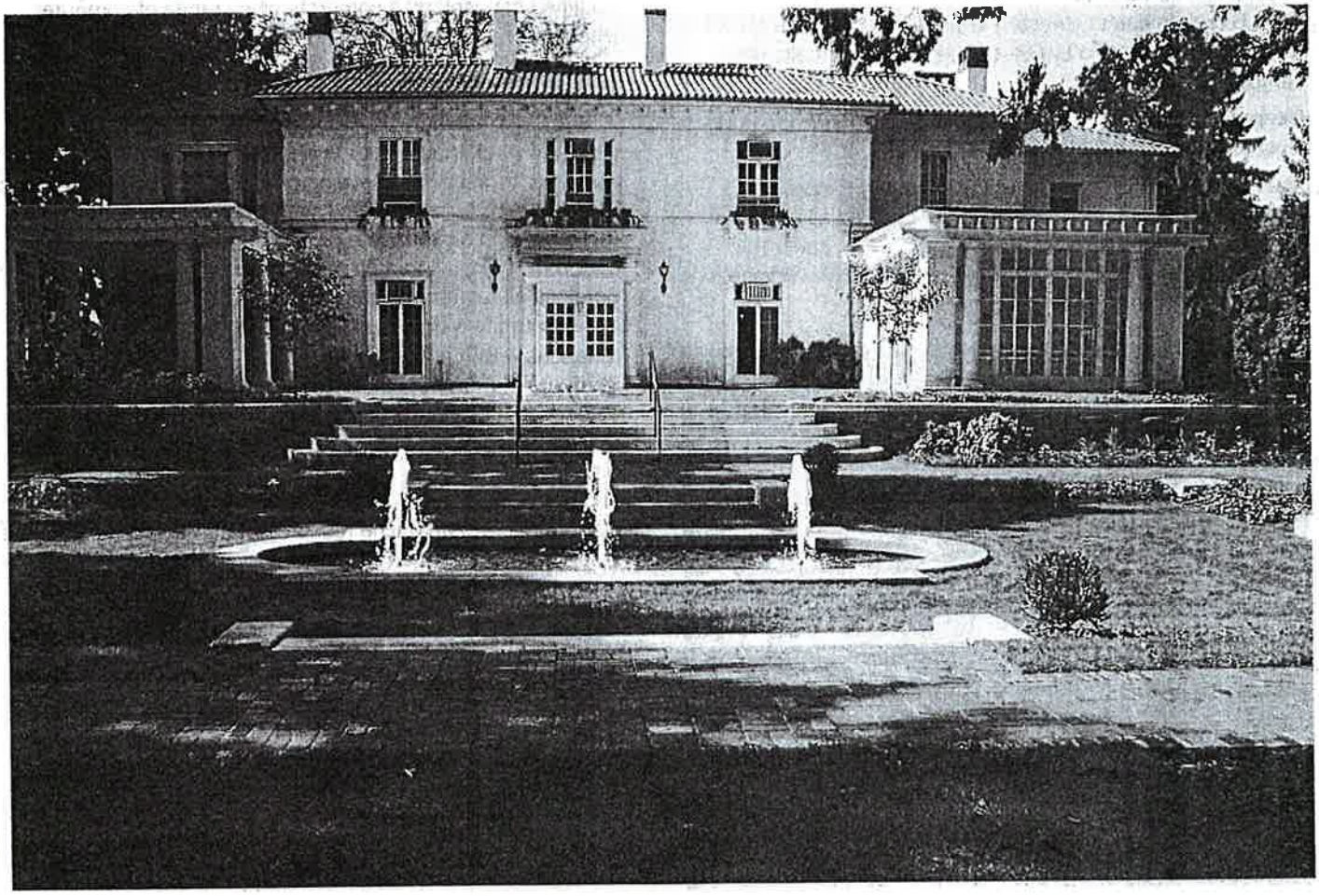
The 53 buildings on the University's 100-acre campus range from historic Victorian mansions to contemporary classroom, library and residential facilities. The latest additions – The Kanbar Campus Center, a 72,000 square-foot social hub for students, faculty and staff, and the Gallagher Athletic, Recreation and Convocation Center have transformed our main campus and are having a dramatic impact on the academic and social environment for all members of the University community. The Tuttleman Center, a 31,500 square-foot, high-tech academic facility, is fully wired and offers students and faculty access to the most sophisticated technology available.

The tree-lined Main Campus is located on the edge of Philadelphia's Fairmount Park in the beautiful residential area of East Falls, 15 minutes from historic Center City Philadelphia. Today over 50 percent of the University's students live in on-campus housing, including co-ed and single-sex residence halls, town homes and two- or three-bedroom apartments. And about 25 percent live in off-campus housing close to the University.

The Philadelphia University campus is wired with a sophisticated network directly to the desktop providing campus-wide, file-transfer capability, personal directories, email and high-speed Internet access. The campus's advanced technology also provides voice mail and cable television to anyone living in the residence halls or townhouses.

The Gallagher Athletic, Recreation and Convocation Center is home to three regulation-size basketball courts, a state-of-the-art fitness center, aerobics studio, racquetball court and elevated jogging track, as well as a 251-space underground parking garage. In addition, Athletic facilities on campus include a baseball field, softball field, tennis courts, and soccer and lacrosse field.

The University is also close to beautiful countryside, big-city life, concerts, galleries and museums, great restaurants and theaters.



Student Life

The Division of Student Life offers comprehensive programs and services that foster an educational environment conducive to the holistic development of students. By building bridges between the curricular and co-curricular experiences, Student Life educators provide opportunities for students to become successful, competent, lifelong learners. Information on specific programs and services follow.

Athletics

Department of Athletics 215.951.2720
www.PhilaU.edu/athletics

The University offers 14 intercollegiate sports competing at the NCAA Division II level: men's and women's basketball, cross country, soccer and tennis; men's baseball and golf; and women's lacrosse, rowing, softball and volleyball. The University holds membership in the National Collegiate Athletic Association (NCAA), and the East Coast Athletic Conference (ECAC) and the Central Atlantic Collegiate Conference (CACC). Athletic scholarships are available and interested students should contact the Department of Athletics at 215.951.2720 for more information.

Undergraduate students are required to take two semesters (.5 credits each semester) of physical education classes, which can be satisfied by two semesters of intercollegiate competition.

Recreation Program
Recreation Sports *215.951.2723*

The Department of Athletics organizes and promotes structured and competitive recreation sports and activities that are open to full-time students, faculty and staff. The Recreation Program provides an opportunity for everyone to participate in enjoyable physical activity and to develop an appreciation for the benefits of physical exercise. Activities are offered in league/tournament format, fitness programs, instructional programming, informal recreation, club sports and special recreation events for student organizations.



Facilities
Philadelphia University hosts athletic events in the Gallagher Athletic, Recreation and Convocation Center, opened in 2006; and at the Alumni and Ravenhill Athletics Fields. The campus also features six newly refurbished tennis courts, a softball field, a state-of-the-art fitness center, racquetball court, aerobics studio and an elevated track. Check out Athletics at Philadelphia University by visiting www.philaurams.com. Go Rams!

Career Services Center

Career Services *215.951.2930 careerservices@PhilaU.edu*

The Career Services Center offers students pursuing undergraduate, graduate or continuing studies, as well as graduates, many opportunities to develop the skills for a meaningful career. Career Services provides individual advising by qualified counselors; a comprehensive range of computerized career assessments, employer database and job listings; employer networking receptions, seminars and special events; and on-campus recruiting.

Starting freshman year, students can follow a four-year plan and track their career and professional development using the Professional Development Journal. Career Services partners with faculty from all schools to present meaningful instruction on various topics, including résumé writing, interview skills, job-search strategies and networking. Career Services also offers career assessments for students seeking assistance with deciding on a career, or identifying job functions within an industry that best match their abilities. Students may identify their personality type and learn how it influences their work style by taking the *Myers-Briggs Type Indicator* (MBTI). Students may conduct additional research related to their career interests in the Career Library located in Career Services, The Kanbar Campus Center, Suite 313. Also available is an online resource, Reference USA, to locate employers around the country and/or conduct company research. Career Services offers an online job listing and resume service called CareerLink. Undergraduate students, graduate students and alumni may post resumes and apply for positions through the system. Career Services manages the internship program and assists all students with preparation for securing an internship position and academic credit for the experience. Employer networking receptions, Design Expo, a professional-etiquette dinner, career panels, mock interviews, on-campus interviews and other activities allow students to interact personally with employers and alumni to learn more about career opportunities in a more



personalized setting. The most important factor contributing to student success in entering the job market is student involvement in the career-development process. The Career Services Center enjoys a high rate of student participation in all of its programs, contributing to students securing meaningful career positions and acceptance into graduate programs.

Community Service Programs

The Office of Community Service Programs *is located in The Kanbar Campus Center, Room 311. 215.951.2856.*

The goal of the Office of Community Service Programs is to develop students into community-conscious leaders who have active, engaging relationships with the local neighbors and the City of Philadelphia. Participation in community service projects and initiatives provides opportunities for students to relate classroom theory to real-world experiences. Students will gain better understanding of the world around them and the importance of acting as agents of positive change. There are several ways in which students can take advantage of these opportunities. Each year, first-year students participate in our Annual Community Service PLUNGE. This program sends hundreds of students into the local community during the New Student Orientation Program. In addition, students or members of clubs and organizations participate in ongoing projects throughout the year. Past events have included Special Olympics, Habitat for Humanity, AIDS Walk, the Red Cross and much more. Any students interested in finding a way to serve in the community can contact the Office of Community Service at communityservice@PhilaU.edu and the staff will help connect the student with a local organization meeting their area of interest.

Commuter Services

Commuter Services *is located in the Department of Student Activities in The Kanbar Campus Center.*

Commuter Services provides information and resources that are helpful for students living off campus and/or commuting from home. The assistant director plans monthly socials throughout the academic year to ensure that commuter students feel fully connected to the University community. The assistant director meets with a group of interested students to help plan events and advocate for commuter student issues. In addition, the Office of Residence Life works with a company to provide students with an online searchable database of housing available in the area. This site also provides current students the ability to locate other students looking for off-campus roommates. In addition, there is an annual Off-Campus Housing Fair each spring that is attended by many local landlords.

Counseling Services

Personal Counseling Services *215.951.2868.*

Counseling for personal concerns – including anxiety, adjustment to college, depression, stress, misuse or abuse of alcohol or other drugs, and other issues – is available to all full-time students at no charge. Counseling is provided on a short-term basis by licensed professionals who understand the special needs of university students. Referrals to area agencies and practitioners are made for those who need more specialized or long-term care. Students are encouraged to make appointments in advance through the Student Life Office at ext. 2740. Students experiencing more urgent concerns may avail themselves of the walk-in hour, 4 p.m. each weekday during the regular academic year. Students in crisis should call Security at ext. 2999. All information shared with counselors is held in strict confidence, as long as there is no clear and imminent danger to the student or others.

Dining Services

Dining Services *215.951.2924 diningservices@PhilaU.edu*

The Ravenhill Dining Hall provides students with a large variety of meal selections, including many healthy choices, with unlimited seconds for students dining in. It features creations from all over the world at Bravisimo, fresh dough pizzas from Pepperazzi's, delicious fresh salads and mouth-

watering sandwiches from the Deli, as well as fresh stock soups and favorite home cooked foods.

Ravenhill Dining Hall is open regular hours during the day Monday through Friday, serving breakfast from 7:15 to 10:15 a.m., continental breakfast from 10:15 to 11 a.m., lunch from 11 a.m. to 2 p.m., lite lunch from 2 to 4:30 p.m. and dinner from 4:30 to 7 p.m. On the weekends, it is open for brunch from 10:30 a.m. to 2 p.m., lite lunch from 2 to 4:30 p.m. and dinner from 4:30 to 7 p.m.

The Kanbar Campus Center houses two dining locations. The Common Thread, located on the lower level, offers fresh burgers and hand-cut french fries, Philadelphia cheese steaks and other favorites at the grill. The deli offers whole roasted turkey and roast beef, along with other deli favorites and sides. Homemade fresh stock soups, baked pastas and entrées cooked to order also are available. Ted's, located on the main level, offers "on-the-go!" and convenience items in the store, as well as fresh dough pizzas, hot subs, Starbucks coffee, Hershey's Ice Cream and fresh baked products. Ted's is open continuously Monday through Friday from 7:30 a.m. to midnight, and noon to midnight on Saturdays and Sundays. Common Thread is open from 8 a.m. to 7 p.m. Monday through Thursday, and 8 a.m. to 2:30 p.m. on Friday.

The Tuttleman Cafe, located in The Tuttleman Center, offers coffee and light fare. It is open 7:45 a.m. to 6:30 p.m. Monday through Thursday, and 7:45 to 2:30 p.m. on Friday.

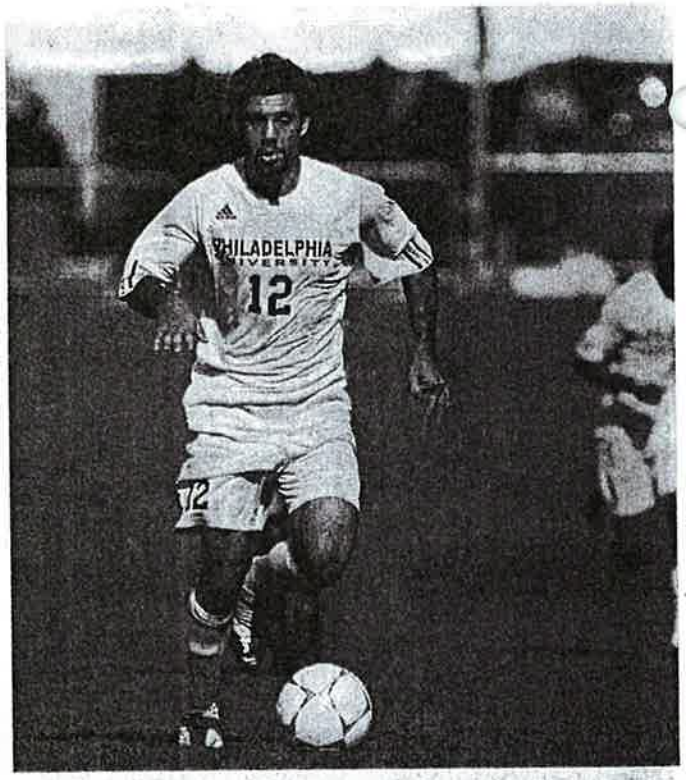
All students living on campus, with the exception of those residing in the townhouses or apartments, are required to purchase a meal plan. Commuting, townhouse and apartment students may purchase a meal plan or use the dining facilities on a cash basis.

Health Services

***The Student Health Center** is located in Scholler Hall, lower level. Call 215.951.2986.*

*Contact the **Business Office** at 215.951.2960 to purchase University health insurance.*

The Student Health Center is open weekdays during the academic year to provide assessment and treatment of minor illnesses and injuries. All full-time undergraduate students pay an annual fee that entitles them to access Student Health Services as often as needed. Students may visit during Walk-In-Hours or call 215.951.2986 to schedule an appointment. Students may be responsible for lab fees, prescription costs, and costs for specialty exams, if needed. Student Health Services is staffed by a secretary and certified nurse practitioners who are available to assist in meeting students' confidential health care needs. Confidentiality may be broken if the student is considered to be a danger to self or others. Students who require additional or alternative treatment may be referred to local providers at their own expense. Within the Student Health Center is a waiting room stocked with health-related reference materials and pamphlets, as well as a self-care station stocked with common over-the-counter medications. Students may avail themselves of these supplies during office hours.



All full-time day undergraduate students are required to submit a completed health form that includes a medical history, recent physical exam and documentation of the required immunizations and testing. Forms are available in the Student Health Center and must be submitted prior to attending classes as a new or returning student. The University reserves the right to deny housing, to deny preventative-care services or to withhold registration for any student who does not meet the pre-matriculation requirements established by Student Health Services. All full-time students are required to be covered by a medical insurance policy. Full-time day undergraduate students and all international students are required to present proof of adequate insurance at the beginning of each academic year. In adherence to immigration laws, all international students must demonstrate minimal standards of adequate health insurance. Insurance will be considered adequate if the carrier is licensed to do business in the United States with a U.S.-based office and telephone number. This information must be provided to the Student Health Center by the second Friday in September (fall semester) or the first Friday in February (spring semester). If documentation of adequate health insurance is not provided, the Business Office reserves the right to charge the appropriate health and accident insurance fee to the student's account.

Health Services is available to all international graduate students. Other full-time graduate students may opt to utilize the services by paying the semester Student Health fee and submitting a Prematriculation Health Form. Arrangements to pay the fee can be made by visiting Student Health Services, located at the end of Scholler Hall adjacent to the Althouse Gym, or the Business Office.

It is students' responsibility to ensure that they are covered either through private insurance or through the University-sponsored health insurance plan. To purchase the University-sponsored plan, students may contact the Business Office at 215.951.2633. Any changes in insurance coverage should be reported to Student Health Services.

International Student Programs

Office of International Student Programs *215.951.2660*
www.PhilaU.edu/international

The University has a long history of educating students from all over the world. At present, about three percent of the University's students are international. The Office of International Student Programs implements two orientation programs a year for the undergraduate and graduate international student. The office also provides ongoing support in terms of immigration advising, work permission paperwork, and educational and recreational programming. The director also serves as the staff to the ISA, the international student organization.

More information and resources are available in the director's office where business and social information for new international students can be found.

Upon arrival, all international students, including transfer students, must report to the director's office, located in Suite 311 of The Kanbar Campus Center.

Office of the Dean of Students

The Office of the Dean of Students *is located in the Kanbar Campus Center, 215.951.2740.*

The Office of the Dean of Students oversees all departments in the Division of Student Life and serves as an advocate for students in the development of University policy. The Office is also responsible for administering the University code of conduct (judicial policies).

Residence Life

The Office of Residence Life *is located in The Kanbar Campus Center, Room 317, 215.951.2741*

The University provides on-campus housing for approximately 1,400 undergraduate students in traditional and apartment-style residence halls. First-year students are housed primarily on the Ravenhill Campus, while returning and upper-class students are housed on the Main Campus. Housing on the Ravenhill Campus consists of four residence halls — Fortess Hall, Mott Hall, Partridge Hall and Ronson Hall. Students reside in rooms accommodating one to four students with community bathrooms in each building.

Housing on the Main Campus consists of three apartment complexes: Independence Plaza, the Townhouses and one residence hall, Scholler Hall. The apartment-style units range from one to five bedrooms, accommodating two to five people. Each air-conditioned unit contains a full kitchen, living room and bathroom. Scholler Hall is a traditional residence hall with double-occupancy rooms. In addition, the Office of Residence Life leases apartment units at Alden Park, located on the corner of School House Lane and Wissahickon Avenue. The University provides shuttle service from Alden Park to Main Campus.

Each resident is provided with an extra-long bed, desk, desk chair and dresser/wardrobe unit. In room phone service is available upon request. In addition, one data port is provided for each resident except in Alden Park where no local telephone service is provided. At least one cable connection with basic service is provided for each room or apartment. Apartment-style units are additionally furnished with living room and kitchen furniture as space permits.

Recognizing that students spend a significant amount of their time outside of the classroom setting, the Office of Residence Life strives to create a group-living environment in which each student is afforded an opportunity to develop as an individual in an atmosphere that encourages emotional and intellectual growth.

The environment within a student's residence area significantly influences his/her success and personal satisfaction while at the University. Each resident contributes to making residence-area living a positive experience. A feeling of community is achieved through mutual consideration, cooperation and responsible behavior. Community living places responsibility on the individual for self discipline and an awareness of the rights and needs of other individuals within the community.

Each residence area is supervised by a Residence Life staff member. Residence Coordinators (RCs) and Resident Assistants (RAs) work with students to develop a sense of community in their residence area and create an atmosphere conducive to mutual respect and consideration. Residence Life staff members are also instrumental in assisting students to develop positive attitudes and behavior to deal responsibly with the establishment of an independent lifestyle and the social freedoms of adult life.

Student Activities

For information on the ***Campus Activities Board****, contact the Department of Student Activities in The Kanbar Campus Center, Suite 301, 215.951.2744.*

The Student Activities Program at the University serves a vital role in enriching the quality of life on campus. The program offers the opportunity for the development of lifelong skills, and serves as the conduit for diverse ideas, cultures, lifestyles and experiences. The various components of the student activities area are housed in the Student Center.

The Student Government Association (SGA) is an independent, self-governing student group that includes President's Council, a body that consists of representatives from all recognized student clubs and organizations.

In addition to the basic responsibility of protecting students' rights, the SGA recommends students to University-wide committees, addresses student grievances and sponsors campus-wide events.

The Campus Activities Board is the major social programming organization on campus. Its responsibility is to provide

a wide variety of special, scholastic, cultural, educational and entertainment-based programs open to the entire campus community.

In addition to the SGA and the Campus Activities Board, there are approximately 50 social, cultural, professional, religious and special interest clubs and organizations at the University including *The Text*, the student newspaper. Philadelphia University has one national social fraternity and one national social sorority, along with the professional fraternities Phi Psi (Textile) and Delta Sigma Pi (Business).

Student Development Programs

*Questions? Call the **Student Development Programs** 215.951.2634*

Student Development Programs houses the First Year Experience Program and the offices of Community Service Learning and Spiritual Development. Collectively, our programs and services support the mission of Philadelphia University and promote and engage students' thoughtful and creative contributions by: coordinating students' transition to the institution and ensuring the highest quality first-year experience possible, creating links between the curriculum and co-curriculum, focusing on student leadership development, promoting citizenship through community service initiatives, exploring ones sense of purpose and meaning through spiritual development, and deepening students' awareness of self, others and the wider world through intercultural exchanges.

First Year Experience (FYE) In partnership with Academic Affairs, Student Development Programs coordinates campus-wide efforts to ensure the highest quality experience possible in the first year of college. The central theme of the FYE components is **Finding Philadelphia**, learning about the history, culture, diversity, and wealth of activities in the city, our extended campus. Our comprehensive approach to your first-year experience begins with START and New Student Orientation, which includes the Summer Reading; integrates both your curricular and co-curricular experiences; includes faculty oriented academic advising; and is centered on your residential community. The First-Year Experience program at Philadelphia University is designed to provide support and encouragement for new students. FYE acknowledges that the first year in college is a major life step during which students face challenges in adjusting to a new place, managing time and workload, starting new relationships, clarifying values, establishing autonomy, and addressing a host of other developmental issues. Philadelphia University has committed an extensive amount of time and resources to provide a sound foundation for success for each student.

Community Service-Learning Philadelphia University believes that community service initiatives are a central part of the undergraduate experience. Accordingly, the office of Community Service Learning works to increase student access to service opportunities, serve as an informational resource about community agencies, supports student's civic engagement, and promotes service as a tool for learning. Our goal is to develop students into community conscious leaders who have an active and engaged relationship with the city of Philadelphia, surrounding neighborhood, and the broader context of society.

Spiritual Development The Office of Spiritual Development offers opportunities for students as they seek to deepen and enhance their spiritual and religious lives. These include: counseling which addresses questions of spirituality and religious faith and its application to issues and challenges at school and home; small groups for students wanting to explore their spiritual lives; workshops on spiritual development, meditation and prayer; interfaith services and discussions; holy day observances and special event celebrations. The office provides a listing of places of worship offered by local faith communities. Information about different religious traditions and holy days is also available.

Development and Alumni Relations

*For more information, call the **Office of Development and Alumni Relations** at 215.951.2850.*
www.PhilaU.edu/alumni

The Office of Development and Alumni Relations is dedicated to advancing the mission of Philadelphia University as a student-centered institution that prepares its graduates for successful careers in an evolving global marketplace.

Alumni are a vital part of the Philadelphia University community and serve as global ambassadors. Alumni are integral to the University's success. Through their involvement and financial support, they contribute to a legacy that is rich in history and helps students meet the challenge of achieving their professional goals.

Since its founding in 1884, Philadelphia University has relied on private support to become a leader in professional education. Today, the University's alumni are global leaders in design, architecture, fashion, business, engineering, health professions, textiles, materials technology and science. To prepare such leaders, Philadelphia University is grateful to the generosity of its many donors, including alumni, friends, parents, corporations, and foundations.

The Office of Development and Alumni Relations is committed to keeping alumni connected with their alma mater and to matching the philanthropic interests of Philadelphia University's donors with the needs of the institution.

Learning Resources

Information Technology

*For computer support visit the **Technology Help Desk**, Second floor, Search Hall or call 215.951.4OIT (x4648) or email HelpDesk@PhilaU.edu.*

Technology is at the heart of much of what happens at Philadelphia University. In fact, a sophisticated technological infrastructure supports the entire University community. The network provides high-speed (100 megabit and gigabit)

service throughout campus from residence halls and administrative offices to classrooms and labs.

The campus has nearly 1,150 University-owned desktop computers connected to the network. Each student receives an email account that includes 100 MB of mail space. A number of academic programs (Graphic Design, Digital Design, Industrial Design, Architecture, and Instructional Design and Technology) are assigned enhanced network storage space. All students are provided with 300 MB of network drive space, with additional allocation available for students working on data or image-intensive projects. Students are also provided with space for hosting their own University-related web site.

The Paul J. Gutman Library, The Kanbar Campus Center and The Tuttleman Center provide wireless connectivity for students and faculty who wish to work wirelessly. The computer ownership rate in the Residence Halls is more than 90 percent. Our network and email systems support both smart phones and PDAs using the Windows Mobile Five standard.

Philadelphia University is a technology-rich environment. Both the departmental and general-purpose computing labs provide an impressive array of software applications including AutoCAD, Cinema 4D, and Macromedia tools such as Dreamweaver, Flash and Director. Industrial and Digital Design students are required to learn applications such as Final Cut Suite, Maya, Rhino, Swift 3D, and Adobe titles such as Creative Suite, Photoshop, Illustrator, InDesign, Acrobat and After Effects. Desktop computing equipment in these specialized programs is on an aggressive migration cycle that provides upgrades and new equipment every 24 months.

WebAdvisor

WebAdvisor is a web-based information management tool that allows Philadelphia University students, staff and faculty to access numerous online resources. With WebAdvisor, prospective students can view application status and find financial-aid information. Enrolled students can review course schedules, check account status and register for classes. Faculty can monitor rosters, post grades and review advisee information. Staff can even manage their budgets.

The University supports the Blackboard course-management system. This tool provides faculty and students with online and supplemental course materials through the Web. The integration of technology into curriculum is a strategic campus goal.

The Office of Information Technology (OIT) provides a broad range of support for faculty and students including a Residential Technology Consulting Program (ResCons) staffed by students living in the residence halls, a comprehensive Technology Help Desk operating nearly 100 hours per week, a team of analysts devoted to desktop and computing lab support, and resources delivered from nearly 30 enterprise servers operating around the clock.

Paul J. Gutman Library

*Visit the **Paul J. Gutman Library** at www.PhilaU.edu/library.*

The 54,000-square-foot, 400-seat Paul J. Gutman Library blends a traditional book and journal collection with an extensive electronic environment. Through the Internet, the library delivers a wide range of information resources to members of the University community on and off campus. Electronic resources include Avery Architecture Index, Art Index, EBSCO, netLibrary, LexisNexis, ProQuest and Stylesight. These online databases and electronic book, newspaper and journal collections offer students convenient 24/7 research and study access to a continually expanding world of knowledge and information.

The availability of electronic resources supplements a book collection that contains more than 120,000 volumes, with special emphasis in the areas of art and architecture, design, textiles, sciences and business. The Gutman Library Special Collections Department maintains one of the largest collections in the United States devoted to the history of the textile industry. A contemporary reading collection of best sellers and popular materials is also available. Other print publications include 1,000 journal titles, microform subscriptions, trade publications and newspapers. Materials not available in the Gutman Library collection can be obtained through an interlibrary loan network linking more than 14,000 libraries around the world, or through EZBorrow, a self-service loan system for books from over 50 of Pennsylvania's largest academic libraries.

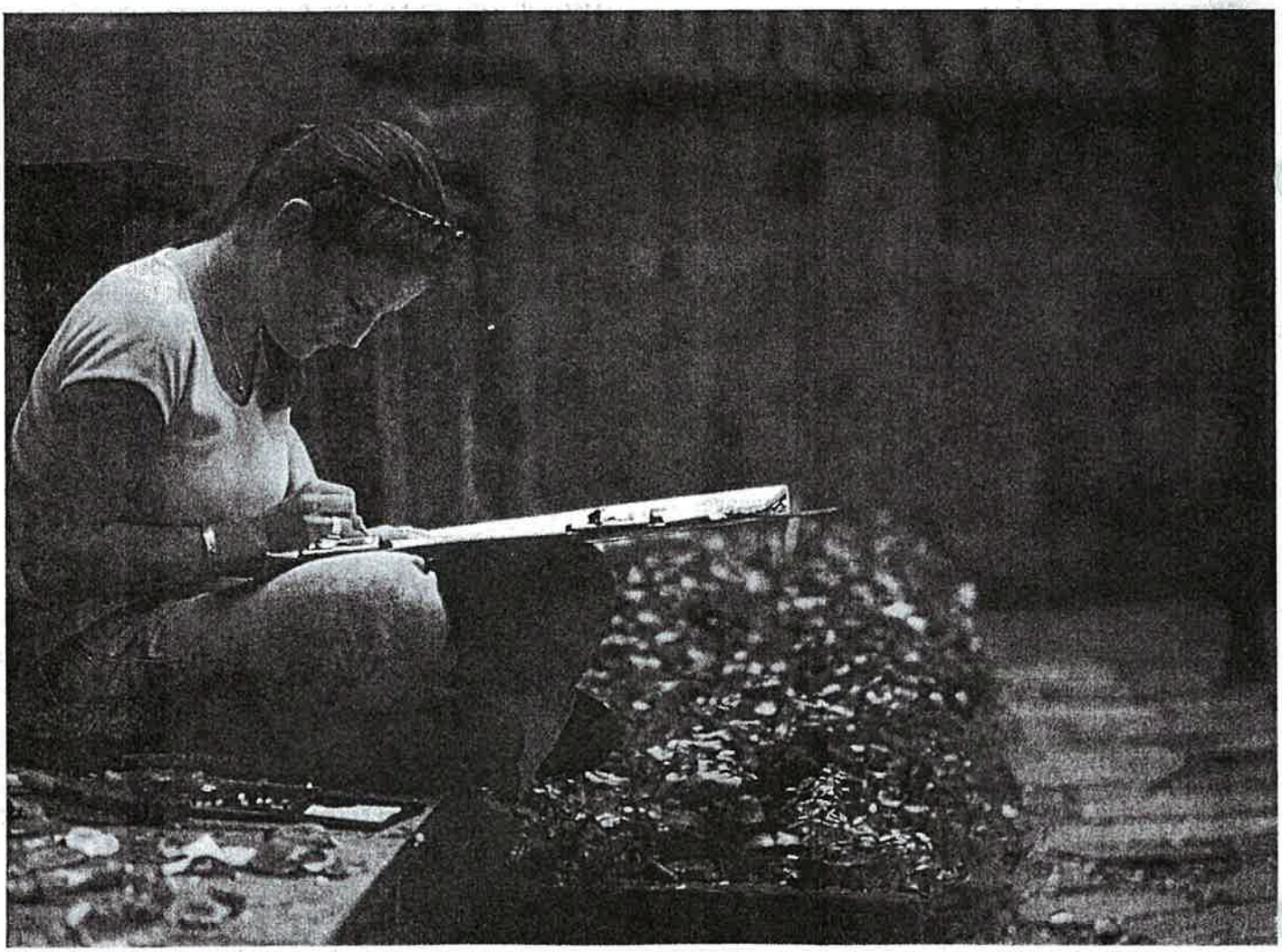
The award-winning Paul J. Gutman Library building provides individual study carrels, five group study rooms, more than 85 PCs and Macs for individual or collaborative work and student lounge areas. Wireless access in Gutman allows students to use personal or library-provided laptops at any location in the building. To help students become effective and efficient researchers, librarians work with faculty to educate students about the resources available and the most effective ways of accessing and using them. Classroom presentations and one-on-one hands-on instruction are available, aimed at creating an information-literate student body.

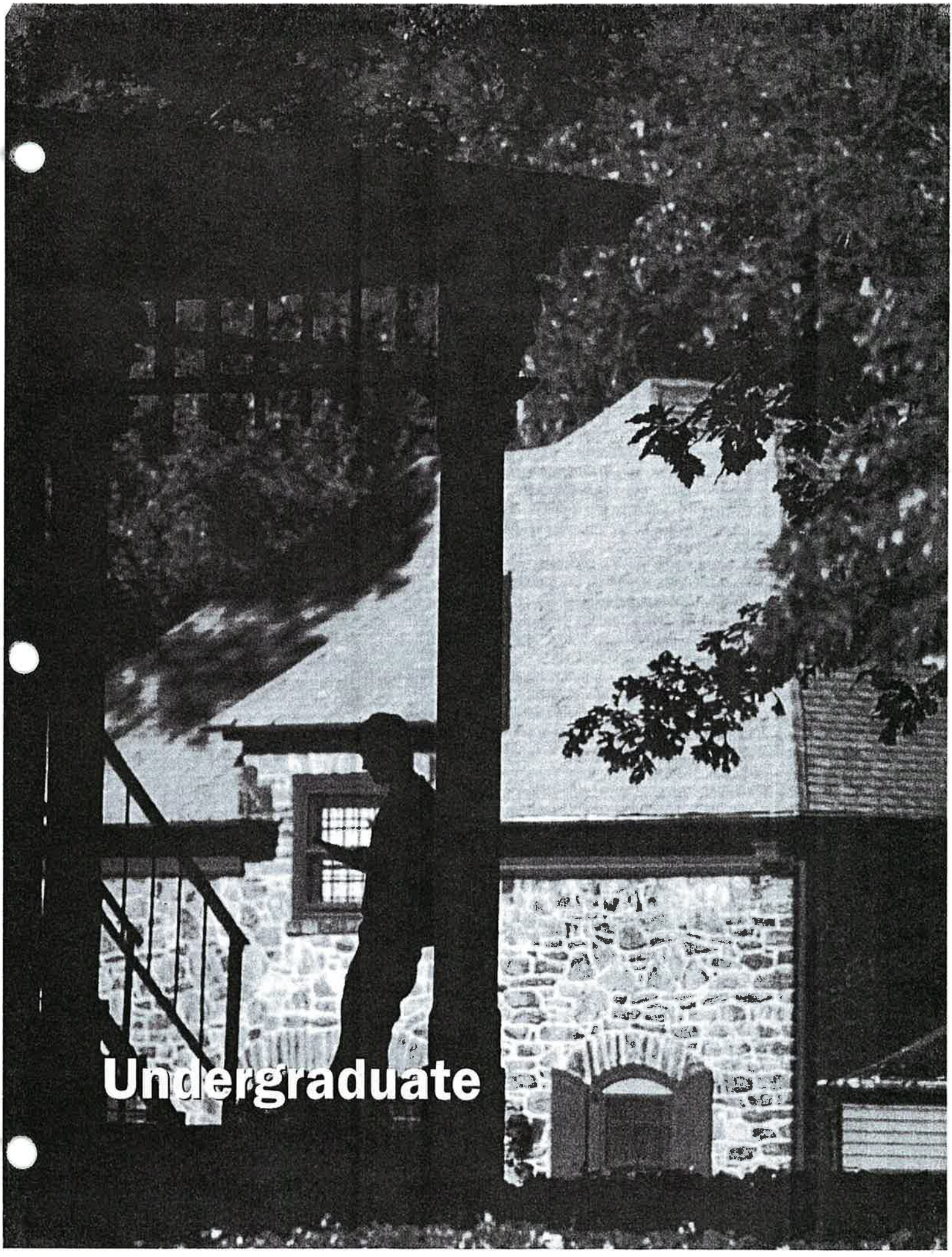
The Design Center at Philadelphia University

***The Design Center** is open to the public Monday through Friday, 10 a.m. to 4 p.m., and by appointment at 215.951.2860. thedesigncenter@PhilaU.edu www.PhilaU.edu/designcenter. During exhibitions, gallery hours vary.*

The Design Center at Philadelphia University is one of the rare institutions in America solely devoted to exploring the design arts. Its purpose is to help people understand how and why design shapes everyday life. The Design Center recognizes that design is as simple as a paper clip, as political as a voting ballot and as complex as a city plan. Through exhibitions, K-12 enrichment programs, college-level curriculum, lectures and special events, The Design Center reflects and supplements Philadelphia University's design curriculum that includes architecture, landscape architecture, interior design, industrial design, graphic design, digital design, textile design, fashion, interactive media and product design.

In addition to mounting exhibitions and creating unique public initiatives, The Design Center houses the University's extensive historical and contemporary textile collection. The collection – some 200,000 items strong – is a nationally recognized resource for the study of American, European and non-Western textiles from the first century AD to the present. It is also the only comprehensive repository of 19th- and 20th-century industrial fabric samples in the United States, documenting a broad range of styles and techniques, and serving as a critical resource for research on American commercial and industrial design.





Undergraduate

Admissions

Classification: Day Division or Evening Division Student.

Students are classified as either day division or evening division for academic advisement and administrative purposes, not in consideration of the time of the day classes are attended.

For information on graduate degree programs, contact the Office of Graduate Admissions 215.951.2943 gradadm@PhilaU.edu, www.PhilaU.edu/graduate

Day Division Programs

Day division students contact Office of Admissions 215.951.2800 or 1.800.951.7287 admissions@PhilaU.edu

Students who apply to the University should be seeking a sound and challenging collegiate education and have demonstrated an ability to be successful in such a program by secondary school or prior college/university performance and preparation. Each student is reviewed individually and evaluated on the basis of educational background, including course preparation and grades earned.

The University reviews applications and makes admissions decisions on a rolling basis. Students must file a completed application accompanied by a nonrefundable application fee of $40 and the appropriate academic credentials mentioned below. All applicants must complete the requirements for a high school diploma or submit the results of the GED.

Prospective high school students should submit an application early in their senior year. Applications reviewed after February 1 will be considered on a space-available basis.

To be considered for admission, freshman applicants must submit official academic credentials with 15 units of secondary school credit and must have taken the Scholastic Aptitude Test (SAT) or the American College Test (ACT). For information about SAT I and ACT writing test requirements, please contact the Office of Admissions. Required academic or college preparatory courses are four English, three Mathematics (including Algebra II and Geometry), three History and Social Science, two Laboratory Science, and three elective courses.

Home-schooled and prospective students who have been away from high school for several years are also encouraged to apply for admission. Interested applicants should contact the Office of Admissions to discuss application requirements.

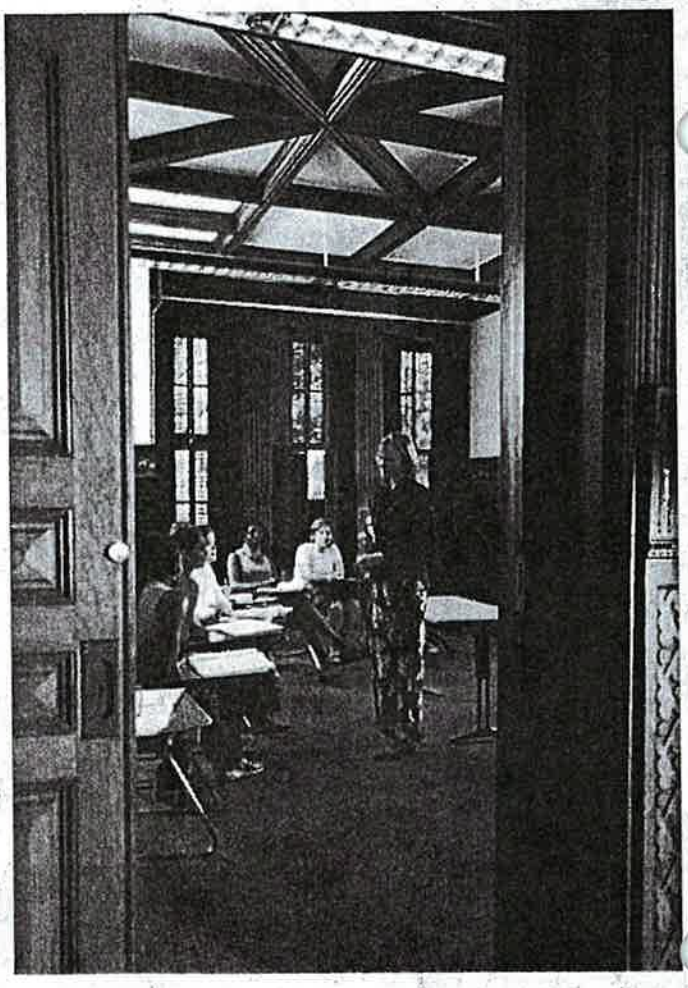
Students wishing to transfer must submit official transcripts from all colleges or universities attended. If a student has earned less than 30 college credits, an official secondary school record and SAT or ACT scores are also required. For information regarding transfer student application deadlines, please contact the Office of Admissions.

Evening Division Programs

Evening division students contact Office of Continuing and Professional Studies 215.951.2900 evening@PhilaU.edu

Prospective students for programs delivered through the evening division should contact the Office of Continuing and Professional Studies for application information at 215.951.2900 or via email at evening@PhilaU.edu. Degree programs are designed, in most cases, to accommodate adults whose professional obligations prevent them from enrolling full-time in regularly scheduled day classes.

The evening division's new student body is primarily composed of adults who are seeking a college education leading to a Bachelor of Science in an accelerated format. Some individuals are returning to higher education after their formal education has been significantly interrupted by a period of work, military service, homemaking, child rearing or some combination of these. Some wish to return to higher education to learn new concepts and skills, to do refresher work in



a particular field, to prepare for a new career or experience intellectual or social stimulation.

Prospective students should refer to the Continuing Studies section of this catalog or contact the office directly at 215.951.2900 for more specific information.

Applications are accepted for the evening division on a rolling basis.

Transfer Students

Philadelphia University welcomes applications from transfer students for enrollment in day or evening programs.

Transfer students may be awarded transfer credits applicable to degree requirements provided a "C-" or better is earned in the course from a properly accredited institution. Transfer students in the day division are expected to complete a minimum of 60 credits at the University with at least 12 credits in upper-division work in their major field and six credits in College Studies. Requirements are different for transfer students in the evening division. Contact the Office of Continuing and Professional Studies to learn more.

International Students

International students who wish to enter Philadelphia University must submit the appropriate application and translated copies of their secondary school and college credentials by February 1. Applications received after February 1 will be considered on a space available basis. International students are eligible for day division admission only.

If English is not the native language of the student, TOEFL scores (Test of English as a Foreign Language) should be forwarded to the Office of Admissions. International students must make definite arrangements to meet all financial obligations while attending the University. Financial aid is not available to international students. However, International Merit Scholarships are awarded to academically eligible students. A statement of financial support and bank statements indicating sufficient funds must be included with the application. The I-20 immigration form will be issued following acceptance and payment of a matriculation deposit to the University.



Financial Information

Billing questions? Contact Student Accounts Office 215.951.5988, studentaccts@PhilaU.edu. Go to www.PhilaU.edu/business for more information.

Annual Expenses for 2009-2010 Full-Time Student

(12 to 18.5 credits per semester)

Comprehensive Fees:

Undergraduate Day

Tuition (annual rate)* (includes Physician Assistant pre-professional phase)	$27,428
Students registering for an overload (Credits over 18.5 per semester)	$915/per credit
Physician Assistant Program** (professional phase)	$31,608

Room*

Residence Halls	$4,540
Townhouses	$6,386
Apartments	$6,646

Board*

19-Meal Standard Plan	$4,642
19-Meal Premium Plan	$4,812
14-Meal Standard Plan (upperclassmen only)	$4,412
14-Meal Premium Plan (upperclassmen only)	$4,540
10-Meal Standard Plan (non-residence halls)	$3,252
10-Meal Premium Plan (non-residence halls)	$3,338
5-Meal Standard Plan (non-residence halls)	$1,736
5-Meal Premium Plan (non-residence halls)	$1,778

** Cost per semester is 1/2 the annual rate*

*** Cost per semester is 1/3 the annual rate*

Included in the above comprehensive fee is use of the Paul J. Gutman Library, The Kanbar Campus Center, The Gallagher Athletic, Recreation and Convocation Center and athletic fields; Ram Van transportation and laundry facilities; admission to all on-campus athletic events and cultural programs; and subscriptions to student publications.

Other Fees:

Full-Time Undergraduate Day

1.	Application Fee	$35/student
2.	Credit by Examination	$886/course
3.	Room Security Deposit	$250/resident student
4.	Room Reservation Deposit	$150/resident student
5.	START Program Fee	$100/new student
6.	Graduation Fee	$100/student (graduates only)
7.	International Student Fee	$55/semester
8.	Health Center Fee	$45/semester
9.	Parking Decal	$25/semester
10.	Lost Campus Card Replacement	$25/card
11.	Tuition Insurance – on campus	$150/annually
12.	Tuition Insurance – off campus	$110 annually
13.	Health Insurance	$560 annually

Part-Time Student

(per credit hour unless otherwise indicated)

Undergraduate Day

Tuition	$886/credit
Credit by Examination	$886/course
Application Fee	$35/student
Graduation Fee (graduates only)	$100/student

Undergraduate Evening

Tuition	$486/credit
Credit by Examination	$486/course
Application Fee	$35/student
Graduation Fee (graduates only)	$100/student

Summer Session 2009

Tuition: Day, Evening and Internship	$486/credit

Deposits

An applicant to the day division should send the director of Admissions a tuition deposit of $300 after receiving a letter of acceptance. This deposit includes an orientation fee of $100. The remaining $200 will be credited to the student's account on the first tuition billing.

All resident students are required to maintain a $250 room security deposit on account. Additionally, continuing residential students are required to make a $150 room reservation deposit during the spring semester for the following fall semester. The room reservation deposit will be credited to the student's account on the first tuition billing for the fall semester. This $150 room reservation deposit is forfeited if the student is not in university housing in the subsequent fall semester.

A deposit to a student's Campus Card may be made for the purchase of books and supplies at the University Bookstore, as well as for use at the vending machines, photocopiers and any dining service location. A deposit of $400 to $500 per semester is suggested. Once deposited, funds cannot be withdrawn from the Campus Card until the end of the academic year. Unused funds are returned at that time.

Tuition Payment Policy

Day division students are invoiced in July and December for the next semester's charges and electronic statements may be accessed via WebAdvisor using the QuikPay link. Only accepted and completed financial aid awards, including Philadelphia University Scholarships, Federal PELL Grants, Federal Supplemental Educational Opportunity Grants

(SEOG), Federal Perkins Loans, PHEAA Grants, Federal Plus Loans and/or Federal Stafford Loans are included on the student's invoice. Late applications for financial aid, unless approved prior to the billing due date, are not credited to the student's account or accepted as payment. Any balance due, resulting from unapproved financial aid, must be paid by the billing due date. Any subsequent approval, resulting in a balance due the student, will be refunded to the student after the drop/add period.

Checks should be made payable to Philadelphia University, Attn: Student Accounts, School House Lane and Henry Avenue, Philadelphia, PA 19144-5497, with the student's identification number clearly indicated on the face of the check. If the University receives a total of three non-sufficient funds (NSF) checks, all future payments must be made by cash, certified check or money order. Students may also use WebAdvisor to pay their account balances online using MasterCard, Discover and American Express. Credit card payments are assessed a 2.75% fee. Payment can also be made via electronic check through WebAdvisor free of charge.

Philadelphia University offers a deferred payment plan through Tuition Management Services (TMS). Enrollment forms are mailed to the student's billing address. For more information or to enroll, you may contact TMS directly at 888.356.0350 or online at www.afford.com. For further questions and information, contact the University's Student Accounts Office by email at studentaccts@PhilaU.edu, or by phone at 215.951.5988.

Refund Policy

A student who wants to initiate leave of absence or withdrawal procedures must obtain the Notification of Student Leave of Absence/Withdrawal form from the Learning and Advising Center. A student is considered in attendance until this formal notification is completed and returned to the Office of the University Registrar and the student has dropped their classes through WebAdvisor. Tuition charges for students who withdraw from the University will be refunded on the following basis:

Undergraduate Day and Online:

Before classes start	100%
First week of class	80%
Second week of class	60%
Third week of class	40%
Beginning of fourth week of class	0%

Undergraduate Evening:

Prior to the first class meeting	100%
Prior to second class meeting	80%
Prior to third class meeting	60%
Prior to fourth class meeting	40%
After fourth class meeting	0%

Online classes follow the undergraduate day refund policy regardless of log-in status. Summer classes follow the Continuing and Professional Studies refund policy. The University uses federal regulations to determine the refund of federal financial aid funds to the federal government. A copy of this federal refund calculation is available at the University's Business Office.

Any student who withdraws or changes credit hours or room and board status after the semester begins is obligated for a full semester's room charge. Board will be charged to the official date of withdrawal, plus an additional charge of 25 percent of the unused portion.

The effective date for calculating refunds will be the effective date indicated on the Notification of Student Leave of Absence/Withdrawal form. Failure to complete this withdrawal form results in an unofficial withdrawal. Refunds, transcripts and recommendations will be withheld by the University until this official form is received. It is also the student's responsibility to drop their classes through WebAdvisor when they complete this form.

Students dismissed from the University or from the residence halls will receive the following refunds:

1. Tuition based on tuition refund policy above;
2. Board prorated from date of dismissal, less 25 percent of the unused portion. Student is obligated for a full semester's room charge.

Insurance claims for medical withdrawals will be processed through the Dewar's tuition insurance policy. Claim forms are available in the Student Accounts office. If the student waived this coverage, no refund is available for a medical withdrawal.

Absence and Sickness

Students who are absent from the University due to illness or injury, or any other reason, and who retain their place in class, are subject to full tuition, room and board charges during their absence.

Transcripts

Transcripts are not furnished to any student whose account is not paid in full. Transcripts may only be obtained through the Registrar's Office.

Fees

A one-time, nonrefundable application fee of $35 must accompany the application for admission. This fee covers the cost of processing the prospective student's application and is not credited to the student's bill.

A $100 graduation fee is charged to all December, May and August graduating seniors.

A $45/semester Health Center fee is charged to all full-time day division students and international students, as well as part-time students electing health insurance coverage or who use the Health Center. A $55/semester international student fee is charged to all international students.

A $25 returned check fee is charged for any check that is returned for non-sufficient funds (NSF).

A $50 annual parking registration fee is charged to all eligible full-time day division students. A $15 annual parking registration fee is charged to all eligible part-time day division students.

The following fees will be deducted from the $250 room deposit of any resident student who cancels their contract by the date indicated below:

Returning Students

Prior to May 1, $100 of the room deposit is forfeited.
After May 1, the entire room deposit is forfeited.

New Students

Prior to May 1, the entire room deposit will be returned.
After May 1, the entire room deposit is forfeited.

Services

Included in the full-time undergraduate day comprehensive fee is use of the Paul J. Gutman Library, Kanbar Campus Center, Learning and Advising Center, The Gallagher Athletic, Recreation and Convocation Center and athletic fields; Ram Van transportation and laundry facilities; admission to all on-campus athletic events and cultural programs; access to personal counseling; and subscriptions to student publications.

The University's Student Handbook is available at www.PhilaU.edu/studenthandbook

Campus Card

The University offers a Campus Card program allowing students to buy meals, make photocopies, purchase supplies and books at the University Bookstore, and use the campus-wide vending machines and dining facilities. It also serves as a University photo I.D., library card and campus activity card. Depositing funds on the Campus Card can be done in person at the cashier window in Student Accounts, by mail, by calling the Student Accounts Office with accepted credit card information or online through WebAdvisor. When making a payment, a student must indicate the amount of the Campus Card payment along with his/her account number. A minimum of $20 can be placed on the Campus Card and will be available in the account the next business day after receipt. A credit card deposit is available immediately. Any account balance remaining at the end of the academic year will be credited to the student's account and refunded. A $25 charge is assessed for lost Campus Cards.

Check Cashing

Any student with a valid Campus Card may cash personal checks up to $100 per day at the Student Accounts Office cashier's window during posted hours.

A $25 returned check fee will be charged to students who cash checks that are later returned to the University for non-sufficient funds. If a third check is returned, check-cashing privileges are revoked.

Insurance

All full-time students are required to have health insurance coverage through their family policy, an individual policy or through the University-sponsored health and accident plan. Full-time undergraduate students are billed automatically for the coverage and may waive the University-sponsored health and accident plan by completing a waiver that documents private insurance coverage at www.academichealthplans.com/philau/2009-2010 or by accessing the "Health Insurance Waiver" link via WebAdvisor under the Billing Information section. The waiver must be completed by the second Friday in September for the fall semester. Students beginning their studies in the spring semester must complete the waiver by the first Friday in February. All international students are required to present proof of health insurance at the beginning of each semester. The director of Health Services will determine if the student's insurance is adequate for coverage in the United States. The charge will be added to your bill unless proof of insurance is provided to the Health Center before the specified date. International students may not use the online waiver option.

For more information about University requirements and the University-sponsored health insurance plan, visit on the web.

Financial Aid

Financial Aid Office 215.951.2940 financialaid@PhilaU.edu, www.PhilaU.edu/financialaid

At Philadelphia University we believe that no student should be denied the opportunity for post-secondary education solely because of lack of adequate financial resources. In keeping with this philosophy, the Financial Aid Office provides information to students about financial planning and distributes financial aid resources to qualified students. The amount of financial aid available to any student is based on academic performance, need and the availability of funds. A financial aid consumer booklet is available on request from the Financial Aid Office located in the White Corners building.

How to Apply

Submit the FAFSA at www.fafsa.ed.gov by April 15. Federal school code is 003354

To apply, students should submit a Free Application for Federal Student Aid (FAFSA) electronically at www.fafsa.ed.gov, by April 15. Philadelphia University's federal school code is 003354. Applicants are considered for all types of aid for which they might qualify. Entering students must be accepted for admission before their requests for aid can be considered. Late applicants will be considered as long as funds continue to be available. All financial aid, with the exception of Federal Work Study, is credited to the student's account at the beginning of each semester.

Aid awards are made for one academic year at a time. Students must submit new financial aid applications each year by April 15 to qualify for financial aid assistance. Renewal awards are based on academic performance and continuing financial need. Aid may be withdrawn if a student fails to make satisfactory academic progress, fails to report financial aid from sources outside the University, owes a refund on a federal or state grant, or is in default on a student loan.

Types of Aid Available

Federal Pell Grant: A Federal Pell Grant is a grant administered by the U.S. Department of Education. Grants may range up to $4,731 per year for undergraduate students with financial need.

Federal Supplemental Educational Opportunity Grant (SEOG): Federal SEOG is a grant program administered by the University. Awards are based on need and other grant eligibility.

Academic Competitiveness (ACG) Grants: A federal grant, established on February 8, 2006, for Pell-eligible students who meet the following requirements:

- Must be a U.S. citizen.
- Must be enrolled full-time.
- Must be in the first or second year of a two- or four-year degree program.
- First-year students must have completed high school on or after January 1, 2006.
- Second-year students must have completed high school on or after January 1, 2005.
- Must have completed a rigorous high school program of study as designated by their state.
- For a second-year student, you must have a grade point average from the first year of at least a 3.0.

More details are available at *www.federalstudentaid.ed.gov*.

National Science and Mathematics Access to Retain Talent (SMART) Grants: A federal grant, established on February 8, 2006, for Pell-eligible students who meet the following requirements:

- Must be a U.S. citizen.
- Must be enrolled in a four-year degree program.
- Must be enrolled full-time.
- Must be enrolled in the third or fourth academic year of a four-year degree program.
- Must be pursing a major in mathematics, science (including physical, life and computer science), technology, engineering or a critical foreign language.
- Must have a grade point average (GPA) of at least a 3.0.

More details are available at *www.federalstudentaid.ed.gov*.

Federal Perkins Loan: The Federal Perkins Loan program provides students with long-term, low-interest loans for educational expenses. The amount that can be made available to an applicant is based on the student's computed financial need and available funding.

Students are eligible to borrow up to $4,000 during one academic year, but no more than $20,000 during the period he/she is a full-time student. No interest is charged while at least half-time status is maintained.

First-time Perkins Loan recipients must complete an entrance interview at www.aessuccess.org.

Repayment of the loan with interest at five percent per annum on the unpaid balance begins either six or nine months after the student graduates or terminates student status or becomes less than a half-time student. Repayment must be completed within 10 years after the interest begins to accrue.

Federal Work-Study Program: The Federal Work-Study Program is designed to stimulate and promote the part-time employment of college students who have demonstrated financial need and who require the wages from the employment to pursue their studies. Students in the Federal Work-Study Program are employed by the University. Students are paid biweekly for the hours worked during the preceding pay period. Federal Work-Study is not deducted from the student's tuition invoice. Employment under the Federal Work-Study Program is awarded as part of the financial aid package.

The Financial Aid Office assists in matching students with a job based on completion of a job application form sent with award letters.

Federal Stafford Loan: Loans are available to students enrolled for at least six credit hours per semester. Students may borrow up to $3,500 per academic year for the freshman year, $4,500 for the sophomore year and $5,500 per academic year for the junior and senior years. The total amount outstanding that students may borrow for undergraduate study is $23,000.

The annual interest is a fixed rate at 6.08 percent as of July 1, 2008. The government will pay this interest until six months after a student has terminated his/her studies, or dropped below half-time status, at which time the student must begin repayment of the principal and interest.

There may be a maximum three percent loan-origination fee deducted by the bank from the face value of the loan. In addition, lenders may deduct an insurance fee of up to one percent.

Under current regulations, all applicants must pass a needs test to qualify for this loan. A FAFSA must be filed prior to certification of a loan application by the University. The student must maintain satisfactory progress to renew the loan.

An application for a Stafford Loan can be completed at www.aessuccess.org. If a paper application is preferred, please contact the Financial Aid Office and we will send you one. Sample repayment plans for Federal Stafford Loans are available at the Financial Aid Office.

Entrance and Exit Interviews: Federal law requires that every student receiving a Federal Stafford Loan through Philadelphia University must complete both an entrance and exit interview. These sessions are completed online at www.aessuccess.org.

Unsubsidized Federal Stafford Loan: The Unsubsidized Federal Stafford Loan provides students who do not qualify for all or part of the Federal Stafford Loan due to need restrictions the opportunity to obtain a low-interest loan. The annual limits a student can borrow are identical to the Federal Stafford Loan program. Under a new federal program, students can borrow an additional $2000 of unsubsidized loan when coupled with their existing Stafford Loan amount. The distinguishing feature of the Unsubsidized Federal Stafford Loan is that the interest of 6.8 percent

begins to accrue upon disbursement of the loan. Principal payments start six months after the student leaves the University or drops below half-time status. Application procedures are identical to those for a Federal Stafford Loan.

Federal Plus Loans: Parents of dependent undergraduates may borrow up to the student's cost of attendance minus any estimated financial aid. The annual interest rate is a fixed rate at 8.5 percent. Repayment of principal and interest begins 60 days after the loan is disbursed. Upon request, all lenders will allow you to defer the payment of the PLUS principal. For more information, contact the Financial Aid Office or your lender.

Philadelphia University Grants: Philadelphia University Grants are offered to full-time undergraduates who have established financial need. The selection is made by the Financial Aid Office.

Faculty Scholarships and Grants: Scholarships and grants are awarded to students based on academic performance at the time they enter the University. These awards are renewable each year of full-time enrollment as long as minimum grade-point average requirements are met.

Pennsylvania Higher Education Assistance Agency (PHEAA): PHEAA is a state grant program for undergraduate Pennsylvania residents who will be enrolled full time (12 or more credit hours per semester).

All Pennsylvania residents applying for financial assistance from Philadelphia University are required to apply for a PHEAA grant.

Other State Grant Programs: Delaware, Connecticut, Massachusetts, Ohio, Rhode Island, Vermont and West Virginia, along with some other states, offer state grant awards to students who are residents of these states. Students should contact the appropriate state grant agency for more information.

Privately Sponsored Scholarships: Most libraries have books and brochures that list hundreds of scholarships and loan programs. Many of these awards are given to students meeting special conditions such as membership in an ethnic group or religion, academic major, parental employment or labor union association and parent or student fraternal affiliation.

Veterans and Veterans' Dependent Benefits: If the student is a veteran who served on continuous active duty for 181 days or more after January 31, 1955, he/she may be eligible for educational benefits under the Montgomery G.I. Bill or Veterans Educational Assistance Program (VEAP). In addition, a variety of loans, employment opportunities and other forms of financial assistance are available to veterans. Students who are dependents of a veteran who died or is permanently disabled as a result of service in the armed forces and students who are serving in the reserves may be eligible for educational benefits. The Financial Aid Office has further information.

Tuition Exchange Program: Philadelphia University is a member of the Tuition Exchange Program. If a parent is employed by a participating college or university, students may be eligible for consideration through the Tuition Exchange Program. Interested persons should contact their place of employment or the University Financial Aid Office for more information.

Philadelphia Partnership Scholarships: Five annual scholarships are given to graduates of Philadelphia's comprehensive public high schools. Selection is made based on demonstrated academic excellence and motivation. Students may contact their high school guidance counselor or the Financial Aid Office for additional information.

Datatel Scholars Foundation Scholarship: For outstanding students currently attending an eligible Datatel client institution. The Datatel Scholars Foundation scholarship is open to full-time and part-time students (taking at least six credit hours), as well as undergraduate and graduate students. The deadline for applying is January 31.

New Economy Technology Scholarship Program: The State of Pennsylvania has established a scholarship for students majoring in science or technology. The students must be in their sophomore year of college, be a Pennsylvania resident and have a 3.0 cumulative grade point average at the time of application. Students must also promise to work in Pennsylvania upon graduation, in their chosen major, or the scholarship reverts to a loan. For more information about the scholarship, contact PHEAA at 1-800-692-7392.

Pennsylvania Governor's School of Excellence: Participants in the Governor's School of Excellence may be eligible for five scholarship awards through the University. Students must be in the top quintile of their high school class and have minimum SATs of 1000.

Athletic Scholarships: Athletic scholarships are available in men's and women's varsity sports. The number of scholarships, the requirements, academic standards and awards are controlled by Philadelphia University and by the NCAA regulations for men's and women's varsity sports. Contact the Department of Athletics at 215.951.2720 for more information.

Hope Scholarship: The Hope Scholarship is a tax credit available for the first two years of college. It is available to students or family who pay tuition and related expenses for at least half-time attendance in a degree-granting program. The maximum amount available is $1500 per student, but is restricted by income requirements. Contact a financial advisor to determine your eligibility. You can also contact the Internal Revenue Service for more information at www.irs.gov.

Lifetime Learning Credit: The Lifetime Learning Credit provides a tax credit to students and/or parents of up to 20 percent of the first $5,000 of total annual educational expenses. Income restrictions also apply to the Lifetime Learning Credit. Consult a financial advisor to determine your eligibility. You can also contact the Internal Revenue Service for more information at www.irs.gov.

Endowed and Gift Scholarships: Each year, the University receives funds for a limited number of scholarships for eligible students. Although donors may place some restrictions on these funds, academic achievement and need are the primary factors to be considered in determining scholarship

eligibility. However, a limited number of scholarships are based solely on academic excellence.

Scholarships include:

MARIANNE ABLE SCHOLARSHIP: Established in memory of the director of Career Services to help a needy junior or senior dedicated to completing his/her education.

JOEL M. ALPERIN SCHOLARSHIP: For Fashion Industry Management majors who need financial assistance.

ALUMNI SCHOLARSHIP: For deserving students in any curriculum.

AMERICAN APPAREL MANUFACTURERS ASSOCIATION: For freshmen students studying apparel.

PHYLLIS ARMON MEMORIAL SCHOLARSHIP: For a Textile Design major in need of financial assistance.

THE ASSOCIATION FOR CONTRACT TEXTILES SCHOLARSHIP: For a junior or senior Textile Design major with need and a 3.0 G.P.A.

THE DOROTHY BECHTEL SCHOLARSHIP AWARD FOR DESIGN EXCELLENCE: For deserving students pursuing a degree in either Fashion Design or Interior Design who have completed sixty (60) credits toward their degree.

BENJAMIN BELLEMERE SCHOLARSHIP: For a student who is a member of the Phi Psi fraternity and demonstrates financial need.

THE BETHLEHEM CONSTRUCTION CORP./WOLANIN COMPANIES LTD./WOLANIN FAMILY/PRIVATESKY® AVIATION SERVICES SCHOLARSHIP: This scholarship, established by Vincent M. Wolanin and Gregory M. Wolanin, is made in memory of their father, Vincent J. Wolanin, a Pennsylvania Law Enforcement Officer who died suddenly while they were young, and also in tribute to their mother, Julia Solecki Wolanin, who raised them both through difficult times. Vincent (1969) and Gregory (1974) both are graduates of Philadelphia University. This scholarship will be awarded to a student who demonstrates financial need, as determined by the University's Financial Aid Office, and who also demonstrates excellence in athletics and/or excellence in Architecture, Engineering, Design, Marketing, Management, Chemistry, Computer Information Systems, or Computer Science. Special preference will be given to a student meeting the above criteria or one who is a relative or employee of Wolanin Companies Ltd. (or any of its affiliates) and to any student who may have suffered the unexpected, sudden or accidental death of a parent. You may visit the Wolanin Companies Ltd. web site at www.wolanin.com or www.privatesky.net.

RICHARD BLEILER MEMORIAL SCHOLARSHIP: Given to a deserving student.

BOBBIN PUBLICATIONS SCHOLARSHIP: To a student in Fashion Industry Management.

KENNETH H. BOYDELL SCHOLARSHIP: For a deserving textile student in need of financial assistance.

THE RICHARD H. BRAUTIGAM SCHOLARSHIP: For a deserving undergraduate who demonstrates a strong determination to succeed.

BENETT BREGER-SRS TEXTILES/YMA SCHOLARSHIP: Awarded to juniors or seniors, with at least a 3.0 G.P.A., financial need, majoring in Engineering Textile Design, Textile Engineering, or Textile Technology.

CAROLINA ALUMNI SCHOLARSHIP: For a deserving student beginning in the student's sophomore year, who is majoring in Textiles, demonstrates financial need and academic excellence in their field of study. The student must be a permanent resident of North Carolina or South Carolina.

CHARMING SHOPPES, INC. SCHOLARSHIP: Award for Academic Excellence - For a senior with a 3.0 G.P.A., demonstrated financial need, majoring in Accounting, Apparel, Design, Finance, Marketing or Textiles.

LIZ CLAIBORNE SCHOLARSHIP: For a needy minority student.

BERT COHEN MEMORIAL SCHOLARSHIP: For a textile student who demonstrates financial need.

HOWARD C. COLE MEMORIAL SCHOLARSHIP FUND: For a student enrolled in the Textile Engineering curriculum.

ED COMBS MEMORIAL SCHOLARSHIP: For qualified international students in pursuit of a degree in textiles, apparel or chemistry with a minimum 3.0 G.P.A. who demonstrates a serious commitment to their field of study. Preference is given to the employees of Levi Strauss & Company International Group and their children.

EDWARD M. COPELAND MEMORIAL SCHOLARSHIP: Awarded to a soccer player based on need; first priority is given to a Delaware Valley resident.

EMILY M. CRANE SCHOLARSHIP: For deserving students in any curriculum.

CRANSTON FOUNDATION SCHOLARSHIP: For a deserving student in any curriculum.

CHARLES B. DEGENSTEIN SCHOLARSHIP: For residents of Snyder, Union and Northumberland counties in central Pennsylvania with financial need.

DINING SERVICES SCHOLARSHIP: For a student who has a 3.0 grade point average and has been employed by Dining Services for at least two semesters and plans to work there in the upcoming academic year.

WILLIAM N. DONIGER SCHOLARSHIP: For a deserving student in any curriculum.

DOWNS SCHOLARSHIP: Awarded to a freshman student from the Philadelphia area who graduated in the top 20 percent of his/her high school class and whose SAT scores placed the student in the top 25 percent of those taking the test. The student must also take some textile courses.

ECHO DESIGN GROUP AWARD FOR ACADEMIC EXCELLENCE: For a student with 80 or more credits studying Fashion Design or Textile Design.

PHILLIP ELKIN MEMORIAL SCHOLARSHIP FUND: For a deserving Business student.

FASHION DESIGN FOR PARKINSON'S SCHOLARSHIP: For an eligible Fashion Design student.

FASHION INDUSTRY ASSOCIATION SCHOLARSHIP: For a student majoring in Fashion.

IRVING FISHON MEMORIAL FOUNDATION SCHOLARSHIP: Given to worthy Fashion Industry Management students.

FRED FORTESS TEXTILE/APPAREL SCHOLARSHIP: A merit-based scholarship awarded to needy students in the areas of Fashion Industry Management and Textile Engineering.

E.W. AND A.W. FRANCE SCHOLARSHIP: For a deserving textile student.

PEARL AND MURRAY FRUMKIN SCHOLARSHIP: Established by the Textile Veterans Association; to a sophomore who demonstrates financial need and outstanding scholarship.

JAMES P. AND ANNE M. GALLAGHER FAMILY SCHOLARSHIP FUND: To a deserving student from the Philadelphia area.

GERBER FAMILY SCHOLARSHIP: To assist needy students who are studying abroad.

HAROLD C. GIFT SCHOLARSHIP: For a graduating senior from the Reading Area Senior High School, Reading, Pa.

THE CLIFFORD M. GILPIN AWARD FOR EXCELLENCE IN TEXTILE STUDIES: For a student enrolled in Textile Engineering, Textile Technology or Textile Design. Special preference shall be given to candidates in the Textile Engineering Program. Additionally, the award recipient shall have a grade point average of at least 3.5 and will be expected to demonstrate a strong commitment to their chosen career field, as well as involvement with an appropriate professional organization.

DR. NANCY S. GOLDSMITH MEMORIAL SCHOLARSHIP: For registered nurses enrolled in the Health Services Management program who have at least a 3.0 G.P.A. and a commitment to a career in the allied health services.

RICHARD GOLDSTEIN MEMORIAL SCHOLARSHIP FUND: For students with financial need, starting in their freshman year through graduation, maintaining a 3.0 grade point average in textile-related field.

THE DR. HERMAN GOLDSTINE AWARD: Will be awarded annually to the architecture student who has presented the best thesis. Candidates for the award will be those students who are in their final semester (spring semester of the fifth year of study).

PEGGY GOUTMANN SCHOLARSHIP: For junior, senior or master's level students majoring in textiles.

JULIA M. GRANBY SCHOLARSHIP: For students studying either Textile Design or Fashion Design.

BILLY HARRIS SCHOLARSHIP: Named in memory of Billy Harris '74, the scholarship is given to students with financial need who demonstrate academic achievement, leadership skills and athletic ability.

BUCKY AND LORRAINE HARRIS SCHOLARSHIP: The Bucky and Lorraine Harris Scholarship has been established as an endowed scholarship under the guidance of the founding committee members and the University Development Office.

Selected students will have attained at least a sophomore status at the University; be involved with the Department of Athletics through recreation, office assistance or work study, but NOT be a member of an intercollegiate program; and will be used to assist in the management of the campus Fitness Center, along with assisting the facility director in daily building operations.

IRENE HERVEY SCHOLARSHIP: For a textile major who demonstrates financial need.

H. NEWLIN HILL MEMORIAL SCHOLARSHIP: For students enrolled in a textile curriculum who demonstrate financial need. First consideration given to dependents of AstenJohnson community employees.

HOME FURNISHINGS ASSOCIATION OF THE DELAWARE VALLEY SCHOLARSHIPS: To students majoring in Interior Design who demonstrate need.

MICHELE IAMPIERI SCHOLARSHIP: To an undergraduate student majoring in Fashion Design and who demonstrates financial need. Preference will be given to a student residing in Howard County, Maryland.

THE LARRY KARLIN SCHOLARSHIP: For an economically disadvantaged male and female undergraduate student in their junior year, majoring in a textile-related field, without regard to grade point average and who has successfully completed the Global Leadership Program (GLP). In those years when students (male and/or female) cannot be identified as having successfully completed the Global Leadership Program, the GLP selection criteria can be temporarily suspended so that the funds can be allocated to a student or students who meet the other selection criteria.

JOHN J. KAUFMANN MEMORIAL SCHOLARSHIP: For a freshman enrolled in a textile major demonstrating academic excellence and financial need.

KEYSTONE WEAVING MILLS SCHOLARSHIP: For a deserving student enrolled in a textile, apparel or fashion design degree program who is at least a sophomore level and has need and a 3.0 GPA.

BORIS KROLL SCHOLARSHIP: For a student enrolled in Textile Design.

ROGER LAVIALE SCHOLARSHIP: To assist Philadelphia University students studying in Scotland at Heriot-Watt.

LEVI STRAUSS/YMA SCHOLARSHIP: For graduate-level textile and apparel students.

MR. AND MRS. ROBERT LEVISON SCHOLARSHIP FUND: For a deserving student enrolled in any degree-seeking curriculum.

DR. GEORGE A. LINTON TRUST: For a student enrolled in a Textile curriculum who demonstrates financial need.

STEVEN GARY LITCHMAN MEMORIAL SCHOLARSHIP: For a deserving student majoring in Textiles.

The Christopher K. McHugh Scholarship: For a deserving undergraduate student in their junior year who has demonstrated financial need and a strong determination to succeed.

MEMORIAL SCHOLARSHIP: For a deserving student.

WILLIAM JOSEPH MILOWITZ SCHOLARSHIP: For deserving and underprivileged students who meet the academic requirements of the University.

KRISTINE A. MINNICK SCHOLARSHIP: To a deserving Physician's Assistant student in the fifth year of school with a minimum 3.3 GPA and need. Applications are to be submitted to the Physician's Assistant Program Director.

MISCELLANEOUS ENDOWED SCHOLARSHIP: For deserving students in any curriculum.

MICHAEL AND EVELYN MUTOLESE SCHOLARSHIP: For a student who is has financial need and is studying Textiles, Apparel or Fashion Merchandising.

THE RUTH AND MORRIS NISSMAN SCHOLARSHIP: For a deserving U.S. citizen, without regard to major, who demonstrates creativity (in any discipline) and empathy for others. Special consideration will be given to a student who has challenges to overcome and demonstrates the resolve to build a better world. The scholarship will be effective beginning in the student's freshman year and will continue into succeeding years, if the recipient continues to maintain a G.P.A. above 2.5 and demonstrates a commitment to creating understanding within the University and broader community.

OFFICE DEPOT SCHOLARSHIP: For deserving students in any curriculum.

PHILADELPHIA MENS AND BOYS APPAREL ASSOCIATION SCHOLARSHIP: For a student majoring in Fashion Industries Management or Apparel.

PHILADELPHIA TEXTILE ASSOCIATION SCHOLARSHIP: For a student who is majoring in one of the Textile fields. Preference is given to a Philadelphia-area resident.

PHILADELPHIA WOOL AND TEXTILE ASSOCIATION AWARD: For a deserving textile student with 60 or more credits, who demonstrates need and is actively involved with a campus-based or community-based service organization.

HARRY REIMER SCHOLARSHIP: For a well-deserving student in any curriculum.

THE ARTHUR B. ROBERTSHAW JR. SCHOLARSHIP: For junior- or senior-level students studying Textiles.

THE HAROLD RONSON SCHOLARSHIP FUND: For deserving students in any curriculum.

ARTHUR SALAMAN SCHOLARSHIP: For a deserving student athlete with need and a 3.0 G.P.A.

SCHLESINGER SCHOLARSHIP: For a student in any curriculum.

THE SCHWAB FAMILY SCHOLARSHIP: Awarded to a junior Fashion Merchandising or Fashion Industry Management student with a 3.0 G.P.A.

JOHN SICHEL MEMORIAL SCHOLARSHIP: For a deserving student in any area of study.

ALLEN SIRKIN SCHOLARSHIP: Awarded to a needy student enrolled in Fashion Industry Management or Textiles.

RICHARD D. SMITH MEMORIAL SCHOLARSHIP: A scholarship restricted for a Textile major.

W.W. SMITH CHARITABLE TRUST: Given to academically qualified students from middle-income families, usually not eligible for federal and state grant assistance.

ARTHUR SOBEL SCHOLARSHIP: For deserving students enrolled in the Textile Design, Textile Engineering or Chemistry programs.

STEEL HEDDLE MANUFACTURING COMPANY SCHOLARSHIP: For academically qualified students who are majoring in Textile Engineering or Textile Management and Marketing, and are residents of VA, NC, SC, GA or AL.

THE JOHN L. STEEN SCHOLARSHIP/FELLOWSHIP: For a U.S. citizen who is a full-time undergraduate student majoring in Textile Engineering, Industrial and Systems Engineering with a minor in Textile Engineering, Textile Technology, Textile Design, or Textile Management and Marketing (must be a concentration in either apparel, fabric development, quality assurance or textile production.) The Steen Scholarship for undergraduate students will be effective beginning in the student's sophomore year and continue into succeeding years if the recipient maintains a grade point average above 3.0 (grading scale 4.0) and demonstrates a commitment to their chosen career field.

In the event that an undergraduate student is not available, the John L. Steen Graduate Fellowship must be awarded to a U.S. citizen who is a full-time graduate student majoring in Textile Engineering. The Steen Fellowship will continue into succeeding years if the recipient maintains a grade point average above 3.0 (grading scale 4.0)

The recipient, either an undergraduate or graduate student, is expected to demonstrate leadership skills and actively participate in community service.

In all cases, a resident of the State of New Jersey will be given preference.

BERNARD STEUR SCHOLARSHIP: For a Textile Engineering student with a strong interest in knitting.

BERTRAM A. STROOCK SCHOLARSHIP: For a deserving student.

MICHAEL T. SULLIVAN MEMORIAL SCHOLARSHIP: For deserving students in part-time evening programs; awarded annually.

TEXTILE DISTRIBUTORS ASSOCIATION SCHOLARSHIP: Given to students in need of financial assistance and enrolled in Textile curricula.

TEXTILE VETERANS ASSOCIATION SCHOLARSHIP: For a sophomore who demonstrates financial need and outstanding scholarship.

W. FRANK UHLIG SCHOLARSHIP: Preference is given to a student studying in textile and chemistry.

THE UNDER FASHION CLUB, INC. SCHOLARSHIP AWARD: To a junior-level student to encourage talented Fashion Design and Textile Design students to pursue careers related to the intimate apparel segment of the industry.

UPS SCHOLARSHIP: Distributed by the Association of Independent Colleges and Universities of Pennsylvania to a deserving student selected by the University's Financial Aid Office.

KELLY MARIE VOGDES SCHOLARSHIP: established in memory of Kelly Marie Vogdes, who graduated from Philadelphia University in 2001, for students studying Fashion Merchandising and who are graduates of Camden Catholic High School.

LEONARD WALLACH SCHOLARSHIP: Funded by TSG, Inc. to honor and recognize Mr. Wallach for his many years of dedicated service to TSG and the textile industry. The scholarship recipient will have 60 or more credits, a minimum 3.0 grade point average, be enrolled in a textile program (first preference goes to a Textile Management and Marketing

major), and be involved in community service and extracurricular activities.

FREDERICK WASSON SCHOLARSHIP: For students in any major.

JACQUES WEBER SCHOLARSHIP: For students from the Bloomsburg, Pa., area majoring in a textile-related field, demonstrating academic excellence and financial need.

MARTIN WEINER SCHOLARSHIP: Preference is given to Korean or other international students.

JOEL B. WEINSTOCK MEMORIAL SCHOLARSHIP: For a Textile Design or Interior Design major.

WHITESIDE GIFT SCHOLARSHIP: Based on a combination of financial need and merit, preference will be given to a student enrolled in the School of Business Administration.

J. BYRON WOLBACH SCHOLARSHIP: For a student majoring in Textile Engineering, Textile Technology or Textile Design. First consideration given to dependents of Lawrence Schiff Silk Mills employees.

WILLIAM WOOD FUND SCHOLARSHIP: For a student deemed deserving.

YOUNG MENSWEAR ASSOCIATION OF THE MEN'S APPAREL INDUSTRY ENDOWED SCHOLARSHIP: For a deserving student enrolled in a textile or apparel program.

YOUNG MENSWEAR ASSOCIATION OF THE MEN'S APPAREL INDUSTRY GIFT SCHOLARSHIP: Given to students who are pursuing educational courses that will benefit the men's apparel/textile industry and who have a demonstrated need for financial assistance.

Aid Policies

Academic Progress Requirements

The University is required to establish satisfactory academic progress standards for its federal financial-aid recipients in accordance with the U.S. Department of Education regulations. These standards ensure that only those recipients demonstrating satisfactory progress toward the completion of their educational programs continue to receive financial aid.

Whether a student is considered to be making satisfactory academic progress depends on successful semester completion of courses (credit hours), cumulative grade point average (GPA) and maximum time limits to complete their course of study. Students must meet all the requirements listed below:

- Semester Completion Requirement - A student must have earned hours equal to at least 75 percent of total hours attempted for the semester to remain in good standing. Students earning less than 75 percent of the hours attempted will be placed on financial-aid probation.
- Attempted hours are defined as the hours for which the student is enrolled and charged as of the census date of each semester. Earned hours are defined as the sum of hours for which a student has earned a grade of A, B, C or D. Withdrawals, incompletes, audits and failures are not earned hours. Passing grades received for pass/fail courses are considered attempted and earned hours; failing grades in pass/fail courses are considered attempted but not earned. Repeated courses are included in the calculation of attempted and earned hours.
- Grade Point Average Requirements - Students must maintain a cumulative grade point average (GPA) of 2.0 or have academic standing consistent with the requirements for graduation, as determined by the University. Philadelphia University's academic standards are outlined in this undergraduate course catalog.
- Maximum Time Limit Requirements - A student's eligibility for financial aid will be terminated once they have attempted more than 150 percent of the normal credits (as defined in the undergraduate course catalog) required for your degree program. All attempted hours are counted, including transfer hours, whether or not financial aid was received or the course work was successfully completed.
- Evaluation of Academic Progress - A financial aid recipient's satisfactory academic progress is evaluated after each semester of the academic year. At that time, a student will either be in good standing, be placed on financial aid probation or denied financial assistance for future enrollment periods. The student must meet all three progress requirements (completion rate, GPA and be within the maximum time frame) to remain in good standing. Student will be notified by the Financial Aid Office, if s/he is placed on probation or denial status for financial aid.
- Probation status - Probation status will not prevent the student from receiving financial aid. The probationary semester is meant to inform the student of potential academic problems and provide time for corrective action. If a student does not meet the satisfactory academic progress standards after the probationary period, denial status could be imposed or continued probation approved. Denial status will prevent the student from receiving any Title IV, and institutional financial assistance for future enrollment until such time as the student meets all satisfactory academic progress standards.
- Appeal and Reinstatement - Students may appeal their denial status by submitting an Appeal Form to the Director of Financial Aid. Appeal forms are included in the letter informing students of their denial status and should be submitted to the Financial Aid Office.

Some circumstances such as medical problems, illness, death in the family, relocation, employment changes or personal problems can be considered for an appeal. Documentation verifying the situation may be requested.

Submission of the form is required within four weeks of receipt of the denial letter. The Director of Financial Aid will review the appeal and contact the student via letter as soon as a decision is reached.

Students can raise their GPA and/or satisfy credit deficiencies by taking additional course work at Philadelphia University without receiving financial aid. Students can eliminate credit deficiencies, but not GPA deficiencies, by successfully completing approved course work at another

institution without receiving aid at that institution. Transfer credits used to satisfy credit deficiencies cannot be credits that were earned prior to the semester in which the student incurred the deficiencies. The student must submit a copy of the academic transcript to both the financial aid and registrar's office.

The policy does not preclude a student from enrolling in subsequent semesters. Students may have their financial aid reinstated by the Financial Aid Office once all satisfactory academic progress standards are met. It is the student's responsibility to inform the Financial Aid Office once they have fulfilled the necessary requirements.

Grade level advancement policy for Stafford Loan eligibility

1-29	Freshman level
30-59	Sophomore level
60-89	Junior level
90-up	Senior level
120-up	(for Architecture students only) 5th year

Tuition Refund Policy

Effective Date of Withdrawal	Refund Amount
Before Classes Start	100%
First Week of Classes	80%
Second Week	60%
Third Week	40%
Fourth Week	none

Federal regulations mandate that students attending Philadelphia University who are federal financial aid recipients be processed for a refund if they withdraw before the 10th week of the semester.

Financial Aid Refund Check Policy

Financial aid will be applied to tuition first. Any remainder must be applied to all other University charges before a refund check is issued. Students who are credited with aid in excess of their tuition and other charges must contact the business office after the second week of classes for that term's refund check.

Return of Title IV Funds

The Office of Financial Aid is required by federal statute to recalculate federal financial aid eligibility for students who withdraw, drop out or take a leave of absence prior to completing 60 percent of a payment period or term. The federal Title IV financial-aid programs must be recalculated in these situations.

Recalculation is based on the percentage of earned aid using the following Federal Return of Title IV funds formula. The number of days completed up to the withdrawal date divided by the total days in the payment period or term equals the percent of the payment period or term completed. (Any break of five days or more is not counted as part of the term.) The percentage is also the percentage of earned aid.

Funds are returned to the appropriate federal program based on the percentage of unearned aid (100 percent minus the percentage of earned aid).

If a student earned less aid than was disbursed, the institution would be required to return a portion of the funds and the student may be required to return a portion of the funds. Keep in mind that when Title IV funds are returned, the student borrower may owe a debit balance to the institution.

If a student earned more aid than was disbursed to him/her, the institution will offer the student a post-withdrawal disbursement via a letter, which, if accepted, must be paid within 120 days of the student's withdrawal. The student must accept or decline the post withdrawal disbursement within the time frame indicated in the letter.

Refunds are allocated in the following order:

Unsubsidized Federal Stafford Loans
Subsidized Federal Stafford Loans
Federal Perkins Loans
Federal Graduate PLUS Loans
Federal Parent (PLUS) Loans
Federal Pell Grants
Federal Academic Competitiveness Grant (ACG)
National Science and Mathematics Access to Retain Talent Grant (National SMART Grant)
Federal Supplemental Opportunity Grant

Academic Programs

Overview

Programs at Philadelphia University are professionally oriented and feature a unique blend of liberal studies and career preparation. The curricula seek: a) to enhance students' ability b) to ensure students' understanding of the ideas, traditions and values of their own and other cultures; and c) to prepare students to apply the concepts and techniques of both general and specialized learning to a full personal and professional life.

The academic programs offered at Philadelphia University are administered by the School of Architecture, the School of Business Administration, the School of Design and Media, the School of Engineering and Textiles, the School of Liberal Arts, the School of Science and Health, the Department of Physical Education and the Office of Continuing and Professional Studies. The academic programs and courses of study for each school or department are outlined in the next section.

Assessing Learning Outcomes

Philadelphia University recognizes that assessing student learning is an important part of measuring institutional effectiveness and should be employed throughout the curriculum. Assessment extends beyond the evaluation of individual student work routinely conducted in courses. It seeks to explore teaching-learning connections and to apply what is learned from this exploration to the improvement of University programs through the efforts of its faculty.

All curricula at Philadelphia University, a career-oriented university, combine theory and application, and performance and integration. This mixture guides the faculty as they develop specific learning outcomes for their programs. Assessment helps in understanding how well students are achieving these outcomes and reflects the belief in the importance of learning by doing. Assessment also helps ensure that the University's programs fulfill the University's mission to provide students with a distinct blend of liberal and professional education.

Bachelor's Degree Components

College Studies

The general education program at Philadelphia University is designed specifically for professionally oriented students. Technological change, economic shifts and increasing interdependence demand a strong grounding in liberal education, as well as professional and technical expertise. All students in the University take the common liberal-education sequence called the College Studies Program. Study in the liberal arts and sciences develops the skills to be an integrative thinker who can see connections in a wide range of knowledge and across disciplinary boundaries. Through exposure to complex, real-world issues, through studies in history, humanities and the social sciences, mathematics and the natural and physical sciences, students become graduates who are well-read, well-spoken, worldly, flexible and adaptable – individuals who never stop learning and making connections in everything they do.

The School of Liberal Arts and the School of Science and Health have joint responsibility for courses in this program, promoting the best of a strong liberal arts and sciences tradition while working alongside the professionally oriented curriculum. Students progress through a carefully constructed four-year sequence, making connections between disciplines and viewing their own fields of choice through larger social, economic, political and cultural lenses. College Studies forms the backbone of every student's major, bringing classmates together to share a common educational experience and to learn from each other's diverse perspectives. All students at the University take approximately 40 percent of their coursework, in College Studies.

General education at the University is broader than just College Studies, and general education objectives are built into the course of study in each major. College Studies and our wider general education focus allow our students to become lifelong learners, able to adapt to changing career demands.

Professional Studies

The professional studies component of the degree is designed to provide students with the knowledge and skills required for successful entry into a career. Courses are sequenced over four or five years to allow students to build skills and an understanding of their professional discipline throughout their educational experience.

Minor

A Minor is a series of courses that provides the opportunity to study in an area which complements, enhances or contrasts with the student's professional studies. Minors are posted on a student's transcript.

Designated Electives

Designated electives allow students to select from a pre-approved set of courses that allows both freedom of choice with some degree of programmatic guidance.

Free Electives

Free electives allow students to tailor their degree program to meet their personal and educational goals. Students who participate in the Internship Programs will use these credits to partially satisfy the free elective requirement.

Physical Education and Service Learning

A two-semester sequence of physical education or a one credit service learning course is required of all day division students. These course options offer a variety of activities, including traditional instruction, making it possible for students to fulfill this requirement in a constructive and enjoyable manner.

Internship Programs

The Internship Programs assist students in preparing for their careers through facilitation of a work experience directly related to the major or career, and by augmenting that experience through elective academic courses designed to include professional goal-setting activities and reflective writing assignments. Students receive the support and guidance of the program staff and a faculty member from the student's major throughout the job search, as well as during the semester of program participation. At the conclusion of the internship semester, all students are evaluated both by their employer and faculty member, and receive a grade derived from successful work performance as determined by the employer and the quality of academic assignments submitted to their faculty.

Students are strongly encouraged to apply early for the best success in finding an appropriate experience, but should note that program application does not guarantee employment. To prepare for the internship search process, students should develop a résumé as well as take advantage of the numerous career development services and events offered by the university as part of the Career Services Center to aid in researching companies, careers and in successfully interviewing.

Basic requirements for participation in the Internship Programs:

- Full-time status
- Completion of 60 credits by the start of the internship experience
- 2.5 cumulative GPA in the semester preceding the internship

Study Abroad Program

Studying abroad aids students in preparing for successful professional participation and competition in an increasingly interdependent world, and in performing with distinction in the international and multicultural contexts that are shaping professional life, while also experiencing a foreign culture firsthand. Largely a junior-year program, students may study abroad in University-sponsored short courses of just a few weeks, or spend an entire semester or academic year abroad.

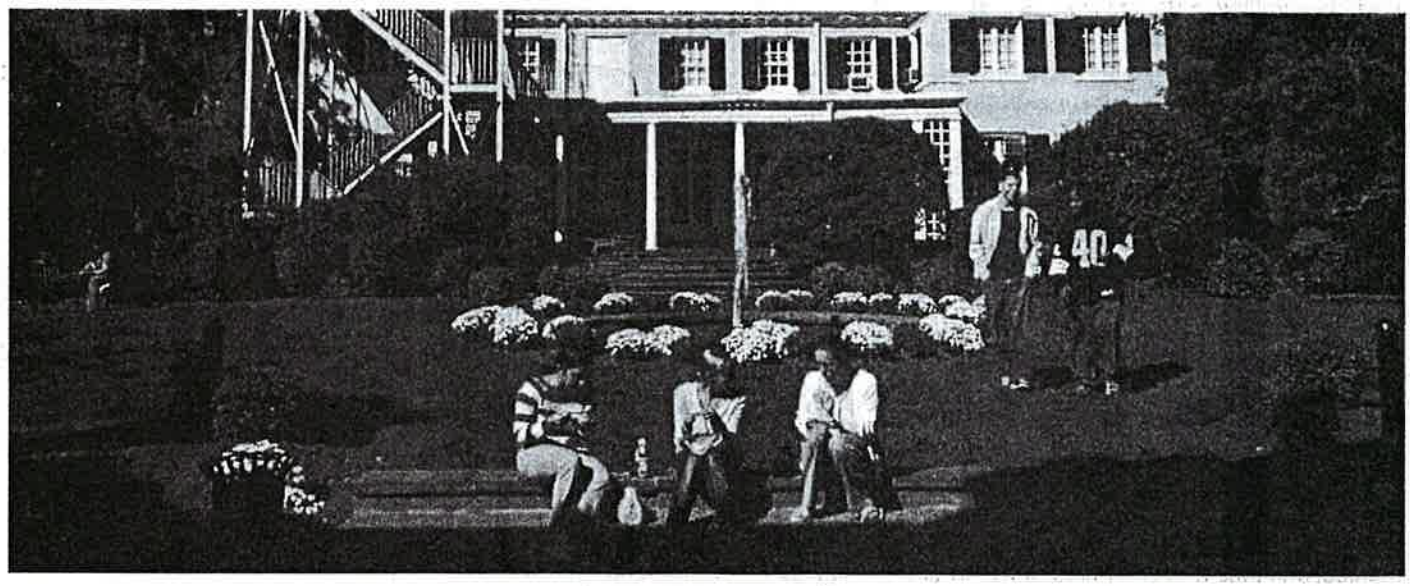
To ensure a successful experience abroad, program applicants receive individualized attention and counseling when assessing their Study Abroad options. Academic and career goals are discussed with the student's academic advisor and the Study Abroad staff, and an approved program of study is created. The Study Abroad Office then guides the student toward achieving her or his foreign study needs and goals, and oversees the transfer of academic credits.

In order to transfer credits earned while abroad, students must apply to, and be accepted by, the Philadelphia University Study Abroad Office before studying overseas. Deadlines apply. Students accepted into the Study Abroad Program remain enrolled at Philadelphia University and register for study at a college or university approved by Philadelphia University. Only approved credits and equivalencies earned overseas in the above manner may be reported on students' Philadelphia University transcripts.

Philadelphia University's expanding program offers study-abroad options in such diverse locations as Australia, China, Denmark, England, France, Germany, Italy, Japan, Mexico, Scotland and Spain. Applications and information may be obtained from the Study Abroad Office. General information is available on the Study Abroad web site at www.PhilaU.edu.

Basic Requirements for Study Abroad:

- Philadelphia University-approved program of study;
- Completion of 60 credits by the start of studies abroad (semester/academic year abroad);



- 2.5 cumulative GPA both at the time of application and at the end of the semester preceding studies abroad;
- Two Study Abroad recommendation forms completed by faculty members at Philadelphia University;
- Certification from the Office of Student Life that the student is not on disciplinary probation at the time of application to Study Abroad. Students on disciplinary probation may not apply;
- A short, formal essay detailing how the student hopes to benefit from studying abroad;
- Other requirements as may be noted on the Study Abroad application.

Note: Schools and departments may impose additional requirements. Students are also subject to the academic requirements of foreign institutions and the immigration laws of foreign nations.

Honors Program

The Honors Program brings together highly motivated students and dedicated faculty in a curriculum that is both challenging and supportive. The program aims to reach beyond professional or specialized study to inspire students to a lifetime of broad intellectual curiosity, self-sustained inquiry and personal growth. It attempts to develop critical thinking, leadership skills and awareness of global issues.

A combination of enriched courses and co-curricular activities, the program is designed to challenge the best students at the University. Faculty and students join in a common intellectual and social venture; share an openness to new ideas; commit to the energetic pursuit of excellence; and nurture the complete development of the individual. In each course, faculty attempt to foster a climate in which individual differences contribute richly to a common pursuit of learning.

The core of the program is composed of seven Honors-level courses in the College Studies curriculum. As a capstone course, all Honors scholars enroll in an Honors section of the COLLST-499 Contemporary Perspectives course during their senior year. Honors credits can be met in a variety of ways. Honors options range from more traditional choices, such as enrolling in Honors classes and studying abroad, to creating an individualized college experience through specialized research, independent study, or assuming leadership roles in community-service projects.

Writing Across the Curriculum

Philadelphia University recognizes the vital role of written communication in college, the workplace and the community. As a result, students begin in the first year with a dynamic and demanding writing across the curriculum program that includes a wide range of academic and professional writing. The writing curriculum is integrated throughout the institution's professional majors and the general education core. Before graduating, all Philadelphia University undergraduate students must complete two writing-specific courses and four courses designated in the University Catalog as writing-intensive (WI). In addition, students are also required to complete numerous and diverse writing assignments in courses, studios, and labs that carry neither the writing-specific nor the writing-intensive designation. The Writing Across the Curriculum program supports Philadelphia University's commitment to fostering strong writing skills so that students will be able to write well both in their lives as college students and later as professionals and citizens. Toward this end, the program offers Honors, Fundamentals, and English as a Second Language writing courses. Students may also pursue a range of additional opportunities to write in co-curricular and professional arenas such as the student yearbook, *Analysis;* and *Open: A Writing & Design Collaboration*. Professional writing tutors in the Learning & Advising Center support students in all subjects and at all levels of the curriculum.

Information Literacy

Information literacy is embedded in the curricula of each school. Students are exposed to information literacy concepts in the context of their professional programs, in addition to their College Studies courses. Students learn how to use the information resources and technologies relevant to their lives as scholars on campus and as professionals in the field. Throughout their undergraduate career, students gain practical experience in the critical application of data and information to various information needs and problems.

The 21st-century workplace recognizes the value of information-literate employees. Today's technology and knowledge-driven economy demands highly skilled workers who are adaptable, resourceful, intrinsically motivated and able to learn. Through the University's efforts to create information literate graduates, students engage in the same process of information problem solving that will continue for the rest of their lives.

Academic Support Services

Academic Achievement Program/ Act 101

The Academic Achievement Program/Act 101 (AAP) provides support services, leadership development, a sense of community, and access to cultural activities so that AAP students may persist in college and attain a degree. To be eligible for the AAP Program, students must be residents of the Commonwealth of Pennsylvania, meet financial requirements as stipulated by the Pennsylvania Department of Education and meet academic requirements as identified by the University.

Disability Services

Any student with a documented disability, including a physical impairment, learning disability or psychological disability, is eligible for services and reasonable accommodations. Accommodations include, but are not limited to, untimed tests, distraction-free testing environment, note takers, textbooks on tape, reduced course load, assistive technology and adaptation to physical facilities.

The Learning and Advising Center

The Learning and Advising Center is the University's comprehensive source for academic assistance. The Center offers a wide range of advising and tutoring services.

Academic Advising

Academic advisors assist students in meeting their educational goals and utilizing campus resources. Advising for first-year, day-division students and students who have not declared their major is provided by the Learning and Advising Center. Upper-level, day-division students who have declared their major are assigned advisors in their schools. An important tool for advisors is the Academic Alert Program through which faculty provide advisors with information regarding students' academic performance.

The Office of Continuing and Professional Studies advises Continuing Studies students. The office maintains regular evening hours. In addition, students may elect advising via telephone or email.

Majors Advising

Students who have not yet declared a major or who are thinking about changing their major are encouraged to meet with the Assistant Director of the Learning and Advising Center. Students have the opportunity to discuss possible majors, and to talk with appropriate professionals on campus about the fields they are considering.

Majors Undeclared

Students who wish to explore possible majors may keep their options open during their first two years at the University. Students who choose not to declare a major must work closely with their academic advisors and the Learning and Advising Center staff to select courses that will help them to prepare to enter a specific major. Undeclared students are urged to declare a major after they have completed 30 credits. They are required to declare a major after they have completed 60 credits.

Tutoring Services

Both professional and peer tutoring are available to all Philadelphia University students who wish to improve performance or maintain high grades in a variety of subject areas. Students work one-on-one or in small groups with professional or peer tutors. Workshops are offered in areas such as time management and note- and test-taking strategies. Other workshops target skills needed for particular courses. All of these services are available at no cost to Philadelphia University students.

Included in the Learning and Advising Center are the following tutoring services:

- **Professional and peer tutoring** is available for all levels of math courses.
- **Writing assistance** is available at all stages of the writing process, from help with organizing ideas and getting started on papers to revising final drafts. Specialized help is also available for writing research papers and for problems with documenting sources, grammar and punctuation.
- **Study Skills/Test Taking Strategies**: Specialized help is available for students who want to read, study, and take tests more effectively.
- **English as a Second Language**: Students speaking English as a second language can receive both specialized professional help and student assistance in coursework and general language skills.
- **Tutoring**: Peer tutoring related to specific academic courses is offered by fellow students experienced in the subject, recommended by faculty and trained in learning techniques.

Other Advising Services

Students who plan to take courses at another institution must obtain the request forms and begin the process at the Learning and Advising Center or the Office of Continuing and Professional Studies. Forms are also available for students who wish to change major. The Learning and Advising Center also clarifies academic policy for faculty, staff and students. Students planning to take a leave of absence or withdraw from the University are encouraged to speak with the Learning and Advising Center staff.

School of Architecture

Dean: V. Nathan

Associate Dean: D.M. Breiner

Interim Director, Architecture Program: D.M. Breiner
Director, Interior Design Program: L. Baumbach

Director, Landscape Architecture Program: C.G. Phillips

Faculty: L. Baumbach, D.M. Breiner, J. Carnell, J. Cespuglio, G.J. Crowell, K. Douglas, D. Dunham, E. Keeter, R.M. Fleming, S.I. Frostén, R.A. Fryer, C.S. Griffen, S.D. Grout, C. Harnish, C. Hermann, D. Kratzer, M. Livingston, A.A. Messinger, V. Nathan, C.G. Phillips, L. Phillips, A. Plata, S.M. Singletary

The School of Architecture recognizes that design professionals require an in-depth understanding of economic, technical and aesthetic issues within a complex social, cultural and environmental framework. Building on the University's goal to provide professional skills combined with a broad general education, the School's mission is to prepare students to be creative, independent thinkers and innovative problem solvers. Emphasis is placed on critical excellence, balanced with the fundamental knowledge and skill required for meaningful contributions to professional design practice. In congruence with the mission of the University, the School encourages students to establish a "foundation for success, lifelong learning, and active citizenship," as stewards of a sustainable society.

The School draws from the academic context, location and professional orientation of the University in pursuing its mission. Six different career options are offered in an intimate collegiate setting and cooperative faculty/student-learning environment. The School encourages interdisciplinary and collaborative work in offering the following professionally related degree programs:

- Five-Year Bachelor of Architecture (B.Arch.)
- Four-Year Bachelor of Science in Architectural Studies (B.S.)
- Five-Year Bachelor of Science in Architectural Studies/ M.S. Construction Management
- Four-Year Bachelor of Science in Interior Design (B.S.)
- Five-Year Bachelor of Landscape Architecture (B.L.A.)
- Five-Year Joint Bachelor of Science in Architectural Studies/M.B.A. Program

The five-year **Bachelor of Architecture (B.Arch.)** program, accredited by the National Architectural Accrediting Board (NAAB), is committed to an interdisciplinary approach at all levels of the curriculum. It shares an integrated curriculum with Landscape Architecture and Interior Design, providing students with opportunities for collaboration and time to experience aspects of allied design disciplines. The studio, considered the core of the architecture program, is the center of activity where course material and learning are synthesized. Opportunities are provided for professional internships, study abroad, elective enrichment, specialization and independent pursuits.

The four-year **Bachelor of Science in Architectural Studies (B.S.)** program offers a pre-professional degree for those who wish to have a foundation in the field of architecture and to pursue a concentration in cognate fields such as Construction Management and Historic Preservation. This program shares foundation studies courses; required technology, visualization and history courses; and elective courses with the Architecture, Landscape Architecture and Interior Design programs. Students have the option to pursue a five-year B.S./M.S. Construction Management or the Joint B.S./M.B.A degrees.

The four-year **Bachelor of Science in Interior Design (B.S.)** program prepares graduates to be articulate, creative and socially aware design professionals. Specific highlights of the program include accreditation by the Council for Interior Design Accreditation (CIDA, formerly known as FIDER), interdisciplinary studios with allied design disciplines, study abroad, professional internships in design offices, elective enrichment, specialization, independent pursuits and collaboration.

The **Bachelor of Landscape Architecture (B.L.A.)** program meets the needs of landscape architecture students who are pursuing a first professional undergraduate degree. Throughout the education process, landscape architecture students are challenged to develop a thorough understanding of a site including its socio-cultural and environmental factors. At the core of the program are planning and design studios in which students focus on the development of sustainable responses and solutions to site problems and opportunities. The Landscape Architecture Program is fully accredited by the Landscape Architecture Accreditation Board (LAAB).

Retention of Student Work
Projects completed by students in design studios and courses may be selected to become part of the University's collection for exhibition and/or review. Student work not selected will be stored for only 30 days into the following semester.

Architecture

The primary goal of the five-year Bachelor of Architecture (B.Arch.) program is to provide a comprehensive professional education that will develop the knowledge, skill and vision necessary for the student to understand contemporary global issues and address the varied needs of society. Fundamental to the program's philosophy is a commitment to design excellence and innovation, including the nurturing of creative individuals. An essential premise of the program is the recognition of the critical relationship between theory and practice in shaping and sustaining the built environment (buildings, cities and landscapes). A diverse faculty,

traditional campus setting and dynamic urban context combine to create an ideal environment for the development of the intellectual rigor and imagination necessary to achieve the program's goals.

The faculty of the Architecture program includes individuals accomplished in research, design and professional practice. Areas of faculty expertise include history, theory, technology, professional practice, sustainable design and digital technologies. Adjunct faculty and visiting critics complement full-time faculty, bringing contemporary theory and practical experience from the region's leading architectural practices. In the professional architecture program, the design studio is the focus of activity where course work and learning are synthesized and design fundamentals are stressed. The content of the curriculum is based on recognition of local, regional and global views of architecture. Emphasis is on understanding the forces that shape design and the process of making buildings and places. During the first year, foundation studies courses are conducted in an interdisciplinary environment, introducing principles, values and the common vocabulary necessary for effective professional teamwork. The second-year foundation studies courses continue teaching the building blocks for future design studios. Also, during the first two years, general education courses are emphasized and digital, technical and history of architecture and interiors courses are introduced.

During the third, fourth and fifth years, more advanced technical and professional courses are added to the curriculum, supporting studio design projects of increasing complexity and scope. In the fourth year, an elective design studio is available. Options range from specialized studios within the Architecture program to design studios offered by the other programs on campus and studios set in study-abroad programs. The Architecture program has an established study-abroad program in Rome, Italy, with the American University of Rome. In the fifth year, first semester, systems synthesis and collaboration are emphasized in addressing complex urban/suburban and theoretical problems. Studio instruction emphasizes independent research, programming and critical analysis in establishing the theoretical basis for design work. Thesis and faculty-directed capstone studio options are offered during the final semester. The thesis option requires an approved thesis proposal. Studio instruction emphasizes independent research, programming and critical analysis in establishing the theoretical basis for design work. Both options require comprehensive designs that articulate the physical, spiritual and theoretical objectives and demonstrate full resolution of the project.

Elective studio and course options at the advanced levels are designed to encourage students to develop their individual interests and professional directions. In addition to courses in other schools and programs, opportunities for specialization and enrichment are also available in areas such as housing, experimental structures/materials, furniture design, historic preservation, design theory, photography and visualization techniques.

In support of the goals for professional education, the Architecture program is committed to providing state-of-the-art computer technology and software to facilitate the integration of digital technologies in the design process and project development.

The School of Architecture requires the purchase of a laptop computer before entering the second year of each program: Bachelor of Architecture, Bachelor of Science in Architectural Studies, Bachelor of Science in Interior Design; and Bachelor of Landscape Architecture. The University bookstore makes every effort to offer the lowest possible prices of the required software for coursework. Visit www.phila.edu/oir for hardware and software recommendations.

Professional Accreditation

The five-year Bachelor of Architecture (B.Arch.) program is accredited by the National Architectural Accrediting Board (NAAB). Five years of study is the minimum time required for this professional B.Arch. degree.

In the United States, most state registration boards require a degree from an accredited professional degree program as a prerequisite for licensure. The National Architectural Accrediting Board (NAAB), which is the sole agency authorized to accredit U.S. professional degree programs in architecture, recognizes three types of degrees: the Bachelor of Architecture, the Master of Architecture, and the Doctor of Architecture.

A program may be granted a six-year, three-year or two-year term of accreditation, depending on its degree of conformance with established educational standards. Master's degree programs may consist of a pre-professional undergraduate degree and a professional graduate degree that, when earned sequentially, constitute an accredited professional education. However, the pre-professional degree is not, by itself, recognized as an accredited degree.

The Architecture check sheet can be found on page 67.

Architectural Studies

The Bachelor of Science in Architectural Studies program offers a pre-professional degree for those wishing a foundation in fields cognate to the discipline of architecture. The degree is intended as preparation for advanced degree programs (i.e., architecture, landscape architecture, construction management, urban design and planning, business, architectural photography, historic preservation, etc.) or for employment in the construction industry, historic preservation agencies, and other related fields. The Bachelor of Science in Architectural Studies is not intended as preparation for architectural practice.

The first two years of the Architectural Studies curriculum are similar to the first two years of the five-year professional architecture (B.Arch.) program curriculum. The program shares foundation studies courses and required technology, visualization and history courses, as well as elective courses with the Architecture, Landscape Architecture and Interior Design programs. During the first year, foundation studies courses are conducted in an interdisciplinary environment,

introducing principles, values and a common vocabulary. The second-year foundation studies courses continue teaching the building blocks of design for future studios. Also, during the first two years, general education courses are emphasized.

In the third and fourth years of the curriculum, students majoring in Architectural Studies are required to complete a concentration in an architecture-related discipline, such as construction management or historic preservation, in addition to required College Studies and elective courses. Students should select their concentrations with the assistance of their academic advisors.

Construction Management Concentration

This concentration provides a foundation in the field of Construction Management. Courses cover a range of topics from construction technologies to business practices and offer a broad understanding of issues essential to the planning, programming and supervision of complex construction projects.

Required courses:

ARCH-427	Construction Management I
ARCH-428	Construction Management II
ARCH- 309	Structures I
ARCH- 310	Structures II
INTD-305	Interior Building Systems
ARCH- 426	Design/Build or ARCH- 401Design VII for Architecture (Design/Build option only)
ARCH-403	Technology III: Lighting and Acoustics
ARCH-404	Technology IV: Dynamic Systems
ARCH-408	Visualization II: Documents and Detailing
MGMT-301	Principles of Management
MKTG-102	Principles of Marketing
ARCH-499	Construction Capstone Project

Recommended electives: (3 Credits)

BLAW-301	Business Law I
ACCT-101	Financial Accounting

Historic Preservation Concentration

This concentration provides a foundation in the field of Historic Preservation. Courses cover a range of skill sets and knowledge bases, including preservation law, policy, and advocacy; historic building technologies and structural systems; period styles and building types; material properties and processes of deterioration; research methodologies and diagnostic criteria; and methods of technical and graphic documentation. Students acquire the tools to analyze and assess the condition of historic structures and to formulate comprehensive, sustainable preservation strategies based upon these findings.

Required courses:

ARCH-420	Introduction to Historic Preservation
ARCH-4xx	Preservation Technology
ARCH-411	Architectural Photography
INTD-428	Restoration/Rehabilitation Interiors
LARCH-507	Cultural and Landscape Preservation
ARCH-425	Meaning in Architectural Ornament
ARCH-4xx	Historic Preservation Documentation: Drawing
ARCH-4xx	Historic Preservation Documentation: Photography
ARCH-341	American Architecture
LARCH-512	Urban Design/Planning
ARCH-421	Historic Building Assessment/Capstone

Recommended electives: (6 Credits)

History/Theory Elective—Choose from the following: ARCH-409 The Great American City; ARCH-410 Vernacular Architecture; ARCH-422 Theories of Architecture Seminar; ARCHDSN-493 Historic Preservation Internship

The Architectural Studies check sheet can be found on page 69.

Architectural Studies/M.B.A. Joint Degree

The joint program in Bachelor of Science in Architectural Studies/M.B.A. offers the opportunity to combine the Architectural Studies program with a pre-M.B.A. minor for non-business majors. Upon completion of the requirements outlined below, students in good standing will be awarded first the B.S. in Architectural Studies and then the M.B.A.

The Bachelor of Science in Architectural Studies (pre-M.B.A. minor) offers a pre-professional degree for those wishing a foundation in architecture and business. The degree is intended to serve as preparation for application to the M.B.A. program or as preparation for employment in the construction industry, business and other related fields. The Bachelor of Science in Architectural Studies (pre-M.B.A. minor) is not intended as preparation for architectural practice.

The first two years of the Architectural Studies curriculum are similar to the first two years of the five-year Architecture (B.Arch.) program curriculum. The program shares foundation studies courses and required technology, visualization and history courses, as well as elective courses with the Architecture, Landscape Architecture, Interior Design and Industrial Design programs. During the first year, foundation studies courses are conducted in an interdisciplinary environment, introducing principles, values and a common vocabulary. The second year foundation studies courses continue teaching the building blocks of design for future studios. Also, during the first two years, general education courses are emphasized.

In the third and fourth years of the curriculum, students are required to complete a 27-credit hour pre-M.B.A. minor in addition to required Architecture, College Studies and elective courses. The pre-M.B.A. minor is composed of a series of undergraduate and graduate business courses. Official application to the M.B.A. program may be made only after completion of the sophomore year and no later than the start of the senior year. Application should be made through the Graduate Admissions Office. Transfer students may also apply. Currently enrolled students will be considered for admission if they have maintained a 3.0 GPA. The GMAT is required for full acceptance to the M.B.A. program and must be taken before the end of the senior year.

Students interested in the Joint B.S./M.B.A. program should obtain a copy of the "Pre-M.B.A. Requirements for Non-Business Majors: Planning Guide." The guide describes the requirements for admission and the application process

as well as the Pre-M.B.A. course requirements. Planning guides are available from upper-level advisors, as well as from the Graduate Business Programs Office in Tuttleman 104.

The Architectural Studies/M.B.A. Joint Degree check sheet can be found on page 73.

Interior Design

The Bachelor of Science in Interior Design provides an extensive education to meet the demands and challenges of this exciting and creative profession. In preparation for a rapidly evolving, technology- and information-driven society, Interior Design requires an in-depth understanding of the aesthetic, cultural, technical, environmental and economic issues pertaining to the built environment.

The mission of the Interior Design program is to prepare designers to become innovative problem solvers and independent thinkers, who can begin the professional licensing process. The program strives to instill in its graduates the highest standards of professionalism and professional practice, integrity, competence and excellence in design. A multidisciplinary faculty and a close-knit campus community provide a stimulating setting for the informed and inventive academic development of every student.

This four-year professional program is accredited by the Council for Interior Design Accreditation (CIDA, formerly known as FIDER). At the program's core are design studios in which students explore the creative process through a series of varied and progressively more complex projects. The functional knowledge necessary for design is introduced through formally structured courses focusing on such varied topics as construction, building codes, lighting, acoustics and mechanical systems; as well as furniture, finishes and fabrics. The interior design studios foster an interdisciplinary environment, centered on creative experimentation, where material from other courses is synthesized through the act of design. Each year, the student will build upon earlier courses and begin to integrate functional issues into the design studio. In the fourth year, the thesis is the culmination of all previous studies, integrating design ideas, history, theory, humanistic values and innovative materials in shaping interior spaces.

Students may follow secondary specializations in business, marketing and textile applications in interiors or furniture design. Philadelphia University also offers a unique opportunity to gain a valuable, highly specialized knowledge of fibers and fabrics at the Grundy Laboratory and at The Design Center at Philadelphia University. The educational quality of the program is further enhanced by the solid liberal arts foundation required of all students.

The program is grounded in the belief that interior designers should enter the global marketplace as articulate, creative, inspired designers and socially aware professionals. The program seeks to instill in students an awareness and sensitivity to the social, technological, aesthetic, cultural and ethical responsibilities involved in the design of living and working environments.

The Interior Design check sheet can be found on page 75.

Landscape Architecture

The primary goal of the Bachelor of Landscape Architecture Program is to meet the needs of Landscape Architecture students who are pursuing a first, professional undergraduate degree. As with other School programs, the Landscape Architecture Program endeavors to provide a comprehensive professional education that will develop the knowledge, skill and vision necessary for the student to understand contemporary global issues and address the varied needs of society. Building on the School's mission to prepare students to be creative, independent thinkers and innovative problem solvers, the Landscape Architecture Program promotes sustainable landscape design, with particular emphasis on ecological planning and design in the urban environment.

The Landscape Architecture Program supports local and regional leadership in confronting ecological issues of the natural and built environments within the Philadelphia Metropolitan corridor (New York City to Washington, D.C.). The focus is on urban ecological issues while searching for environmentally sustainable solutions to human problems of growth and development. The program is committed to providing leadership in confronting issues that affect urban neighborhoods, particularly those that are in need of revitalization. As its field of inquiry, the program uses the Mid-Atlantic region, which encompasses a variety of landforms including the inner city, and suburban and rural landscapes. In addition, Philadelphia University is uniquely positioned on the edge of the Wissahickon Valley Park, a 1700-acre park within the Fairmount Park System, where natural systems and restoration techniques can be easily studied. The area has a vast concentration of cultural, social, historic and natural systems, which present a vast resource to the student.

Throughout the education process, students are challenged to develop a thorough understanding of a site, including its socio-cultural and environmental factors. At the core of the program are planning and design studios where students focus on the development of sustainable responses and solutions to site problems and opportunities. The goal is to challenge students to create site-appropriate designs, as well as to enhance the value and sustainability of places. During the first year, foundation studies courses are conducted in an interdisciplinary environment, introducing principles, values, and the common vocabulary necessary for effective professional teamwork. The second-year foundation studies courses continue teaching the building blocks of design for future studios. Also, during the first two years, general education courses are emphasized and digital, technical and history of landscape architecture courses are introduced.

During the third, fourth and fifth years, more advanced technical and professional courses are added to the curriculum, supporting studio-design projects of increasing complexity and scope. In the fourth year, an elective design studio is available. Options range from specialized studios within the Landscape Architecture Program to design studios offered by the other programs on campus and studios set in

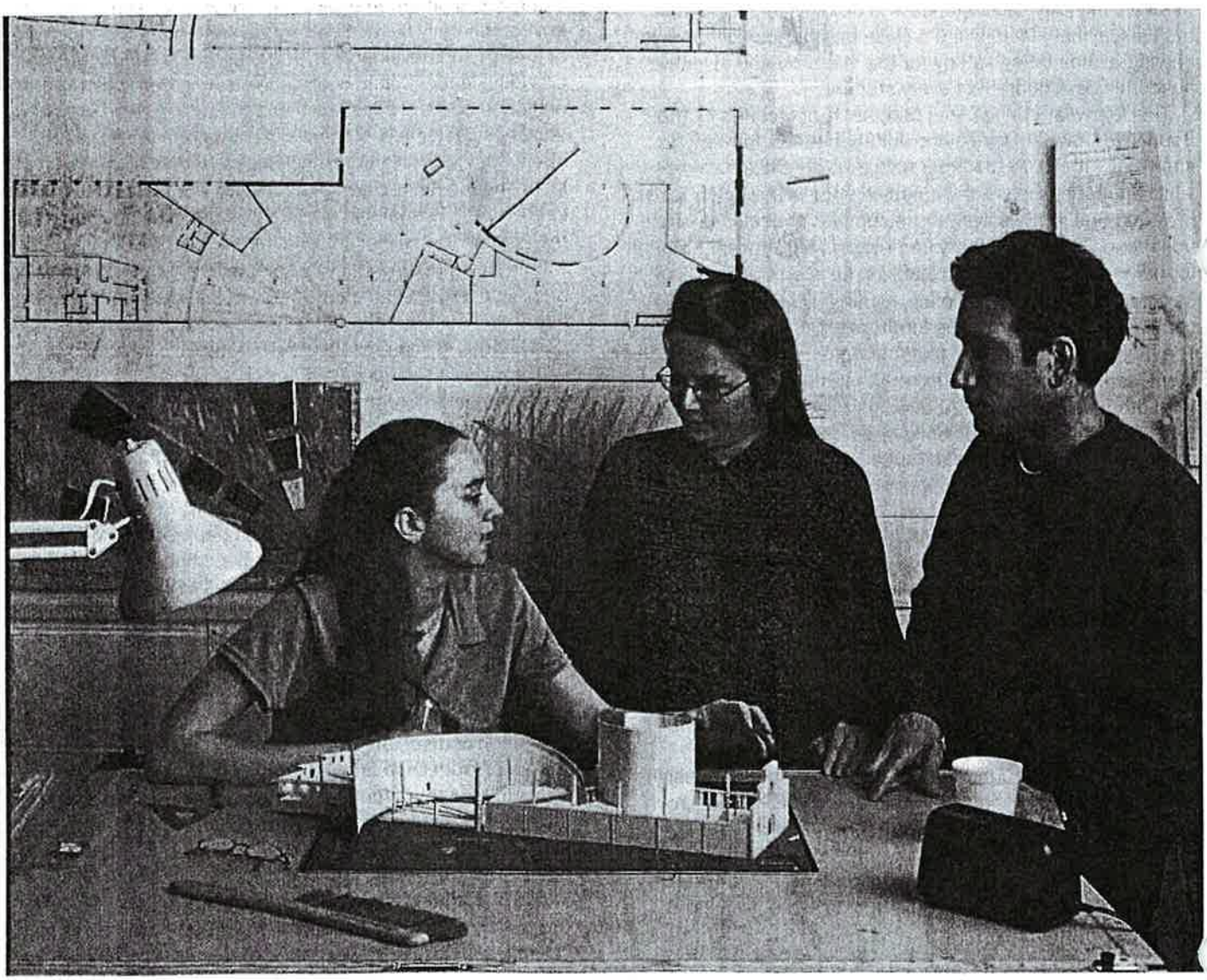
study-abroad programs. Also in the fourth year, Landscape Architecture students are encouraged to select an area of concentration (i.e., ecological design and planning, urban design, digital technology, etc.) that supports the elective studio option. In the fifth year, first semester, the design studio operates much like a professional office – students take a project from inception through construction documentation. Thesis (requiring an approved thesis proposal) and faculty-directed capstone studio options are offered during the final semester. Both options require comprehensive designs that articulate the physical, spiritual and theoretical objectives of the project and demonstrate full resolution of the landscape architectural design.

Elective studio and course options at the advanced levels are designed to encourage students to develop their individual interests and professional directions. In addition to the areas of concentration listed above and courses in other schools and programs (i.e., architecture; interior, graphic/digital and industrial design; textiles; science; business; etc.), opportunities for specialization and enrichment are also available in areas such as design and human behavior, cultural and landscape preservation, animation and photography.

In support of the goals for professional education, the Landscape Architecture Program is committed to providing state-of-the-art computer technology and software to facilitate the integration of digital technologies in design process and project development.

The Landscape Architecture Program is fully accredited by the Landscape Architecture Accreditation Board (LAAB).

The Landscape Architecture check sheet can be found on page 77.



School of Business Administration

Dean: R.F. Kershaw

Assistant Dean: E. Keidat

Assistant Dean: M.S. McDonald

Faculty: S.L. Borowsky, S. Bradley, S. Christoffersen, A. Datta, M. Faust, G.C. Frampton, S. Frumkin, C. Hopson, E. Keidat, I. Kink, H. Lermack, C.M. Lim, D.K. Malhotra, E.L. Mariotz, M.S. McDonald, J.T. Naidu, R.R. Poteau, C. Rusinko, P. Russel, L.C. Russow, J.F. Sanford, J.N. Solano, L. Sztandera.

Our focus in the School of Business Administration at Philadelphia University is on preparing students to become leaders in the 21st century business world. Like most business schools we teach students about accounting, marketing, finance, etc. which is necessary but no longer sufficient for success in a dynamic, competitive, global business environment. Therefore, we focus on developing the skills that employers value (e.g. communication, teamwork, and problem solving) and will allow students to advance their careers. We accomplish this through a learning approach that is experiential, collaborative, and real world. From day one of their freshman year, students learn about business by working on real business problems and interacting with real business executives. At the Philadelphia University School of Business, we connect the textbook with the real world and students don't just read about business, they experience it.

One of the ways we connect our students to the world of business is through our internship program. All of our business students are strongly encouraged to do at least one internship experience as part of their program. These experiences not only allow students to learn by linking concepts discussed in class to a real business but also allow them to "test drive" a particular job, industry, or company. Increasingly, employers are requiring that new college graduates have experience when they graduate and are using internships as a way to recruit talented graduates to their companies.

The nature of our faculty is another key ingredient in preparing students for the challenges and opportunities of business. Since most of our professors have extensive backgrounds in the world of commerce, they are able to make the classroom "come to life" by bringing their experiences to the subject at hand. Their connections to business also play an important role in our students' ability to successfully launch their careers. Our faculty are dedicated teachers who are focused on helping students learn and grow in order to achieve their career aspirations.

Many of our students also explore the global nature of business by participating in the university's study abroad programs. Since the marketplace is truly global, we encourage students to experience the culture, language and business practices of a different country or region. All students in our full time MBA program participate in an international experience that exposes them to companies and business culture of countries such as China and India.

The School of Business Administration is a member of AACSB International – The Association to Advance Collegiate Schools of Business – and the curricula are designed to be consistent with the guidelines set forth by AACSB International. We are also committed to becoming fully accredited by AACSB within the next several years.

Majors within the School of Business Administration:

- Accounting
- Fashion Merchandising
- Finance
- Financial Information Systems
- International Business
- Management
- Management Information Systems
- Marketing

Mission Statement

Philadelphia University's School of Business Administration is committed to a tradition of undergraduate and graduate professional education. The School offers a comprehensive career-oriented education integrated with an internationally recognized liberal arts curriculum designed to balance general and professional education.

The School's curriculum is built upon a solid core of courses that are applied to today's ever-changing international business environment. Our unique integration of the core curriculum enhances the students' analytical and communication skills, technological competency and literacy, ethical responsibility, global perspectives, and professionalism. Students are taught to collaborate across disciplines and functions to create knowledge and apply integrative solutions to complex problems.

Academic programs and services are offered in a highly personalized learning environment featuring small classes and ready access to faculty, reflecting the University's commitment to excellence in teaching, as well as support for scholarship and professional development. The School is committed to making available to both undergraduate and graduate students various opportunities for experiential learning, such as internships, study abroad, and project-oriented coursework.

Our contemporary curriculum helps students become critical thinkers and well-rounded professionals.

Business Core

The center of business education at Philadelphia University is the business core. Within the core courses, two objectives are pursued. First, core coursework provides an understanding of the functional areas of business such as accounting, economics, management, and finance. Second, the core

courses are used to impart a set of skills that are critical to professional success. Specifically, these courses are designed to develop a student's skills in communications, computer technology, quantitative/analytical analysis, professionalism, global perspectives and business ethics. The required core courses within the business curriculum (39 credit hours) are as follows:

ACCT-101	Financial Accounting
ACCT-102	Managerial Accounting
BLAW-301	Business Law I
ECON-205	Macroeconomics
ECON-206	Microeconomics
FINC-301	Financial Management
INFO-101	Introduction to Information Systems
MGMT-301	Principles of Management
MGMT-401	Operations Management
MGMT-490	Business Policy and Strategy (Fashion Merchandising majors substitute MGMT-491)
MKTG-102	Principles of Marketing
STAT-201	Statistics I
STAT-202	Statistics II

Minors Within Business for Business Majors

Business majors may choose to minor in any of the business areas. Certain majors require that the student minor in one of the other functional areas. For other majors, the election of a minor is left to the discretion of the student. More information can be found in "Minors."

Business Minor for Non-Business Majors

Since the focus of Philadelphia University is on professional education, many graduates, whether architects, textile engineers or biologists, find themselves working in business organizations. Many of these students are interested in developing a firm foundation in business. Such a foundation gives students additional useful and marketable skills upon graduation. The business minor for non-business students is designed to provide a foundation in a broad range of business subjects. Additionally, since all of the courses in the minor are required foundation courses for the M.B.A. program, students completing the minor will be able to waive some pre-M.B.A. coursework. The business minor includes a total of 12 credit hours of study in business selected from the following courses:

Required (6 to 9 credit hours):

ACCT-101	Financial Accounting
ECON-205	Macroeconomics and/or
ECON-206	Microeconomics

Choose additional courses to total 12 credits hours from:

BLAW-301	Business Law I
ACCT-102	Managerial Accounting (prerequisite ACCT-101)
FINC-301	Financial Management (prerequisites ACCT-101, and STAT-201 or MATH-321)

Joint Bachelor's/Master's Program

The School of Business Administration offers Master of Business Administration (M.B.A.) and Master of Science in Taxation (M.S. Taxation) programs. Undergraduates who qualify may apply to enter one of the joint-degree programs that allow students to earn both a bachelor's and master's degree. This is done by permitting students to take some graduate-level courses in their fourth year of undergraduate study that also count toward graduate program requirements. For more information about entrance requirements and program specifications, students should seek the assistance of their advisor.

Accounting

Accountants are skilled professionals who develop and examine the financial reporting and control systems used by business organizations, agencies and individuals to keep track of money, goods and services. A Bachelor of Science in Accounting can lead to careers in public, private or government accounting; as well as banking, finance and other management specialties.

Industry sources agree that the future of the accounting profession is bright. Today's accountants are more technologically sophisticated. In addition, government regulations, the dynamics of the economy, public demands for improved government performance and global business competition all increase the need for liberally educated accountants.

A sequence of business and general education courses prepares accounting graduates for all facets of the business world. Electives in specialties within the profession, such as tax accounting, are offered. Many students obtain C.P.A. (Certified Public Accountant) accreditation after graduation. Accounting majors may also pursue joint-degree programs (B.S./M.B.A. or B.S./M.S. Taxation).

The Accounting check sheet can be found on page 79.

Fashion Merchandising

The Bachelor of Science in Fashion Merchandising prepares students for many exciting careers in the fashion industry. Advancements in technology and globalization of the marketplace make this industry an ever-changing, challenging place to work. These changes, and the fast pace of fashion, require bright, talented and highly motivated people to ensure the success of its businesses.

Students studying Fashion Merchandising take courses in marketing, management, economics, business law and accounting. Students also take courses related to the fashion process from creation of fabrics, through the production of apparel, to the marketing and selling of fashion to the consumer. Fashion Merchandising students have the opportunity to study abroad. They also have the opportunity to gain fashion-industry work experience through participation in the Internship Program. The Fashion Merchandising program develops and reinforces basic marketable skills like written and verbal communication, technology and information literacy, ethical discernment and professional etiquette.

Beginning with the first year, students have the opportunity to participate in professional networking opportunities such as industry forums and trips. These experiences are geared toward helping students learn about the various career opportunities available to them upon graduation.

Graduates of the Fashion Merchandising program pursue careers in areas including retail buying, product development, store management and public relations.

The Fashion Merchandising check sheet can be found on page 81.

Finance

The importance of the finance function is reflected in the fact that the majority of chief executive officers (CEOs) in the top 1,000 U.S. companies started their careers in finance.

The Bachelor of Science in Finance includes three interrelated areas of finance needed for success: money and capital markets, investments and financial management. Globalization of business was undoubtedly the most important development of the 90s and it has continued into the 21st century. Therefore, throughout the finance curriculum there is emphasis/focus on global aspects of business and financial management. Students are encouraged to think, analyze and solve business problems in a global environment.

The 21st century will continue to see advances in computer and communications technology, and this technology will revolutionize the way financial decisions are made. Companies have networks of personal computers linked to one another, to other computer systems, and to their customers' and suppliers' computers around the world. The ability to access and analyze data on a real-time basis also means that quantitative analysis is used routinely to test out alternative courses of action. Keeping in mind that the next generation of financial managers will need stronger computer and quantitative skills, there is increased emphasis throughout the curriculum on developing and reinforcing computer, quantitative and analytical skills.

The Finance check sheet can be found on page 83.

Financial Information Systems

The field of finance is being driven by two major developments – technology and globalization. The Bachelor of Science in Financial Information Systems (FIS) will allow students to integrate information technology (IT) and financial information in the development of business information systems. The major is intended to provide financial services professionals with the knowledge they need to: Leverage the latest information technologies to support the use of financial information in management decision-making, external reporting, and integrate financial information and internal controls into cross-functional business information systems. This major will be offered by Accounting, Finance and Information Systems faculty members who have Financial Information Systems teaching skills and research interests.

The Financial Information Systems check sheet can be found on page 85.

International Business

To strengthen their competitive edge in a global economy, U.S. and foreign firms must attract managers who possess a strong functional background, area training and comprehensive international business skills. The Bachelor of Science in International Business at Philadelphia University is designed specifically to meet these industry needs.

This program enables students to combine an international business major with a traditional functional area such as accounting, finance, management or marketing.

The International Business major consists of seven highly integrated components:

- College Studies
- Foreign language
- Area studies
- Business core courses
- International Business
- Functional Business competence and
- Study or work abroad

The program is unique because it brings together these seven vital components, providing our graduates with the skills and the training expected in industry.

Graduates traditionally have a sense of adventure, are adaptive to new environments, and join global U.S. firms or foreign companies operating in the United States. Firms generally pay a substantial premium for graduates with the skills this program offers.

College Studies

Note: Six credits in language or area studies will partially satisfy foreign language and area studies requirements for the major (see below).

Below is a suggested distribution:

Language Studies I
Language Studies II
Language Studies III
Language Studies IV
Area Studies

Note: The Area Studies must be consistent with the foreign language studies chosen.

Business Core

International Business Major Concentration

MGMT-307 International Management
B244 International Marketing
FINC-318 International Finance and Development
ECON-401 International Economics

****Secondary Major (select one, four-course option)**

- Accounting
- ACCT-203, ACCT-204, ACCT-303 (required) and one additional courses from the following (#) ACCT-316, ACCT-309, ACCT-409, ACCT-412
- Finance
- FINC-322 or ECON-305, and FINC-303, and FINC-321 (required) and one course from the following (#) FINC-313, FINC-333, FINC-411, ECON-315

- Management
- MGMT-320, MGMT-412, MIS-202 (required) and one course from the following (#) MGMT-311, MGMT-326, MGMT-331, MGMT-381, MGMT-411, MGMT-416, MGMT-418, BUS-493, MIS-305, MIS-401, PSYCH-230, PSYCH-231
- Marketing
- MKTG-207, MKTG-310, MKTG-391 (required) and one course from the following (#) MKTG-115, MKTG-217, MKTG-315, MKTG-318, MKTG-328, MKTG-381, MKTG-412

 # Students may not use a major core course or Internship to satisfy these advanced electives

The International Business check sheet can be found on page 87.

Management

Management skills are essential for every individual in every organization — from the entry-level employee in a small start-up to the vice president of a large international conglomerate — or from the program director of a local nonprofit agency to the executive director of a federal government agency. In today's flatter, more team-centered organizations, both managers and non-managers share the responsibility for increasing productivity and achieving global competitiveness. They accomplish this through enhancing quality, increasing motivation, designing systems for worker-manager cooperation, promoting business ethics and planning for future growth.

The Bachelor of Science in Management equips students with the skills necessary to be valuable contributors in today's complex and demanding organizations. Their understanding of topics including total-quality management, management information systems, human resources management, international management and organizational communication allows them to use technology and state-of-the-art approaches to problem solving and decision making. Management majors can help organizations of all sizes and types become more productive and competitive in a variety of different ways, including helping individuals and departments to work together in teams, helping manage linkages in the organizational supply chain, helping manage information flows, and helping address issues such as recruiting, hiring, and diversity.

Management majors must specialize in another business area through a double major or the minor program. In that way, students broaden their expertise by combining management courses with other career areas, such as accounting, finance, fashion industry management, marketing, management information systems, international business or psychology.

Philadelphia University graduates are using management skills in a wide variety of settings: in small, mid-size and large organizations; and in areas including retailing, banking and finance, insurance, global manufacturing and service firms, and public agencies.

The Management check sheet can be found on page 89.

Management Information Systems

The Management Information Systems (MIS) major presents an introduction to technological skills associated with information management in business enterprises. It offers business and management skills that are extremely important for coordinating functional areas of business with the enterprise Information Technology (IT). The MIS major provides a powerful combination of skills, especially when coupled with a double-major or minor in another business functional area.

The Management Information Systems check sheet can be found on page 91.

Marketing

Marketing is the cornerstone of all successful organizations. Businesses and non-profit organizations alike must identify the domestic and international demand for goods and services, and then tailor a marketing mix to meet the needs of consumers. A successful marketing executive meets this challenge by drawing on a broad knowledge of economics, finance, management, social sciences, computer skills and other disciplines that provide an understanding of consumer behavior.

Through the Bachelor of Science in Marketing, students develop skills to analyze demand and market segments, design marketing and advertising budgets and campaigns, and formulate a comprehensive marketing plan. Students will develop a conceptual understanding of the complex and changing environmental factors that affect the marketing decision-making process. At Philadelphia University, students can take a general approach to marketing, or specialize in such areas as retailing, fashion merchandising or international business.

Graduates of the Marketing program are employed in sales, new-product development, market research, advertising, public relations and sales management.

The Marketing check sheet can be found on page 93.

Joint B.S. Business/M.B.A. Program

The School of Business Administration offers a joint Bachelor of Science in Business and Master of Business Administration (B.S./M.B.A.) program to qualifying students majoring in Accounting, Fashion Merchandising, Finance, Financial Information Systems, International Business, Management Information Systems or Marketing. Two graduate courses are taken in the fourth year of undergraduate study that count toward both the B.S. and the M.B.A. degrees. This program may also be pursued by other business majors, but these other majors do not have the capacity for as many M.B.A. courses in the fourth year of study. A similar joint B.S./M.S. in Taxation program is available.

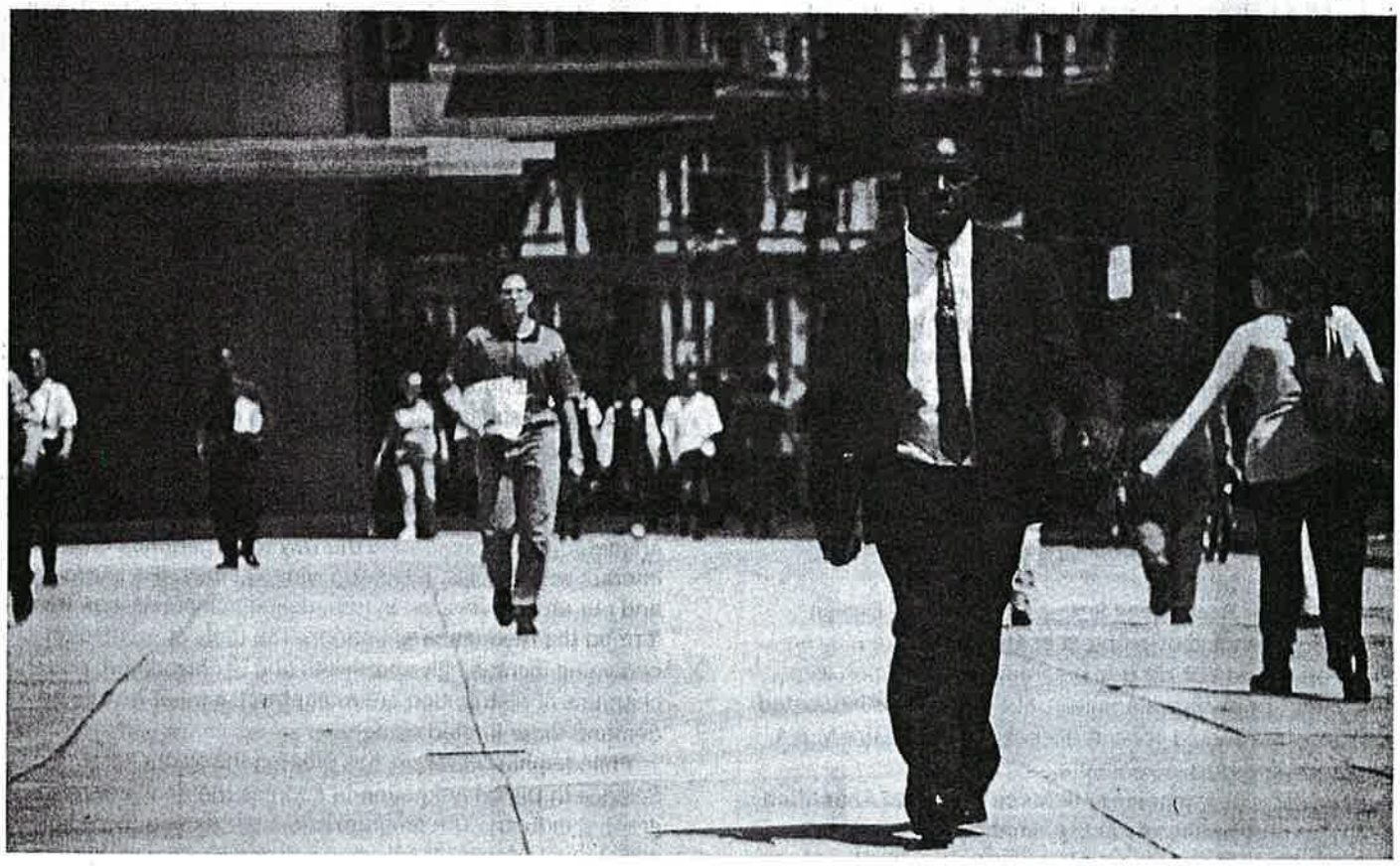
The joint program provides a valuable option to students who might wish to further strengthen their business competencies, credentials, and marketability. Students may plan to follow this program as early as the freshman year and no later than the start of the senior year. Application should be

made through Philadelphia University's Graduate Admissions Office after consultation with the M.B.A. Director.

Transfer students may also apply. Currently enrolled students will be considered for admission if they have maintained a 3.0 grade point average. The Graduate Management Admission Test® (GMAT®) is required for full acceptance to the program and must be taken before the end of the senior year.

Non-business majors interested in the Joint B.S./ M.B.A. Program should obtain a copy of the "Pre-M.B.A. Requirements for Non-Business Majors: Planning Guide." The planning guide should be used in combination with the University catalog and the check sheet for the student's undergraduate major. The guide describes the requirements for admission and the application process, as well as the Pre-M.B.A. course requirements. Planning guides are available from upper-level advisors, as well as the Graduate Business Programs Office in Tuttleman 104.

The Joint B.S. Business/M.B.A. Program check sheet can be found on page 95.



School of Design and Media

Interim Dean: G. Cromarty

Director, Graphic Design Communication Program: D. Kuronen

Director, Industrial Design Program: G.W. Unger

Interim Director, M.S., Digital Design: S. Finch

Interim Director, M.S., Instructional Design and Technology: L. Russeau

Faculty: F. Baseman, G. Beatty, J. Carnell, T. Corlett, S. Finch, M. Kradel-Weitzel, D. Kuronen, M. Leonard , J. Owen, G.W. Unger

Designers track changes in science, technology and in society. Through their work, they express the meaning of these changes and they maximize the opportunities these changes bring to our lives. In the process of interpreting change for the benefit of people, designers are shaping contemporary culture.

As change continues to accelerate, so does the designers' influence and value to clients and employers. Designers are coveted collaborators because of their ability to create synergy between the objectives of many other professions.

The School of Design and Media offers a unique environment for students to explore the relationships between the design disciplines. The School stresses in-depth exploration of the individual design disciplines and carries out interdisciplinary collaborations that frequently involve real clients. Design is studied, building on a foundation in the liberal arts and sciences. Through the curricular integration of the design, engineering and commerce disciplines, our students develop an unparalleled understanding of the professional dynamics that exist between these fields.

Our graduates are multi-dimensional young professionals with a broad based skill set and solid critical thinking abilities. The faculty of practicing professionals, state-of-the-art facilities, study abroad opportunities and our collaborative approach to learning all contribute to creating a unique, nurturing, exciting and creative environment within our school. Students interested in becoming designers can choose from four professionally related degree programs:

- Four-Year Bachelor of Science in Digital Animation
- Four-Year Bachelor of Science in Digital Design
- Four-Year Bachelor of Science in Graphic Design Communication
- Four-Year Bachelor of Science in Industrial Design

Students should also note that all four majors may be taken as a joint B.S./M.B.A. program in conjunction with the School of Business Administration. Students interested in this option should consult the section on the Pre-M.B.A. Minor for Non-Business majors.

The four-year **Bachelor of Science in Digital Animation** prepares students to produce animation for broadcast, feature films simulations and interactive venues such as the web, video games and museum exhibits. Students combine their foundation in design with deeper studies of motion and timing, 2D and 3D techniques, storytelling, the history of the medium, and contemporary practices and practitioners. A project-based curriculum gives students experience with real-world scenarios while building a comprehensive portfolio. Whenever possible, students are encouraged and equipped to engage the broader community of professional animators.

The four-year **Bachelor of Science in Digital Design** features a strong emphasis on different modes of thinking and conceptualization as applied to the design and creation of electronic content. Interdisciplinary teaching and learning forms the backbone of this diverse and challenging degree program. Students are prepared to enter the job market with a unique set of technical skills and a sophisticated sense of multi-layered space as portrayed on a two-dimensional electronic screen.

The four-year **Bachelor of Science in Graphic Design Communication** prepares designers to work in the rapidly changing profession of graphic design. This program combines a strong design core with business awareness in addressing current issues of visual communication. Opportunities for concentration in marketing or specialized areas of design are offered in the context of a professionally focused academic environment.

The four-year **Bachelor of Science in Industrial Design** equips students to create attractive, meaningful and practical new products that serve the needs of people and those of industry. The program prepares students to respond creatively to the challenges of fast-changing cultures and global manufacturing. The strengths of the program are derived from its interdisciplinary curricular structure and faculty from many design specialties. Insights and unique collaborative project opportunities offer themselves to design students on a campus that hosts programs in related professions. Studio life is characterized by the simulation of work dynamics in design consultant studios and in corporate design departments.

Digital Animation

Animation has transformed the way we experience and interact with movies, television, video games, the internet and our mobile devices. In turn, digital technology has transformed the medium of animation. The tools of production are becoming increasingly accessible and sophisticated, and the channels of distribution are multiplying to meet a swelling demand for animated content.

Philadelphia University has created the Bachelor of Science in Digital Animation to address the needs of this growing industry. The program offers students a thorough

understanding of the fundamentals while introducing them to cutting-edge tools and techniques. Successful graduates of the program will be equipped to take leading creative roles in the industry.

First-year students are quickly immersed in the Philadelphia University design community, taking foundation classes with graphic designers, digital designers, fashion designers and architects. In their second year, students begin their studies in animation with introductory courses in animation production and storytelling. They also continue to improve their design and communication skills with advanced foundation classes covering typography, hierarchy, and image-making.

One focus for third-year students is basic 3D filmmaking. Using industry standard software, students learn to design, model and animate compelling 3D characters and environments. They also use 3D imagery as an element in their study of motion graphics, combining them with type, video and 2D imagery to create uniquely designed visual narratives. Both areas of study are infused with a thorough understanding of the principles of animation design and regular screenings of historic and contemporary examples.

Several electives allow students to focus on an area of particular interest, including animation history, compositing and animation for gaming and interactivity. Additionally, students are encouraged to supplement their education by taking advantage of available internships, design job fairs, study abroad opportunities and memberships in professional organizations.

Students in their final year continue in their advanced 3D and 2D studies as they plan and implement a short film. This film, which encompasses every phase of production, serves as the capstone to their animation education. At the end of the year, students publicly exhibit their film alongside the work of their fellow design colleagues.

The Bachelor of Science in Digital Animation combines a relevant education for this evolving medium with additional studies that integrate this learning into other aspects of contemporary culture and the needs of the modern marketplace.

The Digital Animation check sheet can be found on page 97.

Digital Design

The Bachelor of Science in Digital Design prepares students to work in the rapidly developing field of digital design. Digital technology is changing the way designers visualize, conceptualize and express their ideas. To succeed in the workforce, professionals will require a diverse combination of skills, including the understanding of basic design principles, the ability to harness the latest digital technologies and techniques, and experience in working in an interdisciplinary environment.

The curriculum in digital design features a foundation based on establishing the visual language and conceptual skills common to all art and design fields. In advanced courses, students develop the ability to visualize and produce work for more complex information environments. They explore aspects of time-based, interactive design, web-based media and the creation of 3D virtual spaces. Additional emphasis can be placed on motion graphics or animation techniques, including principles of effective character development and how to structure a narrative.

A particular strength of the program lies in its integration with the University's courses in business and the liberal arts. Students study basic business practices and how characteristics of the new technologies relate to various aspects of the networked economy.

In the first two years of study, digital design students concentrate on developing basic skills necessary for visual literacy in the modern communication landscape. Basic design, expertise in typography, skill in electronic imaging, and the principles of hierarchy in communication are all addressed.

The final four semesters include a combination of required studios designed to develop the ability to complete complex projects, with consideration of social and economic factors as they apply to communication strategies. Elective courses allow study in areas of particular interest or the opportunity to explore specific digital skills or software more extensively.

Students are encouraged to participate in our active internship program and also to experience the richness that comes with one of our many study abroad opportunities. In the final semester, digital design students are required to complete a culmination capstone course where they partner with an outside "client" to plan and produce a major project. Many of these projects have been accepted for use in actual commercial or educational enterprises.

Graduating students are required to demonstrate expertise in software manipulation, an understanding of the social implications of the emerging technologies, and an ability to produce aesthetically pleasing products that can inform and delight while serving the needs of a variety of commercial environments.

The Digital Design check sheet can be found on page 99.

Graphic Design Communication

The Bachelor of Science in Graphic Design Communication prepares designers to work in the rapidly changing and increasingly global profession of graphic design. By combining a strong design core and a vigorous College Studies program with a business awareness segment, this program addresses the issues of visual communications, cultural understanding and today's market-driven economy.

First-year design courses stress the visual language and conceptual exploration common to all art and design fields as the essential foundation for more advanced work in graphic design. The next three semesters continue this exploration by using the computer as a design and production tool combined with more traditional methods. Students develop a visual vocabulary of typography, symbols and cultural imagery while studying the ethical, historical and business side of this exciting profession.

The final three semesters require students to concentrate on utilizing their skills in research, design development and execution in solving "real-life" assignments in preparation for

the culmination project in Graphic Design Communication. The final capstone course prepares students to enter the professional world.

By the beginning of the third year, students choose to concentrate in either Design electives or Business/Marketing electives. This allows them to strengthen their design skills with studio electives or to enhance them with business/marketing electives to prepare them to work closely with professionals in that area.

The Business/Marketing electives are located in the Business School. The Design electives can be chosen from several of the other design disciplines on campus. Students should plan these choices with the assistance of their academic advisors.

The Graphic Design Communication check sheet can be found on page 101.

Industrial Design

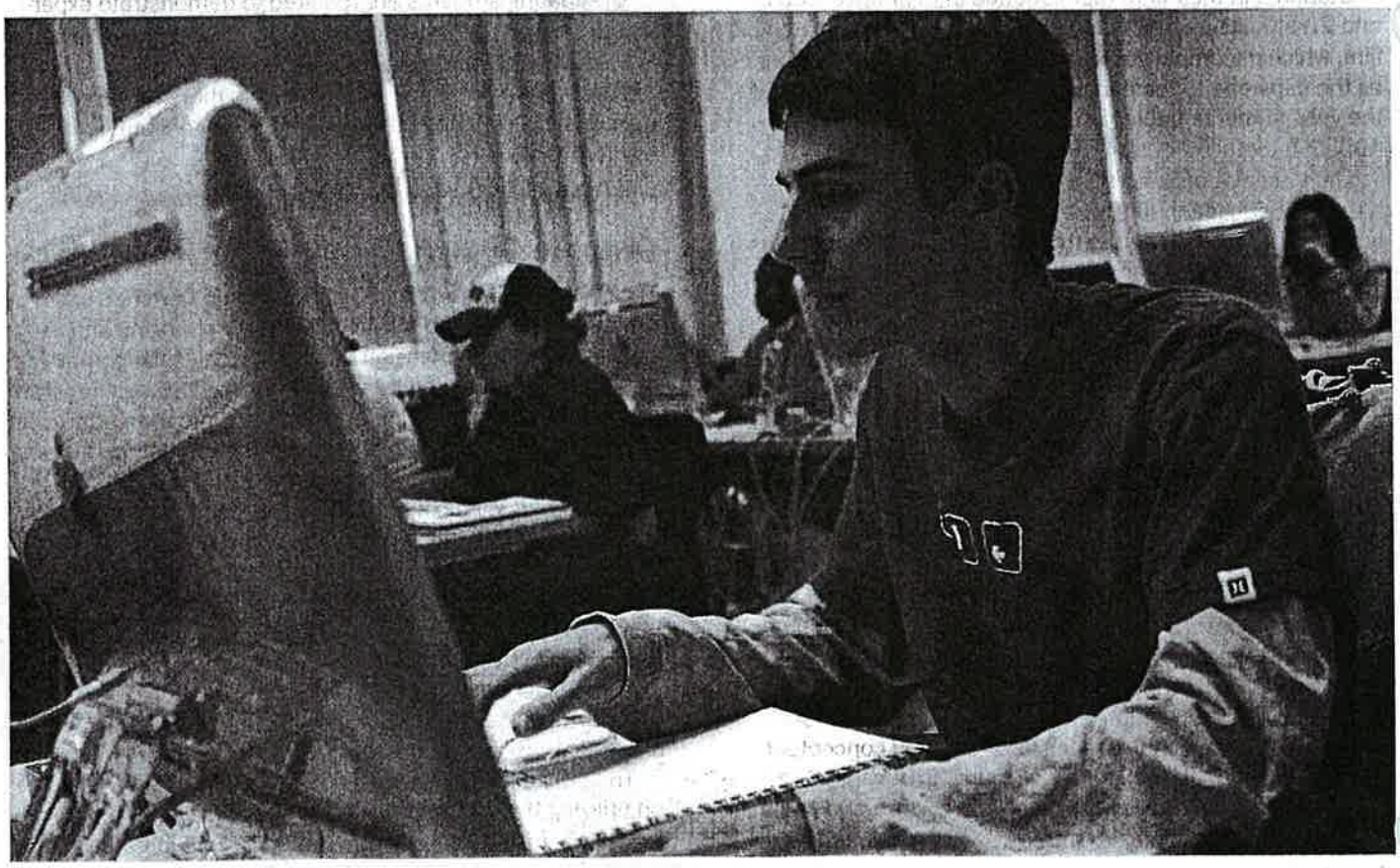
Industrial designers conceive and develop ideas for products and systems that are useful, desirable and meaningful. Good design generates business; therefore, design services are in demand with product manufacturers and other clients. During the design process the designer synthesizes marketing, aesthetics, engineering, safety, manufacturing and environmental issues to the mutual benefit of the client and the user. To this end, the industrial designer works with interdisciplinary development teams, in which it is the designer's specific concern to give shape to the quality and culture of a person's interaction with products.

The curriculum places strong emphasis on critical thinking. Knowledge of ergonomics, of basic materials, communication skills, computer skills and the technology of production is taught, as it is essential knowledge to the practicing design professional. The interdisciplinary structure of the Industrial Design program exposes students to ideas and methods in other design majors. Other departments on campus act as project clients or design-team resources to simulate the reality students will encounter in their careers. Frequently projects are carried out in collaboration with industry clients in the same manner that this would be done by design professionals.

In their junior year, students enter a design-studio environment in which they can witness the various design tools, design processes and their outcomes. Beyond the achievement of fundamental design competencies, students are encouraged to define the profession as it relates to them and to choose those design tools and processes that best realize their interests and potential.

The Industrial Design program is accredited by the National Association of Schools of Art and Design (NASAD). NASAD was established in 1944 to improve the educational practices and maintain high professional standards in art and design education.

The Industrial Design check sheet can be found on page 103.



School of Engineering and Textiles

Dean: D.S. Brookstein

Assistant Dean: M.A. Sunderland

Assistant Dean: M.S. Oravetz

Director, M.S., Ph.D. Programs, Textiles: B. George

Director, Grundy Testing Laboratory: H.J. Barndt

Director, Fashion Design Program: C. Prezio-Henry

Program Coordinators:

Engineering Programs: F. Tovia (ISE), M. Govindaraj (ME), C. Pastore (AE)
Fashion Industry Management: J.A. Rosenau
Foundation Drawing and Design: S. Fineman
Textile Design: M. Weiss
Textile Engineering Technology: H.J. Barndt

Faculty: H.J. Barndt, C. Beevers, J.L. Brady, D.S. Brookstein, S. Fineman, C. Frank, B. George, M. Govindaraj, A. Hand, E.J. Herczyk, S. Hirsch, N.J. Howard, J.Y. Likens, M.S. Oravetz, C.M. Pastore, C. Prezio Henry, V. Nandikolla, N. Rao, M. Roberts, J.A. Rosenau, M.A. Sunderand, F. Tovia, H. Ujiie, N. Weathers, M. Weiss, M. Wilson, N. Wyatt

From engineering to fashion and textile design to fashion industry management, Philadelphia University's School of Engineering and Textiles has been a national and international leader in educating professionals for a wide range of industries since our founding in 1884. Originally focused on the textile and apparel industry, the scope now includes a wide range of engineering disciplines. Our cutting-edge B.S. in Engineering program has specialty study opportunities in architectural, mechanical, industrial and textile engineering. Industrial and Systems Engineering provides the specific knowledge associated with modern industrial and systems engineering practice through exposure to principles, tools and methods utilized in manufacturing systems, operations research, engineering statistics, information systems, human factors and methods analysis. Mechanical Engineering is one of the largest, broadest and oldest engineering disciplines. Mechanical engineers use the principles of energy, materials and mechanics to design and manufacture machines and devices of all types. They create the processes and systems that drive technology and industry. Architectural Engineering applies principles to the construction, planning, and design of buildings and other structures. They often work with other engineers and with architects, who focus on function layout or aesthetics of building projects

Students who choose either Fashion Design or Textile Design study with world-class faculty in state-of-the-art studios and laboratories. Fashion Industry Management students prepare themselves to be leaders in the global apparel industry. The recently modified B.S. in Textile Engineering Technology provides an extensive education in all of the technology and management aspects of the global textile industry.

The School of Engineering and Textiles Bachelor of Science degree programs are:

- Architectural Engineering
- Industrial and Systems Engineering
- Mechanical Engineering
- Textile Engineering Technology
- Engineering**
- Fashion Design
- Fashion Industry Management
- Textile Design
- Joint B.S. Fashion Industry Management/M.S. Fashion Apparel Studies
  Joint B.S./M.S. Textile Design
- Joint B.S. Textile Engineering Technology/M.B.A.

*** With minor concentrations in either architectural, industrial, mechanical or textile engineering.*

Retention of Student Work

Projects completed by students in studio, laboratory or engineering courses may be selected to become part of the University's collection for purposes of exhibition review or accreditation. Student work not selected for that purpose will ordinarily be stored for only 30 days into the following semester.

Engineering

The mission of the B.S. in Engineering program is to develop in students the necessary knowledge and analytical skills for professional engineering practice or successful graduate studies. Our offerings include traditional discipline specific fields of study including architectural engineering, industrial and systems engineering and mechanical engineering. In addition a more general field of engineering study is offered. General engineering allows in depth minor field: mechanical engineering, architectural engineering, industrial and systems engineering or textile engineering. Students choose a minor engineering track in their sophomore year. This engineering major provides for flexibility to address the unknown technical challenges that will confront society.

Engineers apply the principles of mathematics and the laws of natural science to analyze, design, develop and devise improvements that benefit humanity. The engineering program consists of a course of study in mathematics, science, liberal arts, business and engineering during the four years of undergraduate study. Students will have the flexibility to choose their specific engineering program after their first year of study. The B.S. in Engineering program at Philadelphia University incorporates all of the contemporary thinking related to engineering education that has been studied in the National Academy of Engineering publication "The Engineer of 2020 – Visions of Engineering in the New Century."

All engineering programs at Philadelphia University have a common first two semesters enabling the student to make a choice of concentration in their sophomore year.

The Engineering check sheet can be found on page 105.

Architectural Engineering

Architectural engineers apply engineering principles to the construction, planning and design of buildings and other structures. They often work with other engineers and with architects who focus on functional layout or aesthetics of building projects. Architectural Engineering (AE) often encompasses elements of other engineering disciplines, including materials, mechanical, electrical, fire protection and others. Architectural engineers are responsible for the different systems within a building, structure or complex.

Architectural engineering students from Philadelphia University will be able to apply the principles of mathematics and the laws of natural science to analyze, design, develop and devise improvements that benefit humanity. The curriculum is designed to achieve a balance between science, engineering and the liberal arts to provide an understanding of the economic and social implications of engineering activity and to develop creative talents. Our program emphasizes the key components of structures and construction/construction management aspects of the field with an emphasis on the role of sustainable design throughout the program.

The Architectural Engineering check sheet can be found on page 107.

Industrial and Systems Engineering

Industrial and systems engineering (ISE) is about choices. Other engineering disciplines apply skills to very specific areas. ISE provides the opportunity to work in a variety of businesses. The most distinctive aspect of industrial and systems engineering is the flexibility that it offers.

As companies adopt management philosophies of continuous productivity and quality improvement to survive in the increasingly competitive world market, the need for industrial and systems engineers is growing. Industrial and systems engineers are the only engineering professionals trained as productivity and quality improvement specialists.

Industrial and systems engineers discover how to do things better. They engineer processes and systems that improve quality and productivity. They work to eliminate waste of time, money, materials, energy and other commodities.

Industrial and systems engineer" is synonymous with systems integrator—a big-picture thinker. It is a professional who takes what exists today and conceptualizes what should exist in the future. ISEs spend most of their time in the real operating environment, devising scientific approaches to real world problems and implementing solutions. .

"Industrial" does not refer to just manufacturing. Industrial engineers have the technical training to make improvements in a manufacturing setting. It is becoming increasingly recognized that these same techniques can be used to evaluate and improve productivity and quality in service, transportation and health care industries.

The Industrial and Systems Engineering check sheet can be found on page 109.

Mechanical Engineering (ME)

Mechanical engineering plays a dominant role in enhancing safety, economic vitality, enjoyment and overall quality of life throughout the world. Mechanical engineers are concerned with the principles of force, energy and motion. The men and women who work as mechanical engineers are professionals with expert knowledge of the design and manufacture of mechanical systems and thermal devices and processes. Some examples of products and processes developed by mechanical engineers include engines and control systems for automobiles and aircraft, electric power generation plants, life-saving medical devices and consumer products ranging from air conditioners to personal computers and athletic equipment. They also design the machines that mass-produce these products. Virtually every aspect of life is touched by mechanical engineering. If something moves or uses energy, a mechanical engineer was probably involved in its design.

The Mechanical Engineering (ME) check sheet can be found on page 111.

Fashion Design

The world of fashion is fast-paced, energetic, creative and exciting. Innovative designers who know the potential of the materials they use in the contemporary marketplace have a dynamic impact on the retail industry.

The Bachelor of Science in Fashion Design includes art and design foundation courses, specialized fashion courses and studies in merchandising management, giving students a strong foundation in both design and business.

Future designers begin at the University with traditional studies of line and form. Our proven curriculum in apparel management and production includes hands-on experience with the latest computerized design and production equipment. In addition, our unique understanding of textile materials makes this program one of the best in the country.

Fashion Design students have an opportunity to add an international dimension to their education by participating in the Study Abroad Program during their third year of study. Students studying overseas gain a cross-cultural experience while broadening their design skills, enabling them to strengthen their competitive edge in the global marketplace. Students can also choose to participate in the Internship Program designed to enrich their education while gaining work experience.

Fashion Design graduates may begin as fashion design assistants, working under the supervision of a designer; or work as a fashion adapter, altering trend-setting designs to fit the need of the average customer. Some designers start their own firms, working with production houses and retailers to produce and distribute under their own label.

The Fashion Design check sheet can be found on page 113.

Fashion Industry Management

The billion-dollar fashion and apparel industry needs bright, talented executives to guide the rapid pace of today's technological revolution. Skilled managers are required to deal with an increasingly complex variety of products and manufacturing techniques and tasks, such as planning product lines months before they will appear in the stores. Once developed, new products must be sourced globally and then delivered to the consumer within a very short period of time.

The Bachelor of Science in Fashion Industry Management is uniquely designed to educate this type of executive. The curriculum combines the fundamentals of business, including accounting, economics, marketing, finance and management, with textile and apparel courses. Students learn the process of apparel design and manufacture from fiber to final apparel product, and become familiar with the application of computers in information retrieval, integrated apparel manufacture and design. Graduates earn the respect of employers who are familiar with the University's expertise in fashion industry management. The program is one of a select few endorsed by the American Apparel and Footwear Association. Students have the opportunity to earn a B.S. and M.S. degree in five years.

The Fashion Industry Management check sheet can be found on page 115.

Textile Design

With expanding international markets, the billion-dollar textile industry cuts across a multiplicity of products and commerce–fashion, home furnishings, medical, performance, retail, technical. This provides a world of opportunity for talented textile designers. Our program puts you on the fast track to an exciting career in this field. Textile majors range from those that are design and trend oriented, to those focused on textile science, engineering, and product development; enabling specialization in the area most suited to individual interests and strengths.

- Each year, our students win awards in prestigious, international design competitions sponsored by textile associations and industry corporations.
- Textile designers begin their education in the studio to develop a sense of color, light, shape, texture and form. Next, they explore properties of fibers, yarns and dyes, and study the ways that fabrics are constructed. Advanced courses allow students to concentrate in a breadth of fabrication technology, including woven, knit, and printed textiles.

The University invites designers, artists, industry leaders, and experts onto campus. These weekly presentations create an opportunity for students to interact with and explore the range of career possibilities in the textile design field. Additionally, frequent field trips provide exposure to design studios, textile manufacturing facilities and product development firms.

The Textile Design check sheet can be found on page 117.

Textile Engineering Technology

The Bachelor of Science in Textile Engineering Technology prepares students to work in a global industry that includes fiber-engineered products for medical, geotextiles, architectural, fiber-reinforced composites and traditional apparel and home-furnishing applications. Problem solving using the understanding of textile product and process and an understanding of the global textile/apparel business (including sourcing) are the foundation of this program. Career paths for graduates will be enhanced by selecting a concentration option from the following:

- Product Development – national /international
- Quality Assurance and Assessment
- Textile Manufacturing Management
- (Pre) Masters in Business Administration

Another dimension of the program will be to educate and graduate fully integrated individuals who possess the technical and social competence and confidence to succeed in professional practice and advanced education, be lifelong learners and exercise responsible citizenship.

The Textile Engineering Technology check sheet can be found on page 119.

Joint B.S. Textile Engineering Technology/M.B.A.

This joint B.S./M.B.A. five-year program has been developed to prepare graduates for senior managerial positions in the textile and related industries.

The Textile Engineering Technology baccalaureate program includes a core of textile courses along with business-related courses. The M.B.A. program continues the advanced study of business and management core courses and electives, which can be taken at the graduate level in business or textiles.

Official application to the program may be made only after completion of the sophomore year and no later than the start of the senior year. Application should be made through the Office of Graduate Admissions. Transfer students may also apply. Currently enrolled students will be considered for admission if they have maintained a 3.0 G.P.A. The GMAT is required for full acceptance to the program and must be taken before the end of the senior year.

Full scheduling details for the first to fourth years are found in the B.S. Textile Engineering Technology section.

The Joint B.S. Textile Engineering Technology/M.B.A. check sheet can be found on page 121.

Joint B.S./M.S. Textile Design

The School of Engineering and Textiles offers a five-year Bachelor of Science/Master of Science (B.S./M.S.) program to qualifying students majoring in textile design. Students follow the B.S. Textile Design program for the first three years. Graduate courses taken in the fourth year of undergraduate study are applied toward both the B.S. and M.S. degrees. The fifth year includes a summer session in addition to the fall and spring semesters.

The five-year program offers an opportunity for students wishing to further their design education through a year of graduate-level work. They are given the opportunity to work on design development on a more concentrated basis, and therefore extend their design skills and portfolio work (within their chosen undergraduate specialization) to a level not attainable through the undergraduate program.

Application should be made through the Graduate Admissions Office during the junior year. Currently enrolled students will be considered for admission if they have maintained a 3.0 GPA. The GRE is required for full acceptance to the program and must be taken before the end of the senior year.

The Joint B.S./M.S. Textile Design check sheet can be found on page 123.



School of Liberal Arts

Dean: M.W. Roydhouse
Associate Dean: T.G. Schrand
Faculty: S. Borton, D. Dadras, S.C. Dinero, V.L. Hanson, K.W. Jones, B.A. Kimmelman, R.L. Kleinbach, R. Koulish,, M.L. McCoy, G.C. Pierce, D. Pfeuffer-Scherer, R. Shain, N. Sorkin, P. Tiemeyer, M. Tulante, K. Turner, S. Van Dahm

Study in the liberal arts and sciences builds the ability to be an integrative thinker: a person who can see and create connections between different bodies of knowledge and across disciplinary boundaries. Through exposure to complex, real-world issues in history, the humanities and the social sciences, our students become graduates who are well-read, well-spoken, worldly, flexible, and adaptable – individuals who never stop learning and making meaningful connections in everything they do.

In keeping with the University's mission, the School of Liberal Arts commits itself to offering liberal arts majors that have a clear professional and career focus. Each academic program prepares students to begin dynamic careers right after graduation. These majors also provide a broad liberal arts education that sets a foundation for graduate study and lifelong learning. The School of Liberal Arts offers innovative and interdisciplinary academic programs in the following areas:

- Environmental Sustainability
- Law and Society
- Professional Communication

The School of Liberal Arts also bears primary responsibility for the University's College Studies program, the general education common curriculum at Philadelphia University. A strong grounding in the liberal arts and sciences as part of this program allows students to explore and analyze the world in which they live and work. Within the College Studies program and within its majors, the School of Liberal Arts promotes a rigorous approach to student learning. The core principles of our educational mission include a commitment to active forms of student learning, to information literacy, to integrative learning, to the development of strong communication, research and critical thinking skills, and to global perspectives in all areas of learning.

Environmental Sustainability

Sustainability involves balancing the needs of human societies with the health of the ecosystems that surround and support them. It also challenges us to behave ethically across generations: how can today's societies meet their needs without compromising the ability of future generations to meet theirs? This challenge is growing sharper every day as rapid population and economic growth produce a number of related concerns: climate change, dwindling oil supplies, extreme weather events, shrinking water supplies and the accelerating resource requirements of developing nations like India and China. This combination of issues calls for a new category of experts who can develop and implement the strategies for sustainability.

Designing a sustainable operation, whether at the local, national or global level, requires a comprehensive approach that accounts for the political, cultural, scientific, economic and technological context of the relationship between humans and their ecosystems. Sustainability professionals need to be able to think across these different areas and communicate with a variety of experts and audiences in their own "languages."

The Bachelor of Science in Environmental Sustainability equips students with the skills and vocabularies to bridge the multiple disciplines—architecture, design, business, engineering, and policymaking—necessary to produce environmentally sustainable operations for communities, businesses, and organizations. Philadelphia University offers the only environmental program in the region with training across these different professional fields, an approach that builds upon the University's strengths and that produces creative problem-solvers with the skills necessary to build the sustainable societies of the future.

With the increasing global attention to environmental issues, the demand for sustainability experts will continue to rise. Environmental sustainability professionals can expect to build careers in local, state, and federal environmental agencies, utility companies, non-profit environmental organizations, wildlife and conservation agencies, environmental consulting and auditing firms, "green" contracting and construction management companies, and educational programs in schools, museums, and parks. In addition, the study of environmental sustainability develops scientific and social science skills that can be applied to graduate training in a variety of fields, including law, public policy, education, business and natural resource management. Internship opportunities and multiple elective courses allow students to gain professional experience before graduation and to customize their major according to their career objectives.

The Environmental Sustainability check sheet can be found on page 125.

Law and Society

The rule of law and concepts of social justice provide a foundation for life in modern society, and a framework for ethical action for professionals in all fields of work. Knowledge of the origins of American and international legal concepts and systems, and of the ongoing transformation of those systems, is of value in virtually every profession and for every global citizen.

The Law and Society major builds valuable critical thinking and writing skills through the examination of legal systems, courts, and conceptions of justice and human rights within

both the American and international contexts, and offers opportunities to explore literary, philosophical, ethical, and scientific approaches to legal issues. With a multi-disciplinary approach that draws deeply on the liberal arts and social sciences, the Law and Society program also reflects the University's traditional commitment to practical professional education.

Students earning a B.S. in Law and Society will be well prepared for careers in law, but are by no means limited to such careers. Today's employers seek graduates with critical thinking and communications skills and broad global awareness. The skills and information offered by the Law and Society program prepare its students for work in a broad range of professional areas. Public service, government, NGOs, international businesses, high-tech firms, and diplomatic service: these are only a few of the law-related fields affected by the rapidly changing legal environments worldwide.

All Law and Society majors also choose a minor from one of the many professional fields that the University offers, such as business, psychology, languages, and environmental sustainability. Opportunities for internships, study abroad and independent research allow students to examine the ways in which legal issues intersect with professional practice in a variety of site locations across many professional fields. Our Career Services professionals help position students for career opportunities after graduation and have an enviable job placement record.

The Law and Society major also opens many doors for students whose career plans include graduate study in fields such as law, business, medicine, public health, political science, sociology, and urban policy and planning. Students preparing specifically for careers as lawyers can take advantage of our professional advising program that supports them on their way to law school.

The Law and Society check sheet can be found on page 127.

Professional Communication

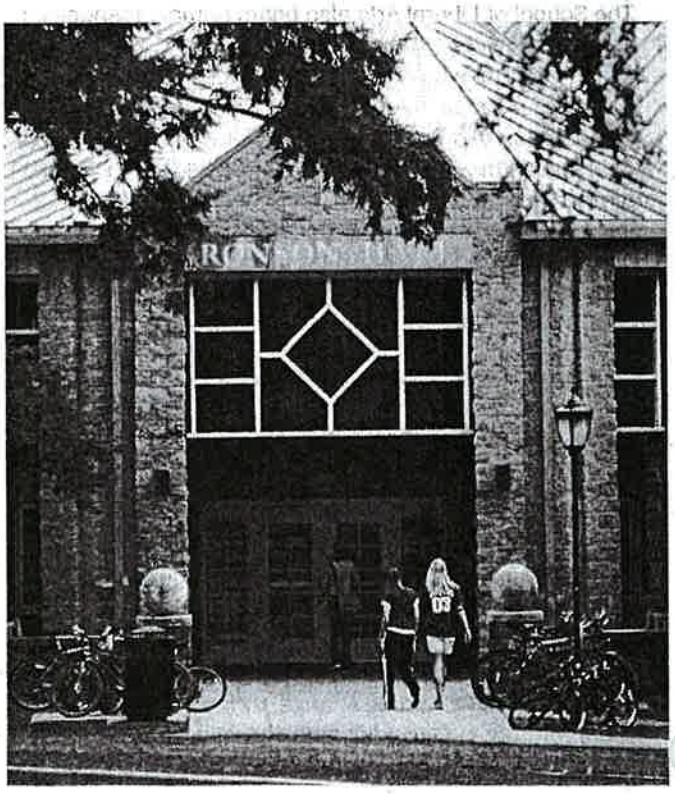
Professional Communication is a growing field dedicated to writing and presenting information using emerging technologies and new media. Students majoring in the Bachelor of Science in Professional Communication sharpen their abilities to integrate texts, images, sounds and motion while preparing for jobs as communication specialists in business, government and the non-profit sector. Studying the theory and practice of communication also enhances writing, researching and presenting skills that students can apply to graduate training in areas such as law, public affairs, education, journalism, and business administration.

The Professional Communication course sequence is dynamic and interdisciplinary. Students complete a wide range of individual and collaborative projects that examine how communication affects disciplines and professions in business, design, the sciences, and8 the health professions. The Professional Communication program includes a solid foundation in how human, consumer and organizational behavior relate to communication practices. Further, internship opportunities, job shadowing and multiple elective courses enable students to gain additional professional experience they can use while tailoring their major to meet specific career objectives.

Graduates of Professional Communication, depending on their areas of focus, will work as writers, public relations specialists, web site content developers, corporate communication representatives, bloggers, journalists and editors. Their work will involve responsibilities such as writing and editing for print and digital publications, using new media to create effective presentations and serving on interdisciplinary teams dedicated to client-based projects in professional and public arenas across the globe.

The program philosophy for Professional Communication honors innovation, rhetorical awareness and strategy, and ethical practice. The program is committed to preparing students for communication jobs in business, government and the non-profit sector, as well as for lives as continuous learners who are able to adapt to change.

The Professional Communication check sheet can be found on page 129.



School of Science and Health

Dean: M.D. Baker

Associate Dean: R. Wilson

Director, M.S., Physician Assistant Studies Program: M. Rackover

Director, M.S. and Certificate, Midwifery Program: K. Dawley

Director, M.S., Occupational Therapy Program: W. Krupnick

Director, M.S., Disaster Medicine and Management: J. Bail

Faculty: J. Ashley, A. Baker, M.D. Baker, J. Bail, C. Bock, A. Bower, L. Carey, J. Coale, D. Cundell, K. Dawley, E. Dowden, R. Emery, C. Farley, E. Goldman, R. Guedes, S. Haiman, C. Haynes, S. Humbert, I. Ionasçu, J. Koehler, W. Krupnick , M. Liff, D. Michaels, M. Milkevitch, D. Perlman, J. Pierce, M. Rackover, A. Richman , H. Rostami, J. Ward, F. Wilkinson, R. Wilson, H. Woodcock

The School of Science and Health encompasses the sciences, mathematics, psychology, and the health professions. Our mission is to prepare students for: professions in science and health, entrance into graduate and professional school and to assure that all students at Philadelphia University graduate with literacy in the scientific method and quantitative reasoning. The school emphasizes superb teaching, individualized attention, strong professional preparation and student participation in research.

The undergraduate programs offered in the School of Science and Health are:

- Biochemistry
- Biology
- Biopsychology
- Chemistry
- Environmental and Conservation Biology
- Health Sciences
- Joint B.S. Health Sciences/M.S. Physician Assistant Studies
- Pre-Medical Studies
- Psychology

The science programs include a core of mathematics and science consisting of Biology, Biochemistry, Calculus, Chemistry and Physics. The Chemistry and Biochemistry programs are accredited by the American Chemical Society (ACS). Biology and Psychology majors will discover exciting courses and electives that will be beneficial for industrial positions or graduate school acceptance. Student research in all science programs is encouraged.

The Physician Assistant Studies program was the first health care program to be offered in the School of Science and Health. This program is fully accredited. Health care programs require a strong science foundation. In addition, experiences in health care delivery settings are an integral part of the program and are crucial to education in the health care field.

College Studies Program

The School of Science and Health is jointly responsible, with the School of Liberal Arts, for the general education core of all students. Students learn the scientific method and quantitative reasoning as part of the College Studies program. Below are the science and quantitative requirements:

Science Group

All students will complete two science courses to enhance their understanding of the scientific method and its application. Most programs require completion of both courses by the end of sophomore year. Certain majors require specific courses and sequences. Students should take the sequence that best suits the requirements of their majors.

SCI-101	ENVIRONMENTAL SCIENCE
SCI-102	EXPLORING SCIENCE
BIOL-101	CURRENT TOPICS IN BIOLOGY
CHEM-101	GENERAL CHEMISTRY (Required for certain majors)
PHYS-101	GENERAL PHYSICS (Required for certain majors)
BIOL-103/103L	BIOLOGY I (Required for Science Majors only)
CHEM-103/ 103L	CHEMISTRY I (Required for Science and Engineering Majors only)
PHYS 201/ 201L	PHYSICS I (Required for Science and Engineering Majors only)

Quantitative Reasoning Group

Students take one or two courses in mathematics in order to develop quantitative logic and reasoning skills and to further strengthen their critical thinking. The specific course sequence will depend on the student's major and the level of mathematics with which the student enters the University determined by the results of placement. Students must take the highest level of mathematics for which they are qualified. Students will be advised by their academic advisors concerning appropriate-level mathematics courses. The five approved Quantitative Reasoning Sequences are listed below.

Quantitative Reasoning I	*Quantitative Reasoning II*
MATH-100/101 Finite Mathematics	MATH-103 Introduction to Calculus
MATH-102 Pre-Calculus	MATH-103 Introduction to Calculus
MATH-102 Pre-Calculus	MATH-111 Calculus I
MATH-111 Calculus I	MATH-112 Calculus II
MATH-103 Introduction to Calculus	Free Elective

The College Studies Program check sheet can be found on page 60.

Biochemistry

The Bachelor of Science in Biochemistry combines the disciplines of biology and chemistry to enable students to pursue careers in research, industry and advanced study in graduate programs. A variety of opportunities exists in research and development in the pharmaceutical industry, specialty-chemical companies and genetics, molecular biology and bioengineering research. The program provides an appropriate preparation for medical and other health sciences professional schools. Biochemistry majors maintain a consistently high placement rate in major-related careers and graduate school programs.

A wide array of career choices are available to professionals in this important field, including research-management positions at large pharmaceutical and chemical companies such as GlaxoSmithKline, McNeil Pharmaceuticals, Rohm and Haas, DuPont, Merck and Eastman Kodak.

The program, accredited by the American Chemical Society (ACS), not only prepares students for careers in research, development or production in the chemical industry, but for advanced study in graduate and/or medical school. The University maintains close ties with the ACS, which frequently invites students to present their research findings at meetings. Students have recently given presentations in Washington, D.C., San Francisco and San Diego. Students accumulate field-related research experience throughout their college careers due to the small class size and "hands-on" approach by faculty. As a result, many students have seen their work published in scholarly journals as early as the freshman year.

The Biochemistry check sheet can be found on page 131.

Biology

The Bachelor of Science in Biology at Philadelphia University affords students opportunities to pursue careers or graduate and professional study in disciplines as diverse as biotechnology, genetic counseling, pharmaceuticals, industrial food quality control, conservation and parks management, urban restoration and planning, pollution management and remediation, cellular biology, microbiology and immunology, secondary education, animal care, physical therapy and cancer research. An investigative approach in field and laboratory courses promotes development of technical competence, as well as conceptual understanding. Small class size and a common math and science core foster an interactive community of science students and faculty, which leads to unique opportunities for interdisciplinary projects. Most students hone their analytical skills through research with faculty on campus or at other institutions through internships, and many present their work at professional society meetings or publish in scientific journals. Students are strongly encouraged to participate in the student group "Science in Action" which sponsors academic, recreational, community service activities and a year-end student poster presentation.

The Biology check sheet can be found on page 133.

Biopsychology

Interest in biological explanations of behavior has increased dramatically in the last decade and has led to a greater appreciation for researching brain functioning in order to understand behavior. The demand for highly trained, behaviorally oriented scientists in academic and industrial research has been substantial and is reflected in the rise of graduate programs in biopsychology and related fields such as neuroscience. The Bachelor of Science in Biopsychology integrates psychology and the natural sciences to provide a fuller understanding of the biological basis of behavior. The Biopsychology major is a science-based curriculum designed to prepare students for medical school, direct entry into medical/pharmaceutical research or graduate programs in psychology, biopsychology, animal behavior, neuroscience and occupational therapy. Students will complete a common core of courses in psychology and science and select one of three concentration tracks: Animal Behavior, Graduate Study or Pre-Medical Studies.

Psychology Concentration Option
(select one, seven-course option)

Pre-Medical Studies Option

- CHEM-201/201L, CHEM-202/202L, PHYS-201/201L, PHYS-203/203L and three additional advanced courses from biology and psychology areas (see advisor)

Animal Behavior Option

- CHEM-207/207L, ECBIO-201, ECBIO-301 and four additional advanced courses from biology and psychology areas (see advisor)

Graduate Study Option

- seven advanced courses from biology and psychology areas (at least three from each area; see advisor)

The Biopsychology check sheet can be found on page 135.

Chemistry

The Bachelor of Science in Chemistry, accredited by the American Chemical Society (ACS), not only prepares students for careers in research, development or production in the chemical industry, but also for advanced study in graduate and/or medical school.

The two options within this program, chemistry and environmental science, provide the student the opportunity to investigate and to research developments in modern chemistry. Upper-level chemistry majors may work with a faculty member on a research project of mutual interest. As a result of these projects, some of the students have seen their work presented in national meetings and published in scholarly journals. The University maintains close ties with the ACS, which welcomes information about student research at its regular meetings.

By working with faculty on real projects, students learn how to complete each step of an independent research project that leads to the production of a scientific report suitable for publication in peer-reviewed journals. Recent faculty-

student partnerships have led to joint presentations at national conferences in Atlanta, Toronto, Denver, San Diego and New Orleans.

Chemistry affects our daily lives more than most people realize. From the paint we use to decorate our homes and the dyes used to create patterns in everyday items such as apparel and home furnishings, to the antibiotics prescribed to us by our doctors, experienced chemists are needed to produce many of the practical, revolutionary and necessary goods we often take for granted. Field-related research and experience are offered as part of the University's Chemistry major, preparing graduates for an abundance of career opportunities. Chemistry majors maintain a consistently high-placement rate in major-related careers and graduate school programs. Large pharmaceutical and chemical companies such as GlaxoSmithKline, McNeil Laboratories, Rohm and Haas, Merck and DuPont hire our students to become research chemists managers and associates, based on their outstanding classroom and laboratory experience and extensive research work, begun as early as the freshman year. Faculty-student research partnerships are an important part of the program.

Students have the option of choosing advanced study in Chemistry or Environmental Science.

The Chemistry check sheet can be found on page 137.

Environmental and Conservation Biology

The new innovative Environmental and Conservation Biology major dovetails with the major in Landscape Architecture preparing students for a wide range of environmental careers in government agencies, nonprofit organizations, research and consulting. The program emphasizes skills development in plant and animal field identification, Geographic Information Systems (GIS) technology, chemical analysis, experimental design, urban landscape planning, wildlife management and ecology. Exciting opportunities are provided for students to develop and apply their expertise through internships, research and field courses. These include marine conservation in Jamaica, wildlife management in Yellowstone National Park and water quality sampling techniques in the Delaware and Chesapeake Bays.

The Environmental and Conservation Biology check sheet can be found on-page 141.

Health Sciences

The healthcare job market is one of the fastest growing segments of the economy today in the United States. The need for additional healthcare providers and allied health personnel is rapidly expanding. Graduates from the BS in Health Sciences will have the necessary preparation in science, psychology and the liberal arts to successfully gain admission into and complete a graduate program for many allied health professions. They will also gain the skills in information literacy needed to answer relevant professional questions through database searching and critical analysis of original research, as well as become proficient in written, verbal and electronic communication.

The curriculum includes a strong foundation of natural science courses combined with human sciences, psychology and unique practical and clinical experiences. Each student is required to complete an extensive volunteer and shadowing experience as part of their coursework. Students are encouraged to explore a variety of healthcare opportunities by shadowing and gaining patient contact at a variety of area hospitals and clinics. The free electives that are built into the curriculum allow students to explore an area of specialization or sample a variety of different courses that are offered at the University. Students also have the opportunity to study abroad.

Philadelphia University provides exceptional facilities for the Health Science program. In addition to the fully equipped genetics, microbiology and histology labs, there is a physical diagnosis lab and gross anatomy (cadaver dissection) lab which students will have the opportunity to explore. The small class size fosters peer interaction and a close-knit community of students and faculty.

Students pursuing a Bachelor of Science (B.S.) degree in Health Science will be prepared to enter into professional and graduate schools in a variety of allied health fields. Students can pursue a career or graduate study in diverse disciplines such as physician assistant studies, occupational therapy, physical therapy, exercise science , community health, social work, community counseling, education, research, rehabilitation, crisis intervention, healthcare administration, public health and human resource management. The opportunities are boundless.

The Health Sciences check sheet can be found on page 143.

Physician Assistant Studies

Combined B.S. Health Sciences/M.S. Physician Assistant Studies

A physician assistant (PA) is a medical professional who practices medicine with the supervision of a licensed physician. PAs provide a wide variety of medical services traditionally performed by physicians. The concept for the profession originated in the early to mid-1960s as a way to enhance the provision of medical care to people residing in medically underserved areas. The care of the underserved remains an ongoing goal of the profession.

Physician assistants work in all 50 states, Guam and the District of Columbia in a wide range of medical settings including physicians' offices, hospitals, clinics, emergency departments, military and Veterans Administration installations, nursing homes, industrial health centers and correctional institutions. They work in conjunction with a physician and have a wide array of responsibilities including taking medical histories, conducting physical examinations, ordering or performing lab and other diagnostic tests, synthesizing data to make a proper diagnosis, developing a treatment plan, performing health-related counseling, performing various procedures such as casting and suturing and assisting in surgery. PAs can prescribe medication in all states.

The Physician Assistant Studies program is a comprehensive academic experience that stresses the practical application of current medical theory. Most of the program faculty are actively practicing health care providers with a great depth of knowledge and experience. Students are exposed to the clinical environment throughout their education with patient contact even during the classroom or didactic portion of the program. The Physician Assistant Studies program is fully accredited by the Accreditation Review Commission on Education for the Physician Assistant (ARC-PA).

The typical student in the Physician Assistant Studies program will spend approximately $3,000 on medical equipment, books, malpractice liability insurance and other program-related fees for both professional-phase years combined. This does not include tuition, housing, food, living expenses, travel costs, health center fees, graduation fees, and pre-professional phase book costs. All of these costs, except book costs, are listed elsewhere in the University catalog.

While this is a full-time, day program, the clinical or practical portion may involve some night and weekend hours. Admission criteria, procedures and technical standards are listed in the Physician Assistant Studies Program Information Booklet available from the Office of Admissions and at www.PhilaU.edu.

Freshman Admission Option

This option is designed for students who have no, or few college credits (less than 16 credit hours). It is designed as a five-year course of study and includes complete undergraduate and graduate degrees. The first six semesters (three years), make up the pre-professional phase, are designed to academically prepare students for PA training and provide a comprehensive general education. The pre-professional phase consists of medically related science and psychology prerequisite courses along with all of the components of the College Studies program. After successful completion of the pre-professional phase (which includes maintaining the required grade point averages of 3.0 cumulative and 3.0 science and core prerequisite, acquiring the required letters of reference, completing a personal essay and obtaining approval of the PA Program Admissions Committee), students are admitted to the professional phase. Students must complete all required courses in the pre-professional phase to enter the professional phase.

The professional phase is 25 months of continuous study and includes the didactic level that consists of three semesters of classroom and laboratory work in basic and applied medical science, and the clinical level that consists of six rotations and four preceptorships at a variety of clinical sites such as hospitals and medical offices. Students must complete all didactic-level courses before they can enter the clinical level. The first semester of the professional phase is composed of mandatory foundation courses. The remaining courses in the professional phase are graduate courses.

After successful completion of the fall semester of year four (the first professional-phase semester), students will receive a Bachelor of Science in Health Sciences and be eligible to participate in the May Commencement ceremony. Upon completion of the full five-year program, graduates will receive a Master of Science in Physician Assistant Studies, be eligible to sit for the Physician Assistant National Certifying Examination, and be able to participate in the Commencement ceremony.

Transfer Student Option

This option is designed for students with a substantial number of college credits (approximately 64), but who do not have a bachelor's degree. This option includes an accelerated bachelor's degree-completion program, and the complete professional-phase Physician Assistant Studies Program. Students wishing to enter the program in this option must meet two sets of prerequisite requirements prior to entrance into the program. The first is the PA-specific prerequisites that include science and psychology courses. The second consists of the College Studies prerequisites that are general education courses required for the bachelor's degree. Both sets of requirements must be met before a student can gain entrance into the program. These prerequisites are listed in the Physician Assistant Studies Program Information Booklet available from the Office of Admissions and at www.PhilaU.edu.

Students admitted into this option typically spend three years at the University. The first year (two semesters) comprises the pre-professional phase that consists of advanced science and psychology courses, and the remainder of the College Studies or general education program. The pre-professional phase may be shorter, depending on the number of applicable transfer credits a student has, but must be at least one semester. After successful completion of the pre-professional phase, students will enter the professional phase, which is described above.

After successful completion of the fall semester of year two (the first professional-phase semester) students will receive a Bachelor of Science in Health Sciences and be eligible to participate in the May Commencement ceremony. Upon completion of the full three-year program (both the pre-professional and the professional phases) graduates will receive a Master of Science in Physician Assistant Studies, be eligible to sit for the Physician Assistant Studies National Certifying Examination and be able to participate in the Commencement ceremony.

Clinical Education

Upon successful completion of the didactic level of the professional phase, the PA student proceeds into the clinical education level of the program. The PA student will spend 36 weeks in Clinical Rotations (six 6-week blocks) and another 24 weeks in Preceptorships (four 6-week blocks) before completing the course of study for Physician Assistant Studies. These experiences most likely will involve night and weekend hours.

Clinical Rotations (6 credits/rotation)

The clinical rotations are six-week blocks in the areas of medicine, pediatrics, surgery, psychiatry/mental health, women's health and emergency medicine, and are designed to expose the PA student to patient care in a variety of

settings. The student is directly involved with the evaluation and management of patients to the extent that the clinical preceptor or supervisor is comfortable with the level of knowledge and skills of the PA student. Typically, the student spends at least 40 hours per week in the clinical setting, attending to patients and partaking of continuing medical-education seminars.

Preceptorship IA, IB, IIA, IIB (6 credits/ Preceptorship)
These clinical training experiences are designed to enhance the PA student's knowledge, technical skills, clinical judgment and confidence in the evaluation and management of common medical problems. One of these must be done as two 6-week blocks in an ambulatory, primary-care setting such as an outpatient family practice, general practice or general internal medicine office or center.

The remaining preceptorship experiences include the Floating Medicine Block in which students do six additional weeks in a medically related specialty such as family, internal or geriatric medicine, and the clinical elective. During the elective students can spend more time in one of their rotation specialties or gain experience in other settings such as neonatology, HIV, correctional medicine, urology, orthopedic surgery, cardio thoracic surgery and others. Continuity of care and regular feedback from clinical faculty are the hallmarks of these experiences.

PA Program Technical and Professional Standards
For admission to the program, candidates must:

- Have the academic ability to learn a large volume of technically detailed information and be able to synthesize and use this data to solve complex clinical problems. This information must be acquired in a short and intense period of study that requires well-developed study skills and a high level of motivation and may require considerable personal and financial sacrifice;
- Possess the emotional maturity and stability to approach highly stressful human situations in a calm and rational manner;
- Have the ability to effectively communicate with ill patients from a wide diversity of cultural and socioeconomic backgrounds in an empathetic and sensitive fashion;
- Have well-developed oral and written communication skills;
- Have comfort with the role of a dependent practitioner operating under the supervision of a licensed physician, while simultaneously feeling comfortable with the large amount of responsibility that goes along with the delivery of patient care in sometimes remote locations;
- Display strong ethical integrity consistent with working as a healthcare professional;
- Have sufficient physical abilities in the areas of sensory function (vision, hearing, and touch sensation), hand-eye coordination, and neurologic and muscular coordination and control to competently perform the technical activities that are a critical part of the program and profession, including:
  a) Physical examinations, which include visual inspection, listening to heart and lung sounds with a stethoscope, examination by touch to gather information such as skin temperature and texture and other maneuvers;
  b) Performance and interpretation of diagnostic studies such as blood tests, EKGs and X-rays;
  c) Surgical assisting, which can involve activities such as control of bleeding and suturing (wound closure by placing stitches); and
  d) Performing common procedures such as applying casts, suturing, cardiopulmonary resuscitation (CPR), venipuncture (placing needle into a vein to collect a blood sample) and starting an intravenous access line.

The Physician Assistant Studies check sheet can be found on page 145.

Pre-Medical Studies

The future medical practitioner must be a capable scientist able to make independent judgments and data evaluations in order to treat the patient. It is the goal of the Bachelor of Science in Pre-Medical Studies to prepare students for these professions. Philadelphia University has a strong basis in healthcare stemming from a long-established Physician Assistant Studies program, Occupational Therapy and Midwifery programs. This, combined with the University's diversity of focus, which includes both science and liberal arts strengths, results in a graduate who has the analytical, verbal, written and empathic skills necessary to become an effective health practitioner.

Faculty involved in the Pre-Med curriculum have been active in developing novel methods of instruction and assessment of students skills, which include the use of case-history analyses, discussion of social and ethical aspects of medicine and disease risk assessment through genetic monitoring. Students also develop their empathy and professional skills through two unique, three-credit preceptorships, when they receive off-campus training and work hands-on with healthcare professionals, several of whom are Philadelphia University alumni. As well as receiving grades for these experiences, students learn firsthand what being in healthcare means. At Philadelphia University, we are aware that a successful student is one who is nurtured and advised during their formative, science-intensive, four-year experience so that they can develop and discover all their talents. For the Pre-Med program, the mentoring and monitoring of their progress as they proceed through the curriculum is both via an effective Pre-Med Committee, and by dedicated Pre-Med advisors, all of whom are previous health care graduates. In order to be a successful candidate for any graduate school students must maintain a 3.0 minimum GPA, at least between their sophomore and senior years. Any student not maintaining a GPA commensurate with success in the major will be asked to transfer to another major by the Pre-Med Committee, as this will be considered ineffective progress towards graduation. Philadelphia University Pre-Medical Studies graduates have an excellent placement record in

medical, osteopathic, dental and veterinary schools including University of Pennsylvania, Temple University, Thomas Jefferson University, University of Maryland, Philadelphia College of Osteopathic Medicine and New York College of Osteopathic Medicine. The Program has developed a scholarship program for Pre-Medical Students to attend a MCAT (Medical School Admission Exam) Preparation Program and has developed affiliation agreements with medical and other professional schools.

The Pre-Medical Studies check sheet can be found on page 147.

Psychology

Psychology is the scientific study of behavior. The Bachelor of Science in Psychology is designed to provide students with a broad understanding of the goals and possibilities of the field. The curriculum provides students with an in-depth understanding of the principles of behavior, the scientific methods used to derive those principles and appropriate ways to apply such knowledge.

The Psychology curriculum is designed to meet the educational requirements for graduate school in psychology or for students planning careers outside of academic psychology. Students take a core group of courses that emphasize the research-based nature of psychology and select additional courses in psychology depending upon their interests and goals. At the senior level, students conduct an advanced research project and may pursue internships at local counseling centers, human-services agencies, hospitals, residential treatment centers or other locations.

Psychology graduates may choose to work in professions such as counseling, social work, education or research. Other positions available to Psychology majors include human resource management, rehabilitation, community counseling and crisis intervention. The major allows students the flexibility to pursue graduate studies in related disciplines such as education, occupational therapy and management.

The Psychology check sheet can be found on page 149.



College Studies Program

The College Studies program—Philadelphia University's general education core curriculum—promotes a strong liberal arts and sciences education alongside the University's professionally oriented majors. Students progress through a sequence of foundational courses, making connections between disciplines and viewing their own fields of choice through wider social, economic, political and cultural lenses. The liberal arts and sciences form the foundation of every student's major, bringing classmates together to share a common educational experience and to learn from each other's diverse perspectives.

Two realities fuel our College Studies program: the inevitability of future change - in the economy, technology, the workplace or career goals - and the necessity for effective communication, critical thinking, research and information literacy skills. The College Studies program at the University promotes the development of these lifelong skills through a structured and progressive approach to the liberal arts and sciences that prepares students for a constantly changing world in which career success requires more than just the latest technical skills. As a program, College Studies comprises about 40 percent of students' baccalaureate experience and represents the most significant common factor in their education. Offering core courses and options within categories, the program is sequenced over four years to meet the intellectual needs of students at each level of development.

Courses introduce students to the major modes of knowledge, such as the nature of the scientific method and the methods of analysis used by social sciences. They also seek to develop awareness of the connections among academic disciplines. In the first year of study, the primary focus is upon the American experience. Students examine the implications of a multicultural society and its impact on the workplace in the United States, as well as abroad. Courses throughout the remaining years of the program expand students' understanding of the wider international context. Students may take foreign language courses, as well as regional/area studies to promote an understanding of the increasingly interdependent world.

To promote effective communication skills, the College Studies program has a strong emphasis on writing, with two courses devoted specifically to writing, and other courses in which writing is an important element, including at least one writing-intensive course in every major.

The program's innovation places the University in the national forefront of efforts to reform general education in higher education. A recent independent outside review described the College Studies curriculum as "a very strong program informed by a progressive vision of general education reflecting the best practice in the field today at a national level." It has been recognized by the support of major government grants from the National Endowment for the Humanities, the Fund for the Improvement of Post-Secondary Education, and the American Council on Education, and recently participated in the Integrative Learning Project sponsored by the Carnegie Foundation for the Advancement of Teaching and the Association of American Colleges and Universities.

Sequencing of College Studies Courses

(See table on page 60.)

College Studies courses are sequenced over four years in order to meet the intellectual needs of students at each level of their education. The program is also designed to allow students to begin study in their major in the first year of their undergraduate coursework, unlike general education cores at other institutions. With the exception of the arts and cultures and foreign language groups, which may be taken any time during the four-year program, each category of courses will be taken at a specific time in the student's major program. Students should consult with their advisors before registering for subsequent semesters. The chart that follows summarizes the sequencing of the College Studies program.

Fundamentals Courses

Students who are under-prepared for university-level reading, writing and mathematics (determined by placement testing) begin the College Studies sequence with appropriate preparatory courses. Fundamentals of College Writing (WRTG-099), Fundamentals of College Reading and Study Skills (READ-099) and Fundamentals of College Mathematics (MATH-099) are listed in the course-description section.

Description of College Studies Groups and Courses

The following provides a description of the categories or groups of courses, which are taken in a prescribed sequence in the College Studies program. The groups and courses are described in the sequence in which students will take them.

Writing Group: Writing Seminar I (WRTG-101) and Writing Seminar II (WRTG-21X)

The College Studies program includes two courses in which writing is a central focus. Students take the first course in the freshman year and the second in the sophomore year. Students who are under-prepared for university-level writing (determined by placement testing) begin the sequence with Fundamentals of College Writing (WRTG-099).

WRTG-099 Fundamentals of College Writing

This is a theme-based writing course designed for students who need additional preparation before taking Writing I. Students who place into this course are given background information about the content of Writing I, which prepares them to read and write college-level academic prose. Students for whom English is a second language take an ESL version of this course, though students should only be placed in WRTG-098ESL after designated faculty members have evaluated a writing sample. Credits may not be applied

toward graduation requirements, though the grade, as with other courses, does affect students' overall grade point average. For more information, see "Fundamentals Courses" in the section "Academic Policies."

Writing Seminar I

The first of two core writing-specific courses in the College Studies Program, WRTG-101 Writing Seminar I: Finding Philadelphia is a theme-based writing course designed to be taken in the first year of study. The interconnected skills of careful reading, critical thinking and cogent writing are the primary concerns of this course. The seminar has a specific topic, focused on aspects of diversity in the Philadelphia cultural experience. Through reading, discussing and writing about a variety of texts that share a common theme, students learn the rudiments of writing college-level academic papers. Honors and English as a Second Language versions of this course are available.

Writing Seminar II

All versions of this sophomore level writing course focus on problem solving and thinking analytically about professional concerns. Students address key issues in different disciplines and professions. Students select one course from the following:

WRTG-211	Writing Seminar II: Business
WRTG-215	Writing Seminar II: Architecture and Design
WRTG-217	Writing Seminar II: Science, Technology, Engineering and Health Professions

Science I and II - two courses

All students will complete two science courses in order to understand the scientific method and its application. Some students will take one science course in their first year and a second the following year, while others will take both College Studies science courses in the first year. Students should take the sequence that meets the requirements of their major and is of greatest interest.

Science I and II

SCI-101	Environmental Science
SCI-102	Exploring Science
BIOL-101	Current Topics in Biology
CHEM-101	General Chemistry
PHYS-101	General Physics

Or

CHEM-103/ 103L	Chemistry I / Chemistry I Laboratory
BIOL-103/103L	Biology I / Biology I Laboratory
PHYS-201/ 201L	Mechanics and Heat / Mechanics and Heat Laboratory

Quantitative Reasoning - two courses

The College Studies curriculum requires every Philadelphia University graduate to complete a mathematics education that includes differential and integral calculus, to ensure that our graduates have developed quantitative reasoning skills that strengthen their critical thinking abilities. To fulfill this core curriculum requirement, students must complete the highest calculus course for which they are qualified, up to Calculus I.

Quantitative Reasoning

MATH-100/1	Finite Mathematics
MATH-103	Introduction to Calculus
MATH-102	Pre-Calculus
MATH-111	Calculus I
MATH-112	Calculus II

Arts and Cultures - one course

Courses in this group are divided between those dealing with visual literacy and those that help students "read" the performing arts or explore the notion of aesthetic knowledge itself. This course may be taken at any time.

ARTS-105	Music
ARTS-120	Performing Arts
ARTS-123	Ideas and Images (not for Architecture or any design majors)
ARTH-101	History of Western Art I
ARTH-102	History of Western Art II
AHIST-205	History of Architecture & Interiors I

Historical Understanding I - one course

The course in this category helps students understand the significance of change over time and the way in which our present is shaped by the past. American Transitions focuses on the various transformations of U.S. society since the end of the Civil War, with a special emphasis on Philadelphia as an example of America's historical development.

HIST-114 American Transitions

Language and Area Studies - two courses

All courses in this group encourage students to value alternative ways of thinking and living and provide knowledge about other societies and cultures. Students may take courses in the language offerings or study cultures in the Area Studies offerings. All courses in this group focus on understanding cultural difference and learning how to learn about other cultures and other societies.

Students may take:

- Two courses in Area Studies, or
- One course in language and one course in Area Studies, or
- Two courses in the same language.

Language Studies:

Students must take sequenced levels of the same language to satisfy foreign language requirements; for example, a student cannot take Spanish I and French I.

Language courses:

ARAB-101, ARAB-102 Arabic I and II
CHIN-101, CHIN-102 Chinese I and II
FREN-101, FREN-201, FREN-301, FREN-401 French I-IV
GER-101, GER-201 German I and II
ITAL-101, ITAL-201, ITAL-301, ITAL-401 Italian I-IV
JAPN-101, JAPN-201, JAPN-301, JAPN-401 Japanese I-IV
SPAN-101, SPAN-201, SPAN-301, SPAN-401 Spanish I-IV

Area Studies:

AREAST-201	Europe
AREAST-202	Latin America

AREAST-205	East Asia
AREAST-208	Africa
AREAST-210	Middle East
AREAST-220	Great Britain: Study Abroad Preparation
AREAST-226	Italy: Study Abroad Preparation
AREAST-227	India and South Asia

Social Sciences I - one course

Courses in this group acquaint students with the social sciences as a way of looking at human behavior. Social Sciences I courses present a global perspective based on the understanding that we live in an increasingly interdependent world. These courses are interdisciplinary and give students a broad introduction to social scientific methods.

SOC-201	Class, Gender & Race in World Societies
SOC-204	Personality and Global Cultures
SOC-208	The Individual and the Global Environment
SOC-211	Poverty and Power in the Global Economy
SOC-225	Global Politics

Humanities I - one course

Courses in this group examine aspects of the human endeavor through the study of areas such as literature, philosophy, ethics and religion. Using primary texts, these courses address human beliefs and values, including religion and ethical reasoning.

LIT-225	Exploring World Literature
HUMN-215	Evil and Good
HUMN-223	World Philosophies

Junior Seminars: Liberal Arts Seminars and Integrative Professional Seminars - two courses

Junior seminars are upper-level writing-intensive courses that explore a specific topic in detail. There are two categories of Junior Seminars: Liberal Arts Seminars, which explore select topics in history, the humanities, and the social sciences; and Integrative Professional Seminars, which feature topics related to the University's professional majors. Students may take one course from each category or two courses from the Liberal Arts Seminars category.

Liberal Arts Seminars

JSLA-360	Creative Writing: Shaping Narrative and Experience
JSLA-361	From Fiction to Film
JSLA-362	Artist & Society in Literature and Film
JSLA-363	Shakespeare and Popular Culture
JSLA-370	U.S.: Recent Past
JSLA-380	Human Rights
JSLA-381	Gender Studies
JSLA-390	The Urban Experience
JSLA-391	The African-American Experience

Go to www.PhilaU.edu/JuniorSeminars before pre-registration to check for additional course offerings in this category.

Integrative Professional Seminars

JSINT-384 Applied Professional Ethics

Go to www.PhilaU.edu/JuniorSeminars before pre-registration to check for additional course offerings in this category.

Capstone Course in College Studies:

COLLST-499 Contemporary Perspectives

The capstone of the College Studies Program, Contemporary Perspectives draws upon the previously completed College Studies courses and makes connections between students' majors and the liberal arts and sciences. Students explore major economic, political and cultural trends in the post-1945 world. All students complete a final research project, which addresses an issue in the professions in light of current international trends. All students take this 4-credit capstone core course in their senior year. This course is writing intensive and cannot be taken for credit/no credit.

Policies

College Studies and Transfer Students

The University is mindful of the need to be accessible to students who transfer from two-year colleges and other four-year institutions. In general, students who transfer academic credit from other colleges to the bachelor's degree program at Philadelphia University may have that credit apply toward the requirements of the College Studies Program.

Courses for which credit can be transferred include all of those College Studies courses for which equivalent courses have been completed at other accredited institutions. Since College Studies courses are designed specifically for Philadelphia University, the University will determine transfer course equivalency.

Two specific courses in the College Studies curriculum, Writing Seminar II and Contemporary Perspectives, serve as keystone courses that require students to reflect on liberal-professional connections at Philadelphia University and to integrate the multiple academic skills they have learned in the other College Studies courses they have completed. Therefore, AP/transfer credit is not awarded for Writing Seminar II or Contemporary Perspectives.

Advanced Placement and College Level Examination Program (CLEP) credits will be accepted under the policy that is currently in effect at the University. Their acceptability to the curriculum will be determined in the same manner as transfer credit from other colleges.

Transfer students should meet with their academic advisors during orientation or at the beginning of their first semester to review whether/how courses taken at other institutions apply to their degree requirements at Philadelphia University.

College Studies Program

Select appropriate number of courses from each block.
Revised April 2009

Year 1 (1-30 credits)	Year 2 (31-60 credits)	Year 3 (61 to 90 credits)	Year 4 (90-120+ credits)
100's	200's	300's	400's
(Language courses can be taken in any year)	**Language or Area Studies** *Select two courses: (6 cr.)* Arabic I-II ARAB-XXX Chinese I-II CHIN-XXX Japanese I-IV JAPN-XXX Spanish I-IV SPAN-XXX French I-IV FREN –XXX German I-II GER-XXX Italian I-III ITAL-XXX	PREREQ for AREAST: WRTG-101, HIST-114 AREAST-201: Europe AREAST-202: Latin America AREAST-205: East Asia AREAST-208: Africa AREAST-210: Middle East AREAST-220: Great Britain (Study Abroad Preparation) AREAST-226: Italy (Study Abroad Preparation) AREAST-227: India and South Asia	**Senior Capstone Course (Writing Intensive)** PREREQ: HUMN-1xx, one Junior Seminar, one Language/Area Studies *One course for all students (4 cr.)* COLLST-499: Contemporary Perspectives
Science I and II *Select two courses: (6-8 cr.)* *Check requirements for major* **Non-science majors** SCI-101: Environmental Science SCI-102: Exploring Science BIOL-101: Current Topics in Biology CHEM-101: Gen. Chemistry PHYS-101: Gen. Physics	**Science majors** CHEM-103: Chemistry I (4 cr.) BIOL-103: Biology I (4 cr.) PHYS-201: Physics I (4 cr.)	**Junior Seminars (Writing Intensive)** PREREQ: WRTG-2xx, SOC-2xx *Select two courses: one from each category below or two Liberal Arts Seminars (6 cr.)* **Liberal Arts Seminars** JSLA-360: Creative Writing JSLA-361: From Fiction to Film JSLA-362: The Artist & Society in Literature and Film JSLA-363: Shakespeare and Contemporary Culture JSLA-370: The U.S.: The Recent Past JSLA-380: Human Rights JSLA-381: Gender Studies JSLA-390: The Urban Experience JSLA-391: The African-American Experience (Go to www.PhilaU.edu/JuniorSeminars to check for additional offerings in this category) **Integrative Professional Seminars** JSINT-384: Applied Professional Ethics (Go to www.PhilaU.edu/JuniorSeminars to check for offerings in this category)	
Quantitative Reasoning I and II *Select one of the sequences below (depending on major and placement): (6-8 cr.)* MATH-100/1: Finite Math MATH-103: Introduction to Calculus **or** MATH-102: Pre-Calculus MATH-103: Introduction to Calculus **or** MATH-102: Pre-Calculus & MATH-111: Calculus I **or** MATH-103: Introduction to Calculus and one Free Elective **or** MATH-111: Calculus I and one Free Elective	**Social Sciences I** PREREQ: WRTG-101, HIST-114 *Select one course: (3 cr.)* SOC-201: Class, Gender & Race in World Societies SOC-204: Personality & Global Cultures SOC-208: Individual & The Global Environment SOC-211: Power and Poverty in the Global Economy SOC-225: Global Politics		
Writing Seminar I *One course for all students (3 cr.)* WRTG-101: Writing Seminar I: Finding Philadelphia	**Writing Seminar II** PREREQ: WRTG-101, HIST-114 *Select one course: (3 cr.)* WRTG-211: Business WRTG-215: Design WRTG-217: Science, Engineering, Technology, and Health Professions		
Historical Understanding *One course for all students: (3 cr.)* HIST-114: American Transitions	**Humanities I** PREREQ: WRTG-101, HIST-114 *Select one course: (3 cr.)* HUMN-215: Evil and Good HUMN-223: World Philosophies LIT-225: Exploring World Literature		
Arts & Cultures **Non-Design Majors** *Select one course: (3 cr.)* ARTS-120: Performing Arts ARTS-123: Ideas and Images ARTS-105: Music ARTH-101: History of Western Art I ARTH-102: History of Western Art II AHIST-205: History of Architecture & Interiors I		**Arts & Cultures** **Architecture & all Design Majors:** *Select one course: (3 cr.)* ARTH-101: History of Western Art I ARTH-102: History of Western Art II AHIST-205: History of Architecture & Interiors I	
Total: 15-22 credits	Total 12-13 credits	Total 12 credits	Total: 4 credits

Continuing and Professional Studies

Executive Director, Continuing and Professional Studies: F.E. Congdon Jr.

Director, Academic Programs: E. Kolodner

Director, Marketing: K. Moran-Gannon

Director, Student Services: S.M. Calder

Director, Professional Education: T.E. Stasik

Continuing Studies at Philadelphia University is based on the philosophy that education is a lifelong experience influencing personal growth, career advancement or career change. Degree programs are designed to accommodate adult learners and their professional and personal obligations. Each semester or term, students enroll in baccalaureate, associate and certificate programs on the Main Campus and off-campus locations.

To accommodate busy professional and personal schedules, courses are offered in accelerated evening and weekend sessions. Beginning September 2009, select courses will be offered online. Special programs and tutoring services are available to help students adjust to the academic environment and strengthen skills in various content areas. Additionally, students who excel in their academic work are recognized on the dean's list and in graduation honors.

The faculty and staff are committed to providing excellence in all phases of the academic experience. Continuing Studies strives to provide a challenging environment where students are able to reach their career and educational goals, as well as enrich their personal lives.

Degree Completion Programs

Accelerated Degree Program

The Accelerated Bachelor of Science degree is designed to serve the educational needs of adult learners. Uniquely structured for adults with at least 30 previously earned college credits, this program offers Bachelor of Science degrees in: Behavioral and Health Services, Emergency Services Leadership, Health Sciences, Health Services Management, Human Resource Management, Information Technology, Law Enforcement Leadership, Organizational Leadership and Pre-MBA. The program features eight-week terms, transfer of 60 or more credits from previously attended colleges and universities and ongoing academic advising and personal attention.

Certificate Programs

Certificates are beneficial for individuals seeking the basic knowledge and skills required for an entry-level position in a specific field. They are valuable for those seeking additional competencies to enhance their careers. For some individuals, certificate programs are useful as preparation for admission into one of the University's degree programs.

Candidates are required to earn a "C" or better in all certificate courses. A maximum of six semester credits can be transferred from other accredited institutions. Students may complete the certificate program by itself or use the credits as part of a degree program.

In order to be awarded a certificate, students must apply for admission to the program before beginning the third course. Students who choose to complete the requirements of two or more certificates may apply one overlap course to both certificates.

Non-Degree Studies

Continuing Studies students who are not interested in working toward a degree or certificate, but who wish to take courses at the University to learn new skills for professional or personal development, are welcome to take evening and weekend courses, provided prerequisites are satisfied or waived.



Bucks County Campus

The Bucks County satellite campus is located in the Bucks County Technology Park, 4800 E. Street Road in Trevose, Pa. Easily accessible to residents of Lower Bucks County and Northeast Philadelphia, this campus location has been designed to serve the educational and career needs of adult students. Courses are offered in the evening and on Saturdays to accommodate the schedules of adults who balance a full calendar of professional and personal responsibilities. Academic advising, registration, book sales, library services and computer labs are all available at this location. To arrange an advising appointment call 215.953.4500

Summer Sessions

The Office of Continuing and Professional Studies offers day and evening classes from May through August during one 12-week and two 6-week sessions. Summer courses allow students to accelerate their degree programs, compensate for interruptions in their studies, facilitate career advancement or enrich their personal interests. Accelerated courses are offered in an eight-week term within the summer schedule.

A summer registration bulletin is available through the Office of Continuing and Professional Studies or by calling 215.951.2900 or email evening@PhilaU.edu.

On-Site Partnership Programs

The Office of Continuing and Professional Studies is committed to designing and delivering customized, credit-bearing educational programs for corporations and organizations with sufficient employees to enroll ten or more students per class at the location of their choice. Companies and organizations that are interested in exploring this unique program should contact Frank Congdon, Executive Director, Continuing and Professional Studies at 215.951.2902 to arrange a program assessment meeting.

B.S. Accelerated Degree Program

Evening Only

The Office of Continuing and Professional Studies offers an accelerated degree completion program of 60 credits for working professionals. The courses are offered in eight week terms and focus on adult general education requirements, professional competencies, a choice of nine majors, and a limited choice of electives. Candidates for admission to this program must have previously earned 30-60 credits from regionally accredited institutions. Candidates must demonstrate competency in writing, mathematics, information systems, humanities, history, science and social science. Students can accumulate credits toward their first 60 credits through existing university coursework, pre-approved transfer coursework, CLEP examination, prior-learning assessment and pre-approved independent study. Candidates are required to complete an application and related materials, attend an individual interview and write a personal statement. Transcript evaluations are an integral part of this process.

General Education		15 credits
HIST 321	Business, Industry, Work in American History	3
HUMN 310	Globalization and World Politics	3
SOC 310	The Social Science of the Workplace	3
COMM 320	Professional Communication Skills	3
CSSEM 499	Professional Capstone Seminar	3
Continuing Professional Studies Core		**15 credits**
CSSEM 300	Professional Practice Seminar	3
MGMT 351	Leadership Theory	3
ECON 331	Economic Decision Making	3
STAT 311	Finding and Evaluating Statistical Data	3
FINC 323	Financial Decision Making	3
MGMT 330	Organizational Ethics	3
Major – select one 15 credit option below		**15 credits**
		3
		3
		3
		3
		3
Free Electives		**12 credits**
		3
		3
		3
		3
Transfer Credits		**60 credits**
CREDIT TOTAL 120 CREDITS		

Program Majors

Behavioral and Health Services		**15 credits**
Choose 5 of six listed courses		
PSYCH 201	Abnormal Psychology	3
PSYCH 222	Counseling Psychology	3
PSYCH 213	Developmental Psychology	3
PSYCH 233	Interpersonal Relations and Small Group Dynamics	3
BEHLT 341	Behavioral Health and Neurorehabilitation	3
BEHLT 499	Applied Project in Behavioral Health and Neurorehabilitation	3

Health Services Management		**15 credits**
HRM 350	Cross Cultural Communication and Diversity Management	3
HLTSV 310	Survey of Health Services Delivery Systems	3
HLTSV 315	Public Policy and Planning in Healthcare	3
HLTSV 325	Emerging Issues in Healthcare	3
HLTSV 499	Capstone Seminar in Health Services Management	3

Human Resource Management		**15 credits**
MGMT 320	Human Resource Management	3
HRM 321	Staffing and Resource Development	3
HRM 336	Compensation and Benefits, Health and Safety	3
HRM 421	Organizational and Employee Relations	3
HRM 499	Applied Research and Practice in Human Resource Management	3

Information Technology		**15 credits**
IT 315	Information Technology I	3
IT 317	Information Technology II	3
IT 320	Database Management	3
IT 410	Needs Assessment	3
IT 499	Project Management	3

Organizational Leadership		**15 credits**
PSYCH 233	Interpersonal Relations and Small Group Dynamics	3
COMM 310	Communication Theory and Practice	3
MKTG 320	Visual Literacy	3
HRM 350	Cross Cultural Communication and Diversity Management	3
OL	Elective	3

Pre M.B.A.		**15 credits**
MGMT 401	Operations Management	3
MKTG 102	Principles of Marketing	3
ACCT 101	Financial Accounting	3
ACCT 102	Managerial Accounting	3
BUS 499	Business Capstone Seminar	3

Health Sciences		**15-16 credits**
Choose 5 of 6 course options:		
PSYCH 201	Abnormal Psychology	3
PSYCH 233	Interpersonal Relations and Small Group Dynamics	3
PSYCH 213	Developmental Psychology	3
BEHLT 341	Behavioral Health and Neurorehabilitation	3
BEHLT 499	Applied Project in Behavioral Health and Neurorehabilitation	3
BIOL 202	Anatomy and Physiology II	4

Note:
The Professional Studies core is modified as follows:

Required:		
BIOL 104	Biology II	4
Replaces		
ECON 331	Economic Decision Making	3
BIOL 201	Anatomy and Physiology I	4
Replaces		
FINC 323	Financial Decision Making	3

Law Enforcement Leadership		**15 credits**
MGMT 320	Human Resource Management	3
LAWEN 301	Planning for Law Enforcement Organizations	3
LAWEN 310	Contemporary Law Enforcement Strategies	3
LAWEN 410	Advanced Law Enforcement Theory and Management	3
LAWEN 499	Capstone Seminar and Project in Law Enforcement	3

Leadership in Emergency Services		**15 credits**
EMS 310	Emergency Services Law	3
EMS 320	Emergency Management Planning	3
EMS 330	Public Health Issues Impacting Emergency Services	3
EMS 410	Disaster Response and Recovery Planning	3
EMS 499	Theoretical Applications and Applied Project in Emergency Services Leadership	3

The B.S. Accelerated Degree Programs check sheet can be found on page 151.

Associate in Science: Business Administration

Evening only – Available to existing students and employees only.

College Studies		(21-23 credits)
WRTG 105	Writing About Workplace Culture	3
SCI 101	Environmental Science	3
MATH( )	Quantitative Reasoning I	3/4
MATH( )	Quantitative Reasoning II	3/4

For Quantitative Reasoning select one two-course sequence:

MATH 101/1	Finite Mathematics	MATH 102 Pre-calculus (3 cr.)
MATH 103	Introduction to Calculus (3 cr.)	MATH 111Calculus I (4 cr.)
MATH 102	Pre-calculus (3 cr.)	MATH 111 Calculus I (4 cr.)
MATH 103	Introduction to Calculus (3 cr.)	MATH 112 Calculus II (4 cr.)
HIST( )	Historical Understanding I	
SOC( )	Social Science I	
HUMN( )	Humanities I (WRTG 101, HUMNx)	

Business and Economics Core		(30 credits)
INFO 101	Introduction to Information Systems	3
MGMT 301	Principles of Management	3
STAT 201	Statistics I (MATH 100)	3
MKTG 102	Principles of Marketing	3
ACCT 101	Financial Accounting	3
BLAW 301	Business Law I	3
ACCT 102	Managerial Accounting (ACCT 101)	3
FINC 301	Financial Management (ACCT 101 and STAT 202 or MATH 321)	3
ECON 205	Macroeconomics	3
ECON 206	Microeconomics	3

Free Electives	(9 credits)
	3
	3
	3

CREDIT TOTAL: 60-62

**Prerequisites are listed after the course name in parentheses.*

The Associate in Science: Business Administration check sheet can be found on page 159.

Associate in Science: Health and Human Services

Restricted Enrollment

This 60 credit program builds on technical training programs that have been approved by the Pennsylvania Department of Education for post-secondary credit and that have articulation agreements with the University.
District 1199C Training and Upgrading Fund

Program		**Credits**
BEHLT 199	Behavioral Health Technician Training Program	21
Core Competencies		
WRTG 105	Writing About Workplace Culture	3
COMM 320	Professional Communication Skills	3
MATH 215	College Algebra	3
SCI 101	Environmental Science	3
HIST 114	The Rise of the Modern World: American Transitions	3
PSYCH 101	Introduction to Psychology	3
HLTSV 210	Ethical Issues for Human Services Providers	3
IT 101	Introduction to Information Systems	3
Major Concentration		
PSYCH 201	Abnormal Psychology	3
PSYCH 223	Interpersonal Relations and Small Group Dynamics	3
PSYCH 224	Psychology of Addiction	3
COMM 310	Communication Theory and Practice	3
BEHLT 290	Clinical Interactions in Behavioral Health	3

CREDIT TOTAL: 60

The Associate in Science: Health and Human Services check sheet can be found on page 161.

Jewish Employment and Vocational Services

Orleans Technical Institute

Program		Credits
HVMSV 199	Human Services Training Program	30
Core Compentencies		
WRTG 105	Writing About Workplace Culture	3
MATH 215	College Algebra	3
SCI 101	Environmental Science	3
HIST 114	The Rise of the Modern World: American transitions	3
PSYCH 101	Introduction to Psychology	3
COMM 310	Communication Theory and Practice	3
IT 101	Introduction to Information Systems	3
Major Concentration Category		
PSYCH 201	Abnormal psychology	3
PSYCH 223	Interpersonal Relations and Small/Group Dynamics	3
BEHLT 290	Clinical Interactions in Behavioral Health	3

CREDIT TOTAL 60

The Jewish Employment and Vocational Services check sheet can be found on page 163.

Post-Baccalaureate Certificate: Accounting

Pennsylvania requires a bachelor's degree and 24 credits of accounting to sit for the C.P.A. examination. The Accounting Certificate program is designed for individuals who have a bachelor's degree in a field other than accounting and who wish to take the C.P.A. examination. Students should be aware that experience in public accounting is also required for certification. Students who apply to this program must have a bachelor's degree. Students should consult an advisor for current requirements.

ACCT 101	Financial Accounting	3
ACCT 203	Intermediate Accounting I (ACCT 101)	3
ACCT 204	Intermediate Accounting II (ACCT 203)	3
ACCT 303	Accounting Theory and Practice (ACCT 204)	3
ACCT 316	Cost Accounting (ACCT 203)	3
ACCT 309	Federal Taxes I (ACCT 101)	3
ACCT 409	Auditing (ACCT 204)	3
ACCT 412	Advanced Accounting (ACCT 303)	3

CREDIT TOTAL: 24

Please note that the requirements for the C.P.A. examination are being evaluated for change and therefore, could impact changes in the above courses in the future. Consult with an adviser before finalizing your program. Students will need to enroll in late afternoon and summer school classes to complete requirements as evening classes are no longer available.

The Post-Baccalaureate Certificate in Accounting check sheet can be found on page 165.

PHILADELPHIA UNIVERSITY

BACHELOR OF ARCHITECTURE (2009-2010)

5-Year Program

Name _____ ID# _____

LEVEL I (FIRST YEAR) – 33-35 credits

		(Prerequisite)	Cr	Sem.	Grade	TR Equiv.
College Studies Courses – 18-20 credits						
WRTG-101	Writing Seminar I		3 ☐			
HIST-114	Historical Understanding: American Transitions		3 ☐			
SCI-101	Science I: Environmental Science (Fall)		3 ☐			
PHYS-101	Science II: General Physics (Spring)	(Quantitative Reasoning I)	3 ☐			
MATH-1( )	Quantitative Reasoning I (select one, 2-course option below)		3-4 ☐			
( )	Quantitative Reasoning II *or* Free Elective (select below)		3-4 ☐			

Students must receive credit for either Introduction to Calculus or Calculus I. If a student places into, and passes, Intro to Calculus or Calculus I, the student will have an additional Free Elective.

		MATH-102	Pre-calculus (3 cr.)
		MATH-111	Calculus I (4 cr.)
MATH-102	Pre-calculus (3 cr.)	MATH-111	Calculus I (4 cr.)
MATH-103	Introduction to Calculus (3 cr.)	MATH-112	Calculus II (4 cr.)
MATH-103	Introduction to Calculus (3 cr.)	MATH-111	Calculus I (4 cr.)
( )	Free Elective (3 cr.)	( )	Free Elective (3 cr.)

Physical Education....OR...Community Service – 1 credit (select one, 1 credit option below)

PE-( )	Physical Education (.5 cr)	SERV-101 Community Service (1 cr.)	☐
PE-( )	Physical Education (.5 cr)		☐

Students with 54 or more transfer credits are exempt from this requirement.

Major Courses – 14 credits

			(Prerequisite)				
Fall	ADFND-101	Design I		4 ☐			
	DRAW-101	Drawing I		3 ☐			
Spring	ADFND-102	Design II	(ADFND-101*)	4 ☐			
	Designated Visualization Elective (Select one: ADFND-112 (preferred), ADFND-104, INTD-106, ADFND-110, LARCH-203, DRAW-201, DRAW-206)						
	( )			3 ☐			

The School of Architecture requires the purchase of a laptop computer before entering the second year of this program. The University bookstore makes every effort to offer the lowest possible prices of the required software for coursework. Visit <www.philau.edu/oit> for hardware and software recommendations.

LEVEL II (SECOND YEAR) – 32 credits

		(Prerequisite)	Cr	Sem.	Grade	TR Equiv.
College Studies Courses – 12 credits						
AHIST-205	History I: Ancient to Medieval (Fall)	(WRTG-101)	3 ☐			
SOC-2( )	Social Sciences I	(WRTG-101, HIST-114)	3 ☐			
WRTG-2( )	Writing Seminar II	(WRTG-101, HIST-114)	3 ☐			
	[WRTG-215 Writing Seminar II for Design recommended]					
( )	Language or Area Studies	(WRTG-101, HIST-114 for Area Studies only)	3 ☐			

Major Courses – 20 credits

Fall	ARCH-201	Design III for Arch & LA	(ADFND-102*)	4 ☐			
	ARCHDSN-210	Technology I: Materials & Methods	(ADFND-102*)	3 ☐			
	ARCHDSN-208	Vis. I: Digital Modeling (Fall or Spring)	(ADFND-102*)	3 ☐			
Spring	ARCH-202	Design IV for Architecture	(ARCH-201*)	4 ☐			
	ARCH-211	Building Technology II	(ARCHDSN-210)	3 ☐			
	AHIST-206	History II: Renaissance/Baroque	(AHIST-205)	3 ☐			

LEVEL III (THIRD YEAR) - 32 credits

		(Prerequisite)	Cr	Sem.	Grade	TR Equiv.
College Studies Courses – 12 credits						
( )	Humanities I	(WRTG-101, HIST-114)	3 ☐			
+ JSLA/JSINT-3( )	Junior Seminar	(Soc Sci I and Writing II)	3 ☐			
+ JSLA/JSINT-3( )	Junior Seminar	(Soc Sci I and Writing II)	3 ☐			
( )	Language or Area Studies	(WRTG-101, HIST-114 for Area Studies only)	3 ☐			

LEVEL III (THIRD YEAR) - continued

			(Prerequisite)	Cr	Sem.	Grade	TR Equiv.
Major Courses – 20 credits							
Fall	ARCH-301	Design V for Arch & LA (Fall or Spring)	(ARCH-202*, ARCH-211)	5 ☐			
	ARCH-309	Structures I	(MATH-103 or MATH-111, PHYS-101, ARCH-211)	2 ☐			
	AHIST-305	History III: Early Modern-1750-1940	(AHIST-206)	3 ☐			
Spring	ARCH-302	Design VI for Architecture (Fall or Spring)	(ARCH-202*; AHIST-206)	5 ☐			
	ARCH-310	Structures II	(ARCH-309)	2 ☐			
	AHIST-306	History IV: Mod/Contemporary	(AHIST-305)	3 ☐			

LEVEL IV (FOURTH YEAR) - 35 credits

			(Prerequisite)	Cr	Sem.	Grade	TR Equiv.
College Studies Courses – 4 credits							
	COLLST-499	Contemporary Perspectives *(Humanities I, one Language/Area Studies, one Junior Seminar)*		4 ☐			
Major Courses – 25 credits							
Fall	ARCH-403	Tech. III: Lighting & Acoustics	(ARCH-211 ARCH-301* or ARCH-302*)	3 ☐			
	ARCH-405	Structures III	(ARCH-310)	2 ☐			
	Designated Architecture Electives (Approved by academic advisor)						
	( )			3 ☐			
Spring	ARCH-402	Design VIII for Architecture (Fall or Spring) *(AHIST-306, ARCH-310, ARCHDSN-208, ARCH-301*, ARCH-302*, co-requisite ARCH-408)*		6 ☐			
	ARCH-408	Vis. II: Documentation (Fall or Spring)	(co-requisite ARCH-402)	3 ☐			
	ARCH-404	Tech. IV: Dynamic Systems	(ARCH-211, ARCH-301* or ARCH-302*)	3 ☐			
	ARCH-406	Structures IV	(ARCH-405)	2 ☐			
	Designated History/Theory Elective (Select from the list below)						
+	( )	(Fall or Spring)		3 ☐			
Free Electives - 6 credits							
☆	( )	(Fall or Spring)		3 ☐			
☆	( )	(Fall or Spring)		3 ☐			

LEVEL V (FIFTH YEAR) - 34 credits

			(Prerequisite)	Cr	Sem.	Grade	TR Equiv.
Major Courses – 19 credits							
Fall	ARCH-501	Design IX for Architecture *(ARCH-403 or ARCH-404; ARCH-405; ARCH-402*; co-requisite ARCH-511)*		6 ☐			
	ARCH-511	Technology V: Advanced Lab	(co-requisite ARCH-501)	3 ☐			
	ARCH-505	Professional Management I	(ARCH-301*; ARCH-302* or LARCH-302*)	2 ☐			
Spring	ARCH-502	Design X for Architecture	(ARCH-501*, ARCH-591*)	6 ☐			
	ARCH-506	Professional Management II	(ARCH-505)	2 ☐			
Free Electives - 15 credits							
	( )	(Fall)		3 ☐			
	( )	(Fall)		3 ☐			
	( )	(Spring)		3 ☐			
	( )	(Spring)		3 ☐			
	( )	(Fall or Spring)		3 ☐			

TOTAL CREDITS: 166-168 credits

* A grade of "C" or better is required to advance from one design studio into the next, Design I through Design X.

☆ Students are encouraged to take ARCH-401-Design VII or a studio course from another Design program in this semester.

\+ Credits for this course may be earned through the American University in Rome (STUAB-300).

Designated History/Theory Electives: (Select one from this list)

ARCH-433, ARCH-409, ARCH-425, ARCH-410, ARCH, 434, ARCH-341, ARCH-321, ARCH-371, ARCH-421, ARCH-420, INTD-428, ARCH-422

Fundamentals Courses: (these courses do **not** count toward graduation requirements)

WRTG-099	Fundamentals of College Writing	(must earn C or better)	3			
MATH-099	Fundamentals of College Mathematics	(must earn C or better)	3			
READ-099	Fundamentals of College Reading & Study Skills	(must earn C or better)	3			

Please note Philadelphia University residency requirement:

Philadelphia University has a residency requirement of 60 credits for Day Division students. Students must take a minimum of 60 credits – 12 credits must be within the major core; 6 credits must be in College Studies in order to be eligible for a B.S. degree.

COURSE STATUS: ☑ = course to take next semester ☒ = course currently being taken ■ = course completed

PHILADELPHIA UNIVERSITY

BACHELOR OF SCIENCE: **ARCHITECTURAL STUDIES** (2009-2010)

(Note: Separate second pages are available for each concentrations)

Name _____ ID# _____

LEVEL I (FIRST YEAR) – 33-35 credits

		(Prerequisite)	Cr	Sem.	Grade	TR Equiv.
College Studies Courses – 18-20 credits						
WRTG-101	Writing Seminar I		3 ☐			
HIST-114	Historical Understanding: American Transitions		3 ☐			
SCI-101	Science I: Environmental Science (Fall)		3 ☐			
PHYS-101	Science II: General Physics (Spring)	(Quantitative Reasoning I)	3 ☐			
MATH-1( )	Quantitative Reasoning I (select one, 2-course option below)		3-4 ☐			
( )	Quantitative Reasoning II *or* Free Elective (select below)		3-4 ☐			

Students must receive credit for either Introduction to Calculus or Calculus I. If a student places into, and passes, Intro to Calculus or Calculus I, the student will have an additional Free Elective.

		MATH-102	Pre-calculus (3 cr.)
		MATH-111	Calculus I (4 cr.)
MATH-102	Pre-calculus (3 cr.)	MATH-111	Calculus I (4 cr.)
MATH-103	Introduction to Calculus (3 cr.)	MATH-112	Calculus II (4 cr.)
MATH-103	Introduction to Calculus (3 cr.)	MATH-111	Calculus I (4 cr.)
( )	Free Elective (3 cr.)	( )	Free Elective (3 cr.)

Physical Education....OR...Community Service - 1 credit (select one, 1 credit option below)

PE-( )	Physical Education (.5 cr)	SERV-101 Community Service (1 cr.)	☐
PE-( )	Physical Education (.5 cr)		☐

Students with 54 or more transfer credits are exempt from this requirement.

Major Courses – 14 credits

Fall	ADFND-101	Design I		4 ☐		
	DRAW-101	Drawing I		3 ☐		
Spring	ADFND-102	Design II	(ADFND-101*)	4 ☐		
	Designated Visualization Elective (Select one: ADFND-112 (preferred), ADFND-104, INTD-106, ADFND-110, LARCH-203, DRAW-201, DRAW-206)					
	( )			3 ☐		

The School of Architecture requires the purchase of a laptop computer before entering the second year of this program. The University bookstore makes every effort to offer the lowest possible prices of the required software for coursework. Visit <www.philau.edu/oit> for hardware and software recommendations.

LEVEL II (SECOND YEAR) – 32 credits

		(Prerequisite)	Cr	Sem.	Grade	TR Equiv.
College Studies Courses – 12 credits						
AHIST-205	History I: Ancient to Medieval (Fall)	(WRTG-101)	3 ☐			
SOC-2( )	Social Sciences I	(WRTG-101, HIST-114)	3 ☐			
WRTG-2( )	Writing Seminar II	(WRTG-101, HIST-114)	3 ☐			
	[WRTG-215 Writing Seminar II for Design recommended]					
( )	Language or Area Studies	(WRTG-101, HIST-114 for Area Studies only)	3 ☐			

Major Courses – 20 credits

Fall	ARCH-201	Design III for Arch & LA	(ADFND-102*)	4 ☐		
	ARCHDSN-210	Technology I: Materials & Methods	(ADFND-102*)	3 ☐		
	ARCHDSN-208	Visualization I: Digital Modeling	(ADFND-102*)	3 ☐		
Spring	ARCH-202	Design IV for Architecture	(ARCH-201*)	4 ☐		
	ARCH-211	Building Technology II	(ARCHDSN-210)	3 ☐		
	AHIST-206	History II: Renaissance/Baroque	(AHIST-205)	3 ☐		

LEVEL III (THIRD YEAR) - 28-30 credits

		(Prerequisite)	Cr	Sem.	Grade	TR Equiv.
College Studies Courses – 12 credits						
( )	Humanities I	(WRTG-101, HIST-114)	3 ☐			
+ JSLA/JSINT-3( )	Junior Seminar	(Soc Sci I and Writing II)	3 ☐			
+ JSLA/JSINT-3( )	Junior Seminar	(Soc Sci I and Writing II)	3 ☐			
	[SOC-321 The Urban Experience is recommended]					
( )	Language or Area Studies	(WRTG-101, HIST-114 for Area Studies only)	3 ☐			

BACHELOR OF SCIENCE: ARCHITECTURAL STUDIES (2009-2010)
Construction Management Concentration - [Page 2]

Level III (THIRD YEAR) - continued

			(Prerequisite)	Cr	Sem.	Grade	TR Equiv.
Major Courses – 16 credits							
	AHIST-305	History III: Early Modern-1750-1940 (Fall)	(AHIST-206)	3 ☐			
	AHIST-306	History IV: Mod/Contemporary (Spring)	(AHIST-305)	3 ☐			
	Construction Management Concentration						
Fall	ARCH-427	Construction Management I	(ARCH-202, ARCH-211)	3 ☐			
	ARCH-309	Structures I	(MATH-103 or MATH-111, PHYS-101, ARCH-211)	2 ☐			
Spring	ARCH-428	Construction Management II	(ARCH-427)	3 ☐			
	ARCH-310	Structures II	(ARCH-309)	2 ☐			

LEVEL IV (FOURTH YEAR) - 31-34 credits

			(Prerequisite)	Cr	Sem.	Grade	TR Equiv.
College Studies Courses – 4 credits							
	COLLST-499	Contemporary Perspectives *(Humanities I, one Language/Area Studies, one Junior Seminar)*		4 ☐			
Major Courses – 24-27 credits							
	Construction Management Concentration						
Fall	ARCH-403	Tech. III: Lighting & Acoustics	(see advisor)	3 ☐			
	INTD--305	Interior Building Systems	(INTD-206, INTD-202)	3 ☐			
	ARCH-408	Visualization II: Technical Documentation	(see advisor)	3 ☐			
	ARCH-426.....Design/Build (3 cr)		(ARCH-211 or LARCH-207)	3-6 ☐			
	.....OR.....ARCH-401 Design VII for Architecture (6 cr)		(ARCH-301*, ARCH-302*; LARCH-302* or INTD-302*)				
Spring	ARCH-404	Tech. IV: Dynamic Systems	(ARCH-301* or ARCH-302*, ARCH-211*)	3 ☐			
	ARCH-499	Construction Management Capstone	(ARCH-428, ARCH-408)	3 ☐			
	Business Core						
	MGMT-301	Principles of Management (Fall)		3 ☐			
	MKTG-102	Principles of Marketing (Spring)		3 ☐			
Free Elective - 3 credits							
	☆ ( )			3 ☐			

TOTAL CREDITS: 124-129 credits

* A grade of "C" or better is required to advance from one design studio into the next, Design I to Design IV.

+ Credits for this course may be earned through the American University in Rome (STUAB-300).

☆ **Recommended Electives**
BLAW-301 Business Law I, ACCT-101 Financial Accounting

Fundamentals Courses: (these courses do **not** count toward graduation requirements)

WRTG-099	Fundamentals of College Writing	(must earn C or better)	3		
MATH-099	Fundamentals of College Mathematics	(must earn C or better)	3		
READ-099	Fundamentals of College Reading & Study Skills	(must earn C or better)	3		

Surplus credits not used toward degree requirements

Please note Philadelphia University residency requirement:
Philadelphia University has a residency requirement of 60 credits for Day Division students. Students must take a minimum of 60 credits – 12 credits must be within the major core; 6 credits must be in College Studies in order to be eligible for a B.S. degree.

This form should be used as a worksheet in conjunction with the catalog and the College Studies "menu" of options. Please refer to the Philadelphia University catalog for questions regarding curriculum and academic policies.

COURSE STATUS: ☑ = course to take next semester ☒ = course currently being taken ■ = course completed

BACHELOR OF SCIENCE: **ARCHITECTURAL STUDIES** (2009-2010)
Historic Preservation Concentration - [Page 2]

Level III (THIRD YEAR) - continued		(Prerequisite)	Cr	Sem.	Grade	TR Equiv.
Major Courses – 18 credits						
AHIST-305	History III: Early Modern-1750-1940 (Fall)	(AHIST-206)	3 ❑			
AHIST-306	History IV: Mod/Contemporary (Spring)	(AHIST-305)	3 ❑			
Historic Preservation Concentration						
Fall ARCH-421	Introduction to Historic Preservation	(ARCH-211, ARCH-202, AHIST-206, INTD-202 or LARCH-206)	3 ❑			
ARCH-411	Architectural Photography	(ARCH-309)	3 ❑			
Spring ARCH-4XX	Preservation Technology	(ARCH-421)	3 ❑			
ARCH-4XX	HP Documentation: Photography	(ARCH-411, ARCH-421)	3 ❑			

LEVEL IV (FOURTH YEAR) - 32 credits		(Prerequisite)	Cr	Sem.	Grade	TR Equiv.
College Studies Courses – 4 credits						
COLLST-499	Contemporary Perspectives	(Humanities I, one Language/Area Studies, one Junior Seminar)	4 ❑			
Major Courses – 22 credits						
Historic Preservation Concentration						
Fall INTD-428	Restoration/Rehab Interiors	(ARCH-211 or LARCH-207, AHIST-305 or LARCH-307; ARCH-202 or LARCH-202 or INTD-202)	3 ❑			
LARCH-507	Cult & Landscape Preservation	(LARCH-306 or ARCH-421)	3 ❑			
ARCH-425	Meaning in Architectural Ornament	(AHIST-206)	3 ❑			
ARCH-4XX	HP Documentation: Drawing	(ARCH-$XX, ARCH-421)	3 ❑			
Spring ARCH-341	American Architecture	(AHIST-206)	3 ❑			
ARCH-42X	Hist Building Assessment/Capstone	(TBA)	4 ❑			
LARCH-512	Urban Design / Planning	(AHIST-206)	3 ❑			
Free Electives - 6 credits						
☆ ( )			3 ❑			
☆ ( )			3 ❑			

TOTAL CREDITS: 127-129 credits

* A grade of "C" or better is required to advance from one design studio into the next, Design I to Design IV

✢ Credits for this course may be earned through the American University in Rome (STUAB-300).

☆ **Recommended Electives**
ARCHDSN-493 Historic Preservation Internship, ARCH-409 The Great City, ARCH-410 Vernacular Architecture, ARCH-422 Theories of Architecture Seminar

Fundamentals Courses: (these courses do **not** count toward graduation requirements)

WRTG-099	Fundamentals of College Writing	(must earn C or better)	3			
MATH-099	Fundamentals of College Mathematics	(must earn C or better)	3			
READ-099	Fundamentals of College Reading & Study Skills	(must earn C or better)	3			

Surplus credits not used toward degree requirements

Please note Philadelphia University residency requirement:
Philadelphia University has a residency requirement of 60 credits for Day Division students. Students must take a minimum of 60 credits – 12 credits must be within the major core; 6 credits must be in College Studies in order to be eligible for a B.S. degree.

This form should be used as a worksheet in conjunction with the catalog and the College Studies "menu" of options. Please refer to the Philadelphia University catalog for questions regarding curriculum and academic policies.

COURSE STATUS: ☑ = course to take next semester ☒ = course currently being taken ■ = course completed

PHILADELPHIA UNIVERSITY

JOINT B.S. ARCHITECTURAL STUDIES / M.B.A. (2009-2010)

5- Year Program

Name _____ ID# _____

LEVEL I (FIRST YEAR) – 33-35 credits

		(Prerequisite)	Cr	Sem.	Grade	TR Equiv.
College Studies Courses – 18-20 credits						
WRTG-101	Writing Seminar I		3 ☐			
HIST-114	Historical Understanding: American Transitions		3 ☐			
SCI-101	Science I: Environmental Science (Fall)		3 ☐			
PHYS-101	Science II: General Physics (Spring)	*(Quantitative Reasoning I)*	3 ☐			
MATH-1( )	Quantitative Reasoning I (select one, 2-course option below)		3-4 ☐			
( )	Quantitative Reasoning II *or* Free Elective (select below)		3-4 ☐			

Students must receive credit for either Introduction to Calculus or Calculus I. If a student places into, and passes, Intro to Calculus or Calculus I, the student will have an additional Free Elective.

		MATH-102	Pre-calculus (3 cr.)
		MATH-111	Calculus I (4 cr.)
MATH-102	Pre-calculus (3 cr.)	MATH-111	Calculus I (4 cr.)
MATH-103	Introduction to Calculus (3 cr.)	MATH-112	Calculus II (4 cr.)
MATH-103	Introduction to Calculus (3 cr.)	MATH-111	Calculus I (4 cr.)
( )	Free Elective (3 cr.)	( )	Free Elective (3 cr.)

Physical Education....OR...Community Service - 1 credit (select one, 1 credit option below)

PE-( )	Physical Education (.5 cr)	SERV-101 Community Service (1 cr.)	☐
PE-( )	Physical Education (.5 cr)		☐

Students with 54 or more transfer credits are exempt from this requirement.

Major Courses – 14 credits

Fall	ADFND-101	Design I		4 ☐		
	DRAW-101	Drawing I		3 ☐		
Spring	ADFND-102	Design II	*(ADFND-101*)*	4 ☐		
	Designated Visualization Elective (Select one: ADFND-112 (preferred), ADFND-104, INTD-106, ADFND-110, LARCH-203, DRAW-201, DRAW-206)					
	( )			3 ☐		

The School of Architecture requires the purchase of a laptop computer before entering the second year of this program. The University bookstore makes every effort to offer the lowest possible prices of the required software for coursework. Visit <www.philau.edu/oit> for hardware and software recommendations.

LEVEL II (SECOND YEAR) – 32 credits

		(Prerequisite)	Cr	Sem.	Grade	TR Equiv.
College Studies Courses – 12 credits						
AHIST-205	History I: Ancient to Medieval (Fall)	*(WRTG-101)*	3 ☐			
SOC-2( )	Social Sciences I	*(WRTG-101, HIST-114)*	3 ☐			
WRTG-2( )	Writing Seminar II	*(WRTG-101, HIST-114)*	3 ☐			
	[WRTG-215 Writing Seminar II for Design recommended]					
( )	Language or Area Studies	*(WRTG-101, HIST-114 for Area Studies only)*	3 ☐			

Major Courses – 20 credits

Fall	ARCH-201	Design III for Arch & LA	*(ADFND-102*)*	4 ☐		
	ARCHDSN-210	Technology I: Materials & Methods	*(ADFND-102*)*	3 ☐		
	ARCHDSN-208	Visualization I: Digital Modeling	*(ADFND-102*)*	3 ☐		
Spring	ARCH-202	Design IV for Architecture	*(ARCH-201*)*	4 ☐		
	ARCH-211	Building Technology II	*(ARCHDSN-210)*	3 ☐		
	AHIST-206	History II: Renaissance/Baroque	*(AHIST-205)*	3 ☐		

LEVEL III (THIRD YEAR) - 30 credits

		(Prerequisite)	Cr	Sem.	Grade	TR Equiv.
College Studies Courses – 12 credits						
( )	Humanities I	*(WRTG-101, HIST-114)*	3 ☐			
JSLA/JSINT-3( )	Junior Seminar	*(Soc Sci I and Writing II)*	3 ☐			
JSLA/JSINT-3( )	Junior Seminar	*(Soc Sci I and Writing II)*	3 ☐			
	[SOC-321 The Urban Experience is recommended]					
( )	Language or Area Studies	*(WRTG-101, HIST-114 for Area Studies only)*	3 ☐			

Level III (THIRD YEAR) - continued		(Prerequisite)	Cr	Sem.	Grade	TR Equiv.
Major Courses – 12 credits						
AHIST-305	History III: Early Modern-1750-1940 (Fall)	(AHIST-206)	3 ☐			
AHIST-306	History IV: Mod/Contemporary (Spring)	(AHIST-305)	3 ☐			
Designated ARCH/INTD Electives (Approved by Academic Advisor and Program Director)						
( )			3 ☐			
( )			3 ☐			
Pre-MBA Concentration - 6 Credits						
MGMT-301	Principles of Management		3 ☐			
MKTG-102	Principles of Marketing		3 ☐			

LEVEL IV (FOURTH YEAR) - 31 credits		(Prerequisite)	Cr	Sem.	Grade	TR Equiv.
College Studies Courses – 4 credits						
COLLST-499	Contemporary Perspectives *(Humanities I, one Language/Area Studies, one Junior Seminar)*		4 ☐			
Major Courses – 3 credits						
Designated ARCH/INTD Elective (Approved by Academic Advisor and Program Director)						
( )			3 ☐			
Pre-MBA Concentration - 21 Credits						
MBF-503	Foundation of Economic Analysis		3 ☐			
MBF-504	Financial & Managerial Acct (Fall)		3 ☐			
MBF-508	Statistical Analysis for Business (Fall)		3 ☐			
FINC-301	Financial Management (or MBF-505) (Fall) *(ACCT-101; STAT-201 or Quantitative Reasoning I)*		3 ☐			
MGMT-401	Operations Management (or MBF-510) (Spring) *(INFO-101, MGMT-301, MATH-103 or MATH-111; pre- or co-requisite STAT-202 or MATH-111)*		3 ☐			
* MBA-625	Mgmt Comm & Negotiations	*(all MBF courses or equivalent)*	3 ☐			
* MBA-628	Accounting for Mgmt Decisions (Spring)	*(all MBF courses or equivalent)*	3 ☐			
Free Elective - 3 credits						
( )			3 ☐			

B.S. DEGREE TOTAL CREDITS: 126-128 credits

LEVEL V (FIFTH YEAR) - 27 credits		(Prerequisite)	Cr	Sem.	Grade	TR Equiv.
* MBA-626	Global Managing in the 21st Century (Summer)		3 ☐			
* MBA-627	Management of Information Through Technology (Summer)		3 ☐			
* MBA-629	Financial Policy & Planning (Fall)		3 ☐			
* MBA-630	Quantitative Methods in Decisions (Fall)		3 ☐			
* MBA-632	Strategic Marketing Management (Fall)		3 ☐			
* MBA-740	International Business (Spring)		6 ☐			
* MBA-642	Strategic Planning in a Global Environment (Spring)		3 ☐			
International Elective (Approved by Academic Advisor and Program Director)						
* MBA-XXX			3 ☐			

JOINT B.S./M.B.A. TOTAL CREDITS: 153-155 credits

* Courses that contribute to the M.B.A. Degree

Fundamentals Courses: (these courses do **not** count toward graduation requirements)

WRTG-099	Fundamentals of College Writing	*(must earn C or better)*	3			
MATH-099	Fundamentals of College Mathematics	*(must earn C or better)*	3			
READ-099	Fundamentals of College Reading & Study Skills	*(must earn C or better)*	3			

Please note Philadelphia University residency requirement:

Philadelphia University has a residency requirement of 60 credits for Day Division students. Students must take a minimum of 60 credits – 12 credits must be within the major core; 6 credits must be in College Studies in order to be eligible for a B.S. degree.

This form should be used as a worksheet in conjunction with the catalog and the College Studies "menu" of options. Please refer to the Philadelphia University catalog for questions regarding curriculum and academic policies.

COURSE STATUS: ☑ = course to take next semester ☒ = course currently being taken ■ = course completed

PHILADELPHIA UNIVERSITY

BACHELOR OF SCIENCE: INTERIOR DESIGN (2009-2010)

Name _____ ID# _____

LEVEL I (FIRST YEAR) – 33-35 credits

		(Prerequisite)	Cr	Sem.	Grade	TR Equiv.
College Studies Courses – 18-20 credits						
WRTG-101	Writing Seminar I		3 ☐			
HIST-114	Historical Understanding: American Transitions		3 ☐			
( )	Science I		3 ☐			
PHYS-101	Science II: General Physics (Spring)	(Quantitative Reasoning I)	3 ☐			
MATH-1( )	Quantitative Reasoning I (select one, 2-course option below)		3-4 ☐			
( )	Quantitative Reasoning II *or* Free Elective (select below)		3-4 ☐			

Students must receive credit for either Introduction to Calculus or Calculus I. If a student places into, and passes, Intro to Calculus or Calculus I, the student will have an additional Free Elective.

MATH-100 or MATH-101	Finite Mathematics (3cr.)	MATH-102	Pre-calculus (3 cr.)
MATH-103	Introduction to Calculus (3 cr.)	MATH-111	Calculus I (4 cr.)
MATH-102	Pre-calculus (3 cr.)	MATH-111	Calculus I (4 cr.)
MATH-103	Introduction to Calculus (3 cr.)	MATH-112	Calculus II (4 cr.)
MATH-103	Introduction to Calculus (3 cr.)	MATH-111	Calculus I (4 cr.)
( )	Free Elective (3 cr.)	( )	Free Elective (3 cr.)

Physical Education....OR...Community Service - 1 credit (select one, 1 credit option below)

PE-( )	Physical Education (.5 cr)	SERV-101 Community Service (1 cr.)	☐
PE-( )	Physical Education (.5 cr)		☐

Students with 54 or more transfer credits are exempt from this requirement.

Major Courses – 14 credits

Fall	ADFND-101	Design I		4 ☐		
	DRAW-101	Drawing I		3 ☐		
Spring	ADFND-102	Design II	(ADFND-101*)	4 ☐		
	INTD-106	Technical Drawing & Graphic Repr.	(ADFND-101, DRAW-101)	3 ☐		

The School of Architecture requires the purchase of a laptop computer before entering the second year of this program. The University bookstore makes every effort to offer the lowest possible prices of the required software for coursework. Visit <www.philau.edu/oit> for hardware and software recommendations.

LEVEL II (SECOND YEAR) – 32 credits

		(Prerequisite)	Cr	Sem.	Grade	TR Equiv.
College Studies Courses – 12 credits						
AHIST-205	History I: Ancient to Medieval (Fall)	(WRTG-101)	3 ☐			
SOC-2( )	Social Sciences I	(WRTG-101, HIST-114)	3 ☐			
WRTG-2( )	Writing Seminar II	(WRTG-101, HIST-114)	3 ☐			
	[WRTG-215 Writing Seminar II for Design recommended]					
( )	Language or Area Studies	(WRTG-101, HIST-114 for Area Studies only)	3 ☐			

Major Courses – 20 credits

Fall	INTD-201	Design III for Interior Design	(ADFND-102*, INTD-106*)	4 ☐		
	ARCHDSN-208	Visualization I: Digital Modeling (Fall or Spring)	(ADFND-102*)	3 ☐		
	ARCHDSN-210	Technology I: Materials & Methods	(ADFND-102*)	3 ☐		
Spring	INTD-202	Design IV for Interior Design	(INTD-201*)	4 ☐		
	INTD-206	Interior Building Technology	(ARCHDSN-210, INTD-201)	3 ☐		
	AHIST-206	History II: Renaissance/Baroque	(AHIST-205)	3 ☐		

LEVEL III (THIRD YEAR) - 36 credits		(Prerequisite)	Cr	Sem.	Grade	TR Equiv.
College Studies Courses – 9 credits						
( )	Humanities I	(WRTG-101, HIST-114)	3 ☐			
JSLA/JSINT-3( )	Junior Seminar	(Soc Sci I and Writing II)	3 ☐			
( )	Language or Area Studies	(WRTG-101, HIST-114 for Area Studies only)	3 ☐			
Major Courses – 27 credits						
Fall INTD-301	Design V for Interior Design	(INTD-202*)	6 ☐			
INTD-305	Interior Building Systems (Fall or Spring)	(INTD-206, INTD-202)	3 ☐			
AHIST-305	History III: Early Modern (1750-1940)	(AHIST-206)	3 ☐			
Spring INTD-302	Design VI for Interior Design	(INTD-301*)	6 ☐			
INTD-310	Textile & Materials for Interiors & Architecture	(INTD-201)	3 ☐			
INTD-308	CAD II: for Interior Design	(INTD-206, INTD-202, ARCHDSN-208)	3 ☐			
AHIST-306	History IV: Modern to Contemporary	(AHIST-305)	3 ☐			

LEVEL IV (FOURTH YEAR) - 36 credits		(Prerequisite)	Cr	Sem.	Grade	TR Equiv.
College Studies Courses – 7 credits						
JSLA/JSINT-3( )	Junior Seminar	(Soc Sci I and Writing II)	3 ☐			
COLLST-499	Contemporary Perspectives (Humanities I, one Language/Area Studies, one Junior Seminar)		4 ☐			
Major Courses – 20 credits						
Fall INTD-401	Design VII for Interior Design	(INTD-302*)	6 ☐			
INTD-487	Capstone Research & Programming (INTD-302* and approval of Program Director)		3 ☐			
Spring INTD-488	Capstone Project for INTD	(INTD-401*, INTD-487*)	6 ☐			
INTD-412	Prof. Practice & Contract Design	(INTD-206, INTD-302*)	2 ☐			
Designated INTD Elective (Approved by the Academic Advisor & Program Director)						
( )			3 ☐			
Free Electives - 9 credits						
( )		(Fall)	3 ☐			
( )		(Spring)	3 ☐			
( )		(Spring)	3 ☐			

TOTAL CREDITS: 137-139 credits

* A grade of "C" or better is required to advance from one design studio into the next, Design I to Design VII & Capstone Research & Programming

Fundamentals Courses: (these courses do **not** count toward graduation requirements)

WRTG-099	Fundamentals of College Writing	(must earn C or better)	3			
MATH-099	Fundamentals of College Mathematics	(must earn C or better)	3			
READ-099	Fundamentals of College Reading & Study Skills	(must earn C or better)	3			

Surplus credits not used toward degree requirements

Please note Philadelphia University residency requirement:

Philadelphia University has a residency requirement of 60 credits for Day Division students. Students must take a minimum of 60 credits – 12 credits must be within the major core; 6 credits must be in College Studies in order to be eligible for a B.S. degree.

COURSE STATUS: ☑ = course to take next semester ☒ = course currently being taken ■ = course completed

PHILADELPHIA UNIVERSITY

BACHELOR OF LANDSCAPE ARCHITECTURE (2009-2010)

5-Year Program

Name _____ ID# _____

LEVEL I (FIRST YEAR) – 33-35 credits

		(Prerequisite)	Cr	Sem.	Grade	TR Equiv.
College Studies Courses – 18-20 credits						
WRTG-101	Writing Seminar I		3 ☐			
HIST-114	Historical Understanding: American Transitions		3 ☐			
BIOL-101	Science I: Topics in Biology (Botany) (Fall)		3 ☐			
SCI-101	Science I: Environmental Science (Spring)		3 ☐			
MATH-1( )	Quantitative Reasoning I (select one, 2-course option below)		3-4 ☐			
( )	Quantitative Reasoning II *or* Free Elective (select below)		3-4 ☐			

Students must receive credit for either Introduction to Calculus or Calculus I. If a student places into, and passes, Intro to Calculus or Calculus I, the student will have an additional Free Elective.

		MATH-102	Pre-calculus (3 cr.)
		MATH-111	Calculus I (4 cr.)
MATH-102	Pre-calculus (3 cr.)	MATH-111	Calculus I (4 cr.)
MATH-103	Introduction to Calculus (3 cr.)	MATH-112	Calculus II (4 cr.)
MATH-103	Introduction to Calculus (3 cr.)	MATH-111	Calculus I (4 cr.)
( )	Free Elective (3 cr.)	( )	Free Elective (3 cr.)

Physical Education....OR...Community Service - 1 credit (select one, 1 credit option below)

PE-( )	Physical Education (.5 cr)	SERV-101 Community Service (1 cr.)	☐
PE-( )	Physical Education (.5 cr)		☐

Students with 54 or more transfer credits are exempt from this requirement.

Major Courses – 14 credits

Fall	ADFND-101	Design I		4 ☐			
	DRAW-101	Drawing I		3 ☐			

All first-semester LA students must attend the Thursday night Landscape Architecture lecture series.

Spring	ADFND-102	Design II	*(ADFND-101*)*	4 ☐			
	ECOBIO-207	Soils	*(BIOL-101)*	3 ☐			

LEVEL II (SECOND YEAR) – 33 credits

		(Prerequisite)	Cr	Sem.	Grade	TR Equiv.
College Studies Courses – 9 credits						
AHIST-205	History I: Ancient to Medieval (Fall)	*(WRTG-101)*	3 ☐			
SOC-2( )	Social Sciences I	*(WRTG-101, HIST-114)*	3 ☐			
WRTG-2( )	Writing Seminar II	*(WRTG-101, HIST-114)*	3 ☐			

[WRTG-217 Writing Seminar II for Science recommended]

Major Courses – 24 credits

Fall	ARCH-201	Design III for Arch & LA	*(ADFND-102*)*	4 ☐			
	LARCH-203	Graphics for LA	*(DRAW-101)*	3 ☐			
	LARCH-207	Technology I: Grading	*(ECOBIO-207)*	3 ☐			
Spring	LARCH-202	Design IV for LA	*(ARCH-201*)*	4 ☐			
	LARCH-206	History of Landscape Arch. I	*(AHIST-205)*	3 ☐			
	ARCHDSN-208	Visualization I: Digital Modeling	*(ADFND-102*)*	3 ☐			
	ECBIO-208	Local Flora	*(BIOL-101)*	4 ☐			

The School of Architecture requires the purchase of a laptop computer before entering the second year of this program. The University bookstore makes every effort to offer the lowest possible prices of the required software for coursework. Visit <www.philau.edu/oit> for hardware and software recommendations.

LEVEL III (THIRD YEAR) - 35 credits

			(Prerequisite)	Cr	Sem.	Grade	TR Equiv.
College Studies Courses – 9 credits							
	( )	Humanities I	*(WRTG-101, HIST-114)*	3 ☐			
+	JSLA/JSINT-3( )	Junior Seminar	*(Soc Sci I and Writing II)*	3 ☐			
	( )	Language or Area Studies	*(WRTG-101, HIST-114 for Area Studies only)*	3 ☐			

LEVEL III (THIRD YEAR) - continued

			(Prerequisite)	Cr	Sem.	Grade	TR Equiv.
Major Courses – 26 credits							
Fall	ARCH-301	Design V for Arch & LA	(LARCH-202*, LARCH-207, admission into BLA)	5 ☐			
	LARCH-307	History of Landscape Arch. II	(LARCH-206)	3 ☐			
	ECBIO301/301L	Ecology (Fall)	(ECBIO-208)	4 ☐			
Spring	LARCH-302	Design VI for LA	(LARCH-202*)	5 ☐			
	LARCH-306	Design & Human Behavior	(LARCH-202 or ARCH-202)	3 ☐			
	LARCH-310	GIS for Landscape Analysis	(ARCHDSN-208 or ECBIO-301)	3 ☐			
	LARCH-409	Technology II: Materials & Methods	(ARCH-205 and LARCH-207)	3 ☐			

LEVEL IV (FOURTH YEAR) - 31 credits

			(Prerequisite)	Cr	Sem.	Grade	TR Equiv.
College Studies Courses – 10 credits							
	( )	Language or Area Studies	(WRTG-101, HIST-114 for Area Studies only)	3 ☐			
+	JSLA/JSINT-3( )	Junior Seminar	(Soc Sci I and Writing II)	3 ☐			
	COLLST-499	Contemporary Perspectives	(Humanities I, one Language/Area Studies, one Junior Seminar)	4 ☐			
Major Courses – 21 credits							
☆Fall	LARCH-401	Design VII: Topical Studio	(LARCH-301*, LARCH-302*)	6 ☐			
Spring	LARCH-402	Design VIII for LA	(ARCH-301*, LARCH-302*, ECBIO-207)	6 ☐			
	LARCH-411	LA Theory (If studying abroad, taken Spring 5th year)	(LARCH-307)	3 ☐			
	LARCH-412	Technology III: Hydrology	(LARCH-207)	3 ☐			
	LARCH-XXX	Sustainable Planting Design	(ECBIO-208, ECBIO-301)	3 ☐			

LEVEL V (FIFTH YEAR) - 33 credits

			(Prerequisite)	Cr	Sem.	Grade	TR Equiv.
Fall	LARCH-501	Design IX for LA	(LARCH-207, LARCH-409, LARCH-401*, LARCH-402*; co-requisite LARCH-513)	6 ☐			
	LARCH-513	Tech. IV: Construction Documents	(co-requisite LARCH-501)	3 ☐			
	LARCH-591	Research Methodology for LA	(LARCH-401*, LARCH-402*)	3 ☐			
Spring	LARCH-502	Design X for LA	(LARCH-501*, LARCH-591)	6 ☐			
	LARCH-506	Professional Practice for LA	(LARCH-501)	3 ☐			
Designated LA Electives (Select four from the list below)							
	( )			3 ☐			
	( )			3 ☐			
	( )			3 ☐			
	( )			3 ☐			

TOTAL CREDITS: 165-167 credits

* A grade of "C" or better is required to advance from one design studio into the next, Design I through Design X.
☆ Students are encouraged to take ARCH-401-Design VII or a studio course from another Design program in this semester.
\+ Credits for this course may be earned through the American University in Rome.

Designated LA Electives: (Select four from this list; additional electives if approved by academic advisor)
LARCH-507, LARCH-509, LARCH-512, LARCH-515, LARCH-521

Fundamentals Courses: (these courses do **not** count toward graduation requirements)

WRTG-099	Fundamentals of College Writing	(must earn C or better)	3		
MATH-099	Fundamentals of College Mathematics	(must earn C or better)	3		
READ-099	Fundamentals of College Reading & Study Skills	(must earn C or better)	3		

Please note Philadelphia University residency requirement:
Philadelphia University has a residency requirement of 60 credits for Day Division students. Students must take a minimum of 60 credits – 12 credits must be within the major core; 6 credits must be in College Studies in order to be eligible for a B.S. degree.

COURSE STATUS: ☑ = course to take next semester ☒ = course currently being taken ■ = course completed

PHILADELPHIA UNIVERSITY
BACHELOR OF SCIENCE: **ACCOUNTING** (2009-2010)

Name _____ ID# _____

LEVEL I (FIRST YEAR) – 31-33 credits

		(Prerequisite)	Cr	Sem.	Grade	TR Equiv.
College Studies Courses – 18-20 credits						
WRTG-101	Writing Seminar I		3 ☐			
HIST-114	Historical Understanding: American Transitions		3 ☐			
( )	Science I		3 ☐			
ARTS-1( )	Arts & Culture		3 ☐			
MATH-1( )	Quantitative Reasoning I (select one, 2-course option below)		3-4 ☐			
( )	Quantitative Reasoning II *or* Free Elective (select below)		3-4 ☐			

Students must receive credit for either Introduction to Calculus or Calculus I. If a student places into, and passes, Intro to Calculus or Calculus I, the student will have an additional Free Elective.

MATH-100 or MATH-101	Finite Mathematics (3cr.)	MATH-102	Pre-calculus (3 cr.)
MATH-103	Introduction to Calculus (3 cr.)	MATH-111	Calculus I (4 cr.)
MATH-102	Pre-calculus (3 cr.)	MATH-111	Calculus I (4 cr.)
MATH-103	Introduction to Calculus (3 cr.)	MATH-112	Calculus II (4 cr.)
MATH-103	Introduction to Calculus (3 cr.)	MATH-111	Calculus I (4 cr.)
( )	Free Elective (3 cr.)	( )	Free Elective (3 cr.)

Physical Education....OR...Community Service - 1 credit (select one, 1 credit option below)

PE-( )	Physical Education (.5 cr)	SERV-101 Community Service (1 cr.)	☐
PE-( )	Physical Education (.5 cr)		☐

Students with 54 or more transfer credits are exempt from this requirement.

Business Courses – 12 credits						
INFO-101	Intro. to Information Systems (Fall)		3 ☐			
ACCT-101	Financial Accounting (Fall)		3 ☐			
MKTG-102	Principles of Marketing (Spring)		3 ☐			
ACCT-102	Managerial Accounting (Spring)	*(ACCT-101)*	3 ☐			

LEVEL II (SECOND YEAR) – 30 credits

		(Prerequisite)	Cr	Sem.	Grade	TR Equiv.
College Studies Courses – 12 credits						
( )	Science II		3 ☐			
SOC-2( )	Social Sciences I	*(WRTG-101, HIST-114)*	3 ☐			
WRTG-2( )	Writing Seminar II	*(WRTG-101, HIST-114)*	3 ☐			
	[WRTG-211 Writing Seminar II for Business recommended]					
( )	Language or Area Studies	*(WRTG-101, HIST-114 for Area Studies only,*	3 ☐			
Business Courses – 18 credits						
STAT-201	Statistics I (Fall)	*(Quantitative Reasoning I)*	3 ☐			
STAT-202	Statistics II (Spring)	*(C or better in STAT-101)*	3 ☐			
ECON-206	Microeconomics		3 ☐			
ECON-205	Macroeconomics		3 ☐			
Major Core						
ACCT-203	Intermediate Accounting I (Fall only)	*(ACCT-101)*	3 ☐			
ACCT-204	Intermediate Accounting I (Spring only)	*(ACCT-203)*	3 ☐			

LEVEL III (THIRD YEAR)- 30 credits

		(Prerequisite)	Cr	Sem.	Grade	TR Equiv.
College Studies Courses – 12 credits						
( )	Humanities I	*(WRTG-101, HIST-114)*	3 ☐			
( )	Language or Area Studies	*(WRTG-101, HIST-114 for Area Studies only,*	3 ☐			
JSLA/JSINT-3( )	Junior Seminar	*(Soc Sci I and Writing II)*	3 ☐			
JSLA/JSINT-3( )	Junior Seminar	*(Soc Sci I and Writing II)*	3 ☐			
Business Courses – 18 credits						
MGMT-301	Principles of Management (Fall)		3 ☐			
BLAW-301	Business Law I (Fall)		3 ☐			
FINC-301	Financial Management (Fall)		3 ☐			
		(ACCT-101; STAT-201 or Quantitative Reasoning I)				

LEVEL III (THIRD YEAR) - continued		(Prerequisite)	Cr	Sem.	Grade	TR Equiv.
Major Core						
ACCT-303	Accounting Theory & Practice (Fall only)	(ACCT-204)	3 ☐			
ACCT-309	Federal Taxes (Fall only)	(ACCT-101)	3 ☐			
ACCT-316	Cost Accounting (Spring)	(ACCT-203)	3 ☐			

* *Courses in the minor may be taken during the third year, except for pre-MBA. Students must be accepted into this graduate program.*

LEVEL IV (FOURTH YEAR)- 31 credits		(Prerequisite)	Cr	Sem.	Grade	TR Equiv.
College Studies Courses – 4 credits						
COLLST-499	Contemporary Perspectives *(Humanities I, one Language/Area Studies, one Junior Seminar)*		4 ☐			
Business Courses – 12 credits						
MGMT-401	Operations Management *(INFO-101, MGMT-301, MATH-103 or MATH-111; pre- or co-requisite STAT-202 or MATH-111)*		3 ☐			
MGMT-490	Business Policy & Strategy *(senior-status, INFO-101, MGMT-301, MKTG-102, FINC-301)*		3 ☐			
Major Core						
ACCT-409	Auditing (Fall only)	(ACCT-204)	3 ☐			
ACCT-412	Advanced Accounting (Spring only)	(ACCT-303)	3 ☐			
* **Minor Courses or Free Electives - 12 credits**		Minor Chosen				
( )	Minor or Elective		3 ☐			
( )	Minor or Elective		3 ☐			
( )	Minor or Elective		3 ☐			
( )	Minor or Elective		3 ☐			
Free Elective or Internship - 3 credits						
( )			3 ☐			

TOTAL CREDITS: 122-124 credits

Fundamentals Courses: (these courses do **not** count toward graduation requirements)

WRTG-099	Fundamentals of College Writing	*(must earn C or better)*	3			
MATH-099	Fundamentals of College Mathematics	*(must earn C or better)*	3			
READ-099	Fundamentals of College Reading & Study Skills	*(must earn C or better)*	3			

Surplus credits not used toward degree requirements

Please note Philadelphia University residency requirement:

Philadelphia University has a residency requirement of 60 credits for Day Division students. Students must take a minimum of 60 credits – 12 credits must be within the major core; 6 credits must be in College Studies in order to be eligible for a B.S. degree.

This form should be used as a worksheet in conjunction with the catalog and the College Studies "menu" of options. Please refer to the Philadelphia University catalog for questions regarding curriculum and academic policies.

COURSE STATUS: ☑ = course to take next semester ☒ = course currently being taken ■ = course completed

PHILADELPHIA UNIVERSITY

BACHELOR OF SCIENCE: **FASHION MERCHANDISING** (2009-10)

Name _____ ID# _____

LEVEL I (FIRST YEAR) – 31-33 credits

		(Prerequisite)	Cr	Sem.	Grade	TR Equiv.
College Studies Courses – 15-17 credits						
WRTG-101	Writing Seminar I		3 ☐			
HIST-114	Historical Understanding: American Transitions		3 ☐			
( )	Science I		3 ☐			
MATH-1( )	Quantitative Reasoning I (select one, 2-course option below)		3-4 ☐			
( )	Quantitative Reasoning II *or* Free Elective (select below)		3-4 ☐			

Students must receive credit for either Introduction to Calculus or Calculus I. If a student places into, and passes, Intro to Calculus or Calculus I, the student will have an additional Free Elective.

MATH-100 or MATH-101	Finite Mathematics (3cr.)	MATH-102	Pre-calculus (3 cr.)
MATH-103	Introduction to Calculus (3 cr.)	MATH-111	Calculus I (4 cr.)
MATH-102	Pre-calculus (3 cr.)	MATH-111	Calculus I (4 cr.)
MATH-103	Introduction to Calculus (3 cr.)	MATH-112	Calculus II (4 cr.)
MATH-103	Introduction to Calculus (3 cr.)	MATH-111	Calculus I (4 cr.)
( )	Free Elective (3 cr.)	( )	Free Elective (3 cr.)

Physical Education....OR...Community Service – 1 credit (select one, 1 credit option below)

PE-( )	Physical Education (.5 cr)	SERV-101 Community Service (1 cr.)	☐
PE-( )	Physical Education (.5 cr)		☐

Students with 54 or more transfer credits are exempt from this requirement.

Business Courses – 15 credits						
INFO-101	Intro. to Information Systems (Fall)		3 ☐			
ACCT-101	Financial Accounting (Fall)		3 ☐			
MKTG-102	Principles of Marketing (Spring)		3 ☐			
ACCT-102	Managerial Accounting (Spring)	*(ACCT-101)*	3 ☐			
Major Core						
MKTG-115	Fashion Merchandising		3 ☐			

LEVEL II (SECOND YEAR) – 30 credits

		(Prerequisite)	Cr	Sem.	Grade	TR Equiv.
College Studies Courses – 12 credits						
( )	Science II		3 ☐			
SOC-2( )	Social Sciences I	*(WRTG-101, HIST-114)*	3 ☐			
WRTG-2( )	Writing Seminar II	*(WRTG-101, HIST-114)*	3 ☐			
	[WRTG-211 Writing Seminar II for Business recommended]					
( )	Language or Area Studies	*(WRTG-101, HIST-114 for Area Studies only)*	3 ☐			
Business Courses – 18 credits						
STAT-201	Statistics I (Fall)	*(Quantitative Reasoning I)*	3 ☐			
STAT-202	Statistics II (Spring)	*(C or better in STAT-101)*	3 ☐			
ECON-206	Microeconomics		3 ☐			
ECON-205	Macroeconomics		3 ☐			
Major Core						
MKTG-217	Retailing Strategy & Structure	*(MKTG-102)*	3 ☐			
TEXT-101	Survey of the Textile Industry		3 ☐			

LEVEL III (THIRD YEAR)- 30 credits

		(Prerequisite)	Cr	Sem.	Grade	TR Equiv.
College Studies Courses – 12 credits						
( )	Humanities I	*(WRTG-101, HIST-114)*	3 ☐			
( )	Language or Area Studies	*(WRTG-101, HIST-114 for Area Studies only)*	3 ☐			
JSLA/JSINT-3( )	Junior Seminar	*(Soc Sci I and Writing II)*	3 ☐			
JSLA/JSINT-3( )	Junior Seminar	*(Soc Sci I and Writing II)*	3 ☐			
Business Courses – 18 credits						
MGMT-301	Principles of Management (Fall)		3 ☐			
BLAW-301	Business Law I (Fall)		3 ☐			
FINC-301	Financial Management (Fall)		3 ☐			
		(ACCT-101; STAT-201 or Quantitative Reasoning I)				

LEVEL III (THIRD YEAR) - continued		(Prerequisite)	Cr	Sem.	Grade	TR Equiv.
Major Core						
MKTG-207	Consumer Behavior	(MKTG-102)	3 ☐			
MKTG-328	Merchandising Buying/Operations	(MKTG-102, MKTG-217)	3 ☐			
FASHMGT-101	Survey of the Global Apparel Industry	(TEXT-101)	3 ☐			

LEVEL IV (FOURTH YEAR)- 31 credits		(Prerequisite)	Cr	Sem.	Grade	TR Equiv.
College Studies Courses – 7 credits						
ARTS-1( )	Arts & Culture		3 ☐			
COLLST-499	Contemporary Perspectives		4 ☐			
	(Humanities I, one Language/Area Studies, one Junior Seminar)					
Business Courses – 15 credits						
MGMT-401	Operations Management		3 ☐			
	(INFO-101, MGMT-301, MATH-103 or MATH-111; pre- or co-requisite STAT-202 or MATH-111)					
MGMT-491	Textile, Retail & Apparel Policy & Strategy		3 ☐			
	(senior-status, INFO-101, MGMT-301, MKTG-102, FINC-301)					
Major Core						
MKTG-310	Marketing Communications	(MKTG-207)	3 ☐			
MKTG-302	Product Development & Innovation	(MKTG-102, INFO-101)	3 ☐			
DSGNFND-423	Design Concepts for Fashion		3 ☐			
	(MKTG-115, FASHMGT-101, Jr Status)					
Select one of the following options - 9 credits						
(a) Free Electives or Internship						
( )			3 ☐			
( )			3 ☐			
( )			3 ☐			
(b) Pre-MBA (Must be accepted by the MBA Program)						
MBA-625	Management Communications & Negotiations		3 ☐			
MBA-628	Accounting for Management Decisions		3 ☐			
( )			3 ☐			

TOTAL CREDITS: 122-124 credits

Students who wish to do a formal minor (not required for FM majors) will need to use their three free elective courses and add an additional course to satisfy the four-courses (12 credits) required of most minors. Students must formally declare a minor by submitting a form to the Registrar's Office.

Fundamentals Courses: (these courses do **not** count toward graduation requirements)

WRTG-099	Fundamentals of College Writing	*(must earn C or better)*	3			
MATH-099	Fundamentals of College Mathematics	*(must earn C or better)*	3			
READ-099	Fundamentals of College Reading & Study Skills	*(must earn C or better)*	3			

Surplus credits not used toward degree requirements

Please note Philadelphia University residency requirement:

Philadelphia University has a residency requirement of 60 credits for Day Division students. Students must take a minimum of 60 credits – 12 credits must be within the major core; 6 credits must be in College Studies in order to be eligible for a B.S. degree.

This form should be used as a worksheet in conjunction with the catalog and the College Studies "menu" of options. Please refer to the Philadelphia University catalog for questions regarding curriculum and academic policies.

COURSE STATUS: ☑ = course to take next semester ☒ = course currently being taken ■ = course completed

PHILADELPHIA UNIVERSITY
BACHELOR OF SCIENCE: **FINANCE** (2009-2010)

Name _____ ID# _____

LEVEL I (FIRST YEAR) – 31-33 credits

		(Prerequisite)	Cr	Sem.	Grade	TR Equiv.
College Studies Courses – 18-20 credits						
WRTG-101	Writing Seminar I		3 ☐			
HIST-114	Historical Understanding: American Transitions		3 ☐			
( )	Science I		3 ☐			
ARTS-1( )	Arts & Culture		3 ☐			
MATH-1( )	Quantitative Reasoning I (select one, 2-course option below)		3-4 ☐			
( )	Quantitative Reasoning II *or* Free Elective (select below)		3-4 ☐			

Students must receive credit for either Introduction to Calculus or Calculus I. If a student places into, and passes, Intro to Calculus or Calculus I, the student will have an additional Free Elective.

MATH-100 or MATH-101	Finite Mathematics (3cr.)	MATH-102	Pre-calculus (3 cr.)
MATH-103	Introduction to Calculus (3 cr.)	MATH-111	Calculus I (4 cr.)
MATH-102	Pre-calculus (3 cr.)	MATH-111	Calculus I (4 cr.)
MATH-103	Introduction to Calculus (3 cr.)	MATH-112	Calculus II (4 cr.)
MATH-103	Introduction to Calculus (3 cr.)	MATH-111	Calculus I (4 cr.)
( )	Free Elective (3 cr.)	( )	Free Elective (3 cr.)

Physical Education....OR...Community Service – 1 credit (select one, 1 credit option below)

PE-( )	Physical Education (.5 cr)	SERV-101 Community Service (1 cr.)	☐
PE-( )	Physical Education (.5 cr)		☐

Students with 54 or more transfer credits are exempt from this requirement.

Business Courses – 12 credits						
INFO-101	Intro. to Information Systems (Fall)		3 ☐			
ACCT-101	Financial Accounting (Fall)		3 ☐			
MKTG-102	Principles of Marketing (Spring)		3 ☐			
ACCT-102	Managerial Accounting (Spring)	(ACCT-101)	3 ☐			

LEVEL II (SECOND YEAR) – 30 credits

		(Prerequisite)	Cr	Sem.	Grade	TR Equiv.
College Studies Courses – 12 credits						
( )	Science II		3 ☐			
SOC-2( )	Social Sciences I	(WRTG-101, HIST-114)	3 ☐			
WRTG-2( )	Writing Seminar II	(WRTG-101, HIST-114)	3 ☐			
	[WRTG-211 Writing Seminar II for Business recommended]					
( )	Language or Area Studies	(WRTG-101, HIST-114 for Area Studies only)	3 ☐			
Business Courses – 12 credits						
STAT-201	Statistics I (Fall)	(Quantitative Reasoning I)	3 ☐			
STAT-202	Statistics II (Spring)	(C or better in STAT-101)	3 ☐			
ECON-206	Microeconomics		3 ☐			
ECON-205	Macroeconomics		3 ☐			
Free Elective - 6 credits						
( ) _____			3 ☐			
( ) _____			3 ☐			

LEVEL III (THIRD YEAR)- 30 credits

		(Prerequisite)	Cr	Sem.	Grade	TR Equiv.
College Studies Courses – 12 credits						
( )	Humanities I	(WRTG-101, HIST-114)	3 ☐			
( )	Language or Area Studies	(WRTG-101, HIST-114 for Area Studies only)	3 ☐			
JSLA/JSINT-3( )	Junior Seminar	(Soc Sci I and Writing II)	3 ☐			
JSLA/JSINT-3( )	Junior Seminar	(Soc Sci I and Writing II)	3 ☐			
Business Courses – 18 credits						
MGMT-301	Principles of Management (Fall)		3 ☐			
BLAW-301	Business Law I (Fall)		3 ☐			
FINC-301	Financial Management (Fall)		3 ☐			
		(ACCT-101; STAT-201 or Quantitative Reasoning I)				

LEVEL III (THIRD YEAR) - continued		(Prerequisite)	Cr	Sem.	Grade	TR Equiv.
Major Core						
FINC-321	Investment Portfolio Mgmt (Spring)	(FINC-301)	3 ☐			
FINC-322	Capital Markets & Financial Institutions (Fall only)	(FINC-301)	3 ☐			
	....OR....ECON-305 Money, Banking & Monetary Policy	(ECON-205, ECON-206)				
❖ Designated Finance Elective (Select one listed below)						
( )			3 ☐			

LEVEL IV (FOURTH YEAR)- 31 credits		(Prerequisite)	Cr	Sem.	Grade	TR Equiv.
College Studies Courses – 4 credits						
COLLST-499	Contemporary Perspectives		4 ☐			
	(Humanities I, one Language/Area Studies, one Junior Seminar)					
Business Courses – 12 credits						
MGMT-401	Operations Management		3 ☐			
	(INFO-101, MGMT-301, MATH-103 or MATH-111; pre- or co-requisite STAT-202 or MATH-111)					
MGMT-490	Business Policy & Strategy		3 ☐			
	(senior-status, and INFO-101, MGMT-301, MKTG-102, FINC-301)					
Major Core						
FINC-303	Intermediate Financial Mgmt (Fall only)	(INFO-101, FINC-301)	3 ☐			
FINC-411	Finance Seminar (Spring only)		3 ☐			
	(pre- or co-requisites FINC-322 or ECON-305, FINC-303, FINC-321)					
✻ Minor Courses - 12 credits		Minor Chosen				
( )			3 ☐			
( )			3 ☐			
( )			3 ☐			
( )			3 ☐			
Free Elective or Internship - 3 credits						
( )			3 ☐			

TOTAL CREDITS: 122-124 credits

✻ ***Courses in the minor may be taken during the third year, except for pre-MBA. Students must be accepted into this graduate program.***

❖ **Designated Finance Electives**: Select one of the following - FINC-313, FINC-322, FINC-318, FINC-381

Fundamentals Courses: (these courses do **not** count toward graduation requirements)

WRTG-099	Fundamentals of College Writing	(must earn C or better)	3			
MATH-099	Fundamentals of College Mathematics	(must earn C or better)	3			
READ-099	Fundamentals of College Reading & Study Skills	(must earn C or better)	3			

Surplus credits not used toward degree requirements

Please note Philadelphia University residency requirement:

Philadelphia University has a residency requirement of 60 credits for Day Division students. Students must take a minimum of 60 credits – 12 credits must be within the major core; 6 credits must be in College Studies in order to be eligible for a B.S. degree.

This form should be used as a worksheet in conjunction with the catalog and the College Studies "menu" of options. Please refer to the Philadelphia University catalog for questions regarding curriculum and academic policies.

COURSE STATUS: ☑ = course to take next semester ☒ = course currently being taken ■ = course completed

PHILADELPHIA UNIVERSITY

BACHELOR OF SCIENCE: **FINANCE INFORMATION SYSTEMS** (2009-2010)

Name _____ ID# _____

LEVEL I (FIRST YEAR) – 31-33 credits

		(Prerequisite)	Cr	Sem.	Grade	TR Equiv.
College Studies Courses – 18-20 credits						
WRTG-101	Writing Seminar I		3 ❑			
HIST-114	Historical Understanding: American Transitions		3 ❑			
( )	Science I		3 ❑			
ARTS-1( )	Arts & Culture		3 ❑			
MATH-1( )	Quantitative Reasoning I (select one, 2-course option below)		3-4 ❑			
( )	Quantitative Reasoning II *or* Free Elective (select below)		3-4 ❑			

Students must receive credit for either Introduction to Calculus or Calculus I. If a student places into, and passes, Intro to Calculus or Calculus I, the student will have an additional Free Elective.

MATH-100 or MATH-101	Finite Mathematics (3cr.)	MATH-102	Pre-calculus (3 cr.)
MATH-103	Introduction to Calculus (3 cr.)	MATH-111	Calculus I (4 cr.)
MATH-102	Pre-calculus (3 cr.)	MATH-111	Calculus I (4 cr.)
MATH-103	Introduction to Calculus (3 cr.)	MATH-112	Calculus II (4 cr.)
MATH-103	Introduction to Calculus (3 cr.)	MATH-111	Calculus I (4 cr.)
( )	Free Elective (3 cr.)	( )	Free Elective (3 cr.)

Physical Education....OR...Community Service - 1 credit (select one, 1 credit option below)

PE-( )	Physical Education (.5 cr)	SERV-101 Community Service (1 cr.)	❑
PE-( )	Physical Education (.5 cr)		❑

Students with 54 or more transfer credits are exempt from this requirement.

Business Courses – 12 credits						
INFO-101	Intro. to Information Systems (Fall)		3 ❑			
ACCT-101	Financial Accounting (Fall)		3 ❑			
MKTG-102	Principles of Marketing (Spring)		3 ❑			
ACCT-102	Managerial Accounting (Spring)	(ACCT-101)	3 ❑			

LEVEL II (SECOND YEAR) – 30 credits

		(Prerequisite)	Cr	Sem.	Grade	TR Equiv.
College Studies Courses – 12 credits						
( )	Science II		3 ❑			
SOC-2( )	Social Sciences I	(WRTG-101, HIST-114)	3 ❑			
WRTG-2( )	Writing Seminar II	(WRTG-101, HIST-114)	3 ❑			
	[WRTG-211 Writing Seminar II for Business recommended]					
( )	Language or Area Studies	(WRTG-101, HIST-114 for Area Studies only)	3 ❑			
Business Courses – 18 credits						
STAT-201	Statistics I (Fall)	(Quantitative Reasoning I)	3 ❑			
STAT-202	Statistics II (Spring)	(C or better in STAT-101)	3 ❑			
ECON-206	Microeconomics		3 ❑			
ECON-205	Macroeconomics		3 ❑			
Major Core						
MIS-202	Management Information Systems	(INFO-101)	3 ❑			
ACCT-203	Intermediate Accounting I	(ACCT-101)	3 ❑			

LEVEL III (THIRD YEAR)- 30 credits

		(Prerequisite)	Cr	Sem.	Grade	TR Equiv.
College Studies Courses – 12 credits						
( )	Humanities I	(WRTG-101, HIST-114)	3 ❑			
( )	Language or Area Studies	(WRTG-101, HIST-114 for Area Studies only)	3 ❑			
JSLA/JSINT-3( )	Junior Seminar	(Soc Sci I and Writing II)	3 ❑			
JSLA/JSINT-3( )	Junior Seminar	(Soc Sci I and Writing II)	3 ❑			
Business Courses – 18 credits						
MGMT-301	Principles of Management (Fall)		3 ❑			
BLAW-301	Business Law I (Fall)		3 ❑			
FINC-301	Financial Management (Fall)		3 ❑			
		(ACCT-101; STAT-201 or Quantitative Reasoning I)				

LEVEL III (THIRD YEAR) - continued (Prerequisite) Cr Sem. Grade TR Equiv.

Major Core (Select three of the following)
[FINC-303 (Fall only), FINC-321, FINC-322 (Fall only), FINC-XXX Fin. Modeling, MIS-305, MIS-XXX Dec Support Syst]
( ) _____ 3 ☐
( ) _____ 3 ☐
( ) _____ 3 ☐

LEVEL IV (FOURTH YEAR)- 31 credits (Prerequisite) Cr Sem. Grade TR Equiv.

College Studies Courses – 4 credits
COLLST-499 Contemporary Perspectives 4 ☐
(Humanities I, one Language/Area Studies, one Junior Seminar)

Business Courses – 18 credits
MGMT-401 Operations Management 3 ☐
(INFO-101, MGMT-301, MATH-103 or MATH-111; pre- or co-requisite STAT-202 or MATH-111)
MGMT-490 Business Policy & Strategy 3 ☐
(senior-status, and INFO-101, MGMT-301, MKTG-102, FINC-301)

Major Core (Select the remaining three from the following)
[FINC-303 (Fall only), FINC-321, FINC-322 (Fall only), FINC-XXX Fin. Modeling, MIS-305, MIS-XXX Dec Support Syst]
( ) _____ 3 ☐
( ) _____ 3 ☐
( ) _____ 3 ☐

Designated FIS Elective (Select one of the following: ACCT-309, ACCT-316, FINC-318, MIS-301)
( ) _____ 3 ☐

*** Free Electives - 9 credits**
( ) _____ 3 ☐
( ) _____ 3 ☐
( ) _____ 3 ☐

TOTAL CREDITS: 122-124 credits

* Internship(s) highly recommended.

Fundamentals Courses: (these courses do **not** count toward graduation requirements)
WRTG-099 Fundamentals of College Writing *(must earn C or better)* 3
MATH-099 Fundamentals of College Mathematics *(must earn C or better)* 3
READ-099 Fundamentals of College Reading & Study Skills *(must earn C or better)* 3

Surplus credits not used toward degree requirements

Please note Philadelphia University residency requirement:
Philadelphia University has a residency requirement of 60 credits for Day Division students. Students must take a minimum of 60 credits – 12 credits must be within the major core; 6 credits must be in College Studies in order to be eligible for a B.S. degree.

This form should be used as a worksheet in conjunction with the catalog and the College Studies "menu" of options. Please refer to the Philadelphia University catalog for questions regarding curriculum and academic policies.

COURSE STATUS: ☑ = course to take next semester ☒ = course currently being taken ■ = course completed

PHILADELPHIA UNIVERSITY

BACHELOR OF SCIENCE: **INTERNATIONAL BUSINESS** (2009-2010)

Name _____ ID# _____

LEVEL I (FIRST YEAR) – 31-33 credits

			(Prerequisite)	Cr	Sem.	Grade	TR Equiv.
College Studies Courses – 18-20 credits							
	WRTG-101	Writing Seminar I		3 ☐			
	HIST-114	Historical Understanding: American Transitions		3 ☐			
	( )	Science I		3 ☐			
*	( )	Language I (see note on next page for special requirements)		3 ☐			
	MATH-1( )	Quantitative Reasoning I (select one, 2-course option below)		3-4 ☐			
	( )	Quantitative Reasoning II *or* Free Elective (select below)		3-4 ☐			

Students must receive credit for either Introduction to Calculus or Calculus I. If a student places into, and passes, Intro to Calculus or Calculus I, the student will have an additional Free Elective.

MATH-100 or MATH-101	Finite Mathematics (3cr.)	MATH-102	Pre-calculus (3 cr.)
MATH-103	Introduction to Calculus (3 cr.)	MATH-111	Calculus I (4 cr.)
MATH-102	Pre-calculus (3 cr.)	MATH-111	Calculus I (4 cr.)
MATH-103	Introduction to Calculus (3 cr.)	MATH-112	Calculus II (4 cr.)
MATH-103	Introduction to Calculus (3 cr.)	MATH-111	Calculus I (4 cr.)
( )	Free Elective (3 cr.)	( )	Free Elective (3 cr.)

Physical Education....OR...Community Service – 1 credit (select one, 1 credit option below)

PE-( )	Physical Education (.5 cr)	SERV-101 Community Service (1 cr.)	☐
PE-( )	Physical Education (.5 cr)		☐

Students with 54 or more transfer credits are exempt from this requirement.

Business Courses – 12 credits							
	INFO-101	Intro. to Information Systems (Fall)		3 ☐			
	ACCT-101	Financial Accounting (Fall)		3 ☐			
	MKTG-102	Principles of Marketing (Spring)		3 ☐			
	ACCT-102	Managerial Accounting (Spring)	(ACCT-101)	3 ☐			

LEVEL II (SECOND YEAR) – 27 credits

			(Prerequisite)	Cr	Sem.	Grade	TR Equiv.
College Studies Courses – 12 credits							
	( )	Science II		3 ☐			
	SOC-2( )	Social Sciences I	(WRTG-101, HIST-114)	3 ☐			
	WRTG-2( )	Writing Seminar II	(WRTG-101, HIST-114)	3 ☐			
		[WRTG-211 Writing Seminar II for Business recommended]					
*	( )	Language II (see note on next page for special requirements)		3 ☐			
Business Courses – 15 credits							
	STAT-201	Statistics I (Fall)	(Quantitative Reasoning I)	3 ☐			
	STAT-202	Statistics II (Spring)	(C or better in STAT-101)	3 ☐			
	ECON-206	Microeconomics		3 ☐			
	ECON-205	Macroeconomics		3 ☐			
	Major Core						
*	( )	Language III (see note on next page for special requirements)		3 ☐			

LEVEL III (THIRD YEAR)- 30 credits

			(Prerequisite)	Cr	Sem.	Grade	TR Equiv.
College Studies Courses – 9 credits							
	( )	Humanities I	(WRTG-101, HIST-114)	3 ☐			
	JSLA/JSINT-3( )	Junior Seminar	(Soc Sci I and Writing II)	3 ☐			
	JSLA/JSINT-3( )	Junior Seminar	(Soc Sci I and Writing II)	3 ☐			
Business Courses – 21 credits							
	MGMT-301	Principles of Management (Fall)		3 ☐			
	BLAW-301	Business Law I (Fall)		3 ☐			
	FINC-301	Financial Management (Fall)		3 ☐			
			(ACCT-101; STAT-201 or Quantitative Reasoning I)				
	Major Core						
*	( )	Language IV (see note on next page for special requirements)		3 ☐			
*	( )	Language V (see note on next page for special requirements)		3 ☐			

LEVEL III (THIRD YEAR) - continued		(Prerequisite)	Cr	Sem.	Grade	TR Equiv.
MGMT-307	International Management (Fall only)	(MGMT-301)	3	☐		
MKTG-324	International Marketing	(MKTG-102)	3	☐		
SUMMER between THIRD/FOURTH YEAR						
STUAB-300	International Business Study Abroad (See catalog)		4-6	☐		
LEVEL IV (FOURTH YEAR)- 31 credits		(Prerequisite)	Cr	Sem.	Grade	TR Equiv.
College Studies Courses – 7 credits						
ARTS-1( )	Arts & Culture		3	☐		
COLLST-499	Contemporary Perspectives		4	☐		
	(Humanities I, one Language/Area Studies, one Junior Seminar)					
Business Courses – 12 credits						
MGMT-401	Operations Management		3	☐		
	(INFO-101, MGMT-301, MATH-103 or MATH-111; pre- or co-requisite STAT-202 or MATH-111)					
MGMT-490	Business Policy & Strategy		3	☐		
	(senior-status, INFO-101, MGMT-301, MKTG-102, FINC-301)					
Major Core						
FINC-318	International Finance & Development (Fall only)		3	☐		
	(ECON-205, ECON-206, FINC-301)					
ECON-401	International Economics	*(ECON-205, ECON-206)*	3	☐		
Secondary Business Major - 12 credits (Select from the list below)	Name 2nd Major					
( )			3	☐		
( )			3	☐		
( )			3	☐		
( )			3	☐		

TOTAL CREDITS: 123-127 credits

Choose a Secondary Business Major and the appropriate courses (12 credits) from the list below	
Accounting	ACCT-203 (fall only), ACCT-204 Spring only), ACCT-303 (Fall only) are required and one course from the following: ACCT-309 (Fall only), ACCT-316, ACCT-409 (Fall only), or ACCT-412 (Spring only)
Finance	FINC-322 (Fall only) or ECON-305, *and* FINC-303 (Fall only), *and* FINC-321 are required and one course from the following: FINC-313, FINC-333, FINC-411 (Spring only), or ECON-315
Management	Four courses from the following: MGMT-315, MGMT-326, MGMT-331, MGMT-381, MGMT-411, MIS-416, MGMT-418 (Spring only), MGMT-419, BUS-493, MIS 305, MIS-401, PSYCH-230, PSYCH-231
Marketing	MKTG-207, and MKTG-310, and MKTG-391 are required and one course from the following: MKTG-217, MKTG:315, MKTG-318, MKTG-328, MKTG-381, or MKTG-412

* ***Note: I.B. majors must take a combined minimum of five courses (15 credit hours) in a foreign language and area studies. The division of the five courses over the two subjects is determined by the student's language competency and need for further language studies. Students must take the highest level of language for which they are qualified. The equivalent of semester three language proficiency (Intermediate Low of the ACTFL Proficiency standard) in a second language is required prior to attempting to fulfill the study abroad requirement of the International Business major. At least one course, but not more than two, must be in area studies. Six credit hours for this component are already included in the College Studies program under "Language or Area Studies". The area studies must be consistent with the foreign language studies chosen.***

Fundamentals Courses: (these courses do not count toward graduation requirements)

WRTG-099	Fundamentals of College Writing	*(must earn C or better)*	3			
MATH-099	Fundamentals of College Mathematics	*(must earn C or better)*	3			
READ-099	Fundamentals of College Reading & Study Skills	*(must earn C or better)*	3			

Please note Philadelphia University residency requirement:

Philadelphia University has a residency requirement of 60 credits for Day Division students. Students must take a minimum of 60 credits – 12 credits must be within the major core; 6 credits must be in College Studies in order to be eligible for a B.S. degree.

This form should be used as a worksheet in conjunction with the catalog and the College Studies "menu" of options. Please refer to the Philadelphia University catalog for questions regarding curriculum and academic policies.

COURSE STATUS: ☑ = course to take next semester ☒ = course currently being taken ■ = course completed

PHILADELPHIA UNIVERSITY
BACHELOR OF SCIENCE: **MANAGEMENT** (2009-2010)

Name _____ ID# _____

LEVEL I (FIRST YEAR) – 31-33 credits		(Prerequisite)	Cr	Sem.	Grade	TR Equiv.
College Studies Courses – 18-20 credits						
WRTG-101	Writing Seminar I		3 ☐			
HIST-114	Historical Understanding: American Transitions		3 ☐			
( )	Science I		3 ☐			
ARTS-1( )	Arts & Culture		3 ☐			
MATH-1( )	Quantitative Reasoning I (select one, 2-course option below)		3-4 ☐			
( )	Quantitative Reasoning II *or* Free Elective (select below)		3-4 ☐			

Students must receive credit for either Introduction to Calculus or Calculus I. If a student places into, and passes, Intro to Calculus or Calculus I, the student will have an additional Free Elective.

MATH-100 or MATH-101	Finite Mathematics (3cr.)	MATH-102	Pre-calculus (3 cr.)
MATH-103	Introduction to Calculus (3 cr.)	MATH-111	Calculus I (4 cr.)
MATH-102	Pre-calculus (3 cr.)	MATH-111	Calculus I (4 cr.)
MATH-103	Introduction to Calculus (3 cr.)	MATH-112	Calculus II (4 cr.)
MATH-103	Introduction to Calculus (3 cr.)	MATH-111	Calculus I (4 cr.)
( )	Free Elective (3 cr.)	( )	Free Elective (3 cr.)

Physical Education....OR...Community Service - 1 credit (select one, 1 credit option below)

PE-( )	Physical Education (.5 cr)	SERV-101 Community Service (1 cr.)	☐
PE-( )	Physical Education (.5 cr)		☐

Students with 54 or more transfer credits are exempt from this requirement.

Business Courses – 12 credits						
INFO-101	Intro. to Information Systems (Fall)		3 ☐			
ACCT-101	Financial Accounting (Fall)		3 ☐			
MKTG-102	Principles of Marketing (Spring)		3 ☐			
ACCT-102	Managerial Accounting (Spring)	(ACCT-101)	3 ☐			

LEVEL II (SECOND YEAR) – 30 credits		(Prerequisite)	Cr	Sem.	Grade	TR Equiv.
College Studies Courses – 12 credits						
( )	Science II		3 ☐			
SOC-2( )	Social Sciences I	(WRTG-101, HIST-114)	3 ☐			
WRTG-2( )	Writing Seminar II [WRTG-211 Writing Seminar II for Business recommended]	(WRTG-101, HIST-114)	3 ☐			
( )	Language or Area Studies	(WRTG-101, HIST-114 for Area Studies only)	3 ☐			
Business Courses – 15 credits						
STAT-201	Statistics I (Fall)	(Quantitative Reasoning I)	3 ☐			
STAT-202	Statistics II (Spring)	(C or better in STAT-101)	3 ☐			
ECON-206	Microeconomics		3 ☐			
ECON-205	Macroeconomics		3 ☐			
Major Core						
MIS-202	Management Information Systems	(INFO-101)	3 ☐			
Free Elective - 3 credits						
( )	_____		3 ☐			

LEVEL III (THIRD YEAR)- 30 credits		(Prerequisite)	Cr	Sem.	Grade	TR Equiv.
College Studies Courses – 12 credits						
( )	Humanities I	(WRTG-101, HIST-114)	3 ☐			
( )	Language or Area Studies	(WRTG-101, HIST-114 for Area Studies only)	3 ☐			
JSLA/JSINT-3( )	Junior Seminar	(Soc Sci I and Writing II)	3 ☐			
JSLA/JSINT-3( )	Junior Seminar	(Soc Sci I and Writing II)	3 ☐			
Business Courses – 15 credits						
MGMT-301	Principles of Management (Fall)		3 ☐			
BLAW-301	Business Law I (Fall)		3 ☐			
FINC-301	Financial Management (Fall)	(ACCT-101; STAT-201 or Quantitative Reasoning I)	3 ☐			

LEVEL III (THIRD YEAR) - continued		(Prerequisite)	Cr	Sem.	Grade	TR Equiv.
Major Core						
MGMT-310	Organizational Behavior (Spring)	(Junior Status, MGT-301)	3 ☐			
MGMT-320	Human Resource Management (Spring)	(Junior Status, MGT-301)	3 ☐			
* Free Elective or Internship - 3 credits						
( )			3 ☐			

* *Courses in the minor may be taken during the third year, except for pre-MBA. Students must be accepted into this graduate program.*

LEVEL IV (FOURTH YEAR)- 31 credits		(Prerequisite)	Cr	Sem.	Grade	TR Equiv.
College Studies Courses – 4 credits						
COLLST-499	Contemporary Perspectives (Humanities I, one Language/Area Studies, one Junior Seminar)		4 ☐			
Business Courses – 12 credits						
MGMT-401	Operations Management (INFO-101, MGMT-301, MATH-103 or MATH-111; pre- or co-requisite STAT-202 or MATH-111)		3 ☐			
MGMT-490	Business Policy & Strategy (senior-status, INFO-101, MGMT-301, MKTG-102, FINC-301)		3 ☐			
Major Core						
MGMT-412	Management Seminar (Spring only)	(pre or co-requisite MIS-202)	3 ☐			
MGMT-411	Entrepreneurship	(MGMT-301, MKTG-102)	3 ☐			
....OR.....MKTG-408	Survey of E-Commerce					
* Minor Courses - 12 credits		Minor Chosen				
( )	Minor		3 ☐			
( )	Minor		3 ☐			
( )	Minor		3 ☐			
( )	Minor		3 ☐			
Free Elective or Internship - 3 credits						
( )			3 ☐			

TOTAL CREDITS: 122-124 credits

Fundamentals Courses: (these courses do **not** count toward graduation requirements)

WRTG-099	Fundamentals of College Writing	(must earn C or better)	3			
MATH-099	Fundamentals of College Mathematics	(must earn C or better)	3			
READ-099	Fundamentals of College Reading & Study Skills	(must earn C or better)	3			

Surplus credits not used toward degree requirements

Please note Philadelphia University residency requirement:

Philadelphia University has a residency requirement of 60 credits for Day Division students. Students must take a minimum of 60 credits – 12 credits must be within the major core; 6 credits must be in College Studies in order to be eligible for a B.S. degree.

This form should be used as a worksheet in conjunction with the catalog and the College Studies "menu" of options. Please refer to the Philadelphia University catalog for questions regarding curriculum and academic policies.

COURSE STATUS: ☑ = course to take next semester ☒ = course currently being taken ■ = course completed

PHILADELPHIA UNIVERSITY

BACHELOR OF SCIENCE: **MANAGEMENT INFORMATION SYSTEMS** (2009-2010)

Name _____ ID# _____

LEVEL I (FIRST YEAR) – 31-33 credits

		(Prerequisite)	Cr	Sem.	Grade	TR Equiv.
College Studies Courses – 18-20 credits						
WRTG-101	Writing Seminar I		3 ☐			
HIST-114	Historical Understanding: American Transitions		3 ☐			
( )	Science I		3 ☐			
ARTS-1( )	Arts & Culture		3 ☐			
MATH-1( )	Quantitative Reasoning I (select one, 2-course option below)		3-4 ☐			
( )	Quantitative Reasoning II *or* Free Elective (select below)		3-4 ☐			

Students must receive credit for either Introduction to Calculus or Calculus I. If a student places into, and passes, Intro to Calculus or Calculus I, the student will have an additional Free Elective.

MATH-100 or MATH-101	Finite Mathematics (3cr.)	MATH-102	Pre-calculus (3 cr.)
MATH-103	Introduction to Calculus (3 cr.)	MATH-111	Calculus I (4 cr.)
MATH-102	Pre-calculus (3 cr.)	MATH-111	Calculus I (4 cr.)
MATH-103	Introduction to Calculus (3 cr.)	MATH-112	Calculus II (4 cr.)
MATH-103	Introduction to Calculus (3 cr.)	MATH-111	Calculus I (4 cr.)
( )	Free Elective (3 cr.)	( )	Free Elective (3 cr.)

Physical Education....OR...Community Service – 1 credit (select one, 1 credit option below)

PE-( )	Physical Education (.5 cr)	SERV-101 Community Service (1 cr.)	☐
PE-( )	Physical Education (.5 cr)		☐

Students with 54 or more transfer credits are exempt from this requirement.

Business Courses – 12 credits						
INFO-101	Intro. to Information Systems (Fall)		3 ☐			
ACCT-101	Financial Accounting (Fall)		3 ☐			
MKTG-102	Principles of Marketing (Spring)		3 ☐			
ACCT-102	Managerial Accounting (Spring)	(ACCT-101)	3 ☐			

LEVEL II (SECOND YEAR) – 30 credits

		(Prerequisite)	Cr	Sem.	Grade	TR Equiv.
College Studies Courses – 12 credits						
( )	Science II		3 ☐			
SOC-2( )	Social Sciences I	(WRTG-101, HIST-114)	3 ☐			
WRTG-2( )	Writing Seminar II	(WRTG-101, HIST-114)	3 ☐			
	[WRTG-211 Writing Seminar II for Business recommended]					
( )	Language or Area Studies	(WRTG-101, HIST-114 for Area Studies only)	3 ☐			
Business Courses – 18 credits						
STAT-201	Statistics I (Fall)	(Quantitative Reasoning I)	3 ☐			
STAT-202	Statistics II (Spring)	(C or better in STAT-101)	3 ☐			
ECON-206	Microeconomics		3 ☐			
ECON-205	Macroeconomics		3 ☐			
Major Core						
MIS-202	Management Information Systems	(INFO-101)	3 ☐			
MIS-207	Programming for Problem Solving	(INFO-101)	3 ☐			

LEVEL III (THIRD YEAR)- 30 credits

		(Prerequisite)	Cr	Sem.	Grade	TR Equiv.
College Studies Courses – 12 credits						
( )	Humanities I	(WRTG-101, HIST-114)	3 ☐			
( )	Language or Area Studies	(WRTG-101, HIST-114 for Area Studies only)	3 ☐			
JSLA/JSINT-3( )	Junior Seminar	(Soc Sci I and Writing II)	3 ☐			
JSLA/JSINT-3( )	Junior Seminar	(Soc Sci I and Writing II)	3 ☐			
Business Courses – 15 credits						
MGMT-301	Principles of Management (Fall)		3 ☐			
BLAW-301	Business Law I (Fall)		3 ☐			
FINC-301	Financial Management (Fall)	(ACCT-101; STAT-201 or Quantitative Reasoning I)	3 ☐			

LEVEL III (THIRD YEAR) - continued

		(Prerequisite)	Cr	Sem.	Grade	TR Equiv.

Major Core

MIS-305	Database Analysis, Design & Mgmt	*(MIS-202, MIS-207)*	3 ☐				
MIS-302	Information Systems Design	*(MATH-103 or more advanced)*	3 ☐				

*** Free Elective or Internship - 3 credits**

( ) _____ 3 ☐

LEVEL IV (FOURTH YEAR)- 31 credits

		(Prerequisite)	Cr	Sem.	Grade	TR Equiv.

College Studies Courses – 4 credits

COLLST-499	Contemporary Perspectives *(Humanities I, one Language/Area Studies, one Junior Seminar)*		4 ☐			

Business Courses – 15 credits

MGMT-401	Operations Management *(INFO-101, MGMT-301, MATH-103 or MATH-111; pre- or co-requisite STAT-202 or MATH-111)*		3 ☐			
MGMT-490	Business Policy & Strategy *(senior-status, INFO-101, MGMT-301, MKTG-102, FINC-301)*		3 ☐			

Major Core

MIS-401	Computer Networking	*(Junior Status)*	3 ☐			
MIS-407	Project Engineering	*(MATH-103 or more advanced)*	3 ☐			
MIS-404	Data Analysis for Decision Making	*(MIS-207, MIS-305)*	3 ☐			

*** Minor Courses or Free Electives - 12 credits** Minor Chosen _____

( )	Minor or Elective	3 ☐			
( )	Minor or Elective	3 ☐			
( )	Minor or Elective	3 ☐			
( )	Minor or Elective	3 ☐			

TOTAL CREDITS: 122-124 credits

**** Student who want advanced computer courses should begin in their third year, noting the prerequisites for each.***

**** Courses in the minor may be taken during the third year, except for pre-MBA. Students must be accepted into this graduate program.***

Fundamentals Courses: (these courses do **not** count toward graduation requirements)

WRTG-099	Fundamentals of College Writing	*(must earn C or better)*	3			
MATH-099	Fundamentals of College Mathematics	*(must earn C or better)*	3			
READ-099	Fundamentals of College Reading & Study Skills	*(must earn C or better)*	3			

Surplus credits not used toward degree requirements

Please note Philadelphia University residency requirement:

Philadelphia University has a residency requirement of 60 credits for Day Division students. Students must take a minimum of 60 credits – 12 credits must be within the major core; 6 credits must be in College Studies in order to be eligible for a B.S. degree.

This form should be used as a worksheet in conjunction with the catalog and the College Studies "menu" of options. Please refer to the Philadelphia University catalog for questions regarding curriculum and academic policies.

COURSE STATUS: ☑ = course to take next semester ☒ = course currently being taken ■ = course completed

PHILADELPHIA UNIVERSITY
BACHELOR OF SCIENCE: **MARKETING** (2009-2010)

Name _____ ID# _____

LEVEL I (FIRST YEAR) – 31-33 credits	(Prerequisite)	Cr	Sem.	Grade	TR Equiv.
College Studies Courses – 18-20 credits					
WRTG-101 Writing Seminar I		3 ☐			
HIST-114 Historical Understanding: American Transitions		3 ☐			
( ) Science I		3 ☐			
ARTS-1( ) Arts & Culture		3 ☐			
MATH-1( ) Quantitative Reasoning I (select one, 2-course option below)		3-4 ☐			
( ) Quantitative Reasoning II *or* Free Elective (select below)		3-4 ☐			

Students must receive credit for either Introduction to Calculus or Calculus I. If a student places into, and passes, Intro to Calculus or Calculus I, the student will have an additional Free Elective.

MATH-100 or MATH-101	Finite Mathematics (3cr.)	MATH-102	Pre-calculus (3 cr.)
MATH-103	Introduction to Calculus (3 cr.)	MATH-111	Calculus I (4 cr.)
MATH-102	Pre-calculus (3 cr.)	MATH-111	Calculus I (4 cr.)
MATH-103	Introduction to Calculus (3 cr.)	MATH-112	Calculus II (4 cr.)
MATH-103	Introduction to Calculus (3 cr.)	MATH-111	Calculus I (4 cr.)
( )	Free Elective (3 cr.)	( )	Free Elective (3 cr.)

Physical Education....OR...Community Service – 1 credit (select one, 1 credit option below)

PE-( )	Physical Education (.5 cr)	SERV-101 Community Service (1 cr.)	☐
PE-( )	Physical Education (.5 cr)		☐

Students with 54 or more transfer credits are exempt from this requirement.

Business Courses – 12 credits

INFO-101	Intro. to Information Systems (Fall)		3 ☐		
ACCT-101	Financial Accounting (Fall)		3 ☐		
MKTG-102	Principles of Marketing (Spring)		3 ☐		
ACCT-102	Managerial Accounting (Spring)	*(ACCT-101)*	3 ☐		

LEVEL II (SECOND YEAR) – 30 credits	(Prerequisite)	Cr	Sem.	Grade	TR Equiv.
College Studies Courses – 12 credits					
( ) Science II		3 ☐			
SOC-2( ) Social Sciences I	*(WRTG-101, HIST-114)*	3 ☐			
WRTG-2( ) Writing Seminar II	*(WRTG-101, HIST-114)*	3 ☐			
[WRTG-211 Writing Seminar II for Business recommended]					
( ) Language or Area Studies	*(WRTG-101, HIST-114 for Area Studies only)*	3 ☐			
Business Courses – 15 credits					
STAT-201 Statistics I (Fall)	*(Quantitative Reasoning I)*	3 ☐			
STAT-202 Statistics II (Spring)	*(C or better in STAT-101)*	3 ☐			
ECON-206 Microeconomics		3 ☐			
ECON-205 Macroeconomics		3 ☐			
Major Core					
MKTG-207 Consumer Behavior	*(MKTG-102)*	3 ☐			
Free Elective – 3 credits					
( ) _____		3 ☐			

LEVEL III (THIRD YEAR)– 30 credits	(Prerequisite)	Cr	Sem.	Grade	TR Equiv.
College Studies Courses – 12 credits					
( ) Humanities I	*(WRTG-101, HIST-114)*	3 ☐			
( ) Language or Area Studies	*(WRTG-101, HIST-114 for Area Studies only)*	3 ☐			
JSLA/JSINT-3( ) Junior Seminar	*(Soc Sci I and Writing II)*	3 ☐			
JSLA/JSINT-3( ) Junior Seminar	*(Soc Sci I and Writing II)*	3 ☐			
Business Courses – 15 credits					
MGMT-301 Principles of Management (Fall)		3 ☐			
BLAW-301 Business Law I (Fall)		3 ☐			
FINC-301 Financial Management (Fall)		3 ☐			
	(ACCT-101; STAT-201 or Quantitative Reasoning I)				

LEVEL III (THIRD YEAR) - continued		(Prerequisite)	Cr	Sem.	Grade	TR Equiv.
Major Core						
MKTG-310	Marketing Communications	(MKTG-207)	3 ☐			
( )	Adv Marketing Elective	(MKTG-207)	3 ☐			
	[Select from the following: MKTG-315, MKTG-217, MKTG-318, MKTG-324, MKTG-328, MKTG-381]					
* Free Elective or Internship - 3 credits						
( )			3 ☐			

LEVEL IV (FOURTH YEAR)- 31 credits		(Prerequisite)	Cr	Sem.	Grade	TR Equiv.
College Studies Courses – 4 credits						
COLLST-499	Contemporary Perspectives		4 ☐			
	(Humanities I, one Language/Area Studies, one Junior Seminar)					
Business Courses – 12 credits						
MGMT-401	Operations Management		3 ☐			
	(INFO-101, MGMT-301, MATH-103 or MATH-111; pre- or co-requisite STAT-202 or MATH-111)					
MGMT-490	Business Policy & Strategy		3 ☐			
	(senior-status, INFO-101, MGMT-301, MKTG-102, FINC-301)					
Major Core						
MKTG-391	Marketing Research		3 ☐			
	(MKTG-102, MKTG-207, and pre or co-requisite STAT-202)					
MKTG-412	Marketing Strategy Seminar		3 ☐			
	(senior status, and pre or co-requisites MKTG-207, MKTG-310, MKTG-391)					
* Minor Courses - 12 credits	Minor Chosen					
( )	Minor		3 ☐			
( )	Minor		3 ☐			
( )	Minor		3 ☐			
( )	Minor		3 ☐			
Free Elective or Internship - 3 credits						
( )			3 ☐			

TOTAL CREDITS: 122-124 credits

* *Courses in the minor may be taken during the third year, except for pre-MBA. Students must be accepted into this graduate program.*

Fundamentals Courses: (these courses do **not** count toward graduation requirements)

WRTG-099	Fundamentals of College Writing	*(must earn C or better)*	3			
MATH-099	Fundamentals of College Mathematics	*(must earn C or better)*	3			
READ-099	Fundamentals of College Reading & Study Skills	*(must earn C or better)*	3			

Surplus credits not used toward degree requirements

Please note Philadelphia University residency requirement:

Philadelphia University has a residency requirement of 60 credits for Day Division students. Students must take a minimum of 60 credits – 12 credits must be within the major core; 6 credits must be in College Studies in order to be eligible for a B.S. degree.

This form should be used as a worksheet in conjunction with the catalog and the College Studies "menu" of options. Please refer to the Philadelphia University catalog for questions regarding curriculum and academic policies.

COURSE STATUS: ☑ = course to take next semester ☒ = course currently being taken ■ = course completed

PHILADELPHIA UNIVERSITY

JOINT B.S. BUSINESS / M.B.A. (2009-2010)

5- Year Program

Name _____ ID# _____

LEVEL I (FIRST YEAR) – 31-33 credits

		(Prerequisite)	Cr	Sem.	Grade	TR Equiv.
College Studies Courses – 18-20 credits						
WRTG-101	Writing Seminar I		3 ☐			
HIST-114	Historical Understanding: American Transitions		3 ☐			
( )	Science I		3 ☐			
ARTS-1( )	Arts & Culture		3 ☐			
MATH-1( )	Quantitative Reasoning I (select one, 2-course option below)		3-4 ☐			
( )	Quantitative Reasoning II *or* Free Elective (select below)		3-4 ☐			

Students must receive credit for either Introduction to Calculus or Calculus I. If a student places into, and passes, Intro to Calculus or Calculus I, the student will have an additional Free Elective.

MATH-100 or MATH-101	Finite Mathematics (3cr.)	MATH-102	Pre-calculus (3 cr.)
MATH-103	Introduction to Calculus (3 cr.)	MATH-111	Calculus I (4 cr.)
MATH-102	Pre-calculus (3 cr.)	MATH-111	Calculus I (4 cr.)
MATH-103	Introduction to Calculus (3 cr.)	MATH-112	Calculus II (4 cr.)
MATH-103	Introduction to Calculus (3 cr.)	MATH-111	Calculus I (4 cr.)
( )	Free Elective (3 cr.)	( )	Free Elective (3 cr.)

Physical Education....OR...Community Service - 1 credit (select one, 1 credit option below)

PE-( )	Physical Education (.5 cr)	SERV-101 Community Service (1 cr.)	☐
PE-( )	Physical Education (.5 cr)		☐

Students with 54 or more transfer credits are exempt from this requirement.

Business Courses – 12 credits						
INFO-101	Intro. to Information Systems (Fall)		3 ☐			
ACCT-101	Financial Accounting (Fall)		3 ☐			
MKTG-102	Principles of Marketing (Spring)		3 ☐			
ACCT-102	Managerial Accounting (Spring)	*(ACCT-101)*	3 ☐			

LEVEL II (SECOND YEAR) – 30 credits

		(Prerequisite)	Cr	Sem.	Grade	TR Equiv.
College Studies Courses – 12 credits						
( )	Science II		3 ☐			
SOC-2( )	Social Sciences I	*(WRTG-101, HIST-114)*	3 ☐			
WRTG-2( )	Writing Seminar II	*(WRTG-101, HIST-114)*	3 ☐			
	[WRTG-211 Writing Seminar II for Business recommended]					
( )	Language or Area Studies		3 ☐			
		(WRTG-101, HIST-114 for Area Studies only)				
Business Courses – 18 credits						
STAT-201	Statistics I (Fall)	*(Quantitative Reasoning I)*	3 ☐			
STAT-202	Statistics II (Spring)	*(C or better in STAT-101)*	3 ☐			
ECON-206	Microeconomics		3 ☐			
ECON-205	Macroeconomics		3 ☐			
MGMT-301	Principles of Management		3 ☐			
BLAW-301	Business Law I		3 ☐			

LEVEL III (THIRD YEAR)- 30 credits

		(Prerequisite)	Cr	Sem.	Grade	TR Equiv.
College Studies Courses – 12 credits						
( )	Humanities I	*(WRTG-101, HIST-114)*	3 ☐			
( )	Language or Area Studies		3 ☐			
		(WRTG-101, HIST-114 for Area Studies only)				
JSLA/JSINT-3( )	Junior Seminar	*(Soc Sci I and Writing II)*	3 ☐			
JSLA/JSINT-3( )	Junior Seminar	*(Soc Sci I and Writing II)*	3 ☐			

LEVEL III (THIRD YEAR) - continued		(Prerequisite)	Cr	Sem.	Grade	TR Equiv.
Business Courses – 12 credits						
FINC-301	Financial Management	(ACCT-101; STAT-201 or Quantitative Reasoning I)	3 ☐			
Major Core						
( )			3 ☐			
( )			3 ☐			
( )			3 ☐			
Free Electives - 6 credits (undergraduate)						
( )			3 ☐			
( )			3 ☐			

LEVEL IV (FOURTH YEAR)- 31 credits		(Prerequisite)	Cr	Sem.	Grade	TR Equiv.
College Studies Courses – 4 credits						
COLLST-499	Contemporary Perspectives (Humanities I, one Language/Area Studies, one Junior Seminar)		4 ☐			
Business Courses – 12 credits						
MGMT-401	Operations Management (INFO-101, MGMT-301, MATH-103 or MATH-111; pre- or co-requisite STAT-202 or MATH-111)		3 ☐			
MGMT-490	Business Policy & Strategy (senior-status, INFO-101, MGMT-301, MKTG-102, FINC-301)		3 ☐			
Major Core						
( )			3 ☐			
( )			3 ☐			
Pre-MBA Minor - 12 credits						
* MBA-625	Mgmt Comm & Negotiations	(all MBF courses) or equivalent	3 ☐			
* MBA-628	Accounting for Mgmt Decisions (Spring)	(all MBF courses) or equivalent	3 ☐			
( )	Business Elective (undergraduate)		3 ☐			
( )	Business Elective (undergraduate)		3 ☐			
Free Elective or Internship - 3 credits						
( )			3 ☐			

B.S. DEGREE TOTAL CREDITS: 122-124 credits

LEVEL V (FIFTH YEAR) - 27 credits		(Prerequisite)	Cr	Sem.	Grade	TR Equiv.
* MBA-626	Global Managing in the 21st Century (Fall)		3 ☐			
* MBA-627	Management of Information Through Technology (Fall)		3 ☐			
* MBA-629	Financial Policy & Planning (Spring)		3 ☐			
* MBA-630	Quantitative Methods in Decisions (Fall)		3 ☐			
* MBA-632	Strategic Marketing Management (Fall)		3 ☐			
* MBA-642	Strategic Planning in a Global Environment (Spring)		3 ☐			
* MBA-792	International Business Trip (Spring)		3 ☐			
Free Electives or Internships - 6 credits (Approved by Academic Advisor and Program Director)						
* MBA-( )			3 ☐			
* MBA-( )			3 ☐			

JOINT B.S./M.B.A. TOTAL CREDITS: 149-151 credits

* Courses that contribute to the M.B.A. Degree

Fundamentals Courses: (these courses do **not** count toward graduation requirements)

WRTG-099	Fundamentals of College Writing	(must earn C or better)	3			
MATH-099	Fundamentals of College Mathematics	(must earn C or better)	3			
READ-099	Fundamentals of College Reading & Study Skills	(must earn C or better)	3			

Please note Philadelphia University residency requirement:

Philadelphia University has a residency requirement of 60 credits for Day Division students. Students must take a minimum of 60 credits – 12 credits must be within the major core; 6 credits must be in College Studies in order to be eligible for a B.S. degree.

COURSE STATUS: ☑ = course to take next semester ☒ = course currently being taken ■ = course completed

PHILADELPHIA UNIVERSITY

BACHELOR OF SCIENCE: **DIGITAL ANIMATION** (2009-2010)

Name _____ ID# _____

LEVEL I (FIRST YEAR) – 31-33 credits	(Prerequisite)	Cr	Sem.	Grade	TR Equiv.
College Studies Courses – 18-20 credits					
WRTG-101 Writing Seminar I		3 ☐			
HIST-114 Historical Understanding: American Transitions		3 ☐			
( ) Science I		3 ☐			
ARTH-101..... Arts & Culture: History of Western Art I		3 ☐			
.....*OR*....ARTH-102 History of Western Art II					
MATH-1( ) Quantitative Reasoning I (select one, 2-course option below)		3-4 ☐			
( ) Quantitative Reasoning II *or* Free Elective (select below)		3-4 ☐			

Students must receive credit for either Introduction to Calculus or Calculus I. If a student places into, and passes, Intro to Calculus or Calculus I, the student will have an additional Free Elective.

MATH-100 or MATH-101	Finite Mathematics (3cr.)	MATH-102	Pre-calculus (3 cr.)
MATH-103	Introduction to Calculus (3 cr.)	MATH-111	Calculus I (4 cr.)
MATH-102	Pre-calculus (3 cr.)	MATH-111	Calculus I (4 cr.)
MATH-103	Introduction to Calculus (3 cr.)	MATH-112	Calculus II (4 cr.)
MATH-103	Introduction to Calculus (3 cr.)	MATH-111	Calculus I (4 cr.)
( )	Free Elective (3 cr.)	( )	Free Elective (3 cr.)

Physical Education....OR...Community Service - 1 credit (select one, 1 credit option below)

PE-( )	Physical Education (.5 cr)	SERV-101 Community Service (1 cr.)	☐
PE-( )	Physical Education (.5 cr)		☐

Students with 54 or more transfer credits are exempt from this requirement.

Major Courses – 12 credits

DSGNFND-103	Design Foundations I (Fall)		3 ☐		
DRAW-101	Drawing I (Fall)		3 ☐		
DSGNFND-203	Design Foundations II (Spring)	*(DSGNFND-103)*	3 ☐		
Designated Animation Elective: Select one, 3-credit course from the following - DRAW-201, DRAW-206, ADFND-104					
( )			3 ☐		

LEVEL II (SECOND YEAR) – 32 credits	(Prerequisite)	Cr	Sem.	Grade	TR Equiv.
College Studies Courses – 12 credits					
( ) Science II		3 ☐			
SOC-2( ) Social Sciences I	*(WRTG-101, HIST-114)*	3 ☐			
WRTG-2( ) Writing Seminar II	*(WRTG-101, HIST-114)*	3 ☐			
[WRTG-215 Writing Seminar II for Design recommended]					
( ) Language or Area Studies	*(WRTG-101, HIST-114 for Area Studies only)*	3 ☐			
Major Courses – 17 credits					
GRAPH-201 Design III for Graphic Design (Fall only)	*(C or better in DSGNFND-203)*	4 ☐			
ANIM-201 Introduction to Animation (Fall)	*(DSGNFND-203)*	3 ☐			
GRAPH-202 Design IV for Graphic Design (Spring only)	*(C or better in GRAPH-201)*	4 ☐			
INDD-324 History of Design & Comm (Spring)		3 ☐			
Digital Animation Core					
ANIM-202 Storytelling & Storyboarding (Spring)	*(ANIM-201)*	3 ☐			
Business Core - 3 credits					
MKTG-102 Principles of Marketing (Fall)		3 ☐			

LEVEL III (THIRD YEAR)- 34 credits	(Prerequisite)	Cr	Sem.	Grade	TR Equiv.
College Studies Courses – 12 credits					
( ) Humanities I	(WRTG-101, HIST-114)	3 ☐			
JSLA/JSINT-3( ) Junior Seminar	(Soc Sci I and Writing II)	3 ☐			
JSLA/JSINT-3( ) Junior Seminar	(Soc Sci I and Writing II)	3 ☐			
( ) Language or Area Studies	(WRTG-101, HIST-114 for Area Studies only)	3 ☐			
Major Courses – 22 credits					
Digital Animation Core					
ANIM-301 Motion Graphics I (Fall)	(ANIM-202)	5 ☐			
ANIM-307 3D Modeling Fall)	(ANIM-202)	3 ☐			
ANIM-312 Motion Graphics II (Spring)	(ANIM-301, ANIM-307)	3 ☐			
ANIM-308 3D Animation (Spring)	(ANIM-307)	5 ☐			
Designated Digital Animation Electives (select two designated electives; consult with advisor)					
( ) _____	(ANIM-202)	3 ☐			
( ) _____	(ANIM-202)	3 ☐			

LEVEL VI (FOURTH YEAR) - 32 credits	(Prerequisite)	Cr	Sem.	Grade	TR Equiv.
College Studies Courses – 4 credits					
COLLST-499 Contemporary Perspectives *(Humanities I, one Language/Area Studies, one Junior Seminar)*		4 ☐			
Major Courses – 19 credits					
Digital Animation Core					
ANIM-497 Digital Animation Capstone Prep (Fall)	(ANIM-308, ANIM-312)	3 ☐			
ANIM-407 Adv. Topics in 3D Animation (Fall)	(ANIM-308)	5 ☐			
ANIM-498 Digital Animation Capstone Proj (Spring)	(ANIM-407, ANIM-497)	5 ☐			
Designated Digital Animation Electives (select three designated electives; consult with advisor)					
( ) _____	(ANIM-202)	3 ☐			
( ) _____	(ANIM-202)	3 ☐			
Business Core - 3 credits					
MKTG-315 Marketing in Electronic Env. (Fall)	(MKTG-102)	3 ☐			
Free Electives - 6 credits					
( ) _____		3 ☐			
( ) _____		3 ☐			

TOTAL CREDITS: 129-131 credits

Fundamentals Courses: (these courses do **not** count toward graduation requirements)

WRTG-099 Fundamentals of College Writing	(must earn C or better)	3			
MATH-099 Fundamentals of College Mathematics	(must earn C or better)	3			
READ-099 Fundamentals of College Reading & Study Skills	(must earn C or better)	3			

Surplus credits not used toward degree requirements

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Please note Philadelphia University residency requirement:

Philadelphia University has a residency requirement of 60 credits for Day Division students. Students must take a minimum of 60 credits – 12 credits must be within the major core; 6 credits must be in College Studies in order to be eligible for a B.S. degree.

This form should be used as a worksheet in conjunction with the catalog and the College Studies "menu" of options. Please refer to the Philadelphia University catalog for questions regarding curriculum and academic policies.

COURSE STATUS: ☑ = course to take next semester ☒ = course currently being taken ■ = course completed

PHILADELPHIA UNIVERSITY
BACHELOR OF SCIENCE: **DIGITAL DESIGN** (2009-2010)

Name _____ ID# _____

LEVEL I (FIRST YEAR) – 31-33 credits		(Prerequisite)	Cr	Sem.	Grade	TR Equiv.
College Studies Courses – 18-20 credits						
WRTG-101	Writing Seminar I		3 ☐			
HIST-114	Historical Understanding: American Transitions		3 ☐			
( )	Science I		3 ☐			
ARTS-1( )	Arts & Culture (excluding Idea & /Images)		3 ☐			
MATH-1( )	Quantitative Reasoning I (select one, 2-course option below)		3-4 ☐			
( )	Quantitative Reasoning II *or* Free Elective (select below)		3-4 ☐			

Students must receive credit for either Introduction to Calculus or Calculus I. If a student places into, and passes, Intro to Calculus or Calculus I, the student will have an additional Free Elective.

MATH-100 or MATH-101	Finite Mathematics (3cr.)	MATH-102	Pre-calculus (3 cr.)
MATH-103	Introduction to Calculus (3 cr.)	MATH-111	Calculus I (4 cr.)
MATH-102	Pre-calculus (3 cr.)	MATH-111	Calculus I (4 cr.)
MATH-103	Introduction to Calculus (3 cr.)	MATH-112	Calculus II (4 cr.)
MATH-103	Introduction to Calculus (3 cr.)	MATH-111	Calculus I (4 cr.)
( )	Free Elective (3 cr.)	( )	Free Elective (3 cr.)

Physical Education....OR...Community Service - 1 credit (select one, 1 credit option below)

PE-( )	Physical Education (.5 cr)	SERV-101 Community Service (1 cr.)	☐
PE-( )	Physical Education (.5 cr)		☐

Students with 54 or more transfer credits are exempt from this requirement.

Major Courses – 12 credits

DSGNFND-103	Design Foundations I (Fall)		3 ☐			
DSGNFND-203	Design Foundations II (Spring)	(DSGNFND-103)	3 ☐			
DRAW-101	Drawing I (Fall)		3 ☐			
Designated DD Elective: Select one, 3-credit course from the following - DRAW-201, DRAW-206, ADFND-104						
( )			3 ☐			

LEVEL II (SECOND YEAR) – 32 credits		(Prerequisite)	Cr	Sem.	Grade	TR Equiv.
College Studies Courses – 12 credits						
( )	Science II		3 ☐			
SOC-2( )	Social Sciences I	(WRTG-101, HIST-114)	3 ☐			
WRTG-2( )	Writing Seminar II [WRTG-215 Writing Seminar II for Design recommended]	(WRTG-101, HIST-114)	3 ☐			
( )	Language or Area Studies	(WRTG-101, HIST-114 for Area Studies only)	3 ☐			
Major Courses – 14 credits						
GRAPH-201	Design III for Graphic Design (Fall only)	(DSGNFND-203 *)	4 ☐			
GRAPH-202	Design IV for Graphic Design (Spring only)	(GRAPH-201*)	4 ☐			
INDD-324	Hist of Design & Communications (Fall)		3 ☐			
Digital Design Core						
DIGD-206	Electronic Imaging (Spring)	(ADFND-102 or DSGNFND-203)	3 ☐			
Business Core - 6 credits						
MKTG-102	Principles of Marketing (Fall)		3 ☐			
MKTG-408	Survey of E-Commerce (Fall)		3 ☐			

*** A grade of "C" or better is required in these prerequisites.**

LEVEL III (THIRD YEAR)- 34 credits

(Prerequisite) Cr Sem. Grade TR Equiv.

College Studies Courses – 12 credits

( ) Humanities I (WRTG-101, HIST-114) 3 ☐

JSLA/JSINT-3( ) Junior Seminar (Soc Sci I and Writing II) 3 ☐

JSLA/JSINT-3( ) Junior Seminar (Soc Sci I and Writing II) 3 ☐

( ) Language or Area Studies (WRTG-101, HIST-114 for Area Studies only) 3 ☐

Major Courses – 19 credits

Digital Design Core

DIGD-301 Digital Design I (Fall only) 5 ☐
(GRAPH-202 or ARCH-202 , admission to DD Program)

DIGD-302 Digital Design II (Spring only) (DIGD-301) 5 ☐

DIGD-305 Theory of Electronic Comm. Sem. (Fall) (admission to DD Program) 3 ☐

Designated Multimedia Electives

Select two, 3-credit course from the following - DIGD-307, DIGD-310, DIGD-312, DIGD-405, DIGD-415, GRAPH-341

( ) _____ (Fall) (DIGD-206) 3 ☐

( ) _____ (Spring) (DIGD-206) 3 ☐

Free Electives - 3 credits

( ) _____ 3 ☐

LEVEL IV (FOURTH YEAR) - 32 credits

(Prerequisite) Cr Sem. Grade TR Equiv.

College Studies Courses – 4 credits

COLLST-499 Contemporary Perspectives 4 ☐
(Humanities I, one Language/Area Studies, one Junior Seminar)

Major Courses – 22 credits

Digital Design Core

DIGD-401 Digital Design III (Fall only) (DIGD-302) 5 ☐

DIGD-498 Capstone Project Preparation (Fall only) (DIGD-302) 3 ☐

DIGD-499 Digital Design IV: Capstone (Spring only) (DIGD-401 or DIGD-498) 5 ☐

DIGD-403 Web Production (Fall) (DIGD-301 or DIGD-307) 3 ☐

DIGD-406 Multi-media Production (Spring) (DIGD-403) 3 ☐

Designated Multimedia Elective

Select one more 3-credit course from the following - DIGD-307, DIGD-310, DIGD-312, DIGD-405, DIGD-415, DIGD-341

( ) _____ (DIGD-206*) 3 ☐

Business Core - 3 credits

MKTG-315 Marketing in Electronic Env. (Fall) (MKTG-102) 3 ☐

Free Elective - 3 credits

( ) _____ 3 ☐

TOTAL CREDITS: 129-131 credits

Fundamentals Courses: (these courses do **not** count toward graduation requirements)

WRTG-099 Fundamentals of College Writing (must earn C or better) 3

MATH-099 Fundamentals of College Mathematics (must earn C or better) 3

READ-099 Fundamentals of College Reading & Study Skills (must earn C or better) 3

Surplus credits not used toward degree requirements

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Please note Philadelphia University residency requirement:

Philadelphia University has a residency requirement of 60 credits for Day Division students. Students must take a minimum of 60 credits – 12 credits must be within the major core; 6 credits must be in College Studies in order to be eligible for a B.S. degree.

This form should be used as a worksheet in conjunction with the catalog and the College Studies "menu" of options. Please refer to the Philadelphia University catalog for questions regarding curriculum and academic policies.

COURSE STATUS: ☑ = course to take next semester ☒ = course currently being taken ■ = course completed

PHILADELPHIA UNIVERSITY

ASSOCIATE IN SCIENCE: **HEALTH & HUMAN SERVICES (1199C Training Program)** (2009-2010)

CONTINUING STUDIES *(Restricted Enrollment)*

Name _____ ID# _____

MH/MT Technician Program - 21 credits			Cr	Sem.	Grade	TR Equiv.
Training Upgrading Fund Partnership			21	❑		

CORE COMPETENCIES - 24 credits		(Prerequisite)	Cr	Sem.	Grade	TR Equiv.
WRTG-105	Writing About Workplace Culture		3	❑		
MATH-215	College Algebra		3	❑		
SCI-101	Environmental Science		3	❑		
HIST-114	American Transitions		3	❑		
PSYCH-101	Introduction to Psychology		3	❑		
COMM-320	Professional Communication Skills		3	❑		
HLTSV-210	Ethical Issues for Human Services Providers		3	❑		
IT-101	Introduction to Information Systems		3	❑		

MAJOR CORE - 15 credits		(Prerequisite)	Cr	Sem.	Grade	TR Equiv.
* PSYCH-201	Abnormal Psychology	*(PSYCH-101)*	3	❑		
* PSYCH-224	Psychology of Addiction	*(PSYCH-101)*	3	❑		
* PSYCH-233	Inter Relations & Small Group Dynamics	*(PSYCH-101)*	3	❑		
* COMM-310	Communication Theory & Practice		3	❑		
* BEHLT-290	Clinical Interactions in Behavioral Health	*(COMM-310, PSYCH-233)*	3	❑		

* ***Minimum of 12 credits in the major core must be completed at Philadelphia University***

TOTAL CREDITS: 60 credits

Surplus credits not used toward A.S. degree requirements

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Please note Philadelphia University residency requirement:

Philadelphia University Continuing Studies students must complete a minimum of 20 credits through the University in order to be eligible for an A.S. degree. This document should be used as a worksheet in conjunction with the University catalog. Please refer to the Philadelphia University catalog (<www/philau.edu/catalog>) for questions regarding curriculum and University policies.

Advisor's Name_____ Updated (Date) _____, _____, _____, _____, _____, _____, _____

Advisor's Name_____ Updated (Date) _____, _____, _____, _____, _____, _____, _____

Advisor's Name_____ Updated (Date) _____, _____, _____, _____, _____, _____, _____

Advisor's Name_____ Updated (Date) _____, _____, _____, _____, _____, _____, _____

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Advisor's Name_____ Updated (Date) _____, _____, _____, _____, _____, _____, _____

Advisor's Name_____ Updated (Date) _____, _____, _____, _____, _____, _____, _____

Advisor's Name_____ Updated (Date) _____, _____, _____, _____, _____, _____, _____

Comments:

COURSE STATUS: ☑ = course to take next semester ☒ = course currently being taken ■ = course completed

PHILADELPHIA UNIVERSITY

ASSOCIATE IN SCIENCE: **HEALTH & HUMAN SERVICES (Jewish Employment & Vocational Services)** (2009-2010)

CONTINUING STUDIES ***(Restricted Enrollment)***

Name _____ ID# _____

MH/MT Technician Program - 30 credits		Cr	Sem.	Grade	TR Equiv.
HVMSV-199	Human Services Training Program	30	❑		

CORE COMPETENCIES - 21 credits		(Prerequisite)	Cr	Sem.	Grade	TR Equiv.
WRTG-105	Writing About Workplace Culture		3	❑		
MATH-215	College Algebra		3	❑		
SCI-101	Environmental Science		3	❑		
HIST-114	American Transitions		3	❑		
PSYCH-101	Introduction to Psychology		3	❑		
COMM-310	Communication Theory & Practice		3	❑		
IT-101	Introduction to Information Systems		3	❑		

MAJOR CORE - 9 credits		(Prerequisite)	Cr	Sem.	Grade	TR Equiv.
PSYCH-201	Abnormal Psychology	*(PSYCH-101)*	3	❑		
PSYCH-233	Inter Relations & Small Group Dynamics	*(PSYCH-101)*	3	❑		
BEHLT-290	Clinical Interactions in Behavioral Health	*(COMM-310, PSYCH-233)*	3	❑		

TOTAL CREDITS: 60 credits

Surplus credits not used toward A.S. degree requirements

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Please note Philadelphia University residency requirement:

Philadelphia University Continuing Studies students must complete a minimum of 20 credits through the University in order to be eligible for an A.S. degree. This document should be used as a worksheet in conjunction with the University catalog. Please refer to the Philadelphia University catalog (<www/philau.edu/catalog>) for questions regarding curriculum and University policies.

Advisor's Name_____ Updated (Date) _____, _____, _____, _____, _____, _____, _____
Advisor's Name_____ Updated (Date) _____, _____, _____, _____, _____, _____, _____
Advisor's Name_____ Updated (Date) _____, _____, _____, _____, _____, _____, _____
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Advisor's Name_____ Updated (Date) _____, _____, _____, _____, _____, _____, _____
Advisor's Name_____ Updated (Date) _____, _____, _____, _____, _____, _____, _____
Advisor's Name_____ Updated (Date) _____, _____, _____, _____, _____, _____, _____

Comments:

COURSE STATUS: ☑ = course to take next semester ☒ = course currently being taken ■ = course completed

PHILADELPHIA UNIVERSITY
POST-BACCALAUREATE CERTIFICATE: **ACCOUNTING** (2009-2010)
CONTINUING STUDIES

Name _____ ID# _____

Pennsylvania requires a bachelor's degree and 24 credits of accounting to sit for the C.P.A. Examination. The Accounting Certificate program is designed for individuals who have a bachelor's degree in a field other than accounting and who wish to take the C.P.A. examination.

Students should be aware that experience in public accounting is also required for certification. Students who apply for this program must have a bachelor's degree. Students should consult with an advisor for current requirements.

		(prerequisite)	Cr	Sem.	Grade
ACCT-101	Financial Accounting		3	❑	
ACCT-203	Intermediate Accounting I	*(ACCT-101)*	3	❑	
ACCT-204	Intermediate Accounting II	*(ACCT-203)*	3	❑	
ACCT-309	Federal Taxes I	*(ACCT-101)*	3	❑	
ACCT-316	Cost Accounting	*(ACCT-203)*	3	❑	
ACCT-303	Accounting Theory & Practice	*(ACCT-204)*	3	❑	
ACCT-409	Auditing	*(ACCT-204)*	3	❑	
ACCT-412	Advanced Accounting	*(ACCT-303)*	3	❑	

TOTAL CREDITS: 24

COURSE STATUS: ☑ = course to take next semester ☒ = course currently being taken ■ = course completed

Please note that the requirements for the C.P.A. examination are being evaluated for change and therefore, could impact changes in the above courses in the future. Consult with an advisor before finalizing your program.

Students may need to enroll in late afternoon or summer classes to complete requirements as evening classes are no longer available.

Minors

Some programs require a minor. A student should choose a minor upon the completion of 60 semester hours. This should be planned with the assistance of an academic advisor.

To enhance a student's academic experience, it is recommended that a student select a minor significantly different from his/her chosen major. For example, a Management major may want to select a Finance minor or vice versa. Also, a combination of a Business major with a Social Sciences minor will enrich the student's education and preparation for a successful career.

A student may not combine a major and minor in the same or similar functional area (e.g., Finance major and Finance minor; Management major and Human Resource Management minor.)

Since several majors and minors include many elective courses, overlap may be possible. To qualify for a major or a minor, a student may not use the same course for credit in both the major and minor areas and must seek approval from the dean of the School for a substitute elective from within the discipline.

Certain courses in the minor may have prerequisite courses that need to be completed.

Accounting Minor **12 credits**

The Accounting minor permits students to enrich their knowledge of the "language of business." No matter what profession a graduate enters, the ability to read and comprehend historical and prospective financial information will be essential. Students will be provided with an in-depth understanding of generally accepted accounting principles through intermediate accounting courses, an exposure to federal taxation and a choice of accounting electives for more intensive study.

ACCT-101	Intermediate Accounting I
ACCT-204	Intermediate Accounting II
ACCT-309	Federal Taxes I

Any advanced Accounting elective, except ACCT-316 Cost Accounting I

Architectural History/Theory Minor **12 Credits**

This minor offers students the opportunity to study art/architectural history and theory beyond the introductory level. The courses listed provide in-depth knowledge and analysis of historical periods and theoretical issues relative to the meaning and practice of architecture and related disciplines.

Required course: ARCH-422 Theories of Architecture Seminar

Any three of the following:

ARCH-410, ARCH-434, ARCH-371, ARCH-425, ARCH-341, ARCH-409, ARCH-320

Architecture and Interior Design students may choose one of the following:

LARCH-307 or LARCH-411

Business Minor for Non-Business Major **12 credits**

This minor is specifically designed for the Non-Business major. It will provide students with marketable business skills upon graduation that are useful to any professional person.

Required (6 to 9 credit hours)

ACCT-101	Financial Accounting
ECON-205	Macroeconomics and/or
ECON-206	Microeconomics

Choose additional courses (total 12 credit hours)

BLAW-301	Business Law I
ACCT-102	Managerial Accounting
FINC-301	Financial Management

Construction Management Minor12 credits

This minor introduces students to basic construction management concepts and practices, including planning, scheduling and estimating; project control and supervision; safety; labor relations; purchasing and accounting; insurance and bonds; and ethics.

Required courses:

ARCH-427 Construction Management I
ARCH-428 Construction Management II

Any two of the following:

ARCH- 426; ARCH- 401 (Design/Build option only), MGMT-301 MKTG-102, ARCH-499

Custom Minor **12 credits**

A custom minor is a thematic/area/subject cluster of four courses from any of the Schools. The student's advisor and the dean of the School, where the minor will be granted, must approve custom minors.

E-Commerce Minor **12 credits**

E-commerce is the Internet-enabled buying and selling of goods and services, servicing customers, collaborating with vendors and customers, and conducting electronic transactions within an organization. It includes email marketing, virtual learning, banner ads on a Web page, 24/7 customer support systems, ERP, CRM and XML; it is an electronic wallet; it is borderless, seamless, and timeless; it is all that and more. The E-commerce minor involves the study of products, the business processes, and the supply chain of startup dotcoms to brick-and-mortar Fortune 500 firms. The program features a balance of information technology and managerial decision-making.

MKTG-315	Marketing in an Electronic Environment
MKTG-408	Survey of E-Commerce
MIS-202	Management Information Systems
MIS-305	Database Analysis, Design, and Management

Economics Minor **12 credits**

Regardless of whether a student majors in business, textiles, the humanities or another discipline, students will be affected by economic factors. The Economics minor will enable

students to understand and anticipate economic fluctuations and make changes necessary for success.

Any four advanced Economics electives are permitted, but one course may be from FINC-322, FINC-303, FINC-318, FINC-321 or FINC-333.

Environmental and Conservation Biology Minor **12-16 credits**

This minor will provide students with the necessary background and skills for comparing and contrasting the impact on the environment of both daily lifestyle choices and economic, legal, management and business decisions in government and industry.

ECBIO-101	Environmental Issues
ECBIO-102	Biodiversity

Any two of the following:

BIOL-205, BIOL-209, BIOL-310, BIOL-371, CHEM-417, ECBIO-101, ECBIO-207, ECBIO-208, ECBIO-301, ECBIO-305, ECBIO-316, ECBIO-318, ECBIO-319, ECBIO-409, ECBIO-415, PSYCH-240, STAT-301, STUAB-300.

Fashion Industry Management Minor **12-13 credits**

Students choosing a minor concentration in Fashion Industry Management can look forward to employment in the textile and apparel sectors of the apparel and textile supply chain.

FASHMGT-101	Survey of the Apparel Industry
TEXT-101	Survey of the Textile Industry

Any two of the following:

FASHMGT-305	Apparel Production
FASHMGT-408	Apparel/Textile Sourcing
TEXT-331	Apparel Fabric Performance

Finance Minor **12 credits**

Finance plays a crucial role in all profit and nonprofit organizations. The Finance minor is a wise choice for any student interested in a business or service organization career.

FINC-303	Intermediate Financial Management
FINC-321	Investments and Portfolio Management

Any two Finance electives, but at least one must be from

FINC-322, FINC-318, FINC-333, FINC-411 or ECON-305.

Foundation Design Minor **12 credits**

The Design minor introduces students to drawing and the basic elements and principles of two- and three-dimensional design, as well as their application in the design process. Indepth studies emphasizing the use of color are undertaken. A general survey of the philosophy and utility of CAD systems may be accomplished through hands-on experience.

DSGNFND-103	Design Foundations I or ADFND-101 Design I
DRAW-101	Drawing I

Any two of the following:

ADFND-102, ADFND-104, ARCHDSN-208, CAD-201, DRAW-201, DRAW-206, DSGNFND-203 or DRAW-303.

Any course from a design major approved by the advisor.

Historic Preservation Minor **12 credits**

This minor provides a foundation in the field of historic preservation. The required courses cover issues including the history of the movement in the U.S., contemporary practice and field work, economic consequences, as well as methods of and standards for documentation. Elective courses broaden the student's experience with discussions of American urban traditions, architectural ornament, vernacular ways of building around the world, and design considerations in a preservation project.

ARCH-420	Introduction to Historic Preservation
ARCH-4xx	Preservation Technology

Any two of the following:

INTD-428, LARCH-507, ARCH-425, ARCH-4xx Historic Preservation Documentation: Drawing; ARCH-4xx Historic Preservation Documentation: Photography; ARCH-341

Human Resource Management Minor **12 credits**

The Human Resource Management minor provides students with the basic skills needed to manage the personnel component of an organization. The minor concentrates on the processes by which jobs are designed and filled by human resources, as well as how a skilled work force is maintained in an organization. The student will gain familiarity with the techniques of recruiting, hiring, training and evaluating employees. The student will also become familiar with the basic concepts of employee and union-management relations, including contract negotiations. Not available to management majors.

MGMT-310	Organizational Behavior
MGMT-320	Human Resource Management
MGMT-418	Industrial Relations

One advanced Management elective from the following:

MGMT-307, MGMT-311, MGMT-326, MGMT-331, MGMT-381, MGMT-411, MGMT-416, MIS-305, MIS-401, PSYCH-230 or PSYCH-231.

Information Systems Minor **12 credits**

Information systems supply an ever more important role in support for management decision-making. According to the U.S. Department of Labor's 2003 Web site, "Employers prefer managers with advanced technical knowledge acquired through computer-related work experience and formal education." The IS minor is intended to supply a foundation for that level of knowledge. Not available to Management Information Systems.

MIS-202	Management Information Systems
MIS-305	Database Design, Analysis & Management

Two additional Information Systems electives from the following:

MIS-207, MIS-302, MIS-304, MIS-312, MIS-323, MIS-371, MIS-401, MIS-404, MIS-405, MIS-406, MIS-407, MIS-411, MIS-413, MIS-422, MIS-425.

International Business Minor **12 credits**

The world in which business is being conducted is changing rapidly and is creating new challenges and opportunities for managers. The International Business minor is provided for students who want to strengthen their knowledge and understanding of global changes and their impact on business.

ECON-401	International Economics
FINC-318	International Finance and Development
MGMT-307	International Management
MKTG-324	International Marketing

Landscape Architecture

These two minors — one for design majors (primarily for architecture or interior design majors) and one for non-design majors (primarily for environmental and conservation biology or environmental sustainability majors) — introduce the student to the field of landscape architecture. For the Landscape Design minor, the required courses cover the various areas — history/theory, technology, horticulture, and design — that constitute an understanding of the discipline relative to design. For the Landscape Planning Minor, the required courses cover the various areas — technology, communication, and history — that are needed for an understanding of the discipline relative to planning.

Landscape Design Minor **13-15 credits**

ECBIO-208	Local Flora
LARCH-207	Technology I: Grading

One of the following history/theory courses

LARCH-307	History of Landscape Architecture II	or
LARCH-411	Landscape Architecture Theory: Seminar	

One of the following design studio courses

LARCH-202	Design IV for Landscape Architecture
LARCH-302	Design VI for Landscape Architecture
LARCH-401	Design VII Topical Studio for Landscape Architecture

Landscape Planning Minor **12 credits**

LARCH-207	Technology I: Grading
LARCH-203	Graphics for Landscape Architecture
LARCH-206	History of Landscape Architecture I or
LARCH-307	History of Landscape Architecture II

One of the following:

LARCH-310	GIS for Landscape Analysis or
LARCH-412	Technology III: Hydrology

Management Minor **12 credits**

This minor allows students to enroll in a group of key management courses that teach the essential theory and practice for managerial positions in fields such as accounting, retailing, design management, marketing management or other technical majors. Together with the knowledge base learned in students' major fields, this minor increases students' understanding of organizations typical of those in which they will be employed, thereby enhancing the likelihood of promotion to a managerial position. Not available to Management or Human Resource Management majors.

MGMT-310	Organizational Behavior
MGMT-320	Human Resource Management
MIS-202	Management Information Systems

One advanced Management elective from the following:

MGMT-307, MGMT-311, MGMT-326, MGMT-331, MGMT-381, MGMT-411, MGMT-416, MGMT-418, MIS-305, MIS-401, PSYCH-230 or PSYCH-231.

Marketing Minor **12 credits**

The marketing of goods or services is the central focus of most profit and nonprofit organizations. Thus, regardless of students' majors, a solid understanding and appreciation of the marketing discipline will enhance students' decision-making capabilities and make them better managers. Not available to Marketing majors.

MKTG-207	Consumer Behavior
MKTG-310	Marketing Communications
MKTG-391	Marketing Research

One advanced Marketing elective from the following:

MKTG-217, MKTG-315, MKTG-318, MKTG-324, MKTG-328 or MKTG-381.

Multimedia and Visualization Minor **12 credits**

This minor introduces students to the conceptual and technical issues involved in creating and producing multimedia and visualization projects. Emphasis will focus on the application of digital technologies to enhance the design and presentation process.

Select four from the following:

ARCH-324	Visualization: Experimental Modeling
ARCH-326	Visualization: Advanced Modeling
ARCH-415	Visualization: Multimedia
DIGD-407	Digital Design and Visualization Studio
GRAPH-310	Digital Imaging and Photographic Manipulation

Organizational Behavior Minor **12 credits**

This minor provides the student with an understanding of how organizations are designed to successfully perform a number of business activities, including making decisions, motivating members and dealing with conflict. Students also take courses that focus on areas such as entrepreneurship, managing people or health care. The knowledge and skills learned from such courses, combined with the knowledge base gained from students' major fields, increase students' understanding of the organizations in which they will be employed. It also enhances the likelihood of promotion to managerial positions or the successful development of an individual's own business. Not available to Management majors.

MGMT-310	Organizational Behavior
MGMT-412	Management Seminar

Two advanced Management electives from the following:

MGMT-307, MGMT-311, MGMT-326, MGMT-331, MGMT-381, MGMT-411, MGMT-416, MGMT-418, MIS-305, MIS-401, PSYCH-230 or PSYCH-231.

Photography Minor 12 credits

This minor introduces students to various types of photography, photographic lighting and the use of images in documentation. Emphasis will be on broadening the realm of the expression in design.

ARCH-411	Architectural Photography/Portfolio
ARCHDSN-381	Independent Study in Architecture, Interior Design
GRAPH-204	Introduction to Photography for Graphic Design Communication
PHOTO-301	Studio Photography

Pre-M.B.A. Minor for Business Majors **12 credits**

The Pre-M.B.A. minor for Business majors provides the opportunity to begin taking graduate-level business courses in the senior year, allowing students who have completed their Bachelor of Science Degree in Business Administration to

complete a Master of Business Administration degree in one year of daytime study. The M.B.A. may also be completed in the evening. This minor is for undergraduate business majors only. Students must be accepted into the M.B.A. program before registering for graduate courses and may only begin taking graduate courses in senior year.

MBA-625	Management Communications and Negotiations
MBA-628	Accounting for Management Decisions

Plus two undergraduate business courses, excluding business core, from the same functional area. The courses must be outside of the student's undergraduate major. It is advised that students selecting this minor consult with a graduate advisor before selecting these two courses.

Pre-M.B.A. Minor for Non-Business Majors **27 credits**

The Pre-M.B.A. minor for Non-Business majors provides the opportunity to begin taking graduate-level business courses in the senior year, allowing students who have completed their bachelor's degree to complete a Master of Business Administration degree in one year of daytime study. This minor is for undergraduate non-business majors only. Since there are some differences for the Accounting and Health Care Management M.B.A. options, it is highly recommended to consult with your academic advisor prior to enrolling in any classes. Students must be accepted into the M.B.A. program before registering for graduate courses and may only begin taking graduate courses in the senior year.

Non-Business majors interested in the Joint B.S./M.B.A. Program should obtain a copy of the "Pre-M.B.A. Requirements for Non-Business Majors: Planning Guide." The planning guide should be used in combination with the University catalog and the check sheet for the student's undergraduate major. The Guide describes the requirements for admission and the application process as well as the Pre-M.B.A. course requirements. Planning guides are available from upper-level advisors as well as the Graduate Business

MGMT-301	Principles of Management
MGMT-401	Operations Management (or MBF-510)
MKTG-102	Principles of Marketing
FINC-301	Financial Management (or MBF-505)
MBF-503	Foundations of Economic Analysis
MBF-504	Introduction to Financial and Managerial Accounting
MBF-508	Statistical Analysis for Business Decisions
MBA-625	Management Communications and Negotiations
MBA-628	Accounting for Management Decisions

- Course numbers under 500 indicate that the course is an undergraduate business course.
- Course numbers beginning with "MBF" indicate graduate master-level foundation courses, and course numbers beginning with "MBA" indicate graduate master-level courses.
- Courses in parentheses are acceptable equivalents to those that precede them.

Pre-Occupational Therapy Concentration **21 credits**

Occupational therapy is a skilled treatment that helps individuals achieve independence in all facets of their lives. Occupational therapy practitioners assist those suffering the effects of illness or injury with the goal of enabling those individuals to develop new skills to compensate for their impairments. This minor provides the necessary course work to pursue graduate studies in the field of Occupational Therapy through a focus on courses in Psychology and Biology.

BIOL-104/ BIOL-104L	Biology II lecture/lab
PSYCH-213	Developmental Psychology
BIOL-201/ BIOL-201L	Human Anatomy & Phys I lecture/lab
BIOL-202/ BIOL-202L	Human Anatomy & Phys II lecture/lab

Two additional Psychology courses

Psychology Minor **12 credits**

All disciplines in the social sciences analyze human behavior on one level or another. Psychology's uniqueness lies mainly in the fact that it is an experimental science. Students who minor in psychology will study a body of knowledge about the causes of human and animal behavior and the experimental methods used to study behavior. Students completing this minor should be better able to understand their own behavior and the behavior of others, in both work and leisure settings.

PSYCH-101	Introduction to Psychology (required)

Any three Psychology courses (chosen in consultation with a psychology faculty member)

Social Sciences Minor **12 credits**

College Studies requirements plus four additional courses approved by the School of Liberal Arts Dean's Office.

Textile Minor **12-15 credits**

The Textile minor offers students an introduction to the process flow of fibers through finished products, as well as an overview of the structure of the textile industry. Textile technology is correlated to end-use performance by emphasizing the relationship of textile suppliers, apparel and home furnishing manufacturers, retailers and government regulations to consumer needs. This basic understanding of textile product capabilities and limitations allows the individual to be a discriminating, educated consumer.

TEXT-101	Survey of Textile Industry (required)

Any three of the following:

KNIT-201	Knitting I
PRINT-305	Textile Printing Technology
TEXT-307	Textile Materials
TEXT-113	Yarn
WEAV-201	Weaving I

Course Descriptions

This letter/number system is used to designate the various schools or the disciplines within these schools.

Key to Course Description Information

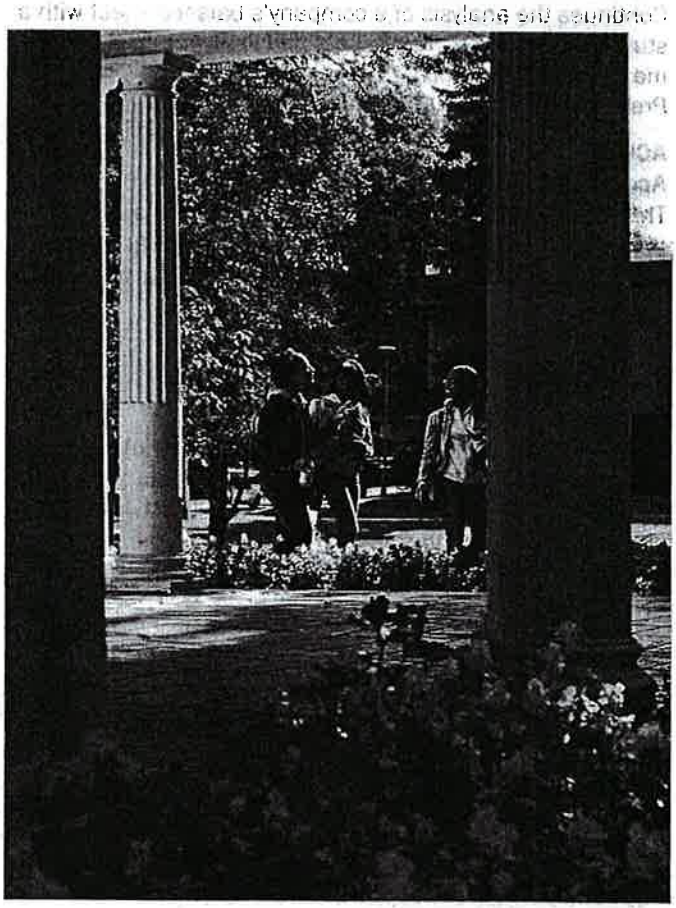
Before registering for a course, students must satisfy prerequisites as indicated in the following course descriptions. When changes are made, students are to follow the requirements in the most recent catalog.

Semester credit hours earned
Lab/studio hours per week
Lecture hours per week

Course Number → **K123** **1-5-3**
Course Name → **What Do You Call It**

The description gives brief outline of the material to be covered. More complete information can be obtained by accessing information on the University web site.

Refer to most recent catalog → *Prerequisite: course(s) that must be completed before enrolling in this course.*



Course Prefix	
ACCT	Accounting
ADFND	Architecture Design Foundation
AHIST	History of Architecture & Interiors
ANIM	Animation
ARAB	Arabic
ARCH	Architecture
ARCHDSN	Architecture Design
AREAST	Area Studies
ARTH	Art History
ARTS	Arts and Culture
BEHLT	Behavior Health
BIOL	Biology
BLAW	Business Law
BUS	Business
CAD	Computer-Aided Design
CHEM	Chemistry
CMPR	Computing
CMW	Certificate Midwifery (GR)
COLLST	College Studies
COMM	Communications
CSSEM	Continuing Studies Seminar
DIGD	Digital Design
DMM	Disaster Medicine Management (GR)
DRAW	Drawing
DSGNFND	Design Foundations
ECBIO	Environmental Science
ECON	Economics
EMS	Emergency Services
EMT	Emergency Medical Technician
ENGR	Engineering
FAS	Fashion Apparel Studies (GR)
FASHDES	Fashion Design
FASHDRW	Fashion Drawing
FASHMGT	Fashion Management
FIM	Fashion Industry Management
FINC	Finance
FREN	French
GER	German
GRAPH	Graphic Design Communication
HIST	Historical Understanding
HLTSV	Health Services
HONOR	Honors Program
HRM	Human Resources
HUMN	Humanities
HUMSV	Human Services
IDD	Interactive Digital Design (GR)
IDF	Instructional Design Foundation (GR)
IDT	Instructional Design Technology (GR)
IENGR	Industrial and Systems Engineering
INDD	Industrial Design
INFO	Information Systems
INTD	Interior Design

IT	Information Technology
ITAL	Italian
JAPN	Japanese
JSINT	Junior Seminar: Integrative Professional Seminar
JSLA	Junior Seminar: Liberal Arts Seminar
KNIT	Knitting
LANG	Language
LARCH	Landscape Architecture
LAW	Law
LAWEN	Law Enforcement
LIT	Literature
MATH	Mathematics
MBA	Business Administration (GR)
MBB	MBA Pilot Bridge Program
MBF	Business Foundation (GR)
MBT	Textile Business (GR)
MCM	Construction Management (GR)
MENGR	Mechanical Engineering
MGMT	Management
MIS	Information Systems
MKTG	Marketing
MMW	Midwifery (GR)
OCC	Occupational Therapy (GR)
PAS	Health Sciences/Physician Assistant Studies
PASF	Physician Assistant Studies Foundation
PE	Physical Education
PHOTO	Photography
PHYS	Physics
PRINT	Print Design
PSYCH	Psychology
PUBH	Public Health
READ	Reading
SCI	Science
SDN	Sustainable Design (GR)
SERV	Civic Engagement
SOC	Sociology
SPAN	Spanish
STAT	Statistics
STUAB	Study Abroad
SUST	Sustainability
TAX	Taxation (GR)
TENGR	Textile Engineering
TES	Textile Engineering and Science (GR)
TEXT	Textile
TEXTCHM	Textile Chemistry
TXD	Textile Design (GR)
TXF	Textile Foundation (GR)
WEAV	Weaving
WRTG	Writing

Course Descriptions

ACCT-101 (Formerly B403) **3-0-3**
Financial Accounting
Designed to introduce all business students to the field of accounting, the course covers the fundamental principles of accounting, highlighting balance sheet and income statement presentation. Primary emphasis on accounting as a source of financial information, with procedural details kept to a minimum.

ACCT-102 (Formerly B423) **3-0-3**
Managerial Accounting
Objective analysis and interpretation of accounting information. Use of accounting information as a basis for planning, control and managerial decisions.
Prerequisite: ACCT-101 (required for all business students)

ACCT-203 (Formerly B441) **3-0-3**
Intermediate Accounting I
An in-depth study of basic accounting principles and theory followed by a detailed analysis of cash, receivables and investments (including the related revenue and expense transactions). Text supplemented with the current rulings of the AICPA.
Prerequisite: ACCT-101

ACCT-204 (Formerly B442) **3-0-3**
Intermediate Accounting II
Continues the analysis of a company's balance sheet with a study of inventories, fixed assets and liabilities. Text supplemented by current rulings of the AICPA.
Prerequisite: ACCT-203

ACCT-303 (Formerly B443) **3-0-3**
Accounting Theory and Practice
This course will enable students to study topics such as corporate entities, cash flow statements, pensions and leases; along with other material not covered in previous accounting courses.
Prerequisite: ACCT-204

ACCT-309 (Formerly B463) **3-0-3**
Federal Taxes I
This course examines the federal tax laws as related to individual income taxation. The textbook is supplemented by using the actual 1040 tax forms and the related supporting schedules. The course is open to all students.
Prerequisite: ACCT-101

ACCT-316 (Formerly B461) **3-0-3**
Cost Accounting I
This course includes study of job order, process and standard cost systems; cost-volume-profit analysis; absorption versus direct costing; inventory-control systems, including EOQ and JIT systems concepts; relevant costing in decision making; time value of money concepts; and capital-budgeting theory and application.
Prerequisite: ACCT-203

ACCT-325 (Formerly B466) **3-0-3**
Business Taxes-State and Federal
An in-depth coverage of business taxes. Emphasis is placed on partnership, corporation and sub-corporations. Pennsylvania, New Jersey and Delaware tax laws will be examined.
Prerequisite: ACCT-309

ACCT-381 (Formerly B499) **0-0-3**
Independent Study in Accounting
Intensive independent study of a chosen subject. The student is expected to read a substantial number of major works in the field and to prepare a critical documented paper. See also the statement on Independent Study under "Academic Policies."
Prerequisites: permission of the faculty member and the dean of the School of Business Administration

ACCT-409 (Formerly B464) **3-0-3**
Auditing
Principles, standards and procedures of auditing. Emphasis upon the public accounting profession, its current pronouncements, practices and problems.
Prerequisite: ACCT-204

ACCT-412 (Formerly B465) **3-0-3**
Advanced Accounting
This course includes study of business combinations and consolidated financial-statement preparation, foreign subsidiary operations, foreign transactions, and government and not-for-profit industry accounting. The text is supplemented with current rulings of the AICPA.
Prerequisite: ACCT-303

ADFND-101 (Formerly A111) **0-8-4**
Design I: Interdisciplinary Foundation Studies
This basic foundation course is required in the Architecture, Interior Design and Landscape Architecture curricula. It is an introduction to fundamental design principles and vocabulary, process methodologies and problem-solving strategies. Lectures and demonstrations will stress abstraction as a primary building block for future design studios.

ADFND-102 (Formerly A112) **0-8-4**
Design II: Interdisciplinary Foundation Studies
This basic foundation course is required in the Architecture, Landscape Architecture and Interior Design curricula. It is a synthesis of fundamental design principles and an introduction to research as a tool for understanding programming and design. Lectures and demonstrations will utilize the case-study methodology to investigate various design strategies and to chart the historical course of modernism.
Prerequisite: grade of "C" or better in ADFND-101

ADFND-104 (Formerly A122) **1-5-3**
Drawing II for Architecture
This is a drawing elective option. Drawing skills will be developed through rapid exploratory sketches and through complex three-dimensional studies that explore volumes/voids and light/shade with special references to architectural details and furniture. Investigation of space/form relationships through one- and two-point perspectives and through various drawing materials will be introduced.
Prerequisite: DRAW-101

ADFND-110 (Formerly A124) **1-5-3**
Painting from Perception
Building on the foundation of the introductory drawing course, this elective course allows students to work from perception as they learn painting skills using acrylic and other water-based media. The course explores issues of composition with color and develops the student's sensibility toward the use of color. Subject matter includes still life, portraiture, figure, interiors and landscape.
Prerequisites: DRAW-101, and ADFND-101 or DSGNFND-103

ADFND-112 (Formerly A125) **1-4-3**
Technics of Communication
The designed object is tangible, but it is always first an image. The image, the product of visualization, is most fundamentally communicated through the techniques of two-dimensional modeling we call drawing. Today's designer is privileged to own a vast range of technologies, ancient and modern, to devise comprehensive strategies for visualizing and communicating ideas. By integrating techniques the student will learn the appropriate tool to employ at any given point in the design process to effectively communicate to self and to others.
Prerequisites: DRAW-101, grade of "C" or better in ADFND-101

AENGR-200 **0-8-4**
Architectural Engineering Design
This foundation course is required for Architectural Engineering. It is an introduction to design principles, vocabulary, and process methodologies leading to the understanding of architectural and research process. Use of prevalent and emerging visualization tools for building information modeling (BIM) including REVIT will be covered.
Prerequisite: WRTG-101, ENGR-101, ENGR-102

AENGR-301 **3-0-3**
Structural Analysis I
Structural Analysis I provides the basis and serves as a foundation for subsequent advanced Structural Analysis courses. Assumptions, principles of equilibrium in determining structures Reactions, bending moments and shear diagrams. Analysis of plane and space trusses. Influence lines. Computer analysis of determinate trusses. Optimization in structural systems. Approximate methods of analysis for indeterminate structures. Determination of displacements by virtual work. Castiglione's theorem and moment area theorems.
Prerequisites: ENGR 215

AENGR 303 **3-0-3**
Structural Analysis Compression
The main objective of this course is to provide students with a rational basis of the design of reinforced concrete members and structures through advanced understanding of material and structural behavior. The subject will be approached

by looking into the behavior of reinforced concrete at different levels; material level, element level, and structural and systems level.
Prerequisite: AENGR-301

AENGR-305 **3-0-3**
Structural Design with Tensile Elements
The main objective of this course is to provide students with a rational basis of the designof tensile members, elements and structures through advanced understanding of material and structural behavior. The subject will be approached by looking into the behavior of steel, timber and fabrics at different levels; material level, element level, and structural and systems level.
Prerequisite: AENGR-301

AHIST-205 (Formerly A331) **3-0-3**
History 1: The Built Environment, Ancient to Medieval
By tracing significant historical themes, this course spotlights canonic examples of Western and non-Western architecture, interiors, and landscape design from Ancient times to the Medieval period. Major monuments of Europe, Asia, Africa, and the Americas are examined as solutions to technical problems, utilizing available materials, and as spatial and structural embodiments of cultural belief systems. Students acquire a working vocabulary for both analyzing and evaluating the built environment and material culture.
Prerequisite: WRTG-101

AHIST-206 (Formerly A332) **3-0-3**
History II: Renaissance/Baroque Architecture and Interiors (1300-1750)
Focusing upon global changes relative to urbanism, patterns of patronage, and the intersection of church and state, this course highlights significant examples of Western and non-Western architecture and interiors produced from the 14th through the mid-18th centuries. Each case study is situated within a broad historical context and understood as paradigmatic of a period's values and aspirations that are given concrete form through available materials, construction methods, and technologies. Students acquire a working vocabulary for both analyzing and evaluating architecture, interiors, and material culture.
Prerequisite: AHIST-205

AHIST-305 (Formerly A531) **3-0-3**
History III: Early Modern Architecture and Interiors (1750-1940)
(writing intensive)
This course chronicles the impact of Enlightenment thinking and of the shifting definitions of modernity upon architecture and interior design by tracing the transition from Historicism to the International Style. New notions of progress and evolution; industrialization and urbanization; and debates concerning the role of the machine and the meaning of ornament are set against major technological advances. Students examine key theoretical texts and accomplish archival research on an historic structure in the Philadelphia area.
Prerequisite: AHIST-206

AHIST-306 (Formerly A532) **3-0-3**
History IV: Modern/Contemporary Architecture and Interiors (1940-present)
(writing intensive)
This course analyzes major movements and theoretical constructs that have dominated architecture and interior design from the post-World War II period until the present. Discussion focuses upon societal and environmental aspects — politics, economics, science and technology, psychology, etc. — that shape the greater context for architecture, interiors and the allied arts. Students examine key theoretical texts to evaluate current thinking relative to issues such as sustainability, critical regionalism, phenomenology and the role of the digital in contemporary practice.
Prerequisite: AHIST-305

ANIM-201 **1-5-3**
Introduction to Animation
This course will introduce students to the practice of animation and the various techniques employed in its production. Short exercises involving hand-drawn, stop-motion and other non-digital means will serve to expose students to the fundamental concepts involved. Students will then apply these concepts to their digital toolkit in order to create a longer final project.
Prerequisite: DSGNFND-203

ANIM-202 **1-5-3**
Storytelling and Storyboarding
This course will seek to give students a strong foundation in storytelling. Emphasis will be placed on visual storytelling, as the storyboard is the script for animation. In addition to story structure, students will explore screen composition and editing as means of relating narrative content. The class will consist of several storyboard exercises, culminating in the production of an animatic, a filmed version of the storyboard with a soundtrack.
Prerequisite: ANIM-201

ANIM-301 **0-10-5**
Motion Graphics I
This major studio course explores time and motion in the creation of primarily graphic narratives. The techniques of abstraction, motion typography and musical synchronization are studied in the context of increasingly complex projects. A major aspect of the course will be the screening of both abstract films and reels from contemporary motion graphics films.
Prerequisite: ANIM-202

ANIM-307 **1-5-3**
3D Modeling
This course will give students a foundation in the concepts and techniques of 3D modeling and rendering. Specific attention will be paid to modeling environments, objects and characters. Students will explore polygonal, NURBS and subdivision-surface modeling and their respective workflows.
Prerequisite: ANIM-202

ANIM-308 **1-5-3**
3D Animation
This course builds upon the concepts learned in 3D modeling to include animation and character setup. Special attention will be given to applying the techniques of traditional character animation to this contemporary medium. Projects will range from short animation exercises to a longer, character-driven piece. In addition, the class will view and discuss current and classic animated film.
Prerequisite: ANIM-307

ANIM-312 **0-10-5**
Motion Graphics II
This class explores the concepts covered in Motion Graphics I but with the introduction of 3D graphics and video as elements of motion graphics. In addition, the mediums of dance, photography, architecture and painting will be discussed as possible inspirations.
Prerequisites: ANIM-301, ANIM-307

ANIM-407 **0-10-5**
Advanced Topics in 3D Animation
This class will allow students to delve deeper into areas covered in prior 3D classes. Topics include advanced modeling techniques, character setup, special effects, dynamics, lighting and rendering. The creation of a character interacting with its environment will drive the projects in this class.
Prerequisite: ANIM-308

ANIM-497 **0-3-3**
Digital Animation Capstone Preparation
(writing intensive)
This course focuses on preparing the student to create a short film in the Spring. The pre-production phase includes conceptualizing the story, writing the script and creating storyboards. In the process of preparing, students will also learn to schedule, budget and distribute their film. At the end of the semester, the student will have a completed animatic from which production can start in the Spring.
Prerequisites: ANIM-308, ANIM-312

ANIM-498 **0-10-5**
Digital Animation Capstone Project
In their final semester, students are required to produce a short film. Students will realize the concepts they explored in the Capstone Preparation course.
Prerequisites: ANIM-407, ANIM-497

ARCH-201 (Formerly A311) **0-8-4**
Design III: Architecture and Landscape Foundations Studies
This foundation course focuses on building the landscape using the elements, principles and theories of architectural and landscape design. Concurrently, specific theoretical issues related to design, organization and the interrelationship of interior and exterior space are explored. A particular emphasis is placed on an experiential and intuitive design process. The importance of the building "parti" as a response to naturally occurring context is stressed. Techniques of representation are developed and refined.
Prerequisite: grade of "C" or better in ADFND-102

ARCH-202 (Formerly A312) **0-8-4**
Design IV: Architecture Foundations Studies
This foundation studio concentrates on general issues concerning "dwelling" and specific issues addressing housing and residential design are explored. Emphasis is placed on designing in the urban context. This course uses research, writing and analysis of human patterns of occupancy and settlement as a means of exploration. The use of computer-generated drawings as a component of the final design project is encouraged.
Prerequisite: grade of "C" or better in ARCH-201

ARCH-211 (Formerly A342) **2-2-3**
Building Technology II
This course examines how environmental factors affect building construction. Students will compare traditional and sustainable materials and energy systems to understand the implications of their design decisions. The course will focus on mechanical systems, the exterior envelope and the interior finishes.
Prerequisite: ARCHDSN-210

ARCH-301 (Formerly A511) **0-10-5**
Design V for Architecture and Landscape Architecture
This is one of two topical studios, occurring in the third year of the architecture and landscape architecture curriculum, which begins the five-term professional design sequence. This is a building-block studio which reinforces design principles learned in earlier semesters, while introducing students to increasing complexity in both program and construction type. Special emphasis is placed on the design and organization of exterior space as created by buildings, built elements and landscape elements. The primary philosophic underpinning of the studio is design within an ecological context, including a thorough introduction to the principles of sustainable design.
Prerequisites: 5-year B.Arch. or BLA major; ARCH-211 or LARCH-207; grade of "C" or better in ARCH-202 or LARCH-202

ARCH-302 (Formerly A512) **0-10-5**
Design VI for Architecture
This topical studio is an exploration of the integration between individual buildings and urban design. The course focuses on creating community within the city. Students investigate socio-cultural and environmental aspects of the city as they relate to architecture. The studio includes discussion of architectural history, theory and principles as the basis for the making of architecture and urban form.
Prerequisites: 5-year B.Arch major, AHIST-206, grade of "C" or better in ARCH-202

ARCH-309 (Formerly A541) **2-1-2**
Structures I
This course presents an overview of structural materials and their properties and basic structural systems, and introduces

the fundamental concepts of statics and strength of materials. Students engage in abstract analysis of structural elements and determinate force systems, and experiment with basic principles as applied to simple components. The material includes vector analysis; properties of geometric sections; flexural and shear stresses; beam reactions; and diagrams for loading, shear and moment.
Prerequisites: MATH-103 or MATH-111, PHYS-101, ARCH-211

ARCH-310 (Formerly A542) **2-1-2**
Structures II
This course continues the development of fundamental concepts introduced in Structures I. Students are introduced to the concepts of buckling, truss analysis, calculation of lateral forces and analysis of lateral-force effects as they impact the design of wind- and seismic-resistant structures, and preliminary foundation design.
Prerequisite: ARCH-309

ARCH-320 **3-0-3**
Ecology and Making
The objective of this seminar is to broaden the base of understanding relative to the current discussion of sustainability and reveal some of the greater complexities of the topic. The course will include relevant design work, work outside of the realm of convention, and non-designers that have contributed greatly to the field. The semester's readings will explore the topic through different filters: technological, historical, philosophical, aesthetic, scientific, social, economic, political, and cultural.
Prerequisites:AHIST-306 or LARCH-411 or INDD304

ARCH-321 (Formerly A618) **3-0-3**
Itineraries of Contemporary Architecture in Europe
During the period of the 1960s through the 1970s, architecture was both very radical and very expensive with only a few examples on the European landscape. Since the beginning of the 1990s, this has changed and Europe is showing strong signs of renewed vitality with an increasing number of outstanding buildings and bridges. This course will explore the different cultural, social, political and economic reasons associated with these changes in a variety of locations throughout Europe.
Corequisite: STUAB-300

ARCH-324 (Formerly A624) **1-4-3**
Visualization: Experimental Modeling
This advanced digital elective course focuses on the direct correlation between digital techniques and the design process. Complex three-dimensional modeling, rendering, animation, design visualization and presentation are emphasized in the course methodology. Using a variety of softwares, students complete a series of exercises of increasing difficulty leading to a final project that demonstrates the culmination of the skills developed throughout the semester.
Prerequisite: ARCHDSN-208

ARCH-326 (Formerly A623) **1-4-3**
Visualization: Advanced Modeling
This advanced, computer-aided design, elective course focuses on complex three-dimensional modeling, photo-realistic rendering and virtual reality; with an emphasis on using 3-D Studio Advanced modeling and rendering software. Interactive media and digital imaging are introduced in order to increase the effectiveness of student presentations. Students complete a series of specifically designed exercises of increasing difficulty leading to a final project of the student's choosing from a concurrent or earlier design studio.
Prerequisite: ARCHDSN-208

ARCH 341 **3-0-3**
American Architecture
What makes the built environment in America unique? How has American design changed over the generations? What were architects, clients, and critics thinking? Where will American architecture go in the future? Using history, sociology, and the humanities, we will address these types of questions as we examine American architecture according to themes such as the iconic American home, public buildings, buildings for work and play, and American architectural practice.
Prerequisites: AHIST-206 or LARCH-206

ARCH-371 (Formerly A619) **3-0-3**
Design Theory: Special Topics
This upper-level course is organized to take advantage of faculty members' expertise and the interests of the student body. All topics chosen require that students have completed basic courses in architectural history and theory, so that this course can focus on (1) an advanced analysis of theoretical texts in architecture, literary texts and buildings; and (2) an examination of architecture as a cultural discipline that seeks to accommodate contemporary human needs and natural situations.
Prerequisite: AHIST-306 or LARCH-411

ARCH-401 (Formerly A711) **0-12-6**
Design VII for Architecture
Design VII is an elective studio available as an option within the professional design sequence. Students may customize their education by selecting a topical studio from a wide array of options offered by the School of Architecture. ARCH-401 options may include, but are not limited to: a study-abroad studio, a design-build studio, an experimental/theory-based studio, an interdisciplinary studio, a digital studio or a design studio within another discipline.
Prerequisites: grade of "C" or better in both ARCH-301 and ARCH-302; grade of "C" or better in LARCH-302 or INTD-302

ARCH-402 (Formerly A712) **0-12-6**
Design VIII for Architecture
This tectonics studio will focus on the theories surrounding the materials and processes of making architecture. Students will investigate the inherent properties of building materials to understand their roles in informing and directing the design process. They will explore methods of structure, enclosure and assembly to analyze their effect on built form.

Methods of technically precise, computer-generated representation, as learned in ARCH-408, Visualization II: Technical Documentation, will be studied as a means to communicate design intentions.
Prerequisites: AHIST-306, ARCH-310, ARCHDSN-208; a grade of "C" or better in both ARCH-301 and ARCH-302

ARCH-403 (Formerly A741) **2-2-3**
Technology III: Lighting and Acoustics
This course is an introduction to interior lighting and acoustic design fundamentals and theory. It will explore concepts of light and lighting, their measurement and available technologies used in lighting design. Knowledge will be applied to the selection and integration of lighting fixtures into an architectural-design project. Principles of acoustics, acoustic properties of materials and building systems and their impact on architectural design will also be addressed. Class demonstrations will be used whenever possible.
Prerequisites: grade of "C" or better in either ARCH-301 or ARCH-302 and ARCH-211

ARCH-404 (Formerly A742) **2-2-3**
Technology IV: Dynamic Systems
This course will present the basic theory and techniques associated with interior building mechanical and electrical systems including HVAC, power, plumbing, life-safety and fire-protection systems. Emphasis will be placed upon the integration of architectural and engineering design processes within the physical building, particularly the development of quantitative procedures that support the implementation of sustainable-design principles. This course will contribute to the development of system concepts for use in design projects.
Prerequisites: grade of "C" or better in either ARCH-301 or ARCH-302 and ARCH-211

ARCH-405 (Formerly A743) **2-1-2**
Structures III
This course involves the application of principles learned in Structures I and II to the analysis and design of wood and steel structural elements. Students are introduced to the behavior and design criteria for the selection of members and connections, including the implementation of component standards and building codes in the design process.
Prerequisite: ARCH-310

ARCH-406 (Formerly A744) **2-1-2**
Structures IV
This course involves the application of principles learned in Structures I and II to the analysis and design of concrete and masonry structural elements. Students will be introduced to the behavior and design criteria for the selection of members and connections, including the implementation of component standards and building codes in the design process. In addition, a comprehensive design project studies the integration of structure into a complete building of the student's own design.
Prerequisite: ARCH-405

ARCH-408 (Formerly A622) **1-4-3**
Visualization II: Technical Documentation
This course focuses on the important role of construction materials and systems in the design process through the creation of technically precise computer-generated drawings. Students will develop their own design into a set of technical documents and details that enhance the project concept. They will utilize two-dimensional CAD and BIM computer software to convey their technical design intentions.
Corequisite: ARCH-402

ARCH-409 (Formerly A610) **3-0-3**
The Great American City
The American city is examined from multiple viewpoints — historical, theoretical and critical — and with respect to specific communities, as well as to general issues. Themes include the initial founding of settlements and their growth, the architectural character of the communities and how character relates to the socioeconomic and physical environments, and the contribution of all these factors toward the specific image or reputation associated with America's best known or "most typical" cities and towns. Field trips vary by semester and are required.
Prerequisites: AHIST-206 or LARCH-411

ARCH-410 (Formerly A613) **3-0-3**
Vernacular Architecture
This elective course provides the groundwork for the study of architecture built without architects or in some other way, unlike the buildings that comprise the standard architectural canon. Scholars estimate that 95 percent of buildings fall into this category. Depending on faculty expertise, focus will be on national and regional traditions, non-Western traditions or a combination of the two. Examples of vernacular architecture will be examined in the context of their materials, building technology, climate and culture.
Prerequisite: AHIST-206 or LARCH-206 or approval of the instructor

ARCH-411 (Formerly A605) **2-2-3**
Architectural Photography/Portfolio
This elective course focuses on the development of photographic skills and architectural applications. Topics include description, representation and interpretation of existing architecture, and drawings and models for students' portfolios.
Prerequisite: grade of "C" or better in ARCH-202, LARCH-202 or INTD-202

ARCH-413 (Formerly A841) **2-2-3**
Experimental Structures
This elective lab/seminar course is an exploration into the architectural potential of form-active structures (including thin-shell, tensile-membrane and fabric structures), and new and alternative materials and methods of construction. Unlike conventional structures that rely on their internal rigidity, form-active structures rely purely on their geometric shape to carry loads, thus providing a base for experimenting with form to create innovative solutions for structural-design problems.
Prerequisite: ARCH-310

ARCH-414 (Formerly A844) **2-2-3**
Experimental Materials
This elective lab/seminar course is a hands-on exploration into the mechanical properties and aesthetic potential of materials in the built environment. The course encourages experimentation with both new materials and non-traditional use of existing materials toward the full-scale production of architectural objects and building components. Implications of craft and technology underscore research and production. Students complete several smaller individual projects and a larger group project of longer duration.
Prerequisite: ARCH-309

ARCH-415 (Formerly A628) **1-4-3**
Visualization: Multimedia
This interdisciplinary course focuses on Interactive CD-ROM design, Web page design and digital-video production. Students begin by reviewing basic two-dimensional, design-communication concepts as a prelude to more complex projects involving various digital media. The course is primarily taught on the Macintosh platform and features software such as Adobe Premier, Macromedia Flash and Macromedia Director. Students create their own individualized final project as approved by the instructor.
Prerequisite: ARCHDSN-208 or GRAPH-202

ARCH-418 (Formerly A842) **3-0-3**
Housing and Construction Technology
This elective seminar course explores interrelated issues of house, land and construction. Discussions and research center around how historical and cultural concepts of the home- and land-use have brought housing to its present condition; and how current concerns about land use and construction technologies might effect a change.
Prerequisite: ARCH-211 or LARCH-207

ARCH-421 (Formerly A631) **3-0-3**
Intorduction to Historic Preservation
This course provides an introduction to the field of Historic Preservation. The goals include: development of discipline-specific terminology; overview of preservation law, policies, and advocacy; analysis of current issues relative to sustainability, preservation and adaptive reuse. Field trips to sites and guest speakers complement lecture/discussion format.
Prerequisites: ARCH-211 &ARCH-202, INTD-202 or LARCH-202

ARCH-422 (Formerly A703) **3-0-3**
Theories of Architecture: Seminar
This seminar will focus on selected topics that characterize architectural theory during the "Modern" era — from the late 19th century to the present. As a historical survey of the fundamental principles which have shaped architectural thinking, the course will review, in a critical way, the major issues which have influenced both the meaning of and the practice of architecture during that time: the relationship of architects to their work and to the culture-at-large; the impact of technology and politics; and the spatial experience of a building. Theorists' critiques of contemporary practice will be emphasized, and current theories will be explored in an attempt to clarify an approach to the study and practice of architecture.
Prerequisite: AHIST-306 or LARCH-411

ARCH-425 (Formerly A611) **3-0-3**
Meaning in Architectural Ornamentation
This elective course raises some theoretical questions that are relevant to contemporary practice. What is ornament? How and why have attitudes toward architectural ornamentation changed through history? Is ornament essential to architecture? Lectures will be presented following a reconstructed chronology of theoretical topics; from the things (res materialis) of which architecture consists; to the "rules" and "abuses" of classical ornament; to the role of imitation; to the effects of the Industrial and Post-industrial Revolutions on theories of ornament. The relationship between the forms and the materials of ornament will be examined in lecture and group discussions.
Prerequisite: AHIST-206 or LARCH-411

ARCH-426 (Formerly A636) **1-4-3**
Design/Build
Through a combination of lecture and lab, students apply knowledge of building technologies and structural systems to the design and construction of a project at appropriate scale. Working under the supervision of faculty, students research, plan, and build their solution to a problem of topical interest.
Prerequisite: ARCH-211 or LARCH-207

ARCH-427 (Formerly A640) **3-0-3**
Construction Management I
Through analysis of relevant case studies, this course examines construction management concepts and principles as applied to contemporary practice and investigates the intersecting roles of construction manager, architect, client, and general contractor. Topics include planning, programming and documentation from pre-construction to project close-out; legal aspects relative to environmental protection, public and worker safety, contract documents, insurance and bonds; labor relations and inspection; project control, total quality management and ethics in construction management.
Prerequisites: ARCH-202 or INTD-202, and ARCH-211 or INTD-206

ARCH-428 **3-0-3**
Construction Management II
Utilizing pertinent case studies, this course focuses upon the planning and scheduling stages of the building process, with particular emphasis upon reading construction documents and basic estimating principles applied to small-scale, residential and commercial projects. Construction site procedures as well as techniques for estimating unit quantities and costs of materials, labor and equipment, are introduced, and given industry application utilizing building specifications and computer software.
Prerequisite: ARCH-427

ARCH-430 (Formerly A637) **1-4-3**
Architecture in Education
Each student is teamed with a practicing architect and a classroom teacher to develop and carry out an eight-week program for a class of school children (elementary through high school). The emphasis is on hands-on activities and direct experiences (neighborhood walks, etc.) that introduce the children to the basic principles of architecture and the built environment. The program is in collaboration with the Foundation for Architecture, the Philadelphia Public School District and local architecture firms.
Prerequisites: ARCH-202 or LARCH-202; WRTG-215; and the ability to travel to sites away from campus

ARCH-431 (Formerly A762) **0-2-1**
Portfolio Presentation
This course focuses on the evaluation, documentation, layout and formal presentation of the student's work. Writing and verbal skills are emphasized as an important aspect of presenting a portfolio. Various graphic techniques are introduced.
Prerequisites: grade of "C" or better in both ARCH-301 and ARCH-302 or LARCH-302; or grade of "C" or better in INTD-401

ARCH-434 (Formerly A614) **3-0-3**
Water and Architecture
The rich architecture of public water in urban and rural contexts is a key to the cultural landscape. From the gravity systems of a Roman city, through the rich world of medieval water, and concluding with water powered by outside energy, we will study Western, Arab and Asian water systems. Through architecture, the course will link the technology of water cycles, purity, collection and storage with the aesthetics and rituals of culture.
Prerequisite: SOC-2XX

ARCH-2xx **3-0-3**
Great Buildings: Structure, Style, and Context
This course surveys selected, key monuments of architectural history from ancient through modern times that are paradigmatic of building art and science during a particular period. The buildings spotlighted represent dominant "types" from pyramids to skyscrapers that are not only laboratories for innovative design and cutting-edge technologies, but also are expressive of the values and aspirations of the society at large. Developments in the areas of materiality and structural systems will be integrated with changing social, economic, political, stylistic, and environmental demands that are normative of a particular time and place. This course may not be taken by undergraduate students in the School of Architecture.
Prerequisite: WRTG-101

ARCH-499 **1-4-3**
Construction Capstone Project
This course develops a higher level understanding of the construction process by examining the problem solving that begins with conception and progresses through the completion, start-up and maintenance of a project. Utilizing the technical design drawings that students completed in ARCH-324 Visualization: Experimental Modeling and generated through Building Information Modeling (BIM) software, this course provides an opportunity to simulate the progressive stages of a construction project, thereby synthesizing knowledge and skills acquired in previous coursework.
Prerequisites: ARCH-428, ARCH-324

ARCH-501 (Formerly A811) **0-12-6**
Design IX for Architecture
This comprehensive course demands that students work in teams integrating constructional, structural and environmental systems in the design and documentation of a large and complex building. Students research building type and systems precedents and their resulting impact on built form, analyze material properties, specify component building systems and apply codes and standards to fulfill technical, programmatic and aesthetic needs.
Prerequisites: ARCH-403 or ARCH 404; ARCH-405, grade of "C" or better in ARCH-402

ARCH-502 (Formerly A812) **0-12-6**
Design X for Architecture
This course requires comprehensive designs that articulate the physical, spiritual and theoretical, as well as demonstrate full resolution of technical aspects.

Thesis: Students select a design concentration (ARCH-591) requiring design exploration; development and testing of design proposals reviewed by faculty and thesis committee members.
Prerequisites: grade of "C" or better in ARCH-591 and

ARCH-501
Faculty Directed Studio
Students choose from available studios and topics requiring individual research, programming, analysis and synthesis during development and design of a selected project, reviewed by faculty and invited professionals.
Prerequisite: grade of "C" or better in ARCH-501

ARCH-505 (Formerly A851) **2-0-2**
Professional Management I
This course focuses on the nature of the architect's practice by examining individual projects. Detailed studies of the legal, financial and management issues of individual projects will be studied. An examination of the project process, from development through construction is conducted, including administrative procedures, economic systems, codes, standards and regulations. The responsibilities of the various professional disciplines and of each participant's goals and values are reviewed. Also covered are the requirements for professional registration.
Prerequisites: grade of "C" or better in both ARCH-301 and ARCH-302 or LARCH-302

ARCH-506 (Formerly A852) **2-0-2**
Professional Management II
This course is a continuation of Professional Management I. It focuses on the nature of the architect's practice by

examining office typologies. Detailed studies of the legal, financial, marketing and management issues associated with the different forms of office proprietorship are studied. The contractual and ethical obligations of the architect, particularly in response to client needs and safety, are examined. Codes, standards and regulations and their relationship to the different activities of practice are presented.
Prerequisite: ARCH-505

ARCH-511 (Formerly A845)
Technology V: Advanced Lab
A companion to ARCH-501: Design IX for Architecture, this lecture/laboratory provides a comprehensive analytic exploration of building systems and their impact on building design. Lectures, readings, discussions and design problems will frame the analysis, selection, design and coordination of building systems as integral to the architectural design and construction process and raise philosophical issues related to the consideration and application of technology.
Corequisite: ARCH-501

ARCH-591 (Formerly A810) **3-0-3**
Architecture Thesis and Research
This writing-intensive course is the first of a two-semester sequence of independent research and design inquiry. Lectures, seminars and a faculty thesis advisor help inform student research and lead to the development of a comprehensive thesis document. The thesis document articulates a course of architectural exploration and includes a position paper outlining the architectural significance of the thesis study, programming, site analysis, case studies and other demonstrations of the student's understanding of the thesis topic.
Prerequisites: grade of "C" or better in ARCH-402, and faculty committee review and acceptance of student's portfolio, thesis intent and academic record

ARCHDSN-208 (Formerly A321) **1-4-3**
Visualization I: Digital Modeling
The primary intent of this course is to establish the computer as an effective tool in the design and presentation process. The course will focus on two primary areas in this regard: visualizing design concepts in three dimensions and communicating those concepts in a manner consistent with studio level work. Each project will explore various methods of describing two and three dimensional objects and spaces.
Prerequisite: grade of "C" or better in ADFND-102

ARCHDSN-210 (Formerly A341) **2-2-3**
Technology I: Materials and Methods
This course focuses on the presentation of the technical factors of construction that affect a building's structure. Students are introduced to and compare the nature and structural characteristics of the major construction systems of wood, masonry, steel and concrete. Structural principles, as well as building and zoning codes, are introduced and their influence on form and choice of materials is emphasized.
Prerequisite: grade of "C" or better in ADFND-102

ARCHDSN-214 (Formerly A602) **2-2-3**
Model Building
This elective course focuses on the visualization of ideas in three dimensions. Fundamentals of model building are studied from a perspective that stresses the relationship between the design process and the application of current model-building techniques. Assignments emphasize the development of skills necessary to construct models and the ability to budget for time and materials. Mock-ups, quick sketch models and final presentation models are stressed.
Prerequisite: grade of "C" or better in ADFND-101

ARCHDSN-381 (Formerly A999) **0-0-3**
Independent Study in Architecture, Interior Design, and Landscape Architecture
For further details, see general description of Independent Study in "Academic Policies" section.

ARCHDSN-493-494 (Formerly A791) **0-0-(3 or 6)**
Architecture Internship I & II
A professional internship provides an opportunity for professional experience supporting application and further development of the knowledge gained in the classroom. Under faculty supervision, students work in positions related to the major, minor and/or career goal, develop learning objectives and complete reflective academic assignments. Students should be exposed to a broad spectrum of professional practice, particularly those not available in the academic setting, and are expected to make a professional contribution to their employer.
Prerequisites: 2.5 G.P.A.; completion of 60 credits for ID or 90 credits if AR or LA; and permission of the Internship director. Additional requirements may apply. See "Internship Program" section for further details.

AREAST-201 (Formerly L351) **3-0-3**
Europe
A multidisciplinary study of European society, history and culture with emphasis on the 20th century. Through a variety of materials and approaches including fiction, visual sources, political commentary and cultural artifacts, this course will examine the rise of the European Community and the continuing conflict between ethnic, cultural and political forces in the region.
Prerequisite: WRTG-101, HIST-11X

AREAST-202 (Formerly L352) **3-0-3**
Latin America
A multidisciplinary introduction to Latin American history, society and culture through a variety of materials including literature, film, music, journalistic accounts and history with emphasis upon the 20th century. The course will emphasize the complex interplay between indigenous, Iberian and African influences in the forging of the continent's past, present and future. Students will examine the roots of everyday and state violence, as well as the current controversies over "liberalization" and "market" economies.
Prerequisite: WRTG-101, HIST-11X

AREAST-205 (Formerly L353) **3-0-3**
East Asia
A multidisciplinary course examining the shifting relationship between "tradition" and "modernity" in East Asia. The course will explore such topics as kinship, gender relations and stratification systems in the Asian past and present. Students will investigate some of the different paths of development that Asian societies have followed in the last two centuries including communism and state-directed capitalism. The course will close with Asia's increasing significance in the globalization of capitalism.
Prerequisite: WRTG-101, HIST-11X

AREAST-208 (Formerly L354) **3-0-3**
Africa
A multidisciplinary introduction to African civilization through a variety of sources including oral epics, film, music, literature, ethnographies, historical studies and visual materials with emphasis upon the 20th century. The course will investigate such topics as the cultural roots of African leadership, the enduring importance of family and community, the impact of the trans-Atlantic trade in human beings on African societies, the struggle to achieve a just, multi-ethnic society in Southern Africa, and the present continent-wide democratization process.
Prerequisite: WRTG-101, HIST-11X

AREAST-210 (Formerly L355) **3-0-3**
Middle East
The contemporary Middle East will be examined from an interdisciplinary perspective, including the region's history, geography, politics, economy, religions and cultures with emphasis upon the 20th century. The course aims to promote an understanding of the social dynamics of this region, as well as to provide the basic tools for a better understanding of world events in general.
Prerequisite: WRTG-101, HIST-11X

AREAST-220 (Formerly L356) **3-0-3**
Great Britain: Study Abroad Preparation
An interdisciplinary study of Great Britain (England, Scotland, Wales and Northern Ireland) including social, political, economic and cultural issues with particular emphasis on the post-1945 period. Students will also learn how to understand cultural difference and to cope with culture shock. This course prepares students for study abroad programs in Great Britain. Open to all students.
Prerequisite: WRTG-101, HIST-11X

AREAST-226 **3-0-3**
Italy: Study Abroad Preparation
A multidisciplinary study of Italy including social, political, economic and cultural issues with particular emphasis upon the post-1945 period; attention is given also to Italy's role in Europe. The course also introduces students to how to learn a language and basic communication skills in Italian needed to cope with daily living in the society, with a special emphasis on issues relating to "culture shock" when living, working and studying in Italy.
Prerequisite: WRTG-101, HIST-11X

AREAST-227 **3-0-3**
South Asia
A multidisciplinary introduction to the Asian Subcontinent, including the countries of India, Pakistan, Bangladesh and Sri Lanka. The region's modern history, geography, politics, economies, religions, cultures and social issues are each discussed in an integrative manner. Regional popular culture, including modern music, literature and cinema, are also analyzed in order to help students understand the rapidly changing nature of this region today.
Prerequisites: WRTG-101, HIST-11X

AREAST-383 (Formerly L949) **0-0-3**
Independent Study in Area Studies
See the statement on Independent Study in the "Academic Policies" section.

ARTH-101 (Formerly T771) **3-0-3**
History of Western Art I
The evolution of Western painting, sculpture and architecture from pre-history to the 16th century is covered. A thorough foundation in art and ideas with special emphasis on styles is presented as inspiration for designers.

ARTH-102 (Formerly T772) **3-0-3**
History of Western Art II
The evolution of Western painting, sculpture and architecture from the 16th century to the present is covered with the same emphasis on styles.

ARTH-314 (Formerly T773) **3-0-3**
History of Textiles and Costumes
A multi-faceted survey of textiles and costumes from ancient cultures to the present, technical- and visual-design aspects of the textile arts, the influence of trade on design trends, styles in period costume and the sociological implications of dress are all incorporated.
Prerequisite: DSGNFND-203 or DSGNFND-423

ARTS-105 (Formerly L155) **3-0-3**
Music
Music is an important form of human expression and creativity. This course combines music appreciation with attention to why certain societies produced kinds of music. Previous knowledge of music is not required.

ARTS-120 (Formerly L151) **3-0-3**
Performing Arts
The purpose of this course is to help students acquire a critical appreciation both for the process of creating various forms of art and for the final products in theater, musical theater, opera and dance. The course will also explore how aesthetic values are influenced by society. Students will be required to attend professional performances in the Philadelphia area.

ARTS-123 (Formerly L152) **3-0-3**
Ideas and Images
Beginning with analysis of basic visual and compositional elements, students will discover how artists and designers have created images that express and reflect cultural values.

Historical and cross-cultural connections are emphasized in seminar approach. May not be taken by any design or architecture major. This course may be used to satisfy a College Studies requirement, but not free elective credits.

BIOL-101 (Formerly L311) 3-2-3
Current Topics in Biology
(for non-science majors)
Explore *contemporary biological* topics that you hear and read about or that are part of your daily life and learn the fundamental scientific concepts that underlie them. Topics will cover molecules to cells and organisms to populations as well as inheritance, development, infectious disease and what constitutes well-supported science. The course utilizes projects, hands-on activities, online discussions and group work to illustrate concepts.

BIOL-103 (Formerly L323) 3-0-3
Biology I
(required for Science majors)
The objective of this course is to gain an understanding of the cellular, molecular and genetic basis of life. Students will be introduced to the physical and chemical principles involved in biological processes, the microscopic world of the cell, regulation of gene expression and the laws that govern inheritance. This course and BIOL-104 and BIOL-104L Biology II are the introductory courses for science majors.
Corequisite: BIOL-103L

BIOL-103L (Formerly L323) 0-3-1
Biology I Laboratory
This laboratory course reinforces the understanding of cellular, molecular and genetic processes learned in Biology I lecture. Exercises include microscopic examination of cells and tissues, biochemical analysis of enzyme activity, osmosis, cellular respiration and genetic investigation, including electrophoretic analysis of mutation.
Corequisite: BIOL-103

BIOL-104 (Formerly S212) 3-0-3
Biology II
(for science majors)
In this course students will apply the principles learned in Biology I to the structure and function of organisms. Physiological processes that will be examined include nutrition, gas exchange, transport and regulation of body fluids, chemical and nervous control, and reproduction.
Corequisite: BIOL-104
Prerequisite: grade of "C-" (1.67) or better in BIOL-103 and BIOL-103L

BIOL-104L (Formerly S212) 0-3-1
Biology II Laboratory
(for science majors)
In this course students will apply the principles learned in Biology I to the structure and function of organisms. Physiological processes that will be examined include nutrition, gas exchange, transport and regulation of body fluids, chemical and nervous control, and reproduction.
Corequisite: BIOL-104
Prerequisites: grade of "C-" (1.67) or better in BIOL-103 and BIOL-103L

BIOL-201 (Formerly S218) 3-0-3
Human Anatomy and Physiology I
This course is the first of a two-semester sequence. This course will examine anatomical and physiological aspects of the following systems of humans: tissues, integumentary, musculoskeletal and neurologic. A close correlation between lecture and laboratory topics will be maintained. During lecture, both anatomy and physiology will be discussed however greater emphasis will be placed on the physiology of each system while during the laboratory session, greater emphasis will be placed on anatomy.
Corequisite: BIOL-201L
Prerequisites: grade of "C-" (1.67) or better in BIOL-104 and BIOL-104L

BIOL-201L (Formerly S218) 0-2-1
Human Anatomy and Physiology I Laboratory
The A&P laboratory sessions will provide students with hands-on learning opportunities to help conceptualize content discussed in lecture. During lab, students will work on problem sets, examine and dissect organs and/or anatomical models, use microscopes, perform basic physiological experiments and examine cadaver specimens. During laboratory sessions of the first half of this two-semester course, emphasis will be placed on the anatomy of the relevant system.
Corequisite: BIOL-201
Prerequisites: grade of "C-" (1.67) or better in BIOL-104 and BIOL-104L

BIOL-202 (Formerly S219) 3-0-3
Human Anatomy and Physiology II
This course is the second of a two semester sequence. This course will examine anatomical and physiological aspects of the following systems of humans: sensory, endocrine, circulation, respiration, nutrition-digestion, excretion and reproductive. During lecture, both anatomy and physiology will be discussed. While some lab sessions will focus mainly on the anatomy of the current system, most laboratory sessions will involve physiological experiments to provide students with greater insight into the physiology of the current system. A close correlation between lecture and laboratory topics will be maintained.
Corequisite: BIOL-202L
Prerequisites: BIOL-201 and BIOL-201L

BIOL-202L (Formerly S219) 0-2-1
Human Anatomy and Physiology II Laboratory
The A&P laboratory sessions will provide students with hands-on learning opportunities to help conceptualize content discussed in lecture. During lab, students will work on problem sets, examine and dissect organs and/or anatomical models, use microscopes, perform basic physiological experiments and examine cadaver specimens. While some lab sessions will focus mainly on the anatomy of the current system, most laboratory sessions will involve physiological

experiments to provide students with greater insight into the physiology of the current system.
Corequisite: BIOL-20.
Prerequisites:BIOL-201 and BIOL 201L

BIOL-204 (Formerly S213) **3-0-3**
Cell Biology
This course focuses on both structure and function of cellular components. Cellular structure is investigated from the molecular level to macromolecular assemblies and organelles with the major emphasis on how these structures function to form a dynamic cell interacting with its environment. Cell growth, reproduction and communication are discussed. Cells studies include single cells to those organized into tissues in multicellular organisms.
Corequisite: BIOL-204L
Prerequisites: CHEM-201 and CHEM-201L, grade of "C–" (1.67) or better in BIOL-104 and BIOL-104L

BIOL-204L (Formerly S213) **0-3-1**
Cell Biology Laboratory
The purpose of this laboratory is to introduce the student to some of the procedures and techniques used to investigate cell structure and function, including use of the microscope, differential cell fractionation and biochemical exercises.
Corequisite: BIOL-204
Prerequisite: CHEM-201 and CHEM 201L, grade of "C-" (1.67) or better in BIOL-104 and BIOL-104L

BIOL-205 (Formerly S217) **3-0-3**
Plant Biology*(writing intensive)*Students will study the diversity and evolution of plants, their structure, selected physiological processes, and current topics in plant biology.
Corequisite: BIOL-205L
Prerequisites: grade of "C-" (1.67) or better in BIOL-104 and BIOL-104L

BIOL-205L (Formerly S217) **0-3-1**
Plant Biology Laboratory
(writing intensive)
This laboratory course includes the examination of algae to flowering plants, and cells, tissues and organs to whole plants. Plant species will be propagated by cloning and spore culture.
Corequisite: BIOL-205
Prerequisites: grade of "C–" (1.67) or better in BIOL-104 and BIOL-104L

BIOL-207 (Formerly S227) **3-0-3**
Principles of Genetics
This course will consider Mendelian genetics and the contributions of other early research on our present knowledge. Included will be crossover consequences, gene mapping, sex linkage, statistical genetics, mutation, chromosome abnormalities and human genetics.
Corequisite: BIOL-207 L, Prerequisite: grade of "C-" or better in BIOL-104 and BIOL-104L

BIOL-207L (Formerly S227) **0-3-1**
Principles of Genetics Laboratory
This is the laboratory course which must be taken to complete the genetics requirement. The laboratory exercises use current techniques of DNA technology as applied to disease diagnosis, forensic determinations and the isolation and structural examination of the DNA molecule.
Corequisite: BIOL-207, Prerequisites: grade of "C–" or better in BIOL-104 and BIOL-104L

BIOL-209 (Formerly S235) **3-0-3**
Medical Botany
(writing intensive)
This course focuses on the use of plants and plant products in human health. Topics include a survey of plants and plant families with medicinal properties, their cultivation and conservation, physiological effects of plant extracts, plant-derived drugs, historical and cultural aspects of medicinal plant use.
Prerequisite: grade of "C-" (1.67) or better in BIOL-104 and BIOL-104L

BIOL-221 (Formerly S221) **3-0-3**
Microbiology
This course provides an introduction to environmental, industrial, food and medical microbiology. An understanding of the methods by which microbes produce disease as well as interact with body surfaces to maintain human health is also discussed.
Corequisite: BIOL-221L
Prerequisites: grade of "C-" (1.67) or better in BIOL-104 and BIOL-104L

BIOL-221L (FormerlyS221) **0-3-1**
Microbiology Laboratory
Laboratories are designed to complement and expand information from lectures. Students will gain experience in classical techniques used by environmental and clinical microbiologists for determining unknown bacteria and molds. Practical studies will also compare historical and current methods for physical and chemical removal of microbes.
Corequisites: BIOL-221
Prerequisites: grade of "C-" (1.67) or better in BIOL-104 and BIOL-104L

BIOL-303 (Formerly S236) **3-3-4**
Histology
Histology provides students with an integrated perspective of how adaptations in physiology, biochemistry and morphology allow cellular organization into human organs and support systems. Laboratory studies will introduce students to abnormal embryology, which is the core of many aspects of disease, especially those affecting children. As well as analysis of prepared slides, students will learn to interpret and present abnormal histology/embryology in the form of "case histories."
Prerequisites: grade of "C-" (1.67) or better in BIOL-104 and BIOL-104L and junior status

BIOL-307 (Formerly S226) **3-0-3**
Embryology
This course is an elective for students who have completed two semesters of Science-major Biology. It will consider animal embryology from gametogenesis (of sperm and egg) to organogenesis (development of organs) and specification. The course includes cytogenesis (development of cells) and morphogenesis (change in body form) of the developing embryo.
Prerequisite: grade of "C-" (1.67) or better in BIOL-104 and BIOL-104L

BIOL-312 (Formerly S215) **3-4-4**
Biochemistry I
Biochemistry I introduces the student to protein chemistry, protein structure/function relationships, and basic enzymology. It also covers chemistry of carbohydrates and lipids with particular emphasis on human metabolism of these compounds. The lab section introduces some basic techniques used routinely in a biochemistry research setting including protein purification, enzyme kinetics and carbohydrate chemistry.
Prerequisite: grade of "C" or better in CHEM-202 and CHEM 202L

BIOL-313 (Formerly S216) **3-4-4**
Biochemistry II
Biochemistry II continues the metabolic theme of Biochemistry I with emphasis on nitrogen-containing compounds (amino acids, urea cycle, nucleotide biosynthesis). Also considered are biological membranes, transmembrane transport and signaling. The course concludes with the biochemistry of polynucleotides (DNA and RNA) and protein biosynthesis and trafficing. The lab section continues the theme of Biochemistry I lab with studies on carbohydrate chemistry, lipid chemistry and handling of polynucleotides.
Prerequisite: grade of "C" or better in BIOL-312

BIOL-315 (Formerly S228) **3-0-3**
Immunology
(writing intensive)
The objective of this course is to introduce students to the innate mechanisms by which the human body prevents infection, as well as those involved in specifically acquired immunity. Topics include the structural, functional and genetic aspects of a fully competent immune system that can successfully prevent attack by millions of microorganisms each day. Exploration of the many medical conditions which result from hyperactive- or impaired-immune responses including allergy, autoimmunity, cancer and AIDS are studied.
Prerequisites: BIOL-221 and BIOL-221L

BIOL-371 (Formerly S220) **3-0-3 or 3-3-4**
Selected Topics in Biology
This course provides an opportunity to explore topics in biology not developed in other courses. Examples include specialized areas of organismal biology, conservation biology, developmental and molecular biology. Students may take this course more than once as the topics differ each time it is offered.
Prerequisite: grade of "C-" (1.67) or better in BIOL-104 and BIOL-104L or permission of instructor

BIOL-391 (Formerly S231) **0-9-3**
Research in Biology I
Independent research is taken under the guidance of a faculty member. The research will include a written proposal prior to initiation of the project, a literature search, experimental work, a written abstract and report upon completion of the semester, and an oral presentation of the work. Guidelines for approval and for final evaluation are available in the School of Science and Health office.
Prerequisite: permission of the dean

BIOL-392 (Formerly S232) **0-9-3**
Research in Biology II
Continuation of BIOL-391.
Prerequisites: BIOL-391, permission of the dean

BIOL-401 (Formerly S214) **3-3-4**
Molecular Biology
The first segment of this course deals with molecular genetics with emphasis on in-class experiments. This is followed by a detailed treatment of the molecular basis of genetics, involving the structure and functions of the DNA molecule, chromosome maps, etc. The course concludes with a seminar-type discussion of disease states that have been shown to be genetically linked.
Prerequisite: grade of "C-" (1.67) or better in BIOL-104 and BIOL-104L

BIOL-407 (Formerly S229) **3-3-4**
Comparative Vertebrate Anatomy
A comparative study of the structure, function and evolutionary relationships of the major vertebrate groups.
Prerequisite: grade of "C-" (1.67) or better in BIOL-104 and BIOL-104L

BIOL-409 (Formerly S230) **3-3-4**
Cellular Analysis
This course will teach fundamental methods of contemporary cellular and biotechnology. Laboratory exercises focus on microscopic, biochemical and molecular analysis of cells and cell structures.
Prerequisites: BIOL-204 and BIOL-204L

BIOL-411 (Formerly S298) **3-0-3**
Life Science Seminar
The course covers recent advances in the biological and medical sciences by way of formal presentations and discussions involving both students and invited faculty. In addition, students will learn techniques for the preparation of a research project involving a literature search. Students will be required to carry out a research project and present a formal seminar on this work to their peers.
Prerequisites: grade of "C-" (1.67) or better in BIOL-104 AND BIOL-104L and senior status

BIOL-413 **3-3-4**
Pathology
Pathology represents an integrated perspective of how disease results from a series of common, underlying changes resulting from initial and continued cell stresses. Students will relate disease processes to the symptoms and signs reported by patients and interpreted by physicians through the use of case history presentation and will acquire a variety of light microscopy techniques routinely used in hospitals for the diagnosis and monitoring of abnormal pathology.
Prerequisites: BIOL-202 and/or BIOL-303

BIOL-493, BIOL-494 (Formerly S290, S291) **0-0-3, 0-0-3**
Preceptorship I and II
The preceptorship experience is designed to enhance the student's knowledge, technical skills and problem-solving abilities within the biomedical science realm. These studies will be performed off campus under the supervision of biomedical professionals and other practitioners in the medical sciences, previously approved by the program director. Designed to be taken as summer classes between the sophomore and junior years. A minimum of 54-hours required, preferably as six, one-week periods of nine hours per week.

BLAW-301 (Formerly B421) **3-0-3**
Business Law I
Lecture, class discussion and case problems emphasizing legal principles on the following topics: the legal environment, government regulation of business, contracts, personal property, environmental liability as it relates to business transactions, bankruptcy, employment and human resources, and current legal issues. The legal environment as it impacts business decision making is addressed.

BLAW-302 (Formerly B422) **3-0-3**
Business Law II
Lecture, class discussion and case problems emphasizing legal principles on the following topics: agency; corporations; partnerships and joint ventures; commercial paper and real property; limited liability companies; international legal environment and current legal issues.
Prerequisite: BLAW-301

BUS-101 (Formerly B301) **3-0-3**
Survey of Business (non-business majors)
This course is designed to provide the non-business major with a basic foundation in a broad range of business subjects including economics, organizations and human resources, accounting, finance, marketing, business law, ethics, cultural diversity and strategic management. It may be taken by non-business majors as a free elective or as the first course in the sequence for the business minor. This course may not be used by business majors to satisfy any curriculum requirement.

BUS-493 (Formerly B791) **0-0-(3 or 6)**
Business Internship
A professional internship provides an opportunity for professional experience supporting application and further development of the knowledge gained in the classroom. Under faculty supervision, students work in positions related to the major, minor and/or career goal, develop learning objectives and complete reflective academic assignments. Students should be exposed to a broad spectrum of professional practice, particularly those not available in the academic setting, and are expected to make a professional contribution to their employer.
Prerequisites: 2.5 G.P.A., completion of 60 credits, and permission of the Internship director. Additional requirements may apply. See "Internship Program" section for further details.

CAD-201 (Formerly T122) **2-2-3**
Computer-Aided Design
This course focuses on increasing the student's individual level of computer literacy through the exploration of the basic structure of the operating system, general internet skills and the fundamentals of 2D-image making. Course projects provide hands-on experience with Adobe Photoshop and Adobe Illustrator.

CAD-204 (Formerly T126) **2-2-3**
CAD for Fashion Design
Computer aided design is utilized in practically every segment of the fashion industry from concept board development to fabric design, technical drawing, designing and formulating digital presentations. Students learn state-of-the-art CAD software and gain skills utilizing them to prepare a variety of industry-related projects.
Prerequisite: DSGNFND-303, FASHDRW-207

CAD-206 (Formerly I342) **1-4-3**
CAD I for Industrial Design
The course introduces students to computer-aided design with a focus on the industrial design processes. In an intuitive fashion, students create and refine designs using a solids-modeling software package. In order to recognize the critical role CAD plays in the development of designs, students will use designs created in design studio courses as the subject matter of the CAD activities. Design-control drawings, three-dimensional rendered drawings and perspective drawings will be the course's output.
Prerequisite: INDD-102 or permission of the instructor

CAD-301 (Formerly T123) **1-5-3**
Advanced Computer-Aided Design
This course focuses on both the conceptual and technical aspects of digital portfolio presentation. Course projects provide an in-depth exploration of Adobe Photoshop, Adobe Illustrator and multimedia-design software, Students must have a clear understanding of Adobe Photoshop and Adobe Illustrator.
Prerequisites: CAD-201

CAD-306 (Formerly I621) **1-4-3**
CAD II: Digital Design Techniques
This course will build upon principles introduced in introductory CAD courses. It is primarily a laboratory course in which students will learn to take their early design concepts through to the final presentation using advanced digital

design techniques. Students will use multiple digital design software packages across computer platforms with an emphasis on CAID packages such as NURBS modelers and animation software, as well as vector-based, desktop-publishing programs and bitmap-based programs.
Prerequisite: grade of "C" or better in CAD-206 or permission of the instructor

CAD-401 (Formerly T125) **2-2-3**
Apparel CAD/CAM
A comprehensive course that incorporates software widely used in the apparel industry where patterns are created then graded and made into markers. Industry standards and specifications are followed for each area. Students use software to solve problems and increase productivity.
Prerequisite: FASHDES-213

CHEM-101 (Formerly L312) **3-2-3**
General Chemistry
(for non-science majors)
This course allows students to pursue further study of chemical issues as they relate to the consumer and to health. Students will become familiar with issues surrounding the use of everyday products such as laundry products, personal-care products, plastics, fibers and food additives. Also included are an introduction to organic chemistry, biochemistry and the chemistry of some health-related issues. Students should complete this course with an awareness of the complexities of the chemical structures in their daily lives and the issues involving their use and abuse, so that they may make more informed decisions.

CHEM-103 (Formerly L321) **4-0-3**
Chemistry I
(required for Science and Engineering majors)
An introduction to the fundamental laws and theories of chemistry, including the properties of matter, chemical reactions and stoichiometry, energy and thermochemistry, atomic structure, and the periodic table. Basic knowledge of algebra, geometry and trigonometry is presumed. Students enrolled in MATH-099 may not take this course. This course is not recommended for students enrolled in WRTG-099 or READ-099 fundamentals courses.
Corequisite: CHEM-103L

CHEM-103L (Formerly L321) **0-3-1**
Chemistry I Laboratory
(required for Science and Engineering majors)
This hands-on laboratory-based course highlights concepts covered in Chemistry I Lecture. Emphasis is placed on developing good laboratory and data analysis skills. Experiments include acid/base titrations, heat determination using calorimeters and oxidation/reduction reactions.
Corequisite: CHEM-103

CHEM-104 (Formerly C112) **4-0-3**
Chemistry II
(required for science majors)
Continuation of CHEM 103 Chemistry I. that provides an introduction to chemical bonding and molecular geometry, property of gases, intermolecular attractions, solutions, kinetics, chemical equilibrium, acids, bases and thermodynamics.
Corequisite: CHEM-104L
Prerequisites: CHEM-103 and CHEM-103L

CHEM-104L (Formerly C112) **0-3-1**
Chemistry II Laboratory
(required for science majors)
This hands-on laboratory-based course highlights concepts covered in Chemistry II Lecture. Analytical and data interpretation/presentation skills are honed through a series of experiments including aspirin synthesis and determination of vitamin C content.
Corequisite: CHEM-104L
Prerequisites: CHEM-103 and CHEM-103L

CHEM-201, CHEM 202 **3-0-3, 3-0-3**
(Formerly C121, C122)
Organic Chemistry I and II
A two semester lecture series in the chemistry of hydrocarbons and their derivatives. Initial topics include the origin of organic chemistry, chemical bonding, the structure and properties of organic compounds and stereochemistry. This is followed by a detailed consideration of the structure, synthesis and reactions of all major families of organic compounds.
Corequisites: CHEM-201 and CHEM-202L
Prerequisite: CHEM-104 and CHEM 104L

CHEM-201L, CHEM 202L **0-4-1, 0-4-1**
(Formerly C121, C122
Organic Chemistry I and II Laboratory
Two semester laboratory companion course to Organic Chemistry lecture. Topics include practical instruction in basic organic chemistry techniques of purification, extraction, chromatography and spectroscopy; followed by representative experiments of the major organic functional groups.
Corequisites: CHEM-201, CHEM 202
Prerequisites: CHEM-104 and CHEM-104L

CHEM-214 (Formerly C123) **3-0-3**
Bioorganic Chemistry
This course is a one-semester overview of organic chemistry and biochemistry for PA majors and open to those who meet the prerequisites. After introduction to different functional groups, the course provides a systematic study of the biologically important compounds, including amino acids, proteins, nucleic acids, enzymes, carbohydrates and lipids. Emphasis will be placed upon the structure, properties and functions of these compounds. The course will culminate in an overarching discussion of the intricacies of metabolism of some of these biomolecules.
Prerequisites: CHEM-104 and CHEM 104L, grade of "C-" (1.67) or better in BIOL-104 and BIOL-104L

CHEM-206 **3-3-4**
Forensic Chemistry
Students will become acquainted with the various subdisciplines of forensic science with emphasis on the chemical principles used to collect, process, identify, quantify and

qualify crime scene/victim evidence. Through lectures and case studies, the scientific foundations for the examination of physical, chemical, and biological evidence will be explored. Laboratory sessions will provide hands on experience with modern forensic techniques used to analyze physical evidence such as blood, glass, and fibers. The course will culminate with a mock trial in which students present the results of their analytical investigations to a jury.
Prerequisites: CHEM-104, CHEM-104L, BIO-104, BIO-104L

CHEM-305 (Formerly C131) **3-4-4**
Physical Chemistry I
Fundamental topics in thermodynamics are covered, emphasizing the first three laws of thermodynamics. Applications of these principles and chemical equilibrium to ideal gases, real gases, solutions and solids are discussed. Chemical kinetics is covered in detail. A brief examination of the field of chemical dynamics is included. Where appropriate, current research in these areas will be discussed. The laboratory will emphasize using chemistry techniques such as FTIR, UV-Vis, GC and computational programs to examine fundamental physical processes.
Prerequisites: CHEM-202 and CHEM 202L, PHYS-203 and PHYS-203L, and pre or corequisite MATH-213

CHEM-306 (Formerly C132) **3-4-4**
Physical Chemistry II
Quantum mechanics is the fundamental theory underlying the description of atoms. It details how atoms can interact on the microscopic level. Quantum mechanics will be used to understand the observed spectroscopic properties of atoms and molecules. Statistical mechanics, which connects the macroscopic world of thermodynamics and kinetics with quantum mechanics, will also be covered. The laboratory is a continuation of CHEM-305 with an emphasis on spectroscopy.
Prerequisite: CHEM-305

CHEM-309 (Formerly C142) **3-3-4**
Inorganic Chemistry
An advanced course in modern inorganic chemistry that covers structure and bonding, symmetry, thermodynamics and mechanisms; along with a systematic discussion of reactions and properties of representative main group and transition metal elements. This course will also illustrate some of the relationships between inorganic chemistry and other areas of chemistry, including biochemistry. The laboratory covers a variety of synthetic techniques and physical and analytical methodologies that are particularly applicable to inorganic compounds.
Prerequisite: CHEM-306

CHEM-323 (Formerly C193) **3-3-4**
Instrumental Methods of Analysis
(writing intensive)
This course provides an overview of the variety of analytical and instrumental methods for quantitative and qualitative chemical analysis. Topics include gravimetric and volumetric analysis; ultraviolet, infrared, and visible spectroscopy; gas and liquid chromatography; and mass spectrometry. Laboratory sessions hone students' analytical- and critical-thinking skills. Students are required to work on a group research project and present their findings at a local/regional scientific conference.
Prerequisite: CHEM-202 and CHEM 202L

CHEM-371 (Formerly C199) **3-0-3**
Selected Topics in Chemistry
A study of a specialized topic and/or recent developments in one of the fields of chemistry. Sample topics might include theoretical organic chemistry, spectroscopy, photochemistry, stereo-chemistry and computational chemistry.
Prerequisite: CHEM-202 and CHEM 202L

CHEM-391 (Formerly C231) **0-9-3**
Research I in Chemistry
Students interested in pursuing independent research in any field of chemistry or biochemistry under faculty supervision must submit a proposal to the dean of the School of Science and Health for approval at least two weeks before pre-registration. The research will include both literature search and experimental work in any current field of chemistry or biochemistry. At the end of the semester, students will be expected to do an oral presentation to the faculty during reading days and prepare a comprehensive written report as mandated by the American Chemical Society.
Prerequisite: permission of School dean

CHEM-392 (Formerly C232) **0-9-3**
Research II in Chemistry
Continuation of CHEM-391

CHEM-405 (Formerly C171) **3-0-3**
Advanced Organic Chemistry
(writing intensive)
An in-depth study of the factors that affect organic reactions such as solvent, energy, kinetic and steric factors. These are used to examine a variety of reaction mechanisms such as nucleophilic substitution, elimination, aromatic substitution and rearrangement reactions.
Prerequisite: CHEM-202 and CHEM 202L

CHEM-410 (Formerly C172) **3-0-3**
Polymer Chemistry
Physical and chemical study of natural and synthetic polymers based on the mechanism of polymer formation, including such topics as stereochemistry, cationic, anionic and free radical polymerization reactions and the formation of stereospecific polymers by use of heterogeneous catalysts.
Prerequisite: CHEM-405

CHEM-417 (Formerly S431) **3-3-4**
Environmental Chemistry
Environmental Chemistry will allow students to develop a general understanding of the role of chemistry and physiochemical concepts in the development, identification and solution of environmental problems. This course will provide the necessary background for conducting chemical analyses on water, air and soil samples. The skills learned in this course will be employed in learning more about the

application of chemical principles in solving environmental problems.
Prerequisite: CHEM-104 and CHEM 104L

CHEM-418 (Formerly S443) **3-3-4**
Advanced Aquatic and Atmospheric Chemistry
This course will allow students to become familiar with the chemistry of environmental issues confronting humankind. This course will not only expand on CHEM-417, but will emphasize real-world applications. These applications will be handled with the use of thermodynamics, kinetics, acid-base equilibria, redox reactions, complex formation and surface complexation, to name a few. The investigative and problem-solving techniques and the analytical skills learned in this class will be employed throughout the student's lifetime, and are presently demanded by industrial, research and remediation firms.
Prerequisites: CHEM-202 and CHEM 202L, CHEM-417

COLLST-499 (Formerly L911) **4-0-4**
Contemporary Perspectives
(writing intensive)
The capstone seminar of the College Studies program, this writing intensive course examines the origins and impact of current international trends with an emphasis on the period since World War II. Students also address questions of intercultural understanding at the global, regional and local level. A final research paper requires students to connect these global trends with issues in their profession.
Prerequisites: Humanities I, one course from AREAST-2XX or Foreign Languages and one Junior Seminar. May not be taken CR/NC.

COMM- 100 **3-0-3**
Introduction to Communication
Students in this course learn methods, technologies and vocabulary relevant to the field of Professional Communication. In a dynamic studio environment, students apply learning as they practice multiple types of writing and other means of communication integral to contemporary professional communication. Using theory and practice, students will discuss issues that arise from professional communication in various technologies and across cultural contexts.

COMM- 105 **3-0-3**
Design as Communication
Students learn to apply basic principles and elements of design as they relate to communication. Through a study of found examples of visual design and by applying design concepts to their own work, students learn to explain how hierarchy of information, sequence of delivery, and juxtaposition of type and image all build toward audience trust and understanding of the visual experience. In addition, students will explore wider implications of considering design as communication.
(Not available to majors from the School of Design and Media or the School of Architecture.)

COMM-200 **3-0-3**
Reading the Visual
(writing intensive)
Students will analyze various visual genres such as comics, graphic novels, movies, advertisements, and political cartoons to learn how the visual elements of texts affect understanding. Students will examine the considerations required for communicating in visual media and will produce a multimedia project and a final researched project.

COMM-202 **3-0-3**
Survey of Research Methods
(writing intensive)
Students in this course learn about and design survey instruments, polls, samples, and other quantitative and qualitative research methods. Students learn about the ethics of research, especially as regards human subjects. The course includes introduction to electronic resources, print resources, archiving data, mining data, information architecture, database management, and ethnography as regards business and design.
Prerequisite: WRTG-101

DIGD-206 (Formerly D323) **1-5-3**
Electronic Imaging
This course will focus on the principles of raster and vector electronic imaging as a means to provide a solid foundation needed to succeed in the digital design field. This is a studio-based class with specific instruction in Adobe Photoshop, Adobe ImageReady and Adobe Illustrator.
Prerequisite: ADFND-102 or DSGNFND-203 or permission of the Digital Design program director

DIGD-301 (Formerly D511) **0-10-5**
Digital Design I
This studio introduces students to a variety of two-dimensional digital-design issues including typography for the screen, kinetic type, two-dimensional composition and digital spatial-systems development. Students will be introduced to the basic concepts and strategies needed to create interactivity. Issues of navigation, information architecture and electronic publishing will be covered. This studio course will include a series of progressively more difficult and technically complex projects leading toward a longer and more in-depth final project.
Prerequisites: GRAPH-202 or ARCH-202 and admission to the Digital Design program or permission of the Digital Design program director

DIGD-302 (Formerly D512) **0-10-5**
Digital Design II
This studio explores the principles and strategies involved in designing and producing effective interactive publications. Issues of navigation, digital ergonomics, information architecture, way finding, semiotics, symbolism and electronic publishing will be explored through a series of increasingly difficult and technologically demanding exercises leading toward a longer and more in-depth final project.
Prerequisite: DIGD-301

DIGD-305 (Formerly D704) **3-0-3**
Theory of Electronic Communication Seminar I
(writing intensive)
This seminar course provides students with a theoretical understanding of the role of the digital designer within the constantly evolving electronic marketplace. Issues of e-commerce, digital communication, electronic ethics and professional practice will be discussed. Special focus will be placed on how our existing culture has been, and is currently being, revolutionized by the information explosion.
Prerequisite: Admission into Digital Design program

DIGD-307 (Formerly D625) **1-5-3**
Web Design
This course exposes students to conceptual and technical aspects of Web design. Information architecture, semiotics, storyboarding and site management are taught; in addition to learning technical skills in Web production software and HTML. Additional areas of focus include typography, color theory, composition and motion graphics for the Web. The final project requires the publication of a Web site that pushes the boundaries of traditional interactive media.
Prerequisite: DIGD-206 or GRAPH 310

DIGD-310 (Formerly D627) **1-5-3**
Digital Photography
This course exposes students to the conceptual and technical aspects of digital photography. In addition to learning the details of how to make digital photographs, emphasis will be placed in exploring digital photography as an emerging media. The final project will consist of a series of photographs to be viewed in a gallery setting.
Prerequisite: DIGD-206 or GRAPH 310

DIGD-312 (Formerly D628) **1-5-3**
Multimedia Design
This course exposes students to the conceptual and technical aspects of designing and creating interactive multimedia experiences. In addition to learning technical skills in multimedia authoring software, students will be encouraged to develop innovative forms of electronic content made possible by CD-ROM media. The final project of the students' choosing will demonstrate their ability to create and develop interactive media in a cross-platform environment.
Prerequisite: DIGD-206 or approved equivalent

DIGD-401 (Formerly D711) **0-10-5**
Digital Design III
This studio will explore the translation of three- and four-dimensional concepts of space into two-dimensional screen images, interactivity and animation. Students will be introduced to the theory and practice of 3D modeling/rendering and motion graphic production. The mediums of choreography, filmmaking, architecture, performance art and music will be discussed as potential sources of inspiration for creating innovative digital spaces and experiences. A series of increasingly complex projects will culminate in a more demanding final project.
Prerequisite: DIGD-302

DIGD-403 (Formerly D714) **3-0-3**
Web Production
This course will explore the Web markup languages, HTML, CSS and Java Script, required for advanced control of Web design. Students will be introduced to these languages through lectures, demonstrations and practical exercises. The focus will be on writing, testing and de-bugging the code and its appropriate application. A series of increasingly complex exercises will gradually build the student's knowledge and understanding of these languages.
Prerequisite: DIGD-301 or DIGD-307

DIGD-405 (Formerly D629) **1-5-3**
Digital Video Design and Production
This course exposes students to the principles of digital-video design and production. Students will become versed in non-linear, video-editing software as a means to create effective digital-video presentations. A series of projects develop essential skill sets such as storyboarding, video capture, editing and compositing. A final, student-defined project will demonstrate mastery of the conceptual and technical aspects of digital-video design and production.
Prerequisite: DIGD-206 or approved equivalent

DIGD-406 (Formerly D715) **3-0-3**
Actionscript and Lingo
This course will explore the multimedia scripting languages, ActionScript and Lingo, required for advanced control of multimedia. Students will be introduced to these languages through lectures, demonstrations, and practical exercises. The focus will be on writing, testing and de-bugging the code and its appropriate application. A series of increasingly complex exercises will gradually build the students knowledge and understanding of these languages.
Prerequisite: DIGD-403

DIGD-415 (Formerly D630) **1-5-3**
3D Modeling
This course exposes students to the conceptual and technical aspects of three-dimensional modeling and virtual environments. Students will complete a series of specifically designed exercises of increasing difficulty leading to a final project of the student's choosing. The class will cover the basic principles of 3D modeling and animation including polygonal and NURB modeling, texturing, lighting and animation.
Prerequisite: DIGD-206 or approved equivalent

DIGD-498 (Formerly D810) **3-0-3**
Interdisciplinary Capstone Project Preparation
(writing intensive)
This course requires students to identify and analyze potential capstone projects through a number of lenses including technical feasibility, marketability and design potential. With faculty guidance, students will form interdisciplinary teams that reflect the specific requirements of the chosen capstone project. To complete this course, a project proposal must be submitted documenting the factors that will allow the development of a successful capstone project. Research and presentation skills are a major focus of this course.
Prerequisites: DIGD-302

DIGD-499 (Formerly D712) **0-10-5**
Digital Design IV Interdisciplinary Capstone Project
This capstone studio will develop the ability of the digital designer to successfully participate on an interdisciplinary team. Students from a variety of majors, already organized in the capstone preparation course, will collaborate to develop a final, working prototype of a product, service, experience or publication of their choice that synthesizes their knowledge and skills from the previous semesters. The students will develop a project that demonstrates innovation, marketability and relevance within the larger community.
Prerequisites: DIGD-401 or DIGD-498

DRAW-101 (Formerly T712) **1-5-3**
Drawing I
Basic drawing experience to develop the understanding of form as applied to two- and three-dimensional space. The student works from nature, still life and the human figure in a variety of media; exploring qualities of line, texture, light and space representation. Students begin to explore subjects and develop ideas with application to the design majors.

DRAW-201 (Formerly T713) **1-5-3**
Drawing II for Graphic Design
Advanced drawing experiences continue the study of form and structure begun in Drawing I. In addition, students are encouraged to develop individual expression in a variety of graphic media. Drawing as a means of developing graphic ideas is stressed.
Prerequisite: DRAW-101

DRAW-206 (Formerly T714) **1-5-3**
Drawing II: Figure Drawing
In this course, students acquire special knowledge of the human figure and anatomy. A variety of media and methods of graphic representation are explored. Perceptual skills, as well as cognitive aspects of drawing the human form, will be studied. Live models, both clothed and nude, charts, skeleton model and the self will be used as sources for study. Required for Fashion Design majors.
Prerequisite: DRAW-101

DRAW-301 (Formerly I633) **1-5-3**
Drawing: Design and Development
This is an advanced drawing course developed for designers of all disciplines who want to improve the designer's ability to apply knowledge imparted in other courses to the development of designs. Wherever possible the subject matter of the students' design studio courses will be used as the subject matter for drawing exercises.
Prerequisite: DRAW-201

DRAW-303 **1-5-3**
Advanced Drawing: Materials & Techniques
Advanced Drawing: Materials & Techniques is designed to further develop the design student's drawing abilities and creative thought process, while encouraging conceptual development and a deeper understanding of contemporary issues in art and design. This course will provide an in-depth exploration of line, color and materials using a variety of drawing tools, while introducing a more conceptual approach to drawing Students will participate in off-campus trips to galleries and museums.
Prerequisite: DRAW 1: DRAW-101

DSGNFND-103 (Formerly T701) **1-5-3**
Design Foundations I
This foundation design course explores the basic elements and principles of 2D and 3D form and their application in the design process. Line, shape, mass, space, texture and gray value are introduced as fundamental and interrelated components necessary in structuring solutions to problems in design. Projects are introduced which encourage students to express ideas in a visual/tactile context, while exploring the interaction of ideas and materials.

DSGNFND-203 (Formerly T702) **1-5-3**
Design Foundations II
Color is introduced in this foundation design course with an emphasis placed on its practical application in the design process. Projects done by students, using a variety of media, will explore the interaction of color in design with formal, biophysical and psychological implications and goals.
Prerequisite: DSGNFND-103

DSGNFND-303 (Formerly T704) **1-5-3**
Design Foundations III
In-depth studies emphasizing the use of color and varied media in both 2D and 3D forms are undertaken in this foundation course. The interrelationship of the elements and principles of design are addressed through solving a variety of visual problems. Processes of abstraction are explored in projects using a wide variety of media. Students will be expected to develop their abilities for critical analysis of their own work, as well as design processes and products in general.
Prerequisite: DSGNFND-203

DSGNFND-423 (Formerly T729) **2-2-3**
Design Concepts
Students develop basic design skills and gain confidence to utilize these skills as they relate to apparel design and merchandising. Trend forecasting research and presentation skills are emphasized. Vocabulary and concepts necessary for interaction with the fashion design community and the ability to assess quality design ideas, images and workmanship is critical for success in the buying and retailing of apparel. The course is an introduction and exposure to the process of forecasting and design. May not be taken by design majors.
Prerequisite: FASHMGT-101

ECBIO-101 (Formerly S430) **3-0-3**
Environmental Issues
In this course, students will explore the ecological, chemical, social, economic and political implications of critical global environmental issues including water pollution, pesticides, energy, acid rain, global warming, waste management, biodiversity loss and population growth. Alternative solutions

proposed to address these experimental issues will be explored from multiple perspectives.
Prerequisite: grade of "C-" (1.67) or better in BIOL-103 and BIOL-103L

ECBIO-201 (Formerly S238) **3-0-3**
Biodiversity
The purpose of this course is to explore what is known about the abundance and distribution of all species on earth, what threatens and supports these species and what efforts humans have taken both in the United States and globally to destroy and conserve biodiversity. Genetic variability, demographic and population dynamics, environmental variation, economic value and legal status will be compared for the design of captive breeding programs, protected areas management and sustainable use alternatives.
Prerequisite: grade of "C-" (1.67) or better in BIOL-103 and BIOL-103L

ECBIO-207 (Formerly S461) **2-2-3**
Soils
This course examines factors of soil formation and discusses basic physical, chemical, ecological and morphological soil properties that affect soil characteristics in managed and natural landscapes, as well as how important soil classification variables are influenced by these processes. This is a interactive lecture/laboratory course complemented by local field trips with emphasis on soils from pedon-to-landscape as resources for environmental quality.
Prerequisites: grade of "C-" (1.67) or better in BIOL-104 and BIOL-104L

ECBIO-208 (Formerly S462) **2-3-4**
Local Flora
An introduction to regional native plants used in landscape architecture and ecological restoration. Characteristics, terminology and keys used in identifying plants and plant families will be taught as well as sight recognition of common species. Other topics include plant growth, development and propagation, optimal habitats, and recognition of best management practices. Field work at local/regional sites constitutes a significant part of the course.
Prerequisites: BIOL-101, or grade of "C-" (1.67) or better in BIOL-104 and BIOL-104L

ECBIO-301 (Formerly S233) **3-3-4**
Ecology
This course quantitatively measures the relationship between organisms and their environment at the population, community, landscape and global level. Critical ecological controversies will be explored. Field data for both flora and fauna will be collected, analyzed and presented following guidelines from professional scientific journals.
Prerequisite: grade of C- (1.67) or better in BIOL104 and BIOL 104L or grade of C- (1.67) or better in ECBIO 208

ECBIO-302 (Formerly S234) **3-3-4**
Experimental Field Ecology
This course focuses on the historical, legal, ethical, economic and scientific foundation of the emerging field of conservation biology. Genetic, ecological and population analytical methods will be applied to case studies of conservation programs from around the world with an emphasis on research design critiques. Experimental design and statistics for field problems will be covered in depth. Students will design, implement, analyze and present their findings from an ecological field experiment.
Prerequisites: grade of "C" or better in ECBIO-301 and co-requisite STAT-301

ECBIO-316 (Formerly S465) **3-3-4**
Wildlife Ecology and Conservation
This course is an international overview of current strategies used for wildlife conservation of mammals, birds, fish and other vertebrate species. Population ecology, habitat, disease, foraging and behavior will be covered in depth. Students will research the historical, legal and economic foundation for current best-management practices. Through intensive field studies, students will compare and contrast scientific-field techniques used in wildlife management.
Prerequisite: grade of "C" or better in ECBIO-301

ECBIO-318 (Formerly S468) **3-0-3**
Urban Ecology, Restoration & Planning
Natural lands and natural systems occur in densely populated areas and because of the human impacts present vast challenges to the landscape architects and environmental planners who are entrusted with their protection and enhancement. This course studies in detail urban ecological systems, and the human impacts that shape them. The student will also be exposed to current restoration techniques, which are being utilized in the urban setting to restore natural ecological functioning to the city.
Prerequisites: SCI-101, or grade of "C-" (1.67) or better in BIOL-104 and BIOL-104L, or permission of instructor

ECBIO-319 (Formerly S454) **3-0-3**
Oceanography
An introduction to the biological, chemical, geological and physical aspects of the ocean environment with particular emphasis on the importance of the oceans to human beings and the impact we have on them. Students may participate in an optional field trip highlighting estuarine/coastal biodiversity, aquacultural techniques and oceanographic sampling techniques.
Prerequisites: CHEM-104 and CHEM 104L, grade of "C-" (1.67) or better in BIOL-104 and BIOL-104L, or permission from the instructor

ECBIO-391 (Formerly S491) **0-9-3**
Research I in Environmental Science
Independent research is taken under the guidance of a faculty member. The research will include a written proposal prior to initiation of the project, a literature search, experimental fieldwork, a written abstract and report at the end of the semester and an oral presentation of the work. Guidelines for approval and for final evaluation are available in the School of Science and Health office.
Prerequisite: permission of the dean

ECBIO-392 (Formerly S492) **0-9-3**
Research II in Environmental Science
Continuation of ECBIO-391.
Prerequisites: ECBIO-391, permission of the dean

ECBIO-415 (Formerly S455) **3-0-3**
Natural Resource Management
(writing intensive)
This course explores the existing state of the world's natural resources including forests, fisheries, rangeland, soil, water, wildlife, air and energy. Management options for each resource will be explored in depth. Field trips will compare cost, impact and implementation of different approaches used by environmental agencies. Students will write and present a resource-management plan for a key issue.
Prerequisite: ECBIO-301

ECON-205 (Formerly E821) **3-0-3**
Macroeconomics
Introduction to the overall functioning of an economic system with a view toward understanding the factors underlying income, employment and prices on the aggregate level. Topics include monetary and fiscal policy with primary emphasis on the impact of international trade and policy implications.

ECON-206 (Formerly E822) **3-0-3**
Microeconomics
Introduction to the principles underlying the behavior of business firms, resource owners and consumers within a system of markets. Introduces the theory of value and distribution and the implications of international trade on autarchy value and distribution.

ECON-305 (Formerly E843) **3-0-3**
Money, Banking and Monetary Policy
Banking theory and the impact of the Federal Reserve. Monetary management: current developments and limitations. International aspects are considered.
Prerequisites: ECON-205, ECON-206

ECON-315 (Formerly E842) **3-0-3**
Intermediate Price Theory
Analysis of the determination of prices with varying degrees of competition. Determination of wages, rent, interest and profit.
Prerequisites: ECON-205, ECON-206

ECON-381 (Formerly E899) **0-0-3**
Independent Study in Economics
Intensive independent study of a chosen subject. The student is expected to read a substantial number of major works in the field and to prepare a critical, documented paper. See also the statement on Independent Study under "Academic Policies."
Prerequisites: permission of the faculty member and the dean of the School of Business Administration

ECON-401 (Formerly E864) **3-0-3**
International Economics
The theoretical basis for international trade is examined, as well as the economic impact of such trade on participating nations.

ENGR-101 **1-0-1**
Introduction to Engineering
A seminar to introduce incoming students to the tools, skills and abilities needed in engineering. Students will be exposed to basic concepts associated with the five engineering minor tracks: mechanical engineering, architectural engineering, environmental engineering, industrial and systems engineering and textile engineering. Incorporates brief projects to help the student do meaningful, major related work from the first semester.

ENGR-102 **2-2-3**
Engineering Drawing
This course introduces students to engineering drawing, descriptive geometry, design and problem solving. Engineering drawing is a graphic language that can convey, with exactness and detail, ideas from the design engineer to the fabricator. Thus, the emphasis of the course is on communicating design ideas through engineering drawings.
Prerequisites: MATH-102 or MATH-111

ENGR-104 **3-0-3**
Introduction to Computing
An introductory course which provides a coherent and comprehensive treatment of fundamental concepts of computer science. It describes how computing systems work and how they are applied to solve real-world problems. The main emphasis is on the design of algorithims and procedural abstraction. High-level, language-programming projects.

ENGR-210 **3-0-3**
Introduction to Materials Science
Atomic theory and molecular bonding of solids, polymer structure and mechanics of materials for textiles are taught at an introductory level. Specific processing issues including additives, viscosity, transitions and morphology are studied as well.
Prerequisites: MATH-111, CHEM 103 and CHEM 103L

ENGR-215 **3-0-3**
Engineering Statics
Engineering statics describes the mechanical behavior of materials and systems in equilibrium using Newton's laws of motion. In this course, students will learn the principles of force equilibrium, how to construct free-body diagrams, understanding distributed forces, friction and introductory structural response.
Prerequisites: PHYS-201 and PHYS 201L, MATH-213 (pre- or co-requisite)

ENGR-217 (also listed as MIS-302) **3-0-3**
Information Systems Design
Analysis and design of computer based information systems. Definition of databases, measures of effectiveness, management-staff interfaces. Focus on analyzing the situation and

its particular needs before attempting a solution. Case studies from engineering, manufacturing, and service environments used to create discussions. *(ISE majors can take this course in the School of Business Administration as MIS-302)*
Prerequisites: MATH-112

ENGR-218 **3-0-3**
Engineering Dynamics
Engineering dynamics describes the motions of particles and rigid bodies and the forces that accompany or cause those motions. Basic methods include Newton's laws, the work and energy principle, and the impulse and momentum principle.
Prerequisites: ENGR-215, MATH-225 (pre- or co-requisite)

ENGR-301 **3-0-3**
Mechanics of Materials
Internal forces; stress, strain and their relations; stresses and deformations in axially loaded members; stresses and deformations in torsionally loaded members; stresses and deformations in flexural members; combined stresses; column analysis; statically indeterminate members; introduction to member design.
Prerequisite: ENGR-215

ENGR-302 **3-0-3**
Design for Manufacturability
The design process; interaction of materials, processes and design; economic considerations; design considerations for machining, casting, forging, extrusion, forming, powder metallurgy; designing with plastics; design for assembly; projects and case studies.
Prerequisite:ENGR-102

ENGR-303 **3-0-3**
Engineering Economics
This course is designed to provide the engineering student with the decision-making skills necessary to evaluate the monetary consequences of the products, processes and projects that engineers design. Decisions must balance economics, performance, aesthetics and resources. As the capital outlays may be significant and affect the productive potential of a firm over the long term, it is important to understand the time value of money. The course emphasizes calculations of present values, future worth, internal rates of return and replacement analysis. In addition to the specific financial concepts covered, the student will construct computer spreadsheets to do sensitivity analysis and generate graphs to enhance presentation skills.
Prerequisite: ENGR-305

ENGR-304 **3-0-3**
Operations Research I
Philosophy and techniques of operations research. Emphasis on elementary model building and concepts of optimization. Structure of problem solving; linear programming, transportation and assignment algorithms; game theory; network analysis, branch and bound theory.
Prerequisite: MATH-112, ENGR-305

ENGR-305 **3-0-3**
Engineering Statistics I
Fundamentals of probability and distribution theory with application to various branches of engineering; basic probability theory, discrete random variables, continuous random variables, independent random variables, covariance and correlation and linear combinations of random variables. Statistical decision theory including significance testing and estimation, confidence intervals, design and perform tests of hypotheses on population means, standard deviations and proportions.
Prerequisite: grade of "C" or better in MATH-112

ENGR-307 **3-0-3**
Engineering Statistics II
This course is a continuation of EN505 Engineering Statistics, and it is required for the BSISE and the BSE with minor in ISE. Application of statistical techniques to industrial problems; relationships between experimental measurements using regression and correlation theory and analysis of variance models; design of experiments with one and more than one levels; emphasis on inherent variability of production processes; control chart techniques and the use of exponential and Weibull models in reliability analysis; statistical process control.
Prerequisite: ENGR 305

ENGR-311 **3-0-3**
Fluid Mechanics
The fundamentals of fluid mechanics. Topics include fluid statics, control-volume analysis, the Navier-Stokes equations, similitude, viscous, inviscous and turbulent flows and boundary layers.
Prerequisite: ENGR-218, PHYS-203 and PHYS-203L

ENGR-322 **3-0-3**
Fundamentals of Electrical Engineering I
Analysis of circuits; transient and steady state phenomena; general analysis techniques. Fundamentals of direct and alternating circuits, transformers rotating machinery, electrical and electronic control, and electrical energy.
Prerequisite: PHYS-203 and PHYS- 203L

ENGR-403 **3-0-3**
Fundamentals of Electrical Engineering II
Fundamentals of electronic circuit design starting with a brief survey of semiconductor devices including diodes and bipolar and field effect transistors. The course continues with op-amp applications, including instrumentation and filter design. The use of digital logic is also explored. Throughout the course, practical considerations of circuit design and construction are covered.
Prerequisite: ENGR-322

ENGR-498 **2-2-3**
Senior Design Project I
This course exposes the students to a series of real-world industry problems that require applications of Industrial Engineering principles. A preliminary analysis of various selected problems will be performed collectively. The students

will then form a team and select their senior design project. The course also covers (through out invited speakers) topics related to the engineering profession such as ethics, intellectual property, project management, and social responsibility. Students will present a written and oral proposal of their senior design project preparation.
Prerequisite IENGR-315, at least 86 credits, and WRTG-21X

ENGR-499 **1-5-4**
Senior Design Project: Engineering, Architectural Engineering, Industrial Systems Engineering, Mechanical Engineering
(writing intensive)
Application of engineering principles to solve a real-world problem. Student works as member of a team assigned to a problem in a manufacturing, processing, service, or government organization. The capstone senior design project will consist of a project that builds on engineering, business, ethics and social issues. Requires a professional written and oral report and this course will serve as the program's major writing intensive course.
Prerequisites: Completion of at least 90 credits, senior level and WRTG-21X (This capstone course is major specific); ENGR-498 ISE only

FASHDES-211 (Formerly T918) **1-5-3**
Garment Structures
This is the initial course in the fashion design technical studio sequence. Students also produce a sample book of various construction methods. From existing patterns, students produce garments and have the opportunity to redesign them through imaginative use of construction details.
Note: A minimum grade of "C" will be required in order to continue in the design studio sequence. Admission into the Fashion Design Program. Fashion Industry majors need approval from FIM program coordinator.

FASHDES-213 (Formerly T920) **1-5-3**
Flat Pattern and Basic Construction
This course covers the fundamentals of the flat-pattern method. Students will draft bodice, sleeve and skirt blocks to be used in creating various styles. Some patterns are cut and sewn in muslin to test fit and further enhance sewing skills. A sample book of flat-pattern techniques will be produced. In addition two ensembles will be designed and produced.
Prerequisites: a grade of "C" or better in FASHDES-211. Admission to the Fashion Design Program. Fashion Industry Management majors need approval from FIM program coordinator.

FASHDES-250 (Formerly T940) **0-0-3**
Fashion Studies Abroad
A "short course" that will enable students to study various aspects of fashion design, production and merchandising in a major region of the world. Through a series of lectures, guided tours and visits to couture and ready-to-wear establishments, design studios, retailers, production plants and museums, students will have the opportunity to experience a segment of the global fashion industry. Students will carry a journal and write about their own experiences abroad. A visual record of design inspirations will be required as part of the research assignments. Oral and written reports, including visuals, will explore the design and business practices of apparel firms. Students will also experience cooperative design and merchandising as a result of team assignments.
Prerequisites: student must have a 2.5 G.P.A. and sophomore status in the Fashion Design, Fashion Industry Management or Fashion Merchandising program

FASHDES-311 (Formerly T921) **1-5-3**
Draping Design and Construction
Students learn to drape basic bodice and skirt variations on standard industrial dress forms. Original garments are designed, draped and sewn using industrial machinery. Accurate patternmaking, sewing and attention to design fundamentals are stressed throughout the course.
Prerequisites: a grade of "C" or better in FASHDES-213. Admission into the Fashion Design Program. Fashion Industry Management majors need approval from FIM program coordinator.

FASHDES-316 (Formerly T720) **3-1-3**
Fashion Design
This course serves as an introduction to the key role played by fashion designers in the apparel industry. Students are exposed to the methods of research, development and illustration of original designs. This provides opportunities for the aesthetic and technical examination of designs and the importance of appropriate material choices. This course considers current market trends and design concepts as influences on merchandising. CAD skills are utilized in a variety of presentation aspects.
Prerequisites: CAD-204, FASHDRW-207

FASHDES-322 (Formerly T291) **2-2-3**
Fashion Design Problem Solving
This course focuses on experimental design and is a continuation of the foundation design sequence for Fashion Design majors. Students are provided the opportunity to think creatively, to develop alternate approaches in problem solving and to select optimum solutions on a cost/aesthetic/materials basis. Through materials investigation, this course promotes the use of creative answers to the basic design problem of covering the body.
Prerequisites: DSGNFND-303, FASHDRW-207, FASHDES-311

FASHDES-335 (Formerly T923) **1-5-3**
Advanced Patternmaking
Students will manipulate basic blocks to develop original designs for various markets. Emphasis will be placed on industry standards as they apply to fit and proper construction techniques. One original design will include using a two-way stretch fabric.
Prerequisites: "C" or better in FASHDES-311. Admission to the Fashion Design program. Fashion Industry Management majors need approval from FIM program coordinator.

FASDES-336 **1-5-3**
Costume Design: Film and Stage
A studio course which offers fashion designers an opportunity to learn the basic process of costume design through the research, development and construction of an original costume design. Character and script analysis will be covered in addition to working effectively with directors and other collaborators. This course explores researching period costumes and uses appropriate construction techniques whilst considering comfort and durability for a modern theatre or film production.
Prerequisite: FASHDES-311, FASHDRW-207, ARTH-314

FASHDES-337 (Formerly T922) **1-5-3**
Tailoring
Students are introduced to tailoring techniques. Patterns for a tailored garment are drafted according to the industry's standard sample sizes. Construction of garments on industrial machinery uses current production technology.
Prerequisite: FASHDES-311

FASHDES-371 (Formerly T939) **1-5-3**
Special Topics in Fashion
A topic of special interest to fashion students and faculty will be explored in a studio/lecture format. Topic will vary, to be chosen by the instructor.
Prerequisite: will be determined by the subject of the course offered

FASHDES-415 (Formerly T925) **1-7-4**
Collection Development I
A capstone course for senior fashion designers to develop and produce a portfolio of original designs. The collection is designed, merchandised and produced by the student in collaboration with the instructor and a visiting critic.
Prerequisites: FASHDES-322, FASHDRW-207, FASHDES-316, grade of "C" or better in FASHDES-311. Admission into the Fashion Design Program. Fashion Industry Management majors need approval from FIM program coordinator.

FASHDES-416 (Formerly T926) **1-7-4**
Collection Development II
Students will further develop the concepts from their original sources of inspiration from FASHDES-415, Collection Development I, creating a cohesive collection of clothing. This is also an opportunity for the student who wishes to investigate designing for a different market from a new inspirational source.
Prerequisite: a grade of "C" or better in FASHDES-415

FASHDES-419 (Formerly T725) **1-5-3**
Accessories
Fashion design majors work primarily in designing and executing garments. However, the area of accessories presents excellent opportunities for the creative designer. The accessories market (hats, scarves, belts, handbags and jewelry) is growing and is in need of creative and qualified talent. Accessories is an elective for the student interested in pursuing a career in this market and/or for the student who, as a designer, is interested in the creation and coordination of the total ensemble.
Prerequisites: DSGNFND-303, FASHDES-211

FASHDES-433 (Formerly T722) **1-5-3**
Fashion Layout and Portfolio Development
This elective course provides fashion design students with a professional portfolio of original work showcasing their design abilities and illustration finesse. The concept of layout and design will be presented as it relates to newspaper advertisements, editorial illustration and brochure development. Various presentational techniques will also be addressed as an effective sales tool for seasonal collections.
Prerequisite: FASHDRW-207

FASHDES-441 (Formerly T924) **1-5-3**
Couture Techniques
This elective teaches the various methods of creating and constructing a couture garment. Students will learn how to combine custom designing, flat pattern and draping, machine and hand skills to execute an ensemble of clothing in the style of selected couture designers.
Prerequisites: FASHDRW-207, FASHDES-311

FASHDRW-207 (Formerly T715) **1-5-3**
Fashion/Figure Drawing
Students review basic forms of the figure in an anatomical, gestural and design sense. In a studio setting, students develop the skills and vocabulary of design room and presentation sketching by drawing from live models, developing designer croquis and technical drawings, exploring various media and rendering fabrics.
Prerequisite: DRAW-206

FASHDRW-317 (Formerly T716) **1-5-3**
Fashion Illustration I
An elective for students who are interested in further developing their illustration skills and their applications in the field of fashion design. Students do extensive fashion model studies and develop several visual presentations related to concepts and techniques presented in class. Presentation techniques and portfolio presentation will also be addressed.
Prerequisite: FASHDRW-207

FASHDRW-319 (Formerly T721) **1-5-3**
Fashion Illustration II
This sequel to FASHDRW-317 is an elective course designed to challenge and refine the fashion design student's illustration skills as they relate to the professional job market. Extensive fashion-model studies will be combined with assignments similar to those found in today's industry. Professional presentation skills and portfolio development will be emphasized.
Prerequisite: FASHDRW-317

FASHMGT-101 (Formerly T901) **3-1-3**
Survey of the Global Apparel Industry
Survey of the apparel industry presents a comprehensive overview of one of the most dynamic industries in the world including marketing strategies, product-line development, pre-production and production processes, quality assurance,

international sourcing, supply chain management and distribution strategies. This course investigates the application of technology in all areas of the operations of an apparel enterprise. Survey establishes the basis for further study of the apparel industry. The term project, which simulates the formation and operation of an apparel enterprise, provides a theoretical as well as a practical learning experience.
Prerequisite: TEXT-101

FASHMGT-201 (Formerly T917) **1-5-3**
Garment Development
Students will have a basic understanding of garment construction combined with flat-pattern concepts. The use of industrial equipment and basic slopers will be utilized to produce a sample book of construction details and garments.
Any student who has received credit for FASHDES-211 or FASHDES-213 may not take this course.

FASHMGT-305 (Formerly T904) **3-2-4**
Apparel Production
Basic operations in all segments of an apparel plant are studied from the initial receipt of raw materials through storage, inspection, marker making, spreading, cutting, sewing, pressing, warehousing, shipping and customer returns. Latest technological advances in each of these areas will be discussed with marker making performed on a Gerber Accumark 300 System. Inventory management, labor issues, ergonomics and relevant public policies are also studied.
Prerequisites: FASHMGT-101, FASHMGT-201 or FASHDES-211

FASHMGT-401 (Formerly T916) **3-0-3**
Apparel/Textile Quality Assurance
This course will develop an understanding of the intricate interdependence of fiber content, yarn properties, fabric structure and applied finish required to produce saleable products offering to the purchaser "fair" value per dollar expenditure. Apparel Quality Assurance integrates the knowledge gained in textile, apparel, business and humanities courses to develop managerial talent in any "cut and sew" aspect of the fashion industry.
Fall only.
Prerequisites: TEXT-301, FASHMGT-305 and STAT-201

FASHMGT-408 (Formerly T912) **3-0-3**
Apparel/Textile Sourcing
(writing intensive)
Execution and delivery of a product in today's apparel supply chain occurs within a global environment. Understanding the complexities in establishing and maintaining sourcing strategies is a critical element in a student's portfolio of course work.
Prerequisite: FASHMGT-101 or FASHDES-316 and at least 21 credits in the student's major.

FASHMGT-437 (Formerly TEXT 437) **3-0-3**
Integrated Manufacturing Technology
The course will analyze the various manufacturing technologies and their implications on management philosophy, employee relations and profitability through lectures and literature searches. The student will be a member of a team that will analyze and present to top management a feasible plan for integrating manufacturing technology.
Prerequisites: FASHMGT-305, STAT-201

FASHMGT-451 (Formerly T197) **3-0-3**
Supply Chain Management in the Textile and Apparel Industries
This course covers the fundamental concepts of the textile and apparel supply chain management in a global context. The course includes topics of inventory management, network locations, supply chain integration, collaboration and information sharing in the supply chain, strategic alliances, international issues in supply chain management and the role of e-business. Emphasis is on the analysis of textile/apparel industries that are leaders in the market by excelling in the integration of their supply chain. The students will apply theses concepts in a final project using supply chain management software (EXACT software-existing-and or LOGWARE software-provided with the text book.) to analyze the supply chain of a textile or apparel company such as VF Corporation, Benetton, Nike, Li & Fung, Zara Corporation, etc.
Spring only
Prerequisites: FASHMGT-305

FASHMGT-499 (Formerly T909) **3-0-3**
Apparel Merchandising Management
(writing intensive)
Management of the merchandising function in an apparel company, including the development of a product line, design coordination, costing, sample making, specifications, resource selection, forecasting sales and planning inventory levels, promotion and coordination with sales and production are included.
Prerequisite: WRTG-21X, FASHMGT-101 and completion of 90 credits with at least 21 credits in either the Apparel or Fashion core courses, or permission of the instructor

FINC-301 (Formerly B642) **3-0-3**
Financial Management
An introductory finance course that examines the role of the financial decision maker at the corporate level. Four basic questions are examined: the goal of the firm, investment decisions of the firm, financing decisions of the firm and dividend decisions of the firm. The technique of discounted cash-flow analysis is developed and emphasized as it relates to corporate financial decisions.
Prerequisites: ACCT-101 and STAT-201 or MATH-101

FINC-303 (Formerly B643) **3-0-3**
Intermediate Financial Management
An in-depth study of financial analysis and planning, asset management and capital structures. Financial decision making is studied by means of finance cases. Computerized financial analyses are part of the course.
Prerequisites: INFO-101, FINC-301

FINC-313 (Formerly B633) **3-0-3**
Financial E-Commerce
This course focuses on electronic payments between businesses and between businesses and consumers. Topics include acceptance of electronic payment, security of electronic payment transfer, ensuring transaction integrity (detecting and correcting violation of electronic payment instructions — also referred to as "secure electronic transaction protocol"), exchange-rate calculations for foreign currencies and integrated Internet versus non-Internet payment systems.
Prerequisite: FINC-301

FINC-318 (Formerly B645) **3-0-3**
International Finance and Development
An advanced course that explores the interrelations between the economic theory of growth/development and financial applications in the emerging countries.
Prerequisites: FINC-301, ECON-205, ECON-206

FINC-321 (Formerly B661) **3-0-3**
Investments and Portfolio Management
The process of comparative security valuation analysis. Emphasis is on risk-return trade-off, principles of portfolio management and the process of security analysis.
Prerequisite: FINC-301

FINC-322 (Formerly B641) **3-0-3**
Capital Markets and Financial Institutions
Explores depository and non-depository financial intermediaries, flow of funds into the money and capital markets.
Prerequisite: FINC-301

FINC-333 (Formerly B662) **3-0-3**
Public Finance
Sources of public funds, taxation and the debt. Uses of public funds, budgets and the control of government expenditures.
Prerequisites: FINC-301, ECON-205, ECON-206

FINC-381 (Formerly B699) **0-0-3**
Independent Study in Finance
Intensive independent study of a chosen subject. The student is expected to read a substantial number of major works in the field, may be required to do primary research and must prepare a critical documented paper.
Prerequisites: permission of the faculty member and the dean of the School of Business Administration

FINC-411 (Formerly B663) **3-0-3**
Finance Seminar
In a seminar setting, drawing on the knowledge of the fundamentals and advanced concepts studied in finance classes, skills will be developed to become a better decision maker by learning how to integrate the various topics of finance. Through problem-oriented exercises, an appreciation of the importance and know-how of anticipating, recognizing and adapting to external forces in the decision-making process and organization will be developed. Finance as a functional area is dynamic, and emphasis will be placed on incorporating the most recent academic and practitioner literature, which is of theoretical and practical importance in the decision-making process. This challenging course is built around readings, finance cases, research papers and problem sets; and includes group and individual assignments and written and oral presentations.
Prerequisites: senior status, pre- or corequisites: FINC-322 or ECON-305, FINC-303, FINC-321

Foreign Languages

The offerings for this group seek to promote students' intercultural and international understanding. A student receives College Studies credit for only two offerings within this distribution group.

Students may choose Foreign Language courses or study a region and its cultures in the Area Studies courses. Students may take two sequenced Foreign Language courses, or take one course in Foreign Language and one course in Area Studies or take two courses in Area Studies. Students must take consecutive levels of the same foreign language to satisfy the foreign language requirements; for example, a student cannot take Spanish I and French I.

Students planning to study abroad should consult early with their advisors about how best to prepare in terms of the courses in this category.

Students who are unsure about which level of Foreign Language course they should register for can schedule a diagnostic assessment at the Language and Cultural Center (Search Hall, Room 305). If you studied a foreign language in high school, please use the following guidelines to determine which college-level courses to take:

- No previous study, or one (1) year of a foreign language: 101 course
- Two – four (2-4) years of study: 201 course

There will be an in-class assessment at the beginning of the semester to make sure that students are place appropriately. The language program reserves the right to decide on students' placement at this stage.

Challenge exams in a foreign language can only be taken for those courses presently offered at the University. Because the College Studies program serves to broaden a student's global perspective, students who are native speakers of the languages presently offered are urged to study another language or take area studies to fulfill this category. Native speakers of French, German, Italian, Japanese, or Spanish may arrange to take a challenge exam in their native language.

Beginning-level language courses are offered in the following:

ARAB-101, ARAB-201 Arabic I and II
CHIN-101, CHIN-201 Chinese I and II
FREN-101, FREN-201 French I and II
(Formerly L343, L643)
GER-101, GER-201 German I and II
(offered infrequently) (Formerly L345, L645)
ITAL-101, ITAL-201 Italian I and II (Formerly L346, L646)
JAPN-101, JAPN-201 Japanese I and II
(Formerly L341, L641)

SPAN-101, SPAN-201 Spanish I and II
(Formerly L342, L642)

In the Foreign Language I courses (-101), students learn vocabulary and grammar at the beginning level and study cross-cultural issues so as to interact appropriately in professional and social settings. Courses are taught in the target foreign language and emphasize proficiency in all four communicative skills (reading, writing, listening and speaking). Classroom time is highly interactive and supplemented with visual and audio material and supporting software programs.
Prerequisite: none.

The Foreign Language II courses (-201) are at the advanced-beginner level and are designed to provide students with a deeper understanding of the target language and of the cultures related to it. Students study newspapers and magazines in the target language to learn about current issues in countries where the target foreign language is spoken.

Prerequisite: Grade of "C" or better in (-101) or a minimum of two years of high school language study or permission of the instructor.

Intermediate-level language courses are offered in the following:

JAPN-301, JAPN-401 Japanese III and IV
(Formerly L741, L841)
SPAN-301, SPAN-401 Spanish III and IV
(Formerly L742, L842)
FREN-301, FREN-401 French III and IV
(Formerly L743, L843)
ITAL-301, ITAL-401 Italian III and IV (Formerly L746)

all four communicative skills (reading, writing, listening and speaking) to an intermediate level and to continue to learn culturally appropriate behavior in professional or social settings. These courses also use the interactive media programs and information literacy skills of earlier semesters to prepare oral presentations, as well as written and email correspondence with foreign professionals.
Prerequisite: grade of "C" or better in -201 or a minimum of three years of prior high school foreign language study or permission of the instructor.

The Foreign Language IV courses (-401) allow students to develop of all four communicative skills (reading, writing, listening and speaking) to an advanced intermediate level and to continue their study of politics, society, economics and intercultural understanding in the countries where the target language are spoken.

Prerequisite: Grade of "C" or better in -301 or a minimum of four years of high school language study or permission of the instructor.

Independent study in a foreign language (HUMN-382) may be offered by individual appointment for students who wish to continue beyond the Foreign Language IV level.

GRAPH-201 (Formerly G311) **0-8-4**
Design III for Graphic Design Communication
This course is an introduction to the methods, materials and vocabulary used in the communication design profession. This studio emphasizes form analysis, visual abstraction and structures in design. There is an introduction to typography and the use of the Macintosh computer as a design and production tool. Professional practices and presentations are stressed.
Prerequisite: grade of "C" or better in DSGNFND-203 or permission of the director of the Graphic Design Communication program

GRAPH-202 (Formerly G312) **0-8-4**
Design IV for Graphic Design Communication
This course introduces the development of image-making concepts and capabilities for illustration, with particular emphasis on the use of visual metaphor in symbols and signs. Both the computer and traditional means of design and production are explored. The computer component will explore vector-based draw programs. The course will also introduce three-dimensional structures and systems, including the study of the Platonic solids.
Prerequisite: grade of "C" or better in GRAPH-201 or permission of the director of the Graphic Design Communication program

GRAPH-204 (Formerly G621) **1-5-3**
Introduction to Photography for Graphic Design Communication
This course is the required photography class for Graphic Design Communication majors. The course includes instruction in basic camera use, exposing and developing black-and-white film, and printing black-and-white photographs. Further study includes photographic documentation of work for portfolios in black-and-white and color transparency materials, use of the copy stand, and basic studio lighting techniques for both flat and three-dimensional work. There is an introduction to the 4x5 view camera and the digital camera through lectures and demonstrations.
Prerequisite: DSGNFND-203 or permission of the director of the Graphic Design Communication program

GRAPH-301 (Formerly G511) **0-8-4**
Design V for Graphic Design Communication
This course will introduce the student to typography through sequential studies to support the building of a visual vocabulary. These studies will involve a problem-solving approach to design, progressing from the simple to complex interplay of visual meaning and visual form.
Prerequisite: grade of "C" or better in GRAPH-202 or permission of the director of the Graphic Design Communication program

GRAPH-302 (Formerly G512) **0-8-4**
Design VI for Graphic Design Communication
This course will focus on the understanding and application of corporate identity through a system approach to design with application to various printed collateral. It will prepare the student to design a mark (symbol/logotype), stationery system and additional identity application, using systems approach throughout the process. A continued investigation of typography and its application will be studied.
Prerequisite: grade of "C" or better in GRAPH-301

GRAPH-305 (Formerly G641) **1-5-3**
Exhibit Design and Signage
This course adapts graphic design for three-dimensional structures. Study is made of structures and commercial systems available for product display, exhibit design and signage. Further consideration is made of the role of three-dimensional graphics in architectural settings.
Prerequisite: grade of "C" or better in GRAPH-202 or permission of the director of the Graphic Design Communication program

GRAPH-310 (Formerly G626) **1-5-3**
Digital Imaging and Photographic Manipulation
This course will focus on enhancing or manipulating photographic images in the computer. Students import their own images with a scanner or digital camera, and use Photoshop tools and filters to enhance, alter or manipulate the image for artistic or design purposes. Not available for Digital Design majors.
Prerequisite: ARCH-202 or INTD-202 or GRAPH-201 or INDD-202

GRAPH-320 (Formerly G637) **1-5-3**
Package Design
This course gives further exploration of 3D forms for use in package design. Additional study is made of the interaction of type and image on 3D objects. This includes the design of individual packages, clustered containers and consideration of point-of-purchase displays.
Prerequisite: grade of "C"or better in GRAPH-202 or permission of the director of the Graphic Design Communication program

GRAPH-341 (Formerly G644) **1-5-3**
Illustration
This course includes image making in a variety of techniques and media, including exploration of both computer design and traditional methods. Emphasis is placed on unity of concept and media, and effective use of visual translation and metaphor.
Prerequisite: grade of "C" or better in DRAW-201 or permission of the director of the Graphic Design Communication program

GRAPH-381 (Formerly G991) **0-0-3**
Independent Study
For further details, see general description of Independent Study in "Academic Policies" section.
Prerequisites: GRAPH-301, GRAPH-310 and permission of the instructor

GRAPH-401 (Formerly G711) **0-12-6**
Design VII for Graphic Design Communication
(writing intensive)
This course will focus on a multi-faceted project involving substantial investigation and realization of concepts. The character of the project will support a unified theme/concept/idea for an identified client that is geared to a specific market or interest group. Completed projects will demonstrate the student's ability to use acquired knowledge, skill and understanding of design principles. The research and conceptual work in preparation for the following semester's capstone project will be submitted for faculty review.
Prerequisite: grade of "C" or better in GRAPH-302

GRAPH-407 (Formerly G631) **1-5-3**
Philadelphia University Design Workshop
This course will provide students with an opportunity to work on real projects for real clients (University and/or non-profit), thus offering a chance to gain valuable, practical experience while still in school. Students will work in interdisciplinary teams, and gain exposure to client relations and the professional presentation of their work and be exposed to all levels of Production as it relates to these projects. The course is open to all junior and senior-level Graphic Design Communication and Digital Design students only upon prior portfolio review by the Instructor.
Prerequisite: Grade of C (2.00) or better in GRAPH 301 (for GD students) or DIGD 301 (for DD students). No students will be admitted to the course without prior portfolio review and by permission of the Instructor.

GRAPH-408 (Formerly G634) **1-5-3**
Advanced Publication Design
This course will focus on publication design and the continued development of projects with increased conceptual and physical complexity. The relationship between content and design format will be explored. The application of charts, graphs, tables and quantitative information will be investigated.
Prerequisite: grade of "C" or better in GRAPH-202 or permission of the director of the Graphic Design Communication program

GRAPH-409 **1-5-3**
Issues in Information Design
This course introduces issues in the design and communication of typical information categories through a range of design, media, and scales. Topics are raised in the categories of cartography, comparative data and diagrams. Emphasis is placed on exploration, understanding and process rather than on finished design and craft.
Prerequisite: GRAPH 202 or INDD 202

GRAPH-499 (Formerly G712) **0-12-6**
Capstone in Graphic Design Communication
Students develop projects independently and are required to demonstrate ability and understanding of communication design theory, process and principles. The final project requires research of topic, design exploration, development and final professional presentation. The syllabus also requires the development and presentation of a resume and a final portfolio of work selected from projects students have produced during their studies in the department.
Prerequisite: grade of "C" or better in GRAPH-401 and faculty approval or permission of the director of the Graphic Design Communication program

HIST-114 (Formerly L173) 3-0-3
American Transitions
Students will become historians by asking questions about the changes wrought by the transformation of the United States from an agriculturally based, rural society to an urban, industrial and increasingly multi-cultural society in an interdependent world. This course will require students to read, write and speak about issues in the American past. This course may be used to satisfy a College Studies requirement, but not free elective credits.

HIST-381 (Formerly H299) 0-0-3
Independent Study in History
Intensive research on a topic in history. Can be taken for College Studies credit. For further details, see general description of Independent Study in "Academic Policies" section.

HONOR-300 (Formerly U371) 0-0-(3-12)
Honors Study Abroad
This non-credit option allows a student to earn Honors credit while completing a semester in another country. Students interested in pursuing Honors Study Abroad work with their academic advisor and/or school faculty to prepare a proposal to study/observe a facet of the host country's culture. Upon return to campus, students will offer a presentation of their observations to the campus community.

HONOR-310 0-0-0
Honors Summer Readings
This non-credit option is a very popular option. Exclusively on BlackBoard, students read, discuss, and complete assignments of selected books under the guidance of a faculty member. The course counts toward one of the seven courses required for the honors certificate. To enroll, students must be in good standing in the Honors Program. This is a non-credit option.

HONOR-355 (Formerly U361) 0-0-0
Honors Community Service
Students interested in pursuing Honors Community Service work with the Honors director and/or campus Community Service coordinator to: 1) identify a local service effort, and 2) prepare a proposal to earn honors credit. This is a non-credit option.

HONOR-381, HONOR-382 (Formerly U381, U382) 0-0-3, 0-0-3
Honors Independent Study I and II
Students interested in pursuing Honors Independent Study should meet with the faculty member with whom they want to study to prepare an outline of the topic, goals and objectives for the semester's work. Proposals should be turned in to the Honors director three weeks before pre-registration.
Prerequisites: junior/senior status and in good standing toward completing the Honors Program Scholar certificate.

HONOR-391, HONOR-392 (Formerly U391, U392) 0-0-3, 0-0-3
Honors Research I and II
Students interested in pursuing Honors Research should meet with the faculty member to plan a research project outlining the topic and inquiry. Proposals should be turned in to the Honors director three weeks before pre-registration.
Prerequisites: junior/senior status and in good standing toward completing the Honors Program Scholar certificate.

HUMN-215 (Formerly L383) 3-0-3
Evil and Good
A study of evil and good in art, literature, religion and philosophy, with attention to actual issues of evil and good in human social life. Concepts of evil and good in both Western and non-Western cultures will be surveyed. The course will also provide an introduction to strategies for ethical decision-making.
Prerequisite: WRTG-101, HIST-11X

HUMN-223 (Formerly L382) 3-0-3
World Philosophies
This course takes a comparative approach to the study of philosophy, investigating the nature of philosophical activity in diverse cultures. The central question addressed in the course is: "Is this the most reliable knowledge acquired through philosophical reasoning, scientific observation or religious devotion?"
Prerequisite: WRTG-101, HIST-11X

HUMN-381 (Formerly H399) 0-0-3
Independent Study in the Humanities
Intensive research on a topic that does not fall within a particular discipline in the humanities or that is interdisciplinary in nature. Can be taken for College Studies credit. For further details, see general description of Independent Study in "Academic Policies" section.

HUMN-382 (Formerly L959) 0-0-3
Independent Study in Languages
See the statement on Independent Study in the "Academic Policies" section.

IENGR-315 (Formerly EN616) 3-0-3
Operations Research II
Dynamic Programming; decision theory involving one stage problem; probabilistic models of operations research; inventory theory; Markov chains; queuing theory and simulation.
Prerequisites: ENGR-304, ENGR-307

IENGR-413 (Formerly EN711) 3-0-3
Simulation Systems
Procedures and rationale for planning, designing and implementing computer simulation experiments used to analyze human-machine systems in engineering, business and social sciences.
Prerequisite: IENGR-315

IENGR-414 (Formerly EN514) 3-0-3
Manufacturing Quality Control
This course covers the methods used for statistical quality control, capability analysis, monitoring and improvement.

Students will learn the techniques, as well as the software available (Minitab, Excel, and SPSS) required to implement these techniques.
Prerequisite: ENGR-305

IENGR-415 (Formerly EN617) **3-0-3**
Production Planning and Control
This course covers several techniques that focus on efficient operations management within any organization. The topics include forecasting, inventory management, production systems –MRP, JIT- CONWIP, aggregated workforce planning, production scheduling and supply chain management. Even that the topics seem to be oriented to the manufacturing industry, the concepts learn in this course are applied to any type of organization; service, health care, manufacturing, financial, etc.
Prerequisite: ENGR 307, pre or corequisite ENGR 498

IENGR-418 **3-0-3**
Systems Engineering
This course focuses on implementation of continous process improvemen within an organization. The purpose of the course is to provide the students with a comprehensive treatment of different tools employed successfully by industries for creating value while eliminating waste (non-value added activities). The course includes lean thinking, value stream mapping, cellular manufacturing, cycle time reduction, Kaisen training, Kanban production systems and six-sigma.
Prerequisite: IENGR-315, pre or corequisite IENGR-413; pre or corequisite ENGR-427; co-register with ENGR-498

IENGR-426 **3-0-3**
Supply Chain Modeling and Analysis
This course is a designated elective that can be selected as one of the two required designated electives for the BSISE. The course provides a broad introduction to many critical facets of supply chain. Students in this course will apply industrial engineering tools learned through the curriculum to design, analyze and optimize the supply chain such as, mathematical optimization, inventory management, transportation and network location, facilities planning and material handling. Then, more advanced topics are interrelated such as the value of information sharing in the supply chain, and customer value strategic alliances, international issues and decision support systems.
Prerequisites: IENGR-413, IENGR-418

IENGR-427 (Formerly EN717) **3-0-3**
Facility Planning & Material Handling
Physical organization of work places and departments to optimize objectives such as material movement, safety and worker satisfaction. Review of ISE methods for work-place design and productivity measurement and economic decision-making. Computer solutions for layout problems and mathematical models for location problems. Analysis and design of material handling, warehousing and distribution systems.
Prerequisites: ENGR-307; pre or corequisite ENGR-498

INDD-101 (Formerly I111) **0-8-4**
Design I for Industrial Design
This studio is an introduction to design for undergraduate majors in industrial design. The course will provide an intensive introduction to design as an iterative problem-solving process. It will also introduce strategies for making and analyzing form, and present basic techniques of two-dimensional visualization and documentation of three-dimensional objects and principles of design critique, testing and research.

INDD-102 (Formerly I112) **0-8-4**
Design II for Industrial Design
This studio introduces methods, materials and vocabulary of the industrial design profession, as well as design as a rational, iterative process of problem solving based on working creatively within constraints. Working with materials, digital and hand tools, shop processes and presentation techniques used by professionals are emphasized. It is intensive in industrial design drawing, including sketches, development drawings, orthographic, axonometric and perspective renderings, as well as beginning drafting as used in industrial design, with dimensioned assembly and parts drawings.
Prerequisite: grade of "C" or better in INDD-101 or ADFND-101 or permission of the director of the Industrial Design program.

INDD-106 (Formerly I321) **2-4-3**
Materials and Process: Fabrication
This course introduces shop techniques as they pertain to industrial design model-making and prototype construction. All industrial design students must take this course for shop equipment safety training and pass a safety test. Throughout the semester, attention is given to safety precautions for the shop, along with demonstrations of shop equipment and fabrication processes. A major portion of the course will consist of developing an understanding of the materials and machinery commonly used by industrial designers for producing both working and appearance models.
Prerequisite: grade of "C" or better in INDD-101 or ENGR-102

INDD-201 (Formerly I311) **0-8-4**
Design III for Industrial Design
This course focuses on creative problem-solving techniques using drawing, sketch modeling and basic shop skills. Students are exposed to a wide choice of materials, which industrial designers use to move their projects forward. Students will use several media for the purpose of documenting projects in progress, for duplication and for presentation purposes. Emphasis is placed on the improvement of craft in the execution of projects.
Prerequisite: grade of "C" or better in INDD-102

INDD-202 (Formerly I312) **0-8-4**
Design IV for Industrial Design
During the fourth in a series of eight studios, designs are conceived which explore the dynamics between objects and the user's senses and emotions. Students are challenged to improve their ability to define problems, generate concepts, evaluate these and offer refinements of solutions. Students

will use basic imaging techniques in the presentation of design solutions.
Prerequisite: grade of "C" or better in INDD-201

INDD-205 (Formerly I351) **1-4-3**
Rendering for Industrial Design
An introduction to the traditional techniques and materials that industrial designers use to develop and represent three-dimensional concepts and ideas. Students become proficient in the use of pencils, markers, pastels and airbrush on a variety of media. Emphasis is placed on understanding the significance of color and graphic applications for industrial design.
Prerequisite: DRAW-201 or permission of the instructor

INDD-207 (Formerly I322) **2-4-3**
Materials and Processes: Manufacturing
This course is concerned with the exploration of materials used in the mass production of products, the processes used to shape these materials and the applicability of these materials to product-design solutions. Students should be prepared to visit a number of manufacturing facilities. A survey of rapid prototyping technologies completes the course.
Prerequisite: grade of "C" or better in INDD-101or ENGR-102

INDD-210 (Formerly I332) **2-2-3**
Ergonomic Studies
This course analyzes human factors as related to broad aspects of design development. It explores the issues of operator/user human factors and their impact on design. The outcome of this course will be to ascertain the relationship of basic human dimensions on product design. Subjects include systems reliability, sensory and motor processes, basic research techniques and anthropometric studies.
Prerequisite: INDD-102 or permission of the instructor

INDD-301 (Formerly I511) **0-8-4**
Design V for Industrial Design
The fifth in a series of eight studios, this course focuses on ideas of designs derived from an understanding of consumer behavior. Emphasis is placed on user needs, ease of use and product culture, without ignoring the practicalities imposed by manufacturer's markets, manufacturing process constraints and investment concerns. Students will demonstrate control of the process of design to develop meaningful concepts that employ appropriate technology for their eventual realization.
Prerequisite: grade of "C" or better in INDD-202

INDD-302 (Formerly I512) **0-12-6**
Design VI for Industrial Design
In this sixth of a series of eight studio courses, students design and develop consumer products. Students learn about the complexities of the product-development process, during which assembly requirements, marketing issues, materials and component development all affect the initial intent of their designs. Students are required to fabricate a fully functional prototype of their designs. A selected team of professionals from the industry will evaluate the final product.
Prerequisite: grade of "C" or better in INDD-301

INDD-304 (Formerly I532) **3-1-3**
Design History/Theory
This writing intensive seminar will serve as a forum for students to explore the context and scope of the practice of industrial design through readings, research, critical discussions, written presentations and papers. This course is intensive and incorporates a workshop component in which students will use various theoretical frameworks to examine their own attitudes and design work through papers and spoken/graphic presentations.
Prerequisite: INDD-324 or permission of instructor

INDD-324 (Formerly I531) **3-0-3**
History of Design and Communication
This lecture course begins with industrialization and leads to the development of modern design and philosophy. Aspects of industrial design and graphic communication will be critically reviewed. Current design events will be studied interactively and discussed as a continuation of past design inquiries.

INDD-381 (Formerly I891) **0-0-3**
Independent Study in Industrial Design
For further details, see general description of Independent Study in "Academic Policies" section.
Prerequisites: INDD-302 and permission of the instructor

INDD-401 (Formerly I711) **0-12-6**
Design VII for Industrial Design
The seventh in a sequence of eight studios, this course focuses on the development and expression of design ideas through the knowledgeable assembly of electronic systems and components. The purpose of this course is to familiarize students with technology as it applies to the practice of industrial design. It will focus on technology in three areas: expansion of human ability, augmentation and articulation in industry, and creativity and development enhancement.
Prerequisite: grade of "C" or better in INDD-302

INDD-402 (Formerly I712) **0-12-6**
Design VIII for Industrial Design
The last in a sequence of eight studio courses, this course is entirely dedicated to the student's capstone project. It is structured to simulate all aspects of client/designer dynamics, research requirements and project-management issues. Students secure a sponsor from industry or from the industrial design profession, choose the topic of the thesis and present the outcome of their project in a public forum.
Prerequisites: grade of "C" or better in INDD-401 and concurrent enrollment in INDD-494

INDD-493 (Formerly I851) **2-2-3**
Professional Practice I
The first in a two-course sequence will address the business, legal and ethical issues in the practice of industrial design. It addresses vital business imperatives in the field of industrial design and such issues impacting on independent consultant design practice and corporate design staff activities. Through research, students begin a personal exploration of the different disciplines embraced by the profession.

Students begin networking with the profession to secure and negotiate commitments for their capstone project. This course is writing intensive.
Prerequisites: grade of "C" or better in INDD-302

INDD-494 (Formerly I862) **2-2-3**
Professional Practice II
The second in a two-course sequence begins with management concerns related directly to the capstone project. Assignments serve to research project design solutions. The second half of the course focuses on presentation preparations for the capstone project, the integration of the project into the portfolio and the development of this portfolio in digital media. Students are exposed to various issues related to finding gainful employment.
Prerequisites: grade of "C"or better in INDD-401, INDD-493 and concurrent enrollment in INDD-402

INFO-101 (Formerly B122) **2-2-3**
Introduction to Information Systems
The course provides an introduction to the principles of business information processing and the structure and operation of modern digital computers and networks. Included are practical applications and hands-on experience with a word processor, spreadsheets, database, presentation software and World Wide Web authoring software.

INTD-106 (Formerly A123) **1-4-3**
Technical Drawing and Graphic Representation
Following one semester of drawing, this course focuses on the fundamentals of creative graphic representation. Specific topics of emphasis include the construction of orthographic and paraline projections including floor plans, elevations, sections, and one-point and two-point perspective.
Prerequisite: DRAW-101 and ADFND-101

INTD-201 (Formerly A315) **0-8-4**
Design III for Interior Design
This studio introduces students to the elements, principles and theories of interior design within the framework of residential design. Students will explore conceptual, theoretical, functional and aesthetic issues, in addition to the organization and interrelationship of residential spaces, elements of enclosure, environmental behavior issues, symbolism and socio-cultural factors. The role of finishes, furniture and equipment (FF&E) in defining a space and the experiential and intuitive nature of the design process will be emphasized.
Prerequisite: grade of "C"or better in ADFND-102 and INTD-106

INTD-202 (Formerly A316) **0-8-4**
Design IV for Interior Design
Through structured, diverse, small-scale commercial design projects, this studio introduces students to the conceptual, theoretical, functional and aesthetic issues related to commercial interiors. The craft of making interior spaces, finishes, furniture and equipment (FF&E) in defining a space and the experiential and intuitive nature of the design process will continue to be emphasized. This course uses research, writing and analysis to explore human behavior in commercial environments.
Prerequisite: grade "C" or better in INTD-201

INTD-206 (Formerly A346) **2-2-3**
Interior Building Technology
This course focuses on construction and installation as it specifically relates to interior design. Students will be introduced to the nature and characteristics of interior detailing in relation to interior construction such as architectural woodwork, millwork, partitions, floors, ceilings, stairs, custom cabinetry, furniture and specialty elements. The influence of interior finish materials and textiles on interior form and detailing will be explored. Additional foci include environmental factors, building codes, accessibility requirements, fire safety and materials regulations.
Prerequisite: ARCHDSN-210 and INTD-201

INTD-208 (Formerly A601) **2-2-3**
Presentation Techniques
This elective course explores several types of rendering techniques for interior design and architectural spaces. It consists of discussion, demonstration and experimentation of freehand and drafted ink work, graphite, color pencils, markers, watercolors, pastels and various reproduction presentation methods.
Prerequisite: INTD-201

INTD-210 (Formerly A351) **1-4-3**
Color: Theory and Practice
This elective studio explores the phenomena and meaning of color, based on appropriate theories of the physical aspects of color using pigment, light and space. Exercises examine what color is, why it is and how we see it. Additional foci include control of color interactions and distinguishing color differences. This course will provide the basis for color choices in a logical and sequential manner and will bridge the gap between theory and use.
Prerequisite: DSGNFND-203 or grade of "C"or better in ADFND-102

INTD-301 (Formerly A515) **0-12-6**
Design V for Interior Design
This studio focuses on mid-sized commercial and retail interiors. Within the context of a specific program and client, students develop conceptually strong and unique design solutions, integrate issues of technology and construction, and consider special population needs. Students learn to seamlessly integrate appropriate choices in finishes, furniture equipment (FF&E), lighting and basic building technologies in their designs.
Prerequisite: grade of "C" or better in INTD-202 or permission of the program director

INTD-302 (Formerly A516) **0-12-6**
Design VI for Interior Design
This advanced studio emphasizes the resolution of complex design issues in the context of commercial and business interiors. Students analyze a program, ecological and environmental factors, develop a design concept, and proceed with

a completed design that incorporates advanced technological and sustainable design principles. Holistic development of concept, sustainable design solutions, large-scale space planning, materials, construction details, lighting design, building systems, building codes, handicapped accessibility and furnishings is emphasized in the completed design presentation.
Prerequisites: grade of "C" or better in INTD-301, and approval of the instructor or program director

INTD-305 (Formerly A745) **2-2-3**
Interior Building Systems
This mandatory course will focus on the understanding and application of a broad range of mechanical, electrical, lighting, acoustical, plumbing, HVAC, security and other building systems in the context of interior design. Students will be introduced to the nature and characteristics of fire detection, protection and suppression in building interiors. The critical role of interior building systems in establishing and maintaining the health, safety and welfare of users will be emphasized.
Prerequisites: INTD-206 and INTD-202

INTD-308 (Formerly A625) **1-4-3**
CAD II for Interior Design
Following CAD Visualization I: Digital Modeling, this required course focuses on two-dimensional design communication and documentation utilizing AutoCAD software for computer-aided drafting. Students will be exposed to AutoCAD commands and techniques, which are most likely to be used in a professional office setting. Students will have an opportunity to produce a set of interior-design working drawings and to further their knowledge of professional interior-design construction and specification documents.
Prerequisite: ARCHDSN-208, INTD-206, INTD-202

INTD-310 (Formerly A526) **3-0-3**
Textiles and Materials for Interiors and Architecture
This course introduces the role of textiles in the creation of commercial and residential interiors. Key topics include the selection, specification and application of textiles based on their properties and performance criteria; sources of textiles and fabrics; the concept of sustainable resources; appropriate installation methods and maintenance requirements of textiles in interior applications; codes; regulations and standards related to use of textiles in interiors; and estimating material requirements such as carpeting, wallpaper and ceiling finishes.
Prerequisite: INTD-201 or permission of the instructor

INTD-311 (Formerly A616) **2-2-3**
Introduction to Set Design
This elective focuses on developing the setting for the action of a play. The set designer develops many of the same skills exercised by architects/interior designers: mastery of design fundamentals, understanding of time and place, knowledge of construction techniques and awareness of how people use space. Steps to creating the stage set will include: careful reading and discussion of selected plays, surveying an existing stage, assisting in the construction of a stage set and attending assigned performances.
Prerequisites: grade of "C" or better in both ARCH-301 and ARCH-302 or LARCH-302, or grade of "C" or better in INTD-302

INTD-325 (Formerly A615) **2-2-3**
Furniture Design
This beginning-level elective course is intended to provide students with a basic knowledge of the aspects involved in furniture design. The goal is to expose students to the various means through which one engages in product design. Emphasis is on the fabrication process in addition to prototyping, testing and revision. The course consists of readings, brief lectures, class discussions and studio projects that cover the range of information that designers need to know to be able to specify, design and evaluate furniture-related products for the built environment. A significant amount of class time will be devoted to the development, design and revision of projects.
Prerequisite: grade "C" or better in ARCH-201 or INTD-201

INTD-401 (Formerly A715) **0-12-6**
Design VII for Interior Design
This studio course explores the full range of contract design. Emphasis is on creating a corporate identity through the development of design concept. The semester-long project provides opportunities to analyze client, program and complex work environments. Students develop conceptual models, adjacency diagrams, complex space plans and 3-D modeling. Concept is further integrated into the design through the selection and design of materials, furniture and lighting. Industry standards are addressed and integrated along with building code requirements, accessibility requirements and economic and maintenance issues. The semester-long project culminates in a detailed and complex final presentation.
Prerequisite: grade of "C" or better in INTD-302

INTD-412 (Formerly A753) **2-1-2**
Interior Professional Practice and Contract Design
In this seminar, the interior design student will analyze the specialized services performed by the professional designer by studying the administrative, legal, ethical and financial aspects of professional practice. Contract documents, specifications, safety standards and building codes will be studied within the context of a non-residential (contract) design project.
Prerequisite: INTD-206 and grade of "C" or better in INTD-302

INTD-428 (Formerly A633) **2-2-3**
Restoration/Rehabilitation Interiors
This is an elective lecture/lab course in which students work with period and historic spaces. The course introduces students to theories and techniques of adaptation and preservation of period spaces, preserving their historical integrity. The course will deal with applicable building codes, National

Park Service standards of rehabilitation, designing within ADA guidelines and use of appropriate materials and lighting.
Prerequisites: ARCH-211 or LARCH-207; AHIST-305 or LARCH-307; and ARCH-202, LARCH-202 or INTD-202

INTD-487 (Formerly A717) **1-4-3**
Capstone Research & Programming for Interior Design
This course gives students the opportunity to assess their inclinations in the field and to select a project that addresses their specific interest. Students are expected to generate individualized research and programming to be used for design and development in their Capstone Project the following semester. They will produce a Capstone Research & Programming Document, which will be the result of research, analysis, and the synthesis of information. It will articulate a clear definition of project parameters and programming. The process of generating this document will recapitulate and augment the research and programming process, which students have been exposed to in previous interior design studios.
Prerequisites: grade of "C" or better in INTD-302, and approval of the faculty and program director

INTD-488 (Formerly A718) **0-12-6**
Capstone Project for Interior Design
The interior design Capstone semester provides students with an opportunity to focus on an area of concentration in a design project, which will be independently developed with a designated faculty member. The student must demonstrate aptitude and understanding of architectural and interior design theory, principles, and technology, as well as, overall design competence. The Capstone project includes research in the student's selected problem area, development of the design concept, detailing and creative presentation of the design investigation.
Prerequisite: grade of "C" or better in INTD-401 and INTD487

JSINT-3XX **3-0-3**
Integrative Professional Seminars
(writing intensive)
Integrative Professional Seminars offer an in-depth examination of specific topics or themes related to the University's professional majors. Geared for a general audience, these courses allow students to explore topics from a variety of perspectives, including those from the disciplines of history, the social sciences and/or the humanities. As advanced writing-intensive courses within the College Studies program, these courses prepare students for senior capstone courses in College Studies and the majors by developing their research, communication and critical-thinking skills. To view current course offerings in this category, go to www.PhilaU.edu/JuniorSeminars.
Prerequisite: WRTG-2XX, SOC-2XX

JSINT-384 **3-0-3**
Applied Professional Ethics
(writing intensive)
This research and writing-intensive course introduces students to numerous concepts in Western and non-Western ethics that inform decisions about what we "ought" to do in our personal and professional lives. Students will read primary text selections from philosophers and analyze practical cases by applying what they have read.
Prerequisites: SOC-2XX, WRTG-21X

JSLA-3XX **3-0-3**
Liberal Arts Seminars
(writing intensive)
Liberal Arts Seminars offer an in-depth examination of specific topics or themes related to the disciplines of history, the social sciences and/or the humanities. Designed for a general audience, these courses allow students in their junior year build upon the skills and knowledge gained in the introductory College Studies courses in these disciplines. As advanced writing-intensive courses within the College Studies program, these courses prepare students for senior capstone courses in College Studies and the majors by developing their research, communication and critical-thinking skills. To view current course offerings in this category, go to www.PhilaU.edu/JuniorSeminars.
Prerequisite: WRTG-2XX, SOC-2XX

JSLA-360 **3-0-3**
Creative Writing: Shaping Narrative and Experience
(writing intensive)
In this hands-on course, students develop their knowledge of how to shape narrative and experience through forms of creative written expression such as poetry and fiction. Students will read and analyze work in these forms; experiment with these forms through writing their own creative drafts and revisions; and develop critiquing skills in a workshop environment. Students showcase their work in a final portfolio and a reading open to the University community.
Prerequisite: WRTG-21X, SOC-2XX

JSLA-361 (Formerly L686) **3-0-3**
From Fiction to Film
(writing intensive)
The study of the interrelationships between literature and film through case studies of the translation of significant novels (focus on 19th and 20th century) into works of cinema.
Prerequisites: SOC-2XX, WRTG-21X

JSLA-362 (Formerly L683) **3-0-3**
The Artist and Society in Literature and Film
(writing intensive)
An examination of the enigmatic figure of the artist depicted in literature (the short story, the novella and the novel). The genesis and complexity of artists as literary figures will be considered as they find themselves in conflict with society.
Prerequisites: SOC-2XX, WRTG-21X

JSLA-363 (Formerly L685) **3-0-3**
Shakespeare and Popular Culture
(writing intensive)
What role does Shakespeare's writing play in popular culture today? How and why have modern filmmakers, artists and writers "reinterpreted" Shakespeare's plays? Students read and discuss selected plays and examine various film adaptations of them. In addition to comparing different

interpretations of Shakespeare's plays to the originals, the course investigates some of the larger issues surrounding Shakespeare and contemporary culture.
Prerequisites: SOC-2XX, WRTG-21X

JSLA-370 (Formerly L675) **3-0-3**
The U.S.: The Recent Past
(writing intensive)
This course focuses on social, cultural, political and economic changes within the United States since 1945. Topics such as beatniks and hippies, the New Left, the civil rights movement, student and anti-war movements, the women's movement, the politics of conservatism and the fate of labor will be studied in the context of an increasingly ethnically and racially diverse society. Students will be encouraged to explore and write from a wide range of sources from across the disciplines.
Prerequisites: SOC-2XX, WRTG-21X

JSLA-380 (Formerly L664) **3-0-3**
Human Rights
(writing intensive)
The course will examine the question of whether there are certain rights that we all possess as human beings and the prominence of these rights in international relations. Students will monitor human-rights violations in the United States and other countries in order to determine how much we have achieved as a world community and how far we have yet to go.
Prerequisites: SOC-2XX, WRTG-21X

JSLA-381 (Formerly L684) **3-0-3**
Gender Studies
(writing intensive)
This course focuses on recent developments in gender studies, examining how gender has been conceptualized and analyzed, historically and in the present day. Topics considered include the formation of masculinities and femininities, the intersections between gender, sexual orientation, class and race, and the significance of gender in personal and professional contexts. Readings are drawn from a variety of disciplines depending on the instructor.
Prerequisites: SOC-2XX, WRTG-21X

JSLA-390 (Formerly L673) **3-0-3**
The Urban Experience
(writing intensive)
This course discusses the origins and development of urban life. Special focus will be upon Philadelphia as it represents trends in the American experience of cities.
Prerequisites: SOC-2XX, WRTG-21X

JSLA-391 (Formerly L671) **3-0-3**
The African American Experience
(writing intensive)
This course explores African Americans' struggle for freedom and equality in American society. It examines the social, economic, political and cultural realms of African American life with some exploration of cultural origins in West Africa. Students read in primary sources and use literary evidence in an interdisciplinary effort to understand the past and explore contemporary issues in American society.

KNIT-201 (Formerly T551) **4-2-4**
Knitting I
The understanding of both weft- and warp-knit fabrics through an investigation of knit construction, machinery, principles and knit fabric analysis. Lectures are complemented with a series of lab exercises on hand-flat equipment and fabric-analysis projects designed to fully acquaint the student with the principles of knit-fabric design and production.
Prerequisite: TEXT-101

KNIT-203 (Formerly T540) **1-5-3**
Knit Design Studio I
Students will learn through individual development how to create a range of texture and color effects within knit design. Independent needle selection and the use of the presser foot will be explored within design areas involving Jacquard, held-stitch and tuck-stitch structures. Design ideas will be developed through to swatch/sketch proposals suitable for sweater production.
Prerequisite: KNIT-201

KNIT-205 (Formerly T552) **4-2-4**
Knitting II
A further investigation into the construction, design and production of both weft- and warp-knit fabrics. Lectures will be complemented with lab work involving the design, production and analysis of knit fabrics upon power-knitting equipment.
Prerequisite: KNIT-201

KNIT-213 (Formerly T541) **1-5-3**
Knit Design Studio II
A knit design studio elective for Textile or Fashion majors specializing in the knit-design area. Original design ideas will be developed through swatch/sketch presentations. Garment ideas will be developed through technical sketches and specifications into completed sweaters.
Prerequisite: A grade of "C" or better in KNIT-203

KNIT-307 (Formerly T553) **3-3-4**
Advanced Warp Knitting
Covers all facets of warp-knitting technology with particular emphasis on the variety of machines and fabric construction in relation to end-use applications and markets. Tricot and raschel warp-knit fabric constructions are made in the knitting laboratory to illustrate the basic warp-knit stitches and lapping motions. A variety of warp-knit fabric samples are analyzed to illustrate basic fabric geometric parameters used in the design and production of warp-knit constructions. Also, students are required to research a unique warp-knit process/product.
Prerequisite: KNIT-201

KNIT-326 (Formerly T503) **1-5-3**
Advanced Weft Knitting
An exploration of the principles involved in knit design using CAD systems and electronic-knitting equipment. Students will design, write computer programs and knit their own fabrics on sweater- and jersey-knitting equipment. Fabric

constructions such as Jacquard, links-links, cables, pointelle and presser-foot designs will be developed.
Prerequisite: KNIT-203 or permission of the instructor

KNIT-401 (Formerly T545) 1-5-3
Introduction to Knit Design
(for non-Textile Design majors)
An elective course in which students may explore the development of knit design. Design ideas will be developed on hand equipment through to swatch/sketch proposals suitable for product design. Students can take this course as a single elective and develop design work suitable for inclusion in their portfolio or take further knit-design electives in order to further their skills.
Cannot be taken as a replacement for KNIT-201.

LARCH-202 (Formerly LA312) 0-8-4
Design IV for Landscape Architecture
The focus of this studio is sustainable large-scale planning and design. Students explore land-planning theories, methods and resources used in landscape analyses for sustainable settlement, preservation or management of the land. Natural, cultural and experiential data are integrated into the decision-making and design processes.
Prerequisite: grade of "C" or better in ARCH-201

LARCH-203 (Formerly LA122) 1-4-3
Graphics for Landscape Architecture
In this course, the student gains proficiency in various landscape architecture graphic conventions used in generating, evaluating and presenting design ideas. Included are principles and application of graphic language, color theory, diagramming, plan and section graphics, and oblique and perspective drawings.
Prerequisite: DRAW-101 or permission of the director

LARCH-206 (Formerly LA332) 3-0-3
History of Landscape Architecture I
This is the second course in a four-term sequence in the history of landscape architecture. This class surveys key examples of landscape architecture from the central, eastern and western regions of the world, produced from the 8th to the 19th centuries. Students acquire a working vocabulary for analyzing and evaluating the designed landscape through the study of natural and built landscapes, architecture and interior spaces, as well as painting and decorative arts.
Prerequisite: AHIST-205 or permission of the director

LARCH-207 (Formerly LA341) 2-2-3
Technology I: Grading
This course focuses on the principles and techniques of landform manipulation for design and drainage. Students develop an understanding of contours, contour manipulation and site-construction methodologies. Topics include topographic and grading problems in landscape engineering: drainage plans, grading plans, spot elevations, road alignment, sections and profiles, and cut-and-fill calculations.
Prerequisite: ADFND-102 or permission of the director

LARCH-302 (Formerly LA512) 0-10-5
Design VI for Landscape Architecture
This studio focuses on community design with the physical environment viewed as a catalyst for community enhancement and revitalization. Issues include community identification, social cohesiveness, social, economic and political factors, the role of open space in urban neighborhoods, and community safety and livability. Emphasis is placed on learning methods and techniques for developing physical-design solutions and implementation strategies when working with school, neighborhood and community groups. An important component of the experience is community participation.
Prerequisite: grade of "C" or better in LARCH-202

LARCH-306 (Formerly LA550) 3-0-3
Design & Human Behavior
This course provides an introduction to a range of viewpoints, concepts and characteristics of human behavior that should be considered during the design process. Cultural, social and psychological factors are examined. Various theories and methods of environmental assessment and design are studied that are based on an understanding of mutually supportive relationships between people and their physical environment.
Prerequisite: LARCH-202 or ARCH-202 or permission of the director

LARCH-307 (Formerly LA532) 3-0-3
History of Landscape Architecture II
This course is the third of a four-term sequence of history/theory courses. It surveys key examples of landscape architecture from the mid-19th century to the present time. Students strengthen their vocabulary for analyzing and evaluating the designed landscape. Students are also introduced to the influential personalities, projects, events, concepts and thoughts that were pivotal in the philosophical and ethical development of the profession of landscape architecture.
Prerequisite: LARCH-206

LARCH-310 (Formerly LA521) 1-4-3
GIS for Landscape Analysis
This course is the second in a series of CAD-related courses that is specific to the profession of landscape architecture. Students are introduced to the software appropriate to representing landscape architecture, currently Land CAD and Geographic Information Systems. The intent is to represent grading, cut-and-fill calculations, terrain modeling, visual analysis, spatial modeling, resource management, site design and master planning. Specific software includes: ArcView GIS and CityGreen.
Prerequisite: ARCHDSN-208 or ECBIO-301

LARCH-3XX 2-2-3
Sustainable Planting Design
In this course students apply the ecological needs of plants to real situations such as greenroofs, xeriscaping, habitat management, brownfield restorations, meadows and highway plantings. The course stresses ecological relationships among plants and how those relationships are used in the design of these environments. In order to design and

maintain these environments students need to understand planting design as well as ecology.
Prerequisites: ECBIO-208 and ECBIO-301

LARCH-401 (Formerly LA711) 0-12-6
Design VII for Landscape Architecture
Design VII is a topical studio within the landscape architecture studio sequence. Students may customize their education by selecting a topical studio from several options. Optional topics may include, but are not limited to, brownfield redevelopment, co-housing development, waterfront redevelopment and community revitalization. Other studios that can be substituted for this studio include: a Study Abroad studio, a digital studio through the Digital Design program, an Architecture design-build studio, or an interdisciplinary studio with the Architecture, Industrial Design or Interior Design programs.
Prerequisites: grade of "C"or better in ARCH-301 and LARCH-302

LARCH-402 (Formerly LA712) 0-12-6
Design VIII for Landscape Architecture
This studio course focuses on restoration management methodologies and ecological landscape design principles as they apply to a damaged urban landscape. Students explore restoration methodologies, how to determine values and make choices, while being cognizant of the costs and public perception. Techniques, practices and materials – both sustainable and conventional- are evaluated and then applied to a selected brownfield site in the Philadelphia area.
Prerequisites: grade of "C" or better in ARCH-301 and LARCH-302; ECBIO-207

LARCH-409 (Formerly LA741) 2-2-3
Technology II: Materials & Methods
This course covers theories and practices of historic and cultural preservation as a component of a more comprehensive framework for environmental and resource management. Students study the importance of designating historic districts, buildings and landscapes, as well as accomplishing preservation goals, within the existing regulatory environment. Also covered are interpretive methodologies for understanding current cultural and social patterns and practices in the landscape, with an emphasis on sustainability.
Prerequisites: ARCH-205 and LARCH-207

LARCH-411 (Formerly LA533) 3-0-3
Landscape Architecture Theory: Seminar
This seminar, the fourth of a four-term sequence of history/theory courses, explores the theories pertinent to the practice and study of landscape architecture. The major issues that have influenced both the meaning of and the practice of landscape architecture will be critically reviewed. Topics may include the relationship of landscape architects and their work to culture, technology, politics, stewardship, nature, the designed environment and people.
Prerequisites: LARCH-307

LARCH-412 (Formerly LA742) 3-0-3
Technology III: Urban Hydrology
Urban hydrology examines sustainable water resource issues as they relate to landscape planning and site planning and design within the urban or urbanizing context. This includes the theory and techniques associated with soil and water conservation – comprehension of the why, when and where that leads to sustainable planning or design strategies. Topics include surface water hydrology, stormwater runoff estimation, sustainable stormwater management techniques, watershed planning, flood routing and impact mitigation, and erosion and sedimentation control tools and regulations
Prerequisite: LARCH-207

LARCH-501 (Formerly LA811) 0-12-6
Design IX for Landscape Architecture
This course is the sixth in a series of studios specific to the Landscape Architecture program curriculum. The scale of the project is at the site scale. Whatever the design problem, students must deal with the project from inception through construction documentation, including site inventory and analysis, research of appropriate precedents, formulation of concept/design ideation, analysis of various material options and evaluation of the impact of the design upon the community and the physical environment. An appropriate body of theory and research, complemented by applicable case studies, will be selected and inform the design process. The theoretical framework will vary with the project type selected by the instructor. This course is closely aligned with LARCH-513 (Tech IV: Construction Documents).
Prerequisites: LARCH-207 and LARCH 409; grade of "C" or better in both LARCH-401 and LARCH-402

LARCH-502 (Formerly LA812) 0-12-6
Design X for Landscape Architecture
This course is the last in a series of studios specific to the Landscape Architecture program curriculum. Students work independently and select their own Capstone Project topic. The Capstone Project requires individual research, inventory and analysis, programming and design concept development through final design.
Prerequisites: LARCH-591; grade of "C" or better in LARCH-501

LARCH-506 (Formerly LA852) 3-0-3
Professional Practice for Landscape Architects
This course introduces the ethical, legal, and administrative issues and procedures encountered in numerous forms within landscape architecture practice. Topics include: types of practice, project management, the ethical and legal frameworks in which professional landscape architecture practice occurs, contractual documents, proposal preparation and fee structuring. The preparation of an effective resume and portfolio concludes the course.
Prerequisite: LARCH-501

LARCH-507 (Formerly LA808) 3-0-3
Cultural and Landscape Preservation
This course covers theories and practices of historic and cultural preservation as a component of a more comprehensive

framework for environmental and resource management. Students study the importance of designating historic districts, buildings and landscapes, as well as accomplishing preservation goals, within the existing regulatory environment. Also covered are interpretive methodologies for understanding current cultural and social patterns and practices in the landscape, with an emphasis on sustainability.
Prerequisites: LARCH-306 or ARCH-421

LARCH-509 (Formerly LA809) 3-0-3
Social and Spatial Patterns
The moral necessity of providing people an urban environment in which to flourish is studied in relation to the physical, institutional and cultural environment. The role and functions of planning and design are examined for their critical contributions and limitations in accommodating a high quality of life.
Prerequisite: LARCH-306 or permission of instructor

LARCH-512 (Formerly LA609) 2-2-3
Landscape/Urban Design
This elective course concentrates on site planning and design of exterior space, with an emphasis on site analysis, design development and many issues involved in the final phases of the design process. Topics include circulation, open-space design, site and building entrances, site materials for walls, paving and furnishings. Included is the installation of a portion of the design in a community urban area.
Prerequisites: LARCH-307

LARCH-513 (Formerly LA841) 2-2-3
Technology IV: Construction Documents
This is the final course of the construction technology series. The major emphasis is the preparation of a complete set of technical construction documents with specifications and cost estimates. Specific topics include: site demolition, layout and dimensioning and specification writing. Students are to use the project developed in LARCH-501; therefore, the two courses are closely aligned.
Corequisite: LARCH-501

LARCH-515 2-2-3
Advanced GIS for Landscape Analysis
This is an advanced course in Geographic Information Systems (GIS). Students continue their studies in GIS applications appropriate to landscape analyses. GIS is an increasingly important tool for organizing digital spatial data in an accessible and logical manner for site design, recreation master planning, visual analysis, comprehensive planning, resource management and public advocacy.
Prerequisite: LARCH-310

LARCH-521 3-0-3
Environmental Policy
Environmental problems are essentially social, economic and political problems. This course initially traces the evolution of United States environmental policy, legislation and regulations, including the background and context of environmental policymaking; the substantive problems and political process of environmental movements; and contemporary environmental thought with regard to issues of sustainability and environmental justice.
Prerequisites: Writing Seminar II and at least one Level II College Studies course

LARCH-591 (Formerly LA810) 3-0-3
Research Methodology for Landscape Architecture
In this writing-intensive seminar, students are introduced to quantitative and qualitative research methods through lectures, discussions and assignments intended to promote independent methods of research and design inquiry. Students are to develop a well-articulated, conceptual framework for their thesis or capstone studio project, which includes their research topic, method of analysis, a literature review and detailed work plan.
Prerequisites: grade of "C" or better in LARCH-401 and LARCH-402

LAW-100 3-0-3
Introduction to Law and Society
An interdisciplinary introduction to legal systems and the law. Laws are created by social and cultural systems and affected by social, economic and political environments. This course will help students understand the development and impact of legal systems through case studies of many current legal issues and debates. There will also be an introduction to international comparisons.

LAW-103 3-0-3
Crime and Justice
This course provides an introduction to criminal justice in America. Students will examine the criminal justice system and process in the social context of justice and democratic society. They will study the police and criminal courts as political institutions that make decisions with an eye to the press and popular opinion as well as to race, class and justice.

LAW-105 3-0-3
American Government
This course provides an introduction to Law and American Government in action. In the course students will investigate the structures and processes of American Government and the relationships between the three branches of government within the context of how public policy is made and implemented.

LAW-201 3-0-3
Constitutional Law and the Supreme Court
This course provides an examination of the sources, growth, development, and interpretation of the United States Constitution. It also examines the role of the Supreme Court in addressing issues of constitutionality, and considers key cases, historically and currently.

LAW-203 3-0-3
Comparative Legal Systems
This course provides an introduction to comparative law, and how different legal systems approach the law, legal analysis and legal culture. This course provides an examination of comparative legal systems, which consist of legal processes,

institutions and culture, through a series of thematic comparative case studies. It also examines the role of dispute resolution processes in different legal cultures; addresses issues of civil, criminal and administrative law; and considers key cases, historically and currently.
Prerequisite: WRTG-101

Mathematics

Quantitative Reasoning
The College Studies curriculum requires every Philadelphia University graduate to complete a mathematics education that includes differential and integral calculus, to ensure that our graduates have developed quantitative reasoning skills that strengthen their critical thinking abilities. To fulfill this core curriculum requirement, students must complete the highest calculus course for which they are qualified, up to Calculus I.

The specific course sequence will be determined by the student's major and the level of mathematics with which the student enters the University as demonstrated by previous coursework and/or placement testing. The two-course sequences are:

MATH-100/1 (L130/13)1: Finite Math
MATH-103 (L132): Intro. to Calculus
or
MATH-102 (L135): Pre-Calculus
MATH-103 (L132): Intro. to Calculus
or
MATH-102 (L135): Pre-Calculus &
MATH-111 (L141): Calculus I
or
MATH-103 (L132): Intro. to Calculus
and one Free Elective
or
MATH-111 (L141): Calculus I
and one Free Elective

MATH-099 (Formerly M99) **3-2-(3)**
Fundamentals of College Mathematics
This course covers those topics in arithmetic and algebra that are essential to further work involving mathematics. Students will study fractions, decimals and percentages, signed numbers, linear and quadratic equations, exponents and scientific notation, factoring, techniques of graphing, equations of straight lines and linear systems of equations. There will be an emphasis on applications. Use of the scientific calculator will be discussed. Credits earned may not be applied toward graduation requirements. Students must earn a "C" or better to receive credit for fundamentals courses. See "Fundamentals Courses" in the section "Academic Policies."
Students required to take MATH-099 must pass the course before taking CHEM 103, Chemistry I.

MATH-100 (Formerly L130) **3-2-3**
Finite Mathematics
While the content of MATH-100 is identical to that of MATH-101, more time is devoted during the semester to the review and use of elementary mathematical operations. See MATH-101 for content.

MATH-101 (Formerly L131) **3-0-3**
Finite Mathematics
An introduction to the concept of a mathematical model, with special emphasis on using functions to model problems in business and economics. The functions and their graphs that are studied (needed for MATH-103) include polynomials (esp. linear and quadratic), rationals, exponentials and logarithms. Applications are made to finance, including annuities. In addition, simultaneous linear equations, Gaus-Jordan elimination, matrix algebra and linear programming are covered.

MATH-102 (Formerly L135) **3-0-3**
Pre-Calculus
The fundamentals of college algebra, analytic geometry and trigonometry will be covered, with particular emphasis on those topics necessary for the calculus sequence.

MATH-103 (Formerly L132) **3-0-3**
Introduction to Calculus
An introduction to the differential and integral calculus of polynomials, rational functions, exponentials and logarithms. Emphasis is placed on the use of calculus in the study of rate of change, determination of extrema and area under the curve. Not for Science majors.
Prerequisite: MATH-100 or MATH-101 or MATH-102

MATH-111 (Formerly L141) **4-0-4**
Calculus I
Functions, slope and rate of change, limits, derivations of algebraic functions, mazima and minima applications, indefinite integration, integration by substitution, sigma notation, area between two curves. Knowledge of algebra, geometry and trigonometric functions is assumed.

MATH-112 (Formerly L142) **4-0-4**
Calculus II
Differentiation and integration of transcendental functions. Theory and methods of integration and applications. Infinite series, convergent tests, Maclaurin and Taylor series. Convergence of Taylor series.
Prerequisite: MATH-111

MATH-213 (Formerly M113) **4-0-4**
Calculus III
Study of analytic geometry in 3D-space; algebra of vectors, differentiation and integration of vectors; partial differentiation, multiple integrals; infinite series.
Prerequisite: MATH-112

MATH-214 (Formerly M121) **3-0-3**
Linear Algebra
Theory and solution techniques for systems of linear equations; vectors, matrices, determinants; eigenvalues and eigenvectors; vector spaces; linear transformations.
Prerequisite: MATH-112

MATH-225 (Formerly M122) **3-0-3**
Differential Equations
First-order equations; constant-coefficient, nth-order homogeneous and non-homogeneous equations; special non-linear equations; elementary applications; power series solutions. May also include elementary numerical techniques for solutions of ordinary differential equations and other computer topics.
Prerequisite: MATH-213

MATH-316 (Formerly M125) **3-0-3**
Partial Differential Equations
How modeling physical phenomena leads to partial differential equations; the heat conduction, wave propagation and potential equations; classification of linear second-order equations; boundary-value problems; Fourier series; separation of variables and special functions.
Prerequisite: MATH-225

MATH-317 (Formerly M171) **3-0-3**
Real Variables
Study of topics related to functions of a real variable, including measure and integration; differentiation; abstract spaces; general measure and integration theory.
Prerequisite: MATH-225

MATH-318 (Formerly M173) **3-0-3**
Complex Variables
Study of analytical functions; Cauchy-Riemann equations; power series; infinite series; calculus of residues; contour integration; conformal mapping.
Prerequisite: MATH-225

MATH-321 (Formerly M141) **3-0-3**
Probability and Statistics
Fundamentals of probability, discrete and continuous random variables, probability distributions, hypothesis testing.
Prerequisite: MATH-112

MATH-323 (Formerly M143) **3-0-3**
Mathematical Statistics
This course is designed to give the student some of the background needed to pursue more advanced courses that use statistical techniques. The content of the course will include topics from probability theory that are necessary for an understanding of the mathematical foundations of statistics. These topics will include: probability distributions, likelihood functions, properties of expectation operators, moment-generating functions, the central-limit theorem, confidence intervals and hypothesis testing. The student will be expected to be familiar with the topics of calculus through multiple integrals.
Prerequisite: MATH-321

MATH-326 (Formerly M163) **3-0-3**
Modern Algebra
Study of sets and mappings; group, ring and field theory; homomorphisms and isomorphisms; Lagrange's theorem; abelian and cyclic groups; symmetric groups; polynomial rings.
Prerequisite: MATH-214

MATH-331 (Formerly M131) **3-0-3**
Mathematical Methods in Chemistry, Physics and Engineering
This is an advanced course covering topics chosen from the following: matrix algebra, Fourier series, Sturm-Liouville systems, boundary-value problems for ordinary differential equations, Laplace's equation, introduction to Bessel's equation and Bessel functions.
Prerequisite: MATH-225

MENGR-301 **3-2-3**
Machine Design
Kinematics and dynamics of machinery, including analytical kinematics, force analysis, cam design and balancing. Application of elementary mechanics of solids to analyze and size machine components for stress and deflection. Introduction to finite element analysis with emphasis on beam and plate models.
Prerequisite: ENGR-218

MENGR-325 **3-0-3**
Engineering Vibrations
Vibrations will be a thorough treatment of vibration theory and its engineering applications, from simple degree to multi degree-of-freedom system. Topicswill include harmonic excitation, forced responses, multiple degree-of-freedom systems, design for vibration suppression, distributed parameter systems, vibration testing and experimental modal analysis, and finite element method.
Prerequisites: ENGR-218

MENGR-407 **3-0-3**
Thermodynamics and Heat Transfer I
Considers fundamental laws governing the transformation of heat into mechanical energy. Properties of gases and vapors and the processes between states are explored as are applications of the first and second laws of thermodynamics. A study of the transfer of heat by conduction, convection, and radiation in steady and unsteady flow is also conducted.
Prerequisite: MATH-112, PHYS-201, PHYS-201L

MENGR-427 **3-0-3**
System Dynamics and Controls
Modeling of physical systems including electromechanical systems. Reduction of block diagrams. Signal flow graphs and Mason's gain formula. Response of second order systems: natural frequency and damping ratio and how they relate to risk-time, peak-time, settling-time, and overshoot. Stability and the Routh-Hurwitz criterion. Steady-state error and sensitivity. Root locus. Design of cascade compensators using root locus and frequency response.
Prerequisite: IENGR-311, ENGR-218

MENGR-428 **3-0-3**
Thermodynamics and Heat Transfer II
Energy analysis; vapor and gas power cycles; vapor and gas refrigeration cycles; thermodynamic properties of mixtures and solutions; psychrometry and air-conditioning; reacting mixtures and combustion.
Prerequisite: MENGR 407

MGMT-301 (Formerly B123) **3-0-3**
Principles of Management
Effective management is fundamental for the successful operation of all types of enterprises. The course will present the principles, techniques and concepts needed for managerial analysis and decision making. Functions highlighted include planning, organizing, staffing and controlling.

MGMT-305 (Formerly B148) **3-0-3**
Apparel/Textile Brand Management
Brand building is an essential strategy for all successful companies in the apparel supply chain. Classroom instruction will focus on the techniques of brand growth. Case studies will be used as the foundation for a research project.
Prerequisite: MKTG-102
First offered Spring 2006

MGMT-307 (Formerly B168) **3-0-3**
International Management
Introduces students to the special aspects of managing a company in the global environment. Issues involved in understanding and applying the international and cross-cultural dimensions of the traditional management functions, such as organization, control, motivation, human resources and labor relations; and organization theory are studied. Lectures, readings, exercises and cases will be used.
Prerequisite: MGMT-301

MGMT-309 (Formerly B135) **3-0-3**
Systems Analysis
This course introduces the structured approach to design of new applications software, software systems, networks, and/or World Wide Web installations. It deals with the usual life cycle for such operations. Analysis includes approaches to specifying input and output, file structures, trade-off techniques, implementation, documentation and testing. Other approaches such as rapid application development and object-oriented analysis are discussed.
Prerequisite: MIS-202

MGMT-310 (Formerly B160) **3-0-3**
Organizational Behavior
The course includes an in-depth exploration of topics such as communication, group dynamics, group roles, team building, power and politics, leadership, and negotiation and conflict resolution. In addition, issues of organizational culture and diversity are examined. Through readings, discussions, class activities and projects, students learn how to be effective organizational communicators, team members and leaders. Students also gain an understanding of culture and diversity issues, and how to effectively manage them.
Prerequisites: MGMT-301, junior status

MGMT-311 (Formerly B176) **3-0-3**
Colloquium in Management
Consideration of selected relevant issues in management and society that are of serious interest to students and faculty, such as technology of the future, impact of data banks, management and public policy, planning systems, education and human resources.
Prerequisites: senior status, faculty recommendation and 3.5 or better G.P.A.

MGMT-315 (Formerly B165) **3-0-3**
Organizational Politics and Negotiations
This is a course in organizational politics – power, influence, conflict and conflict management. It has two goals: first, to develop students' skills in recognizing politics and conflict situations; and second, to teach students to use negotiating to achieve personal organizational goals. Through readings, discussion and role-plays, a wide range of conflict and negotiating contexts will be considered. These include situations in interpersonal, interorganizational and union-management relationships.
Prerequisites: MGMT-301, junior status

MGMT-316 (Formerly B184) **3-0-3**
Health Services Management
An analysis of the managerial process as it relates to the planning, organizing, staffing, directing and controlling of health care services. The techniques of effective decision making and problem solving are addressed. A systems orientation, as it applies to the health care services organization, forms the theoretical basis of the course. Only available in the evening.
Note: For students in the B.S. for Health Services Management program. This course replaces MGMT-301 Principles of Management as a prerequisite for subsequent courses.

MGMT-320 (Formerly B162) **3-0-3**
Human Resource Management
This course surveys the roles, policies and procedures of human resource management (HRM) in organizations today. Students learn the steps to staff and motivate a workforce, and appreciate the role of quantitative and qualitative decision making in HRM. Course materials deal with environmental impacts on HRM, equal employment opportunity, human resource planning, selection, performance evaluation, wage and salary administration, training and other relevant topics.
Prerequisites: MGMT-301, junior status

MGMT-326 (Formerly B144) **3-0-3**
Total Quality Management Solving Methods
The principles of Total Quality Management (TQM) are becoming the standards of practice for businesses. This course explores the history of TQM and the principles of Deming and the other major contributors to current TQM practices. How businesses use TQM principles to improve processes, products and services, involve all employees and gain a

competitive edge will be studied. The application of TQM to a variety of industries will be explored.
Prerequisites: MATH-321 or STAT-201; MGMT-301; MKTG-102; pre- or coregistration in MATH-321 or STAT-201

MGMT-327 (Formerly B187) 3-0-3
Emerging Issues in Health Care
The purpose of this course is to explore the current trends in health care and issues affecting the organizational changes in the industry with regard to delivery of health care services in a wide variety of settings. Topics will include history of U.S. health care, current reform proposals, universal health care insurance, ethical issues, gerontological issues, labor relations and the changing workforce in health care and comparative perspectives of health care delivery in other countries. Only available in the evening.
Prerequisites: MGMT-301 or MGMT-316, junior status

MGMT-331 (Formerly B147) 3-0-3
Compensation and Benefits
This course is designed to provide participants with an understanding of the concepts, components and activities related to designing, implementing and administering a compensation and benefits program. The compensation policies of internal consistency, external competitiveness, employee contribution and plan administration will be examined in detail. Techniques explored are job analysis, job description, job evaluation, market surveying, pay policy-line derivation, incentive programs, planning and budgetary controls. Only available in the evening.
Prerequisite: MGMT-301

MGMT-381 (Formerly B199) 0-0-3
Independent Study in Management
Intensive independent study of a chosen subject. The student is expected to read a substantial number of major works in the field and to prepare a critical documented paper. See also the statement on Independent Study under "Academic Policies."
Prerequisites: permission of the faculty member and the dean of the School of Business Administration

MGMT-401 (Formerly B141) 3-0-3
Operations Management
A comprehensive survey of production and service operations management, topics and functions. Topics include methods and work measurement, materials management, plant location and layout, production planning and control, maintenance, quality control, "Total Quality," Japanese management styles, "Systems Approach;" and decision tools such as PERT, linear programming, queuing theory, sampling and simulation. Service-delivery applications and activities are also highlighted.
Prerequisites: INFO-101, MGMT-301 and MATH-103 or MATH-111; pre- or corequisite: STAT-202 or MATH-321

MGMT-405 (Formerly B149) 3-2-4
Apparel/Textile Supply Chain Management
This course will bring into sharp focus the global relationship that exists between all of the elements of the textile-apparel-retail supply chain. Areas covered: traditional management functions of control over timeliness of production, and quality and labor relations in the global marketplace.
First offered Spring 2007
Prerequisite: FASHMGT-401

MGMT-411 (Formerly B170) 3-0-3
Entrepreneurship Seminar
The student assumes the role of the initiator and manager of a firm. Emphasis is on the required planning prior to the inception of operations and entrepreneurial problems in achieving cash-flow equilibrium. Each student is required to prepare a formal business plan. Interdisciplinary concepts are studied. May be used as a management elective.
Prerequisites: MGMT-301, MKTG-102, senior status

MGMT-412 (Formerly B172) 3-0-3
Management Seminar
This course is designed for senior management majors, and integrates and extends concepts learned in other upper-level management courses. The dynamic nature of management is emphasized through reading, analyzing and discussing recent literature in terms of the current business environment. Students examine topics including 21st-century career management; the role of education and technology in organizations; and future trends in management and organizations. The course includes individual and group readings, cases, and research projects that are presented as written and oral assignments.
Prerequisites: senior status, pre- or corequisite: MIS-202

MGMT-413 (Formerly B186) 3-0-3
Health Services Management Seminar
This course will examine advanced topics in health-services management. An atmosphere for shared learning is promoted by individual and group research in substantive areas relevant to the health-services industry. Only available in the evening.
Prerequisites: MGMT-428, MGMT-316

MGMT-416 (Formerly B145) 3-0-3
Training and Development
A course designed to provide students interested in the field of human resources with the knowledge and skills necessary to understand the processes of learning, training and development, and their applications in business and industry. Students will learn adult-learning theories, identification of training and program needs, and program design and evaluation. The course includes participative lectures and discussion, media techniques, case studies, role-play, team-building/group activities, games and simulations and instruction methodology. Only available in the evening.
Prerequisite: MGMT-320

MGMT-418 (Formerly B161) 3-0-3
Industrial Relations
This course investigates union-management relations in both private and public sectors. Students develop an understanding of the industrial-relations systems in the United States, including past and current changes, union and management

responses to changes and the future of union-management relations. Students learn to appreciate bargaining, and increase their negotiating skills through discussing and applying collective-bargaining and other dispute-resolution techniques in a negotiation simulation.
Prerequisites: MGMT-301, junior status

MGMT-419 (Formerly B179) 3-0-3
Diversity Management
This course focuses on managing a diverse workforce and how organizations can change systems, structures and practices to eliminate barriers that keep diverse workforces and organizations from reaching full potential. The course examines research and practice in diversity management on topics including interpersonal skills, training, evaluation, managerial practices, recruiting, retention, benefits and compensation. May not be taken if student completed this course as a special topics course, MGMT-311.
Prerequisite: MGMT-301

MGMT-428 (Formerly B183) 3-0-3
Health Services Delivery System
This course will provide an overview of the history, evolution and major components of U.S. health care systems. Systems theory will form the basis for this course. Topics covered will include the organization of health care services, the hospital, the physician, supply and demand in health care, third-party payers, the role of government, managed care and comparisons of health care systems in other countries. Only available in the evening.

MGMT-490 (Formerly B171) 3-0-3
Business Policy and Strategy
(writing intensive)
The process and techniques of strategy formulation, implementation and evaluation are studied and applied. Case studies of domestic and international companies and not-for-profit organizations are used to integrate strategic management concepts with knowledge acquired in other functional area courses. Includes extensive written individual and team assignments and oral presentations. Students taking this course cannot take MGMT-491 for credit.
Prerequisites: senior status, INFO-101, MGMT-301, MKTG-102, FINC-301

MGMT-491 (Formerly B180) 3-0-3
Textile, Retail and Apparel Business Policy and Strategy
(writing intensive)
The process and techniques of strategy formulation, implementation and evaluation are studied and applied as they pertain to the textile, apparel and retail industries. Case studies of domestic and international companies are used to integrate strategic-management concepts with knowledge acquired in other functional area courses. Includes extensive written individual and team assignments and oral presentations. Students taking this course cannot take MGMT-490 for credit.
Prerequisites: senior status, MGMT-301, MKTG-102, FINC-301, TEXT-101, FASHMGT-101

MIS-202 (Formerly IS16) 3-0-3
Management Information Systems
This course is designed for future managerial end users of e-business information systems who will both use and manage information technology (IT). The course addresses the strategic, tactical and operational uses of IT in business for problem solving. Frequent computer assignments will complement the topics discussed in class as the student develops more sophisticated skills in databases design, implementing queries and reports, exporting data to spreadsheets and using spreadsheets and graphics to model businesses for decision making.
Prerequisite: INFO-101

MIS-207 (Formerly IS12) 3-0-3
Programming for Problem Solving
This course introduces an appropriate high-level programming language or languages and explores computer solutions to business-related problems. The course will include techniques of problem definition, planning, writing well-structured programs, testing and debugging and documentation. Extensive practice will be gained in writing programs on the University's computing equipment.
Prerequisite: MIS-301

MIS-301 (Formerly IS10) 3-0-3
Survey of Programming Languages
This course will provide an overview of the basic structures and methodologies for the major functional and object-oriented programming languages. The course will discuss the different syntaxes of the language as well as their similarities. Languages will include C, C++, Visual Basic, Java and a review of the basic Internet languages.

MIS-302 (Formerly IS74) (Also listed as ENGR-217) 3-0-3
Information Systems Design
The course deals with analysis and design of computer-based information systems. This includes definition of databases, measures of effectiveness and management-staff interfaces. This begins with analysis of the situation and its particular needs before attempting a solution. Depending on the size and background of class members, students may form groups to develop projects of their own choosing or review case studies from engineering or manufacturing or service environments for analysis and design.
Prerequisites: MATH-103 or a more advanced math course

MIS-304 (Formerly IS73) 3-0-3
Foundations of Artificial Intelligence
Overview of the computational and knowledge engineering issues and techniques used in artificial intelligence, leading to the development of expert and fuzzy systems, including representations of knowledge, search strategies for production systems, rule-based deductions, heuristic programming, paradigms for synthesis and analysis of class systems, exact and inexact reasoning models, implementation examples from machine learning and natural language processing.
Prerequisite: MIS-405

MIS-305 (Formerly IS11) **3-0-3**
Database Analysis, Design and Management
This course will examine the design and use of databases. Most of the work will be done using relational-database management systems. Topics include database analysis and design using Entity Relationship modeling tools, design of well-structured relations (tables) and implementation of appropriate applications. Other models, such as object-oriented databases, will be introduced. In addition, the ethical collection, use and management of data, as well as security issues, will be addressed. Problems in actual database implementation will be assigned using the University's computer facilities.
Prerequisite: MIS-207 or MIS-202

MIS-312 (Formerly IS21) **3-0-3**
Ethical and Social Issues of Computing
This course provides an understanding of the ethical and societal issues associated with the computing field. Students will learn the responsibilities of a computer professional, the basic elements of ethical and social analysis and the basic skills for doing ethical and social analysis, with application to computing issues.

MIS-323 (Formerly IS83) **3-0-3**
Operating Systems
Study of operating system concepts common to various classes of computers, including file systems, CPU scheduling, memory management, virtual memory, disk scheduling, deadlocks, concurrent processes and programming, protection and security and distributed systems. Exploration of various aspects of specific systems (e.g., UNIX, VMS, MS-DOS, Windows).
Prerequisite: MIS-405 or permission of the instructor

MIS-371 (Formerly IS91) **3-0-3**
Special Topics
This course provides an in-depth treatment of recent advances in subjects of current interest in the field of computer science. The special topics in a given semester will be announced before registration. Programming projects in a language selected by the instructor. Oral and/or written reports are required.
Prerequisite: junior status

MIS-381 (Formerly IS98) **0-0-3**
Independent Study in Information Systems
This course allows students to pursue topics not covered in the regular program. The student will either: (1) study in some detail a topic of their choice (subject to faculty approval); or, (2) write a substantial documentation. (The University retains the rights of use.) The faculty supervisor will test the student on the material. An oral presentation of the results of the study will be required. This course cannot be taken to replace a required course. For further details, see "Independent Study" in the "Academic Policies" section.

MIS-401 (Formerly IS13) **3-0-3**
Computer Networking
This course offers students an in-depth study of computer networks and their role in the information technology infrastructure of an enterprise. Topics will include logical and physical organizations of computer networks, hardware and software, the ISO model, communications protocols especially TCP/IP. Students will study LANs, MANs, BNs and WANs. Network design, management, performance, control, encryption and security will be discussed. The University's computer equipment will be used for hands-on, network-management assignments.
Prerequisite: junior status or permission of the instructor

MIS-404 (Formerly IS15) **3-0-3**
Data Analysis for Decision Making
This course continues the development of students' skills in data analysis and modeling. Emphasis will be on data warehousing and data mining. Topics will also include non-relational databases and management systems. Emphasis will be on effectiveness and uses of data analysis for management decisions.
Prerequisites: MIS-301, MIS-305

MIS-405 (Formerly IS52) **3-0-3**
Programming In C
This course introduces fundamental principles of computer science as applied to problem solving. Main topics include problem specification and decomposition, design of algorithms, evolution of computers and computing, data and procedural abstractions, fundamental instructions, control mechanisms and modular programming. Programming projects in C.
Prerequisite: MIS-301 or permission of the instructor

MIS-406 (Formerly IS53) **3-0-3**
Programming in C++
This course is the continuation of MIS-422 and introduces more advanced problem-solving techniques through the use of object-oriented techniques such as information hiding and code reuse, classes and data abstractions, single/multiple inheritance, operator/function overloading and polymorphism. More specifics include pointers, stacks, queues, linked lists, binary trees, linear/binary search techniques, recursion and sorting. Programming projects in C++.
Prerequisite: MIS-405

MIS-407 (Formerly IS14) **3-0-3**
Project Engineering
The course provides a practical introduction to design and implementation of large- and small-scale projects. It will include a survey of current project procedural paradigms. When feasible, students will work in groups to develop a tangible product in an area of interest not previously defined. Such projects may involve software, industrial design, textile product development or other. Student groups will be expected to follow formal, project-management guidelines including creation and assignment of tasks, budgeting, critical-path analysis, reports, et al. Software support for projects will be utilized.
Prerequisite: MATH-103

MIS-411 (Formerly IS23) 3-0-3
Discrete Structures
Review of set algebra; study of mathematical reasoning; Boolean algebra and logic circuits; combinatorics; discrete probability; graphs; trees; recurrence relations; dynamical systems.
Prerequisite: MIS-301

MIS-413 (Formerly IS31) 3-0-3
Algorithms and Data Structures
Study of advanced programming techniques and data representations, including recursion, stacks and queues; packaging data abstraction; advanced searching and sorting; files; binary search trees; analysis of algorithms and computational complexity; advanced data structures. Programming assignments will be submitted.
Prerequisite: MIS-301

MIS-422 (Formerly IS51) 3-0-3
Applied Software Development
This is a second-level programming course offering students experience in planning, developing and testing short software projects. This course will be a continuation of MIS-207. Class periods will involve development methodology, software approaches and a structured walk-through for each project, as well as provide time for students to report on progress and discuss project approaches and problems. Computer languages and "script" currently undergo rapid development and change necessitating equivalent evolution of this course.
Prerequisite: MIS-207

MIS-425 (Formerly IS85) 3-0-3
Web Construction and E-Commerce Applications
This course will focus on the use of new and emerging technologies to create web-based designs and programs to support business and e-commerce applications. The course will require the completion of several program assignments and projects.
Prerequisite: MIS-301

MKTG-102 (Formerly B221) 3-0-3
Principles of Marketing
A basic course in which the main functions, institutions and concepts of marketing are studied. Attention is focused on providing an analytical and corporate framework for studying and understanding the marketing system within changing environmental forces.

MKTG-115 (Formerly B235) 3-0-3
Fashion Merchandising
A survey course that provides knowledge of the industries and services that comprise the fashion business. Interrelationships of the men's, women's and children's industries are developed. An interdisciplinary approach to the fashion business as it relates to cultural, historical and economic features is a central theme.

MKTG-207 (Formerly B231) 3-0-3
Consumer Behavior
This course provides comprehensive understanding of the many dimensions of consumer behavior and the contributions of behavioral science to this discipline. The focus will be on understanding consumer needs.
Prerequisite: MKTG-102

MKTG-217 (Formerly B241) 3-0-3
Retailing Strategy and Structure
A comprehensive understanding of retail strategy in the dynamic retailing environment. Special attention is given to retailing structure since it underlies the strategic decision making of retailing management.
Prerequisite: MKTG-102

MKTG-302 (Formerly B237)
Product Development and Innovation
This course is designed to expose students to the concept of innovation and an understanding of the process of product/service development and innovative marketing. Students learn how a product is conceptualized and ultimately commercialized. They will understand the factors that play a central role in the process.

MKTG-310 (Formerly B240) 3-0-3
Marketing Communications
This course examines the vital role of marketing communications in the development of marketing strategy. Integrated marketing communications (IMC) is emphasized as students explore the use of advertising, personal selling, sales promotions, Internet marketing, database marketing, public relations, etc., to enhance brand equity. The strategy and planning involved in the development of integrated campaigns is emphasized.
Prerequisite: MKTG-207

MKTG-315 (Formerly B233) 3-0-3
Marketing in an Electronic Environment
This course investigates the ways in which new technologies are changing the field of marketing. Major topics include Internet advertising, database marketing, sales-force automation and customer relationship-management software tools. Other topics include the impact of new technologies on distribution strategies, online pricing models, mass-customization strategies, data mining and media implications.
Prerequisite: MKTG-102

MKTG-318 (Formerly B243) 3-0-3
Sales Management
Sales management is the planning, direction and control of the selling activities of a business. Topics include recruiting, selecting, training, equipping, assigning, routing, supervising, compensating and motivating the sales force. This course focuses on business-to-business marketing.
Prerequisite: MKTG-102

MKTG-324 (Formerly B244) 3-0-3
International Marketing
An investigation of the marketing concept in a global environment. Marketing practices through which various businesse

adapt to the international environment are studied. Attention is also given to comparative marketing systems, and planning and organizing for export-import operations.
Prerequisite: MKTG-102

MKTG-328 (Formerly B251) **3-0-3**
Merchandise Buying/Operations
The course provides the student with the understanding of the interdependence of the merchandising and operations functions. Students have a comprehensive understanding of the retail business from gross sales to net profit. To achieve this understanding, students are required to prepare a merchandising/operations plan that integrates all of the elements of doing business in the retail environment.
Prerequisites: INFO-101, MKTG-217

MKTG-381 (Formerly B299) **0-0-3**
Independent Study in Marketing
Intensive independent study of a chosen subject. The student is expected to read a substantial number of major works in the field and to prepare a critical, documented paper. See the statement on Independent Study under "Academic Policies."
Prerequisites: permission of the faculty member and the dean of the School of Business Administration

MKTG-391 (Formerly B261) **3-0-3**
Marketing Research
Exposure to marketing-research techniques and procedures used in gathering, recording, analyzing and reporting of data related to marketing problems.
Prerequisites: MKTG-102, MKTG-207 and pre- or corequisite STAT-202

MKTG-408 (Formerly B303) **3-0-3**
Survey of E-Commerce
This is an introductory course in which the size, scope and impact of e-commerce is explored. This course includes discussions about how technology impacts business processes and transactions. A significant part of the course will discuss the e-business technology platform. Additional topics include business-to-business market exchanges, online auctions, electronic-payment systems, market valuation of e-commerce firms, and government policies and issues concerning e-commerce such as privacy, regulations and ethics.

MKTG-412 (Formerly B262) **3-0-3**
Marketing Strategy Seminar
Skills will be developed for making better decisions by learning to integrate various topics of marketing. The importance and know-how of anticipating, recognizing and adapting to external forces on the decision-making process and organization will be discussed. Emphasis will be placed on incorporating the most recent literature, which is of theoretical and practical importance, in the decision-making process. The course is built around readings, marketing cases, research papers and problem sets. A comprehensive marketing plan will be developed.
Prerequisites: senior status; pre- or corequisites: MKTG-207, MKTG-310, MKTG-391

MKTG-413 (Formerly B333) **2-2-3**
E-Site Design
E-site Design is an introductory web design course. Students explore fundamental concepts of web site design and learn how to develop, post and maintain a web site using popular software. Emphasis is on mastering basic web site design and management skills for business applications that exceed a rudimentary knowledge of the techniques offered by application software packages. The student will engage in hands-on computer experience in the computer labs.
Note: for Graphic Design or Digital Design majors.
Prerequisite: permission of the director of Graphic Design Communication.

Physician Assistant Studies

Note: All of the below listed PAS courses, with the exception of PAS-100, PAS-230, PAS-320, PAS-330 and PAS-400, are restricted to students matriculated in the Physician Assistant Studies Program.

PAS-100 **1-0-1**
Topics in Professionalism: PA
This lecture and seminar course will familiarize the student with the concept, history, education, certification, legislation and role of the physician assistant profession. The structure of the U.S. healthcare system, along with ethical and current controversial issues related to that system, will also be discussed.

PAS-230 **1-1-2**
Clinical Interactions
This lecture and seminar course is designed to expose students in the Physician Assistant Studies program to the basic principles of human interaction in the clinical setting. This course also includes limited patient contact experiences in healthcare facilities.

PAS-320 **0-6-3**
Clinical Interactions II
This experiential, independent-study course includes an extended community-service volunteer experience in a health care setting. Students are required to complete and submit activity logs and a final paper.
Prerequisite: PAS-230

PAS-330 **3-0-3**
Medical Terminology and Documentation
This course is designed for students in undergraduate health science programs and focuses on the structure and use of medical language and common documentation formats. It also includes an introduction to medical informatics. Clinical cases are utilized to illustrate the use of medical terminology in the health care setting. This course provides a more in-depth examination of this subject than PAS-400.

PAS-400 **1-0-1**
Medical Terminology
This competency-based course covers the structure, definition and utilization of basic medical terminology for students

entering the health professions. The course is designed for students with some health care experience. Independent reading, workbook exercises, case studies and interactive computer software are the learning modalities used in this experience.

PAS-407/PASF-507 GR **3-4-5**
Advanced Anatomy
This lecture and laboratory course will review basic histology along with the major anatomical structures of the human using a regional organization. Laboratory sessions utilizing microscopic examination, models and cadaver specimen dissection will augment lecture material.
Prerequisite: BIOL-202 and BIOL-202L

PAS-410/PASF-510 GR **2-0-2**
Medical and Professional Ethics
Understanding the philosophical principles related to biomedical ethics, patient-practitioner relationships and the role of the physician assistant provider within the health care system are the main topics encompassed in this lecture and discussion seminar course.

PAS-411/PASF-511 GR **3-0-3**
Applied Behavioral Science
The topics of developmental psychology, abnormal psychology, human sexuality, stress responses, behaviors related to psychological health and illness and the diagnosis and management of common psychological disorders are the focus of this lecture course.

PAS-413/PASF-513 GR **3-0-3**
Medical Physiology and Pathophysiology
This lecture course is designed to teach the principles of human medical physiology along with the physiological mechanisms of common disease states.
Prerequisites: BIOL-202 and BIOL-202L, BIOL-221 and BIOL-221L

PAS-417/PASF-517 GR **4-2-5**
Medical History and Physical Diagnosis
This lecture and practical laboratory course will introduce the physician assistant student to the techniques for eliciting a medical history and performing a complete physical examination on humans. The interpretation of history and physical examination findings as applicable to physiological and disease states will also be discussed. Laboratory sessions, hospital experiences and writing assignments will enhance the learning experience.

PAS-421/PASF-521 GR **2-0-2**
Medical Genetics and Microbiology
This lecture course presents current concepts and issues in medical genetics, immunology and microbiology. It focuses on diseases of genetic origin, the function of the immune system and emerging trends in disorders caused by microorganisms.
Prerequisite: BIOL-221 and BIOL-221L

PE-00 **0-1-.5**
Varsity Athlete
Students who have participated on one of the University's 12 intercollegiate sports teams for one season will satisfy the requirement for this course. Students must register for this course in the semester they expect to receive the course credit. Students may register for this course two times.

PE-02 **0-1-.5**
Intermural Athletics
To earn credit, students must participate in 15 or more hours of intramural sports. These hours do not have to be played in the same term and the accumulated hours of play do not have to be in the same sport. The intramural sports that are included are football, outdoor soccer, volleyball, basketball, softball and swimming.
Prerequisite: Students must have earned more than 30 credits before enrolling in this course.

PE-03 **0-1-.5**
Introduction to Dance
The emphasis in this course is on the fundamentals of movement and rhythm. Beginning modern dance techniques, folk dancing and basic social dance steps will be covered.

PE-04 **0-1-.5**
Women's Health and Fitness
Each woman develops and performs an exercise program suitable to her individual needs. Emphasis is placed on theoretical, as well as the practical aspects of resistance exercise, and how it applies in the area of lifetime sports.

PE-08 **0-1-.5**
Karate
The course focuses on the conditioning and skill aspects of karate as an art form and as a method of self-defense.

PE-10 **0-1-.5**
Golf
An introduction to golf. Emphasis is on the selection and care of equipment, theoretical considerations relative to the game and instruction in fundamentals.

PE-11 **0-1-.5**
Beginners' Tennis
This course includes discussions of the rules, etiquette and technique involved in playing tennis. Special emphasis is placed on groundstrokes and basics.

PE-12 **0-1-.5**
Intermediate Tennis
The course includes discussion of the rules, etiquette, technique and strategy involved in playing tennis singles and doubles. Skill instruction and an opportunity for playing experience are provided.

PE-14 **0-1-.5**
Volleyball
Rules, strategy and the skills involved in volleyball are discussed, analyzed, drilled and then practiced in game situations.

PE-23 **0-1-.5**
Yoga I
Course is designed to introduce students to the theory and practice of Hatha Yoga, which combines physical exercise, breathing techniques and relaxation in a unique method.

PE-24 **0-1-.5**
Yoga II
A continuation of Yoga I. It is designed to help students study their own body movements systematically. Though more advanced postures will be taught, the main emphasis will be on refinement and integration of techniques.

PE-25 **0-1-.5**
Stress Management
This course offers practical theory and techniques for overcoming stress and effectively channeling one's energy. The program provides comprehensive training in self-mastery methods that help create healthful and successful living patterns. In this systematic framework, participants will learn how to detect, relieve and transform stressful feelings, while harnessing higher potentials.

PE-26 **0-1-.5**
Aerobics
This course is an aerobic exercise program choreographed to music and designed to condition the heart and lungs, to improve physical appearance and generate a state of well-being. The conditioning goals are met naturally and automatically as you progress through the program.

PE-28 **0-1-.5**
First Aid
A course designed to qualify the student in the principles of injury prevention and care for emergency situations.

PE-30 **0-1-.5**
Cardio-Pulmonary Resuscitation (CPR)
A course designed to qualify students in American Red Cross CPR certification. The student will be able to recognize and react to a life-threatening situation.

PE-32 **0-1-.5**
Body Sculpting
An opportunity for individuals to work within a group to tone and shape themselves with thought to individual preference.

PHOTO-111 (Formerly H323) **2-3-3**
Introduction to Photography
This course is designed to stimulate visual awareness by encouraging students to use the camera as a tool for recording information as they examine their surrounding environment. Students will explore the mechanics of the camera and its function in order to produce photographic prints by learning darkroom procedures, then analyzing choices for pictorial presentation. Photography as documentation, record keeping, social commentary and creative expression will also be analyzed and studied through the works of photojournalists, fashion photographers, advertising designers and family snapshots. May not be taken for College Studies credit.

PHOTO-301 (Formerly G622) **1-5-3**
Studio Photography
This course is an introduction to studio photography and large-format cameras. Emphasis is placed on the use of lighting, props and setting as factors in the photography of objects for commercial, fashion, advertising and product design and documentation.
Prerequisite: GRAPH-204 or permission of the director of the Graphic Design Communication program

PHOTO-381 (Formerly G993) **0-0-3**
Independent Study in Photography
For further details, see general description of Independent Study in "Academic Policies" section.
Prerequisites: PHOTO-301, GRAPH-310 and permission of the instructor

PHYS-101 (Formerly L313) **3-2-3**
General Physics
(for non-science majors)
The basic laws of mechanics and thermodynamics are covered. The emphasis will be on understanding the major laws of physics and the way they manifest themselves in practical applications and in laboratory experiments. The areas of importance for architecture and interior design, such as sound and illumination, are discussed.
Prerequisites: MATH-100 or MATH-101 or MATH-102 or MATH-103 or MATH-111

PHYS-201 (Formerly L325) **3-0-3**
Physics I: Mechanics and Heat
(required for science and Engineering majors)
A calculus-based course emphasizing Newton's three laws of motion and the conservation laws of energy, linear momentum and angular momentum as first integrals of the dynamics. Additional topics in mechanics include stress and strain, simple harmonic motion and hydrostatics. Absolute temperature scales, thermal expansion, specific heats, methods of transfer of heat energy, ideal gases and real gases are considered before studying the first and second laws of thermodynamics, with the concept of entropy emphasized in the latter.
Prerequisite or corequisite: MATH-112
Corequisite: PHYS-201L

PHYS-201L (Formerly L325) **0-3-1**
Physics I: Mechanics and Heat Laboratory
In this one-credit laboratory course students perform, analyze and submit lab reports based on experiments which test the theories developed in mechanics and heat and they take quizzes based both on the lab instructions and material from the lectures.
Prerequisite: PHYS-201
Prerequisite or corequisite: MATH-112

PHYS-203 (Formerly S116) **3-0-3**
Physics II: Waves, Electricity and Magnetism, Light
The mathematical representation of traveling sinusoidal waves and standing-wave patterns is emphasized. Applications are made to sound waves. Electrostatics include

Gauss's law, electric potentials and the potential gradient equation. The field concepts are used to interpret elementary D.C. circuits including Kirchhoff's Rules. Capacitors as circuit elements and dielectrics are also studied. The effects of the magnetic field, its sources, induced EMFs and magnetic materials are considered. Series AC circuits conclude electromagnetism. Geometric optics includes lenses, mirrors and optical instruments. Physical optics includes interference and polarization of light waves.
Prerequisites: PHYS-201 and PHYS-201L
Corequisite: PHYS-203L

PHYS-203L (Formerly S116) **0-3-1**
Physics II Laboratory: Waves, Electricity and Magnetism, Light
In this one-credit laboratory course students perform, analyze and submit lab reports based on experiments which test the theories developed in waves, electricity and magnetism, and light. They take quizzes based both on the lab instructions and material from the lectures.
Corequisite: PHYS-203
Prerequisites: PHYS-201 and PHYS-201L

PHYS-314 (Formerly S114) **3-0-3**
Elements of Quantum Mechanics
The experimental background of quantum mechanics is reviewed before its postulates are introduced, and the theory is used to solve one-dimensional examples including the harmonic oscillator, then — in three dimensions — the hydrogen atom, electron spin and atomic spectra. Applications to chemistry are stressed.
Prerequisites: MATH-225, PHYS-201

PRINT-101 (Formerly T938) **1-5-3**
Introduction to Print Design
This course introduces production of printed textiles by hand-screen and digital fabric printing methods. Students will learn the technical process of color separation, screen making and printing in both digital and conventional (hands-on) modes. Students will be encouraged to integrate their work from other design courses with their printed textile work in this class. Sketchbook study will be required to document design development and processes, ideas and drawings.
Prerequisites: ADFND-102, DSGNFND 203 or INDD-102, plus one of the following: ARCHDSN-208, DIGD-206, CAD-206, CAD-201 or CAD-204

PRINT-301 (Formerly T740) **1-5-3**
Printing I
This course introduces production of printed textiles by hand-screen and digital fabric printing methods. Students will learn a technical process of color separations, screen making and printing in both digital and conventional (hands-on) modes. Integration of digital and hands-on printing are encouraged toward the end of the course. The main focus is placed on aesthetics of color and styling in textile design on fabric. Sketchbook study will be required to document design processes, ideas and drawings.
Prerequisite: PRINT-303

PRINT-303 (Formerly T705) **1-5-3**
Print Design I
Techniques, materials, tools and basic information needed for the design on paper of printed fabrics for the apparel and home furnishing fields are studied. Hands on approaches with gouache and watercolor are used to prepare colorway and repeats. Students prepare a portfolio and learn to keep a sketchbook. A brief introduction to printing methods is included
Prerequisite: DRAW-303 Advanced Drawing: Materials & Techniques

PRINT-305 (Formerly T745) **2-2-3**
Textile Printing Technology
The theory and practice of all aspects of industrial printing techniques are presented in a lecture/demonstration/lab format. Cloth preparation and finishing, machinery, dyestuffs and various print styles are included. This course offers practical background knowledge to students with primary interest in textile design, styling, marketing, quality control and textile manufacturing.

PRINT-315 (Formerly T706) **1-5-3**
Print Design II
This course focuses on creative use of CAD in surface patterning, which integrates with hands-on design applications that students acquired in PRINT-303 Print Design I. Digital workflow, which includes scanning croquis, designing pattern on CAD, digital color matching and color ways will be introduced. At the same time, strong emphasis is placed on making croquis, which develop from drawings and paintings in the sketchbook. Students will create printed textile designs and patterns for Jacquard designs on paper with digital printers for apparel and home furnishing fields. Throughout the semester, sketchbook study will also be required to document the working process, as well as drawings and paintings.
Prerequisite: A grade of "C" or better in PRINT-303

PRINT-331 (Formerly T707) **1-5-3**
Print Design III
Advanced course to give students further necessary experience in developing and producing creative designs for special markets, end uses and fabrics. Market research is required before projects are begun.
Prerequisite: PRINT-315

PSYCH-101 (Formerly H801) **3-0-3**
Introduction to Psychology
Introduction to the methodology, concepts, principles and issues in the study of behavior. Topics to be covered include: the biological bases of behavior; sensory and perceptual processes; learning, memory and cognition; motivation and emotion; personality, psychopathology and psychological approaches to therapy; and social interactions. This course is a requirement for enrollment in all higher-level psychology courses.

PSYCH-103 (Formerly H881) **3-0-3**
Physiological Psychology
This course will expand upon the biological bases of behavior. An emphasis will be placed on the relationship between the brain and behavior. Topics will include synthesis of neurotransmitters, an introduction to drugs and behavior and neural substrates that underlie behaviors.
Prerequisite: PSYCH-101

PSYCH-201 (Formerly H823) **3-0-3**
Abnormal Psychology
Consideration of the various classifications and symptomatology of psychopathological disorders — their origin, assessment, prognosis, treatment and prevention.
Prerequisite: PSYCH-101

PSYCH-210 (Formerly H825) **3-0-3**
Forensic Psychology
An examination of the interplay between the disciplines of psychology and law. The course will examine the psychological and behavioral issues that impact on the legal and criminal-justice systems, and how law and justice affect human behavior. Topics to be covered include crime and criminal behavior, victims, law enforcement, trials, witnesses; mental illness and criminal justice, corrections, family law, crime intervention and prevention.
Prerequisite: PSYCH-101

PSYCH-211 (Formerly H861) **3-0-3**
Learning Theory
Study of the acquisition, activation, direction and retention of human and animal behavior. Topics to be covered include instincts, drive, conditioning and instrumental learning, human verbal learning and language learning and memory processes.
Prerequisite: PSYCH-101

PSYCH-212 (Formerly H862) **3-0-3**
Cognitive Psychology
Study of human thinking, memory, problem solving and the relationship between damage to the cortex and information processing. Empirical research and applied examples and demonstrations will be presented to address such topics as the content of memory, memory improvement, strategies and approaches for solving different kinds of problems, and pathologies and problems of thought.
Prerequisite: PSYCH-101

PSYCH-213 (Formerly H870) **3-0-3**
Developmental Psychology
Analysis of the process of human development and change throughout the lifespan. Research on both humans and animals will be presented to promote understanding of human physical, social, emotional and cognitive development. Topics include prenatal and postnatal development, issues and theories of human development, genetic influences and personality and issues related to the aging process.
Prerequisite: PSYCH-101

PSYCH-214 (Formerly H863) **3-0-3**
History and Systems in Psychology
The historical development of significant psychological concepts, theories and systems. The focus and far ranging content of this course serves to provide an overall synthesis of the major subfields of psychology.
Prerequisite: PSYCH-101

PSYCH-220 (Formerly H812) **3-0-3**
Clinical Psychology
This course will provide students with an opportunity to use current theories to address individuals with mental-health issues. Topics will include professional duties and skills of the clinical psychologist, treatment procedures and resources, and the diagnosis and management of common psychological disorders. Emphasis will be placed on humanistic and behavioral theories of etiology, treatment and the enhancement of psychological well-being.
Prerequisite: PSYCH-201

PSYCH-221 (Formerly H822) **3-0-3**
Personality Theory
A survey and comparative analysis of the major representative theories of personality, both traditional and contemporary. Special topics such as the effects of genetic predisposition, physical status and environmental factors on personality configurations will also be discussed.
Prerequisite: PSYCH-101

PSYCH-222 (Formerly H824) **3-0-3**
Counseling Psychology: Theories and Principles
An overview and general understanding of the field of counseling psychology. The course is designed to familiarize students with the basic concepts, interventions, scientific research, professional practices and contemporary issues of the profession of counseling psychology. Students will learn a variety of theoretical approaches and psychotherapy techniques to counseling, including psychoanalytic, behavioral, cognitive and humanistic approaches. The course contains both didactic and skill application to encourage competency in the performance of counseling skills.
Prerequisite: PSYCH-201

PSYCH-223 (Formerly H826) **3-0-3**
Marriage and Family
A survey of family systems and theories underlying marriage and family counseling. The course will explore the history of marriage, the choosing of a partner, parenting styles, and issues that create marital discord and divorce. Specific course objectives are to provide information about the therapeutic process and the practical elements of counseling interactions with families, to identify differences between individual- and system-oriented therapies, and to encourage the integration of theoretical and experiential learning.
Prerequisite: PSYCH-101

PSYCH-224 (Formerly H888) **3-0-3**
Psychology of Addiction
A survey of current psychological theories of the addiction process and treatment modalities based on each. Physiology

and neurobiology will be considered, but are not the primary focus of the course. Theoretical models include: the disease model, psychoanalytic formulations, conditioning theory, social-learning theory, family-systems theory and the opponent-process model. Sociocultural perspectives, including deviance theory, will also be discussed.
Prerequisite: PSYCH-101

PSYCH-230 (Formerly H831) **3-0-3**
Industrial Organizational Psychology
Study of the more recent methods in testing, interviewing and selection of workers. Training, motivation, performance appraisal, job satisfaction, morale, job analysis, decision making, leadership and organization theory are other topics discussed.
Prerequisite: PSYCH-101

PSYCH-231 (Formerly H832) **3-0-3**
Psychological Assessment
A methods course concerning the basic concepts and techniques of psychological assessment tools (tests) as they are used in the profession if psychology in employment, school, clinical and medical settings. Emphasis will be placed on understanding test design, or what goes into a test, as well as understanding test scores and profiles, or what comes of a test. Many specific tests will be highlighted throughout the course to help students appreciate psychological tests and become aware of their functions and limitations.
Prerequisite: PSYCH-101

PSYCH-232 (Formerly H851) **3-0-3**
Social Psychology
Study of the experimental analysis of the individual as subjected to the social influence of other individuals or social groups. Topics to be covered include persuasion, conformity, aggression, altruism, prejudice and interpersonal attraction and an analysis of the research methods used to study these behaviors.
Prerequisite: PSYCH-101

PSYCH-233 (Formerly H853) **3-0-3**
Interpersonal Relations and Small Group Dynamics
A course designed to provide a theoretical and experiential exposure to group formation, group process and group dynamics, as well as to interpersonal relationships within and between groups.
Prerequisite: PSYCH-101

PSYCH-240 (Formerly H880) **3-0-3**
Comparative Psychology
This course will provide a survey of the study of animal behavior as related to psychology. Students will become familiar with approaches, fundamental concepts and contemporary research findings of the field. Topics include patterns and development of behavior in animals, neural and hormonal influences, animal learning and cognition and the evolution of behavior.
Prerequisite: PSYCH-101

PSYCH-241 (Formerly H883) **3-0-3**
Psychopharmacology
Basic principles of drug action in the central nervous system. Topics will include effects of stimulants, depressants, intoxicants and drug abuse on behavioral function. The clinical use of drugs in the treatment of psychological and psychiatric disorders will be discussed.
Prerequisite: PSYCH-103

PSYCH-242 (Formerly H884) **3-0-3**
Sensations and Perceptions
Sensations refer to information about the environment gathered through the senses. Perception is the process by which sensory information is interpreted and made meaningful. This course will provide a survey of the study of sensation and perception from structural, functional and cognitive viewpoints.
Prerequisite: PSYCH-103

PSYCH-243 (Formerly H885) **3-0-3**
Human Sexuality
This course involves a rigorous examination of the biological, behavioral and mental aspects of human sexuality. Among the topics to be studied are anatomy and physiology, conception and contraception, sex roles, love, sexual communication, sexual dysfunctions and social issues such as pornography.
Prerequisite: PSYCH-101

PSYCH-322 (Formerly H804) **2-2-3**
Introduction to Experimental Psychology
This course introduces psychology as an experimental science in which hypotheses are generated and tested. Major topics will include various types of experimental designs, subject selection and randomization. Students will be introduced to various data collection methods and research designs specific to the different branches of psychology.
Prerequisite: STAT-321

PSYCH-371 (Formerly H896) **3-0-3**
Selected Topics in Psychology
An in-depth consideration of a particular topic, issue or problem in psychology that is of special interest to students and faculty. Recent sections have discussed topics such as educational psychology, psychosexual development and the psychology of trauma. Topic selection will be done in advance of registration.
Prerequisite: PSYCH-101

PSYCH-381 (Formerly H899) **0-0-3**
Independent Study in Psychology
For further details, see general description of Independent Study in "Academic Policies" section.

PSYCH-391 (Formerly H890) **2-2-3**
Advanced Research in Psychology
(writing intensive)
This course will involve an in-depth exploration of research methods in psychology. Students will conduct an original research project individually or as part of a research team. Through this course, students will apply their psychological

training to designing, conducting, analyzing, discussing and presenting their own research project.
Prerequisites: PSYCH-322 and completion of at least 21 credits in psychology courses

PSYCH-410 (Formerly H805) 3-0-3
Senior Colloquium in Psychology
A senior-level seminar dealing with current controversial issues in psychology. Students will perform a search of the scientific literature on issues chosen from a list provided by the instructor and organize, analyze, orally present and discuss material with the class. Finally, students will propose a question generated from this activity and design a research structure to answer it.
Prerequisites: PSYCH-391

PUBH-101 - Introduction to Public Health 3-0-3
This is the foundation course of the Public Health major and provides students with a general overview of principles of public health. The course explains and draws from the interdisciplinary focus of public health theory and practice. Presented will be the concepts of health, population health, and the structure and activities of modern public health systems. The major determinants of health, the causes of disease, and concepts of disease control and prevention are discussed.

READ-099 3-0-(3)
Fundamentals of College Reading and Study Skills
This course is designed to improve reading and study skills at the college level. Its main focus is on developing strategies that will be effective in other content courses. Students complete assignments in academic reading, note taking, vocabulary development, review techniques and critical reading skills. Students must earn a "C" or better to receive credit for fundamentals courses. See "Fundamentals Courses" in the section "Academic Policies." Students required to take READ-099 must not register for HIST-11X in the same semester.

READ-098ESL 3-0-(3)
ESL: Fundamentals of College Reading and Study Skills
This course is designed for students who do not have English as their first language. Its main focus is on developing effective academic reading strategies, expanding vocabulary and reading a wide variety of academic texts to help in preparing for the required reading in other content courses. Students must earn a "C" or better to receive credit for fundamentals courses. See "Fundamentals Courses" in the section "Academic Policies." Students required to take READ-099ESL must not register for HIST-11X in the same semester.

SCI-101 (Formerly L121) 3-2-3
Environmental Science
Environmental Science is the study of how humans and the natural environment interact. Critical issues that affect our daily lives such as clean drinking water, urban renewal, energy availability, pesticides, global warming, acid rain and recycling are explored from social, ecological, chemical and political perspectives. Students will tackle a real-life environmental problem in a professional manner using critical thinking and analytical skills, library research skills, teamwork and presentation skills.

SCI-102 2-3-3
Exploring Science
(for non-science majors)
This hands-on science course delves into public health issues. Field and laboratory sessions focus on data analysis based on issues from students' daily lives which leads to an examination of alternatives. How do you quit smoking? What is in the water you drink and the food you eat? The course culminates in a project that explores the historical, political, and environmental aspects of an unsolved scientific problem and presents the findings to a regional scientific agency.

SCI-300 3-0-3
Basic Pharmacology
This course introduces the student to the basic principles of pharmacology including pharmacokinetics and pharmacodynamics. The course will cover frequently prescribed medications, their uses, actions and common side effects. The student will learn about the various drug classification systems, as well as the effects of those drug classes on specific patient populations, and the process of preventing medication errors deriving from the use of pharmacologic agents.
Prerequisites: BIOL-104 and BIOL-104L, CHEM-104 and CHEM-104L

SCI-381, SCI-382 (Formerly C281, C282) 0-0-3, 0-0-3
Independent Study I & II in Science
Students interested in pursuing independent study in science must submit a proposal to the dean of the School of Science and Health for approval at least two weeks before pre-registration. Detailed guidelines for development of the proposal may be obtained from the School.

SCI-493 (Formerly S791) 0-0-(3 or 6)
Science Internship
A professional internship provides an opportunity for professional experience supporting application and further development of the knowledge gained in the classroom. Under faculty supervision, students work in positions related to the major, minor and/or career goal, develop learning objectives and complete reflective academic assignments. Students should be exposed to a broad spectrum of professional practice, particularly those not available in the academic setting, and are expected to make a professional contribution to their employer Prerequisites: 2.5 G.P.A., completion of 60 credits, and permission of the Internship Program director. Additional requirements may apply. See "Internship Program" section for further information.

SERV-101 0-1-1
Civic Engagement: Serving and Learning in Philadelphia
Through the completion of a 10 hour service project, online journaling, attending four class meetings, and participation in a service-learning showcase, students will serve the greater Philadelphia community in an area of interest and explore

the reciprocal nature and responsibility of citizenship for the individual and community. This course may be taken in place of the 2-course physical education requirement, and it may be taken an additional three times for free elective credits.

SOC-201 (Formerly L362) **3-0-3**
Class, Gender and Race in World Societies
A study of theories, concepts and methods of social science, this course focuses on the nature of economic, racial and sexual stratification in the United States and around the world. The course is designed to enable one to understand and to be able to use social science to analyze and influence situations and environments.
Prerequisite: WRTG-101, HIST-1XX

SOC-204 (Formerly L363) **3-0-3**
Personality and World Cultures
This course is an introduction to the social sciences through the focused study of personality and culture. Material will illustrate quantitative and qualitative methods of social-science research. We will explore concepts, theories and research representing psychological and anthropological approaches, using both classic and contemporary texts. Students will gain an appreciation of cross-cultural variability in personality.
Prerequisite: WRTG-101, HIST-1XX

SOC-208 (Formerly L364) **3-0-3**
The Individual and the Global Environment
This course will introduce students to the social sciences by focusing upon issues in the environment. By examining goals of the new environmentalism, by direct individual and community involvement and by understanding the present state of the world and future trends, the student will have the skills to prepare for a sustainable society, a society that satisfies its needs without jeopardizing the prospects of future generations.
Prerequisite: WRTG-101, HIST-1XX

SOC-211 (Formerly L366) **3-0-3**
Power and Poverty in the Global Economy
The course will emphasize the intersection between global political relations and global economics, and how the two together impact social relations worldwide. Various complementary and competing political and economic perspectives (from capitalist to socialist) will be used to address recent trends in the development of a global economy, international trade, the formation of regional blocs such as NAFTA and the EU, and North-South political/economic relations.
Prerequisite: WRTG-101, HIST-1XX

SOC-225 (Formerly L367) **3-0-3**
Global Politics
This course provides an overview of the forces that are shaping international politics and economics. This course will help students understand the roles of international institutions such as the United Nations, the World Trade Organization and the International Monetary Fund, as well as non-governmental actors such as Amnesty International and al Qaeda. Students will also examine the process of economic globalization in order to understand its varying impacts on different world regions.
Prerequisites: WRTG-101, HIST-1XX

STAT-201 (Formerly B151) **3-0-3**
Statistics I for Business
Descriptive statistical measures and probability theory are combined to provide the basis for statistical decision-making techniques. Areas covered: data presentation; measures of central tendency; measures of variability; basic probability laws, Bayes' theorem; binomial; Poisson; "t," and normal distributions; confidence intervals; hypothesis testing.
Prerequisite: Quantitative Reasoning I

STAT-202 (Formerly B152) **3-0-3**
Statistics II for Business
Review of sampling distribution, confidence intervals and hypothesis tests for two-samples; simple linear regression, multiple linear regression with emphasis on computer output; one- and two-way analysis of variance; application of the Chi-square statistic; non-parametric statistical techniques.
Prerequisite: grade of "C" or better in STAT-201

STAT-221 (Formerly H802) **3-0-3**
Psychological Applications of Statistics I
This course will present an introduction to descriptive statistics and the basis for statistical decision-making techniques. Methods for analyzing experimental data will be presented so students can gain an understanding of statistical procedures commonly used in psychological research. Topics to be covered include the presentation of data, probability, measures of central tendency and variability, correlation and an introduction to hypothesis testing.
Prerequisite: PSYCH-101

STAT-301 (Formerly S466) **3-0-3**
Biostatistics
This course will cover principles of experimental design and statistics for biologists in environmental and medical fields. Hypothesis testing; data collection and sampling; data analysis and graphing; univariate; bivariate and multivariate analysis including regression and ANOVA. Students will design an experiment and compare and contrast the results of several different statistical approaches to data analysis and interpretation.
Prerequisite: grade of "C" or better in either MATH-111 or MATH-112

STAT-321 (Formerly H803) **3-0-3**
Psychological Applications of Statistics II
This course will expand on fundamental topics covered in Psychological Applications of Statistics I and will cover advanced topics such as two-sample hypothesis testing, correlation, analysis of variance, regression and various non-parametric statistics. Particular emphasis will be placed on the interconnection between experimental design in psychology and statistical principles.
Prerequisite: STAT-221

STUAB-300 (Formerly T100) **0-0-(3-12)**
Textile Studies Abroad
Students have the opportunity to study in international textile schools. The School of Engineering and Textiles should be contacted for further information.
Prerequisites: junior status, 2.50 G.P.A.

STUAB-300 (Formerly B100) **0-0-(4-6)**
International Business Studies Abroad
International Business majors are required to study abroad an equivalent of four to six credit hours. The location must be consistent with the foreign language studies chosen. The study abroad may be in the form of an internship or studies at an international university or college. Students must apply for and coordinate their study abroad through the International Business coordinator. A minimum of six months is usually required between the application and the actual study abroad. Prerequisites: equivalent of semester-three language proficiency (Intermediate Low of the ACTFL proficiency standard) in a second language and permission of the International Business program coordinator.

STUAB-300 (Formerly S464) **1-6-4**
Study Abroad in Science
International experience is invaluable in all scientific disciplines and strongly encouraged by the School of Science and Health. Students will collect, analyze and present data in a scientific discipline both in the host country and to the Philadelphia University community. All students will have assignments and immersion in the cultural, social, environmental and historic foundations of the host country.
Prerequisites: 2.00 G.P.A., grade of "C" or better in BIOL-104 AND BIOL-104L or permission of the instructor, and successful completion of the Study Abroad application and policy guidelines process

STUAB-300 (Formerly A100) **0-0-(3-12)**
Architecture/Design and Media Studies Abroad
Contact the School of Architecture, or Design and Media for further information.
Prerequisites: 2.00 G.P.A., grade of "C" or better in both ARCH-301 and ARCH-302; or grade of "C" or better in INTD-302, and permission of both the study abroad director and program director
Prerequisites: DSGNFND-103, ADFND-101 or INDD-101
Cannot be taken as a replacement for WEAV-201.

STUAB-301 **0-0-3**
Study Abroad Project Documentation
This course will be a vehical for students to analyze and document their study abroad experience and then share it with the university community. Similar to an independent study, students will be required to keep a journal while abroad. When they return, they will document their individual academic and personal experience as well as working on group projects to produce a public exhibition.
Prerequisites: STUAB 300

SUST-100 **3-0-3**
Introduction to Sustainability
As the gateway to the Environmental Sustainability major, this course introduces students to the core concepts of sustainability theory and practice. Students will explore the ethical principles, social structures, technologies, and political and economic processes necessary for humans to live sustainably in community with each other, other species and our natural environment.

SUST-120 **3-0-3**
Sustainable Food Chains
This course examines one of the most fundamental sustainability challenges that we will face this century: how to feed 9-10 billion people without depleting the planet's soils, water supplies, oil resources and biodiversity. Sustainable Food Chains explores the environmental impact of modern industrial agriculture and examines alternative approaches to food production that reduce the use of non-renewable resources, respect natural processes, and work in harmony with local ecosystems, communities and economies.

SUST-200 **3-0-3**
Energy Systems and Politics
The rising international demand for fossil fuels, the increasing concerns about dwindling energy reserves and the growing evidence of climate change are combining to accelerate the search for alternative energy sources. This course will analyze the environmental, economic and political dynamics of the existing energy regime, and help students evaluate the potential and drawbacks of possible energy alternatives.
Prerequisites: HIST-1xx

SUST-2xx **3-0-3**
Economics of Sustainability
This course introduces students to general economic theory and how it can be applied to the analysis of sustainability issues. Topics include the economics of sustainable development, cost-benefit analysis related to environmental initiatives, and the evaluation of policies for more sustainable production and consumption.
Prerequisites: HIST-114

TENGR-306 **3-2-3**
Textile Engineering I (Linear Assemblies – Fibers & Yarns)
Molecular structure and morphologies of fibers. Physical, chemical and mechanical properties and behavior of fibers. Fiber-production processes. An examination of systems employed in conversion of fibers into textile structures. Relationships between material/process constraints and product functional quality are analyzed.

TENGR-308 **3-2-3**
Textile Engineering II (Planar Assemblies)
Basic and complex designs. Multiple layer, tubular and near net shape structures. Use of dobby and Jacquard. Development and visualization of woven and knit fabric structures using CAD. Tensile, shear and bending characteristics of woven and knit fabrics. Effect of uniaxial and biaxial forces acting on fabrics. Effect of Poisson's ratio. Fabric

drape and formation of double curvatures. Fabric surface characteristics.
Prerequisite: TENGR-306

TENGR-310 **3-2-3**
Textile Engineering III: Nonwovens and Chemical Processing
This lab-based course will focus on the production and evaluation of nonwoven fabrics, including web forming and bonding methods, and on coloration techniques, including dyeing and printing, as well as aesthetic and functional finishing.
Prerequisites are: TENGR-308 and CHEM 103

TENGR-320 **3-2-3**
Textile Engineering IV: Advanced Fibrous Materials
Mechanics and processes for producing functionally advanced fibrous materials. Architectural, aerospace, recreational and biomedical application of textiles. Concepts of advanced fiber composites will be covered.
Prerequisite: TENGR-310

TEXT-101 (Formerly T101) **3-1-3**
Survey of Textile Industry
Introduction to the language and process flow of fibers through finished products. Topics include fiber classification, formation and variants; spun and filament yarn processing, numbering systems, texturing and novelty yarns; woven, knit and nonwoven fabric formation, processing equipment and basic design elements; printing, dyeing and finishing processes; product evaluation; as well as government legislation related to textiles. A laboratory experience provides support for the lectures.

TEXT-113 (Formerly T301) **4-2-4**
Yarn
The processes necessary for the manufacture of continuous filament, staple, novelty, bulk and stretch yarns are studied. Staple yarn manufacture, including the processing of natural and man-made fibers on the carded cotton, combed cotton, woolen and worsted staple yarn manufacturing system is covered. Quality-control procedures are emphasized. The laboratory experience exposes the student to all aspects of fiber to yarn formation.
Prerequisite: TEXT-101

TEXT-201 (Formerly T255) **2-2-3**
Textile Production I
This course will focus on the following performance properties of textiles: strength, elongation, thermo-physiological comfort, sensorial-comfort body movement, aesthetic qualities, appearance, maintenance properties, and health/safety/protection properties. The process of achieving desired fabric properties through the use of appropriate fiber-, yarn- and fabric-production technology will be analyzed through theoretical studies and production laboratory exercises.
Any student who has received credit for TEXT-113, WEAV-201, KNIT-201, and/or TEXT-321 may not take this course
Prerequisite: TEXT-101

TEXT-209 (Formerly T630) **3-0-3**
Industrial Textiles
The study of the major industrial fabric applications, constructions and future trends. The performance requirements for each application will be related to the selection of industrial fibers, yarn and fabric constructions and fabric finishing, coating and laminating.
Prerequisites: TEXT-307

TEXT-219 (Formerly T253) **3-0-3**
Textiles for Interiors and Architecture
Focuses upon the unique problems and considerations of servicing the residential and contract textile-products market composed of upholstered furniture, window/wall coverings, carpets/rugs and furnishing accessories. Special textile requirements mandated by government agencies, building codes and industry-performance standards for residential, public and institutional interior spaces are emphasized.
Prerequisite: TEXT-101

TEXT-301 (Formerly T256) **3-0-3**
Textile Production II
This lecture-based course will focus on coloration techniques, including dyeing and printing; as well as aesthetic and functional finishing. Any student who has previously received credit for PRINT-305 and/or TEXTCHM-242 may not take this course for credit.
Fall only.
Prerequisite: CHEM-101, TEXT-201

TEXT-305 (Formerly T207) **2-2-3**
Advanced Fabric Performance Evaluation
The objective evaluation of fabric-mechanical properties influencing hand and performance are explored. Comfort-contributing qualities, such as thermal conductivity and air permeability, are also addressed. The influence of fabric-mechanical properties on formability and seaming is assessed with special attention to their role in automated assembly.
Prerequisite: TEXT-307 or TEXT-331

TEXT-307 (Formerly T201) **3-2-4**
Textile Materials
The interrelationship of fiber selection, yarn processing, fabrication and finishing parameters is used to predict and measure fabric performance for specific end uses. A laboratory experience in textile product evaluation provides practical application of theory. The impact of textile-related government regulations is also emphasized.
Prerequisite: TEXT-101

TEXT-313 (Formerly T763) **3-0-3**
Textile Costing
The cost of materials, labor, overhead and waste is studied in relation to textile production and finishing. Case studies illustrate cost systems used in textile mills. Interrelationships between labor, machines and facilities are analyzed to determine their relative importance in cost-reduction programs. Costing factors for domestic and imported fabrics are considered.
Prerequisites: WEAV-201, KNIT-201

TEXT-314 (Formerly T709) **0-0-3**
European Textile Printing
A two-week study tour in the textile printing areas of France, Switzerland and Northern Italy introduces Textile Design and Engineering Technology majors to the expertise of important European printers, screen engravers and studios in the areas of printed textile design, style, color and printing technology. Visits to the two important French historic textile museums and other related textile plants are also included.
Prerequisite: PRINT-315 or PRINT-301 or PRINT-305 or permission of the dean of the school

TEXT-315 (Formerly T208) **1-4-3**
Interior Fabric Performance
Evaluations of fabrics and materials intended for end use in home furnishings are covered in this course. The use of physical testing to predict performance potential is emphasized. The use of instrumentations in the evaluation of surface and color change is presented.
Prerequisite: TEXT-307

TEXT-316 (Formerly T767) **3-0-3**
Textile Quality Management
Recently, quality has emerged as a formal management function — no longer restricted to manufacturing and operational areas, it now includes the design, purchasing and marketing processes. Through lecture, discussion and experientials, this course examines quality theory and practice — how a more sophisticated understanding of quality can lead to a strategic approach to quality management that is necessary to compete in today's global marketplace. Factors required for creating and maintaining a corporation's strategies and competitive edge are analyzed.
Prerequisites: MGMT-301; and WEAV-301 or KNIT-205

TEXT-317 (Formerly T811) **3-0-3**
Textile Production Control
Production — its measurement and control — is studied through plant and equipment layouts, as well as equipment selection. Methods of managing people and the equipment to optimize production are discussed.
Prerequisites: WEAV-201, KNIT-201

TEXT-321 (Formerly T620) **2-2-3**
Nonwovens
The methods of web formation, bonding, end-use and market potential for nonwovens are investigated. In the laboratory, dry-laid and wet-laid nonwovens are manufactured and later evaluated in the testing laboratory for their unique characteristics.
Prerequisite: TEXT-101

TEXT-325 (Formerly T621) **2-2-3**
Fibrous Composite Materials
Exploration of properties of various fibers and fibrous constructions as applied to composites; fabrication of fiber-reinforced composites; and analysis of properties of new materials and technology.
Prerequisite: MATH-112, ENGR-215

TEXT-331 (Formerly T240) **3-0-3**
Apparel Fabric Performance
The course focuses upon the dependent relationship of the raw materials, manufacturing processes and finishing techniques that influence the actual performance of apparel products. This will enable students to evaluate a garment's suitability for a specific end use when any fabric variable is altered or when a product's construction and composition is examined. Federally mandated and voluntary labeling requirements will be emphasized. This course cannot be taken for credit by students who have taken TEXT-307.
Prerequisite: TEXT-101

TEXT-335 (Formerly T625) **1-4-3**
Nonwovens Fabrication and Design
Experimentation in the methods of nonwoven web formation, bonding, end use and expanded market potential for nonwovens are investigated. In the design studio, students will conduct market research while concurrently developing design concepts through hands-on laboratory experience. Each student will create a collection of samples with a specified intention exercising knowledge of fiber and fabrication properties, aesthetic qualities and performance characteristics.

TEXT-371 (Formerly T890) **3-0-3**
Special Topics in Textiles
A topic of special interest to students majoring in Textile Design, or Textile Engineering Technology. The special topic will vary.
Prerequisites will vary.

TEXT-381, TEXT-382 (Formerly T798, T799) **0-0-3**
Independent Study in Textiles I and II
For details, see description of Independent Study in "Academic Policies" section.

TEXT-391 (Formerly T295) **1-5-3**
Textile Design Research
This course will focus on uses of various design resources such as museums, market information, color forecasts, trade shows, nature and current events to generate design ideas suitable for the student's concentration area. Active research will result in a written and illustrated sketchbook of ideas to be used in advanced studio course projects, as well as portfolio-suitable drawings and paintings.
Prerequisites: DRAW-303 Advanced Drawing: Materials & Techniques

TEXT-411 (Formerly T790) **1-0-1**
Seminar: Textile/Apparel Industry Issues
Seminars will expose students to diverse views, as well as enable them to discuss broad issues that cut across several disciplines. New technology and processes, business ethics, industry forecasting and marketing innovations, as well as career information, are effectively presented in this format. One credit of Textile/Apparel Industry Issues is required for TD, TET, FD and FIM majors.

TEXT-487 (Formerly T290) **4-0-4**
Textile Engineering Technology Senior Project (writing intensive)
Design, development, manufacturing, research and other thought-provoking problems are presented. Students will work in teams to analyze information/data on numerous textile- or apparel-related problems. The final project will reflect the work previously conducted in the TET Option and will constitute the final submission to each student's digital portfolio.
Prerequisite: WRTG-2XX, completion of 12 credits in TET Option

TEXT-489
Textile Design Senior Seminar
The capstone course for students within the Textile Design major during which the students will develop a professional portfolio in actual and digital formats and refine work for their final exhibition. Students' individual interests will guide market research and the resultant development of targeted lists of potential employers. Resumes, cover letters and promotional packets will be developed during the course of the semester.
Prerequisite: Senior status

TEXT-493 (Formerly T791) **0-0-(3 or 6)**
Engineer & Textiles Internship I
A professional internship provides an opportunity for professional experience supporting application and further development of the knowledge gained in the classroom. Under faculty supervision, students work in positions related to the major, minor and/or career goal, develop learning objectives and complete reflective academic assignments. Students should be exposed to a broad spectrum of professional practice, particularly those not available in the academic setting, and are expected to make a professional contribution to their employer.
Prerequisites: 2.5 G.P.A., completion of 60 credits, and permission of the Internship program director. Additional requirements may apply. See "Internship Program" section for further details.

TEXTCHM-242 (Formerly C501) **4-2-4**
Dyeing and Finishing
(writing intensive)
This course presents an overview of the wet processing of fibers, yarns and fabrics. Included are the preparation, dyeing and finishing of textiles. Some emphasis is placed on the chemistry and technology involved in these operations. Dyes are studied by their method of application and the primary substrates to which they are applied. Chemical, thermal and mechanical processes are discussed for both preparation and finishing of fabrics.
Prerequisite: CHEM-101 or CHEM 103, WRTG-101

TEXTCHM-338 (Formerly C116) **4-2-4**
Organic/Textile Chemistry
Aliphatic, aromatic and heterocyclic compounds with emphasis on those syntheses and reactions that play a role in textile chemistry. Also includes the chemistry of carbohydrates and proteins, regenerated polymers, polymerization, synthetic polymers, the synthesis and chemistry of finishing agents and dyes. The laboratory portion illustrates basic techniques and reactions and the applications of textile chemistry.
Prerequisite: CHEM 103

WEAV-201 (Formerly T451) **4-2-4**
Weaving I
The structures and analysis of woven fabrics will be studied utilizing CAD, pick outs and laboratory assignments on industrial equipment. Weave structures will include plain, twills and satins (with their derivatives), color effects, textural effects (cords, piques, etc.) and pile weaves. Fabric will be mathematically analyzed for weight, yarn size, fabric count and yarn crimp to specify fabric structure. Necessary loom controls (draw, chains and reed plans) will be used to relate lectures and laboratory work on dobby looms.
Prerequisite: TEXT-101

WEAV-207 (Formerly T440) **1-5-3**
Weave Design Studio I
This course focuses on the effects and interactions that yarn, color, texture and structure play in woven design. Working with multi-harness floor looms and dobby looms, students create warps and chains, and weave prototype cloth for various end uses.
Prerequisite: WEAV-201

WEAV-226 (Formerly T420) **3-2-4**
Jacquard
The principles and equipment involved in the design and production of Jacquard fabrics are studied. Students analyze, design and produce complex Jacquard fabrics on commercial equipment including computerized design and production systems.
Prerequisite: WEAV-301

WEAV-301 (Formerly T452) **4-2-4**
Weaving II
The variations, function, auxiliary devices and design characteristics of cam, dobby and Jacquard weaving machines, and the equipment used to support the weaving process are studied; along with relevant calculations regarding time, materials and production of fabrics. The technique required to accurately analyze fabrics for all critical components and methods to design fabrics for specific weight and compact cover, with consideration given to yarn size, texture, fiber type, weave and other fabric parameters, will be learned. Advanced multi-layer weaves will be studied, analyzed and woven.
Prerequisite: WEAV-201

WEAV-307 (Formerly T441) **1-5-3**
Weave Design Studio II
The study of elements of woven design is brought to the problems of multi-layered cloth, compound weaves, block designs and other advanced structures. Students use several CAD programs in conjunction with AVL compu-dobbies to increase their design capabilities. Multi-harness floor

looms and dobby looms are also used to develop cloth from concept to actuality.
Prerequisite: A grade of "C" or better in WEAV-207

WEAV-327 (Formerly T442) **1-5-3**
Weave Design Studio III
Through an advanced study in woven-textile design, students develop a comprehensive working knowledge of the process of styling fabric for specific textile markets. Depending on the projects' parameters, students may use AVL compu-dobbies, multi-harness floor looms and/or dobby looms.
Prerequisite: WEAV-307

WEAV-401 (Formerly T478) **1-5-3**
Introduction to Woven Design
(for non-textile design majors)
This course focuses on the effects and interactions that yarn, color, texture and structure play in woven design, as they relate to a range of end use applications. Students will develop fabrics appropriate for their particular area of interest or major field of study. Using multi-harness looms, students will create and weave a variety of samples and prototype cloth.

WRTG-098ESL (Formerly H99ESL) **3-0-(3)**
ESL: Fundamentals of College Writing
This course is specifically designed for students who do not have English as their first language, and need additional preparation before taking WRTG-101 ESL: Writing Seminar I. The process of writing is emphasized, with pre-writing activities, planning, multiple drafting that receives peer and teacher feedback, and opportunities for revisions and editing. Beginning with paragraphs and expanding to multiple-paragraph essays, students learn to develop skills in supporting a controlling idea and in recognizing and correcting errors in grammar, punctuation, sentence structure and word usage. Students should only be placed in WRTG-098ESL after designated faculty members have evaluated a writing sample. Credits may not be applied toward graduation requirements. Students must earn a "C" or better to receive credit for fundamentals courses. See "Fundamentals Courses" in the section "Academic Policies."

WRTG-099 (Formerly H99) **3-0-(3)**
Fundamentals of College Writing
This course is designed for students who need additional preparation before taking WRTG-101, Writing Seminar I. Students who place into this course are given background information about the content of Writing Seminar I, which prepares them to read and write college-level academic prose. Students for whom English is a second language take an ESL version of this course. Credits may not be applied toward graduation requirements. Students must earn a "C" or better to receive credit for fundamentals courses. See "Fundamentals Courses" in the section "Academic Policies."

WRTG-100ESL (Formerly L111ESL) **3-2-3**
ESL: Writing Seminar I
This course parallels WRTG-101, yet is specifically designed for students whose first language is not English. As does WRTG-101, this course includes reading and discussion about a variety of texts that share a common theme. Writing assignments include at least three expository essays and a library research paper related to the theme. To be placed in the course, students must either pass WRTG-098ESL or, after submitting a writing sample, be placed by a designated faculty member.

WRTG-101 **3-0-3**
Writing Seminar I: Finding Philadelphia
This course is based on the idea that reading, writing and thinking within a specific context are crucial to successful college work. Students use writing to explore issues in contemporary Philadelphia's social and cultural contexts. Through reading, discussing and writing about full-length books and articles, students learn the rudiments of writing college-level academic papers. Honors and English as Second Language versions of this course are available.

WRTG-211 (Formerly L611) **3-0-3**
Writing Seminar II: Business
This course has been designed primarily for students of business. Students focus on critical reading, writing, thinking and researching in print, electronic, observation and interview formats. Students also consider economic, social and political perspectives as applied to workplace communication and their professions. Students produce individual and group projects, including oral and visual presentations, as they focus both on the process as well as the final products of their work.
Prerequisites: WRTG-101, HIST-1XX. May not be taken CR/NC.

WRTG-215 (Formerly L612) **3-0-3**
Writing Seminar II: Design
This course has been designed primarily for students of design. Students focus on critical reading, writing, thinking, and researching in print, electronic, observation and interview formats. Students also consider economic, social and political perspectives as applied to workplace communication and their professions. Formal aesthetic concerns are also addressed. Students produce individual and group projects, including oral and visual presentations, as they focus both on the process as well as the final products of their work.
Prerequisites: WRTG-101, HIST-1XX. May not be taken CR/NC.

WRTG-217 (Formerly L613) **3-0-3**
Writing Seminar II: Science, Engineering, Technology and Health Professions
This course has been designed primarily for students of science, engineering, technology, and the health professions. Students focus on critical reading, writing, thinking and researching in print, electronic, observation and interview formats. Students also consider economic, social and political perspectives as applied to workplace communication and their professions. Students produce individual and group projects, including oral and visual presentations, as they fo-

cus both on the process as well as the final products of their work.
Prerequisite: WRTG-101, HIST-1XX. May not be taken CR/NC.

Continuing and Professional Studies

All Continuing and Professional Studies courses are available only in an accelerated format

BE-HLT-290 **3-0-3**
Clinical Interactions in Behavioral Health
This course builds on communication and clinical skills learned throughout other coursework and provides the student with a framework for the development of critical thinking skills and patient centered care perspectives within a variety of healthcare settings. Clinical reasoning skills such as patient triage, hierarchy of needs, short term and long term goal setting, and advanced assessment will be covered.
Prerequisite: COMM 310 and PSYCH 233

BE-HLT-341 (Formerly J605) **3-0-3**
Behavioral Health and Neurorehabilitation
Focusing on the needs of clients and patients in specific environments, this course integrates behavioral and health sciences in the description of a range of interventions. Students will study specialized services used in the delivery of neuropsychology, rehabilitation nursing, occupational therapy and a variety of other fields.

BE-HLT-499 (Formerly J610) **3-0-3**
Applied Project in Behavioral Health and Neurorehabilitation
Using the principles learned in CPS Core coursework, and/or applied psychology, neurorehabilitation, or behavioral health, this course requires students to design and develop a program directed toward addressing the health needs of an individual client/patient or group of individuals. Students are encouraged to apply their project to the future work environment where they plan to apply their expertise. Portfolio-based assessment allows students to demonstrate proficiency through display of artifacts related to their plan along with the presentation of documents that either assess the design of the project or describe project implementation.
Prerequisite: CPS Core coursework

BUS-499 (Formerly J525) **3-0-3**
Business Capstone Seminar
The process and techniques of strategy formulation, implementation and evaluation are studied and applied. Case studies of domestic and international companies and not-for-profit organizations will be used to integrate strategic management concepts with knowledge acquired in other classes. This course will include extensive written individual and team assignments and oral presentations.
Prerequisites: MGMT-401, MKTG-102, ACCT-101 and ACCT-102

COMM-310 (Formerly J204) **3-0-3**
Communication Theory and Practice
This course is designed to provide viable frameworks in communication and organizational theories and dynamics. Diagnostic criteria and delivery techniques will also be explored, within both theoretical and pragmatic realms. The class will be conducted in an interactive seminar format.

COMM-320 (Formerly J204) **3-0-3**
Professional Communication Skills
This General Education Core course requires students to analyze, produce, and revise professional communication in a variety of written, oral, and multi-model formats. Students produce individual and group projects in print and multimedia settings as they explore how economic, social and political perspectives apply to workplace communications, the professions and the professionals themselves.

CS-SEM-499 (Formerly J210) **3-0-3**
Professional Studies Capstone Seminar
This General Education Core course examines emerging global issues in the areas of politics, economics, technology and the environment; and explores intercultural communication and the cultural dimensions of international business. Students present their final Continuing and Professional Studies Portfolios and analyze a relevant global trend and its expected impact upon their professional field. Required of all CPS Accelerated Bachelor of Science Degree Completion students.
Prerequisites: Completion of all General Education and Continuing and Professional Studies Core courses, completion of at least 3 electives and completion of at least 3 courses in the major area of study

CS-SEM-300 (Formerly J100) **3-0-3**
Professional Practice Seminar
The introductory core course in Continuing and Professional Studies Bachelor of Science Accelerated Degree Completion Program. Course draws on a variety of sources to provide students the opportunity to create their own conceptual framework regarding their professional and personal experiences and understand how to integrate those frameworks into a personal plan for learning. Students are introduced to the requirements of the Continuing and Professional Studies Portfolio and create the first draft of their personalized portfolio. Required of all CPS majors.
Prerequisites: Admission to CPS Accelerated Baccalaureate Degree Completion program

ECON-331 (Formerly J111) **3-0-3**
Economic Decision Making
This Continuing and Professional Studies Core course introduces principles underlying the behavior of business firms, resource owners, and consumers within a system of markets. The theory of value and distribution and the implications of international trade on both value and distribution are addressed. Overall purpose of the course is to introduce many of the factors underlying sound economic decision making in the rapidly emerging global economy. There is a strong course focus on critical analysis of cases.

EMS-310 **3-0-3**
Emergency Services Law
This course explores the essential framework of federal, state and local laws that impact on emergency and public safety services. It will provide an overview of the most important federal and state legislation that impact emergency services management and disasters.

EMS-320 **3-0-3**
Emergency Management Planning
Topics covered in this course include: program planning and management, financial planning, managing information, leadership and followership styles, decision making skills, community building skills, intergovernmental relationships, negotiating and communication skills and professionalism.

EMS-330 **3-0-3**
Public Health Issues Impacting Emergency Services
This course explores the relationship of public health and emergency and disaster prevention, response and recovery environments. Discussions examine the changing and unique role of public health in emergency management paying special attention to epidemiology, integration with traditional emergency services, medical and first responders, public safety, bioterrorism preparedness, and the need for comprehensive pre-education of professional and public communities. The class will cultivate insight into the necessary integration of public health in the development of effective emergency response contingencies specific to natural, accidental and intentional disaster events.

EMS-410 **3-0-3**
Disaster Response and Recovery Planning
A pro-active rather than reactive approach to disaster preparedness is the best means of mitigating damage from natural disasters or other forms of destruction. This course coves systematic planning efforts for when disaster emergencies occur. Whether small scale or catastrophic, they can be overwhelming. Information in this course provides guidance on business continuity planning and recovery.

EMS-499 **3-0-3**
Theoretical Applications and Applied Project in Emergency Services Leadership
Students will explore the relevant scholarly literature and then conduct an in-depth analysis of the emergency services industry and design an innovative project. Knowledge of statistical analysis, process planning, and data gathering will be used to complete their analysis and report on a contemporary topic or aspect of the business. Students will demonstrate their ability to assess the efficacy of program design as well as describe the project planning and implementation processes. Student projects are evaluated based on the capacity to incorporate familiarity with systems and planning in a comprehensive project in the context of their subject.
Prerequisites: EMS-310, EMS-320, EMS-410

FINC-323 (Formerly J121) **3-0-3**
Financial Decision-Making
A Continuing and Professional Studies Core course that examines financial decision making both from the corporate and individual points of view. While the emphasis is primarily on the corporation, discussions and analysis will be extended, where appropriate, to the individual.
Prerequisite: STAT-311

HIST-321 (Formerly J201) **3-0-3**
Business, Industry and Work in American History
This General Education Core course surveys major themes in the history of work in America, focusing on how economic, technological and political changes have transformed the nature of work in America. Course readings explore industrialization, the emergence of mass production and modern management, the history of worker organizations, the decline of manufacturing and rise of a service economy, and the impact of globalization on work in America. Throughout the course, students consider connections between changes in the workplace and broader social and political developments, including changing gender roles and the civil rights movement.

HLT-SV-210 (Formerly J125) **3-0-3**
Ethical Issues for Health and Human Services Providers
This seminar style course is intended to provide tools necessary for considering and discussing ethical dilemmas in today's multicultural society. Meaningful dialogue requires an understanding of the evolution and development of ethics from the beginning of civilization. Sources used for this course include films and directed readings (text, newspaper articles, and internet resources). The goal of this course is to enhance the understanding and language skills of the provided so that he/she can engage in meaningful discussions of potentially highly charged emotional issues.
Prerequisite: WRTG-101

HLT-SV-310 (Formerly J301) **3-0-3**
Survey of Health Services Delivery Systems
This course provides an overview of the history, evolution and major components of U.S. health care systems. Topics covered include the organization of health care services, the hospital, the roles of health care providers, supply and demand in health care, third-party payers, the role of government and managed care and comparisons of health care systems in other countries.

HLT-SV-315 (Formerly J302) **3-0-3**
Public Policy and Planning in Healthcare
An analysis of the processes related to the planning, organizing, staffing, directing and controlling of health care services. Specific emphasis is given to the key indicators and organizations that drive policy and planning in health care systems. The course also considers the impact of policy on practitioners in health care. The techniques of effective decision making and problem solving are also addressed.

HLT-SV-325 (Formerly J303) **3-0-3**
Emerging Issues in Healthcare
This course explores the current trends in health care and issues affecting the organizational changes in the industry with regard to delivery of health care services in a wide variety of settings. Topics include history of U.S. health care services, current reform proposals, universal health care insurance, ethical issues, gerontological issues, labor relations, the changing workforce in healthcare and comparative perspectives of health care in other countries.

HLT-SV-499 (Formerly J310) **3-0-3**
Capstone Seminar in Health Services Management
Students use knowledge of statistical analysis, process planning, and data gathering to complete an in-depth analysis and report on a sector or organization in the health care industry. Students' projects are evaluated based on demonstration of an understanding of systems, planning and dynamics of delivery in the context of their project.
Prerequisite: HRM-350, HLT-SV-310, HLT-SV-315 and HLT-SV-325

HRM-321 (Formerly J401) **3-0-3**
Staffing and Resource Development
This course focuses on the recruitment and retention functions of human resource management, including EEO/Affirmative Action and career planning. In addition, the course focuses on the training and development functions inherent in retaining and enhancing a skilled work force. Training development includes needs analysis, programming and evaluation.
Prerequisite: MGMT-320

HRM-336 (Formerly J402) **3-0-3**
Compensation, Benefits, and Health and Safety
Focusing on the complex structure of employee benefits programs, this course also introduces students to compensation structures. In addition to the focus on compensation and benefits, the course also develops students' understanding of the legal and organizational aspects of health, safety and security.
Prerequisite: MGMT-320

HRM-350 (Formerly J132) **3-0-3**
Cross-Cultural Communication and Diversity Management
This course will examine how to manage the growing multicultural workforce in the United States. Topics include issues of intercultural communication and cross-cultural relations, ethnocentrism, racism and ageism. Students will develop an understanding and appreciation for cultures other than one's own and will be able to discuss current techniques used in cultural analysis.

HRM-421 (Formerly J403) **3-0-3**
Organizational and Employee Relations
This course focuses in part on the function of union representation and collective bargaining in managing a large organization. In addition, it focuses on the role of planning, control, and information resources in the practice of human resource professionals.
Prerequisite: MGMT-320

HRM-499 (Formerly J410) **3-0-3**
Applied Research and Practice in Human Resource Management
This project-centered course requires students to develop a comprehensive human resource plan for an organization. Plans must include considerations of planning, staff development, compensation and benefit structures, and organizational health and safety requirements. Students will write and present a comprehensive plan, including materials targeted for employee development and relations.
Prerequisite: HRM-321, HRM-336 and HRM-421

HUMN 301 **3-0-3**
Art and Context
An in-depth examination of images and objects from throughout history and world cultures. Emphasis will be on the materials and techniques of painting, sculpture, architecture and landscape architecture, and on what these objects and images say about the cultures that made and make them. Class format will be lecture, class discussions and student group presentations. Two self-guided Philadelphia-area field trips will be required.

HUMN-310 (Formerly J202) **3-0-3**
Globalization and World Politics
This course provides an overview of the forces which are shaping global economics and politics. Students will develop an understanding of the roles of international institutions such as the World Trade Organization, the International Monetary Fund and the United Nations, as well as non-governmental groups like Amnesty International and al Qaeda. Students will also examine the process of economic globalization in order to understand its varying impacts on different world regions.

IT-101 (Formerly J114) **3-0-3**
Introduction to Information Systems
This is an introductory course in Continuing and Professional Studies for students with no prior computer experience. The course is designed to teach students to use informatics that combine computer science, information processing, data-base management, word processing, spreadsheets and information presentation skills to facilitate management and processing of industry-related data.

IT 201 **3-0-3**
Learning with Technology
This course will utilize students' previously-acquired abilities to use Microsoft Word, Excel and PowerPoint in conjunction with information retrieval, management and communication tools. Research methods are combined with resource use, leading to careful evaluation and ethical use of information. This course will be taught in a computer lab, combining lecture with hands-on activities and group work. Can complement courses in which the student is concurrently enrolled and that require research beyond the course's texts.

IT-315 (Formerly J501) **3-0-3**
Information Technology I
This course prepares future managers to be effective organizers and users of modern information technologies. Emphasizing a global perspective of information technology and related business issues, students learn to view IT in broad terms and function as "internal consultants" to functional areas in an organization. The course covers office and manufacturing automation, telecommunications, decision- support systems and executive information systems. Students learn to integrate the informational needs of the organization with suppliers, customers and other decision-making entities. Course introduces management techniques to support effective employees whose actions are guided by the power of modern information technologies.

IT-317 (J502) **3-0-3**
Information Technology II
This course introduces the fundamentals of computer-application development. Students will develop basic facility in digital media, electronic publishing, and decision support systems. The course also includes the use of information technologies for the automation of both office and factory environments.
Prerequisite: IT-315

IT-320 (Formerly J503) **3-0-3**
Database Management
This course will provide an introduction to the creation and management of electronic databases. Topics covered include database design, relationships, normal forms, structured query language, importing data and creating reports and forms. Data-modeling techniques will also be covered.
Prerequisite: IT-317

IT-410 (Formerly J505) **3-0-3**
Needs Assessment
This course provides an introduction to assessing the informational needs of an organization. Topics covered include equipment requirements, information design and technology integration as they impact the needs of an organization. Special attention will be given to usability studies and design development.
Prerequisite: IT-320

IT-499 (Formerly J510) **3-0-3**
Project Management
This course focuses on strategic management of technology projects. Acting as a project manager, students learn techniques to elicit the support and acceptance of new technologies within organizations. Through the creation of a project plan, students learn how to integrate informational technologies into an organization's mission.
Prerequisite: IT-410

LAWEN-301 **3-0-3**
Planning for Law Enforcement Organizations
This course covers strategic and tactical planning broadly conceived. The focus is on law enforcement, however theories, examples and perspectives will be drawn from other fields in the nonprofit sector. Topics to be addressed include forecasting, personnel planning, GIS, and personnel and resource management issues including budgeting and program evaluation.

LAWEN-310 **3-0-3**
Contemporary Law Enforcement Strategies
Understanding that law enforcement professional must attain an in-depth understanding of contemporary policing strategies and critical issues face law enforcement today, students will examine crime analysis, patrol techniques, training, information systems/GIS as well as other issues such as government relations and criminology.

LAWEN-410 **3-0-3**
Advanced Law Enforcement Theory and Management
This course focuses on the underlying theories of expert practices in police management and administration. Students will examine ethical issues specific to the field of law enforcement. This course builds on knowledge obtained through LAWEN-310 and utilizes academic and professional literature to address critical issues in the field.
Prerequisite: LAWEN-310

LAWEN-499 **3-0-3**
Capstone Seminar and Applied Project in Law Enforcement Leadership
Using concepts learned in CPS Core Coursework and Law Enforcement Leadership courses, students conduct an in-depth analysis of the law enforcement industry and design an innovative law enforcement initiative. Students will use knowledge of statistical analysis, process planning and data gathering to complete their analysis and report on a sector or organization in the industry. Students will demonstrate their ability to assess the efficacy of a program design as well as describe the project planning and implementation processes. Students' projects will be evaluated based on the capacity to incorporate familiarity with systems and planning in a comprehensive project analyzing the dynamics of the law enforcement industry in the context of their project.
Prerequisites: LAWEN-301, LAWEN-310, LAWEN-410, MGMT-320

MGMT-330 (Formerly J123) **3-0-3**
Organizational Ethics
This Continuing and Professional Studies Core course deals with current controversial issues in organizational ethics. The course will be conducted as a seminar. Students will research specific topics and present this information to other seminar members.

MGMT-351 (Formerly J101) **3-0-3**
Leadership Theory
This Continuing and Professional Studies Core course is designed to increase awareness and broaden both knowledge base and application of leadership theory, trends, and applications. Individual leadership styles will be assessed with a focus on viably integrating a full range of leadership skills within the rapidly changing workplace. Designed to provide students with knowledge regarding the managerial process,

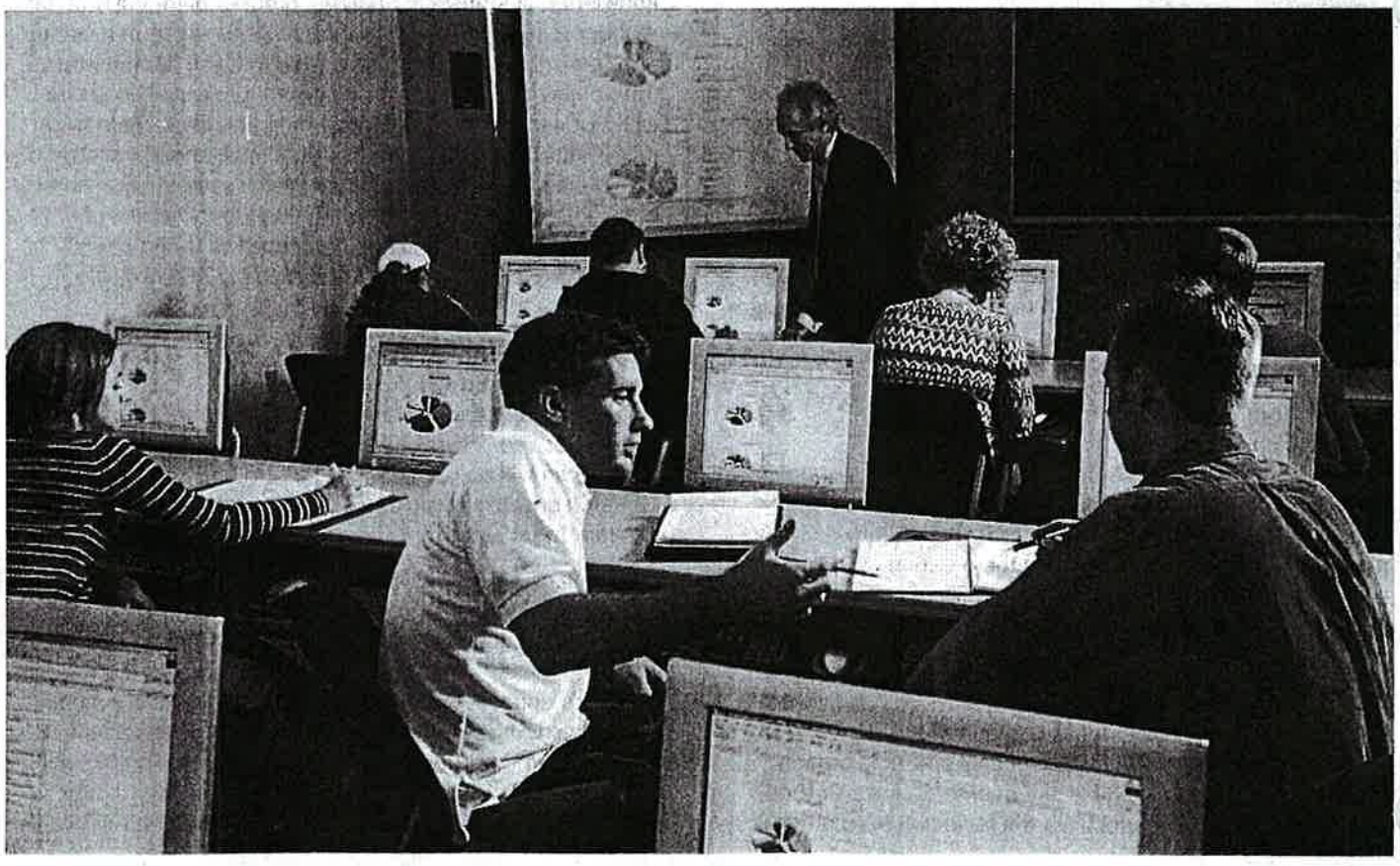
planning, organization, strategic leadership and change-oriented leadership. Theories related to organizational structure, competition, leadership, management strategy, communication and social responsibility will be examined.

MKTG-320 (Formerly J122) **3-0-3**
Visual Literacy
A survey course in which students will examine, appreciate and communicate with visual media. Students will enhance their capacity to look at a design and evaluate what is effective, with an understanding of design language and the process by which good communication is created.

SOC-310 (Formerly J203) **3-0-3**
The Social Science of the Workplace
This General Education Core course examines the contemporary world of work using analytic tools from a variety of disciplines, including sociology, psychology, and anthropology. Key themes include: the social organization of work, contemporary changes in occupations and professions, technology and the information age, the impact of globalization on work, the role of class, gender, race and ethnicity in shaping work experiences and worker identities, and the relationship between work and family. Students learn about basic social science research techniques, practice interpreting data and thinking critically about contemporary work issues, and develop their own arguments about the world of work.

STAT-311 (Formerly J112) **3-0-3**
Finding and Evaluating Statistical Data
A Continuing and Professional Studies Core course in data gathering and analysis, focusing on the use of demographic and economic data that inform organizational decision making. Students will learn basic descriptive statistical measures and probability theory and develop an understanding of the basis for statistical decision-making techniques. A variety of resources for gathering data related to demographics, socio-economic and sociogeographic trends, economics data, and trends in business and industry will be presented. Students will also review and apply a variety of descriptive and/or inferential statistics to make meaning of these data. Students will learn to manipulate data using statistical software.

WRTG-105 **3-0-3**
Writing About Workplace Culture
Students in this thematic writing-specific course draw evidence from multiple sources while developing these-driven essays and other types of personal, academic and professional writing. To examine the purposely broad theme of workplace culture, students will research, write, and present on topics such as professional ethics, the multicultural workplace, technology on the job, workplace politics, and corporate citizenship. Students will also develop targeted information literacy skills and enhance their abilities to think independently and on teams.



Academic Policies and Procedures

Absence Due to Illness

Any student who is unable to attend classes for three consecutive days or more due to illness must notify the Assistant Dean of Students, and report to Student Health Services or a private physician during the period of illness. Once a diagnosis is documented in the Dean of Students office, a student may request that a "Verification of Illness Memo" be sent to designated faculty members and the appropriate academic advisor. The diagnosis will not be disclosed in the memo. In certain situations, the memo may state that the student should report to Student Health Services for clearance prior to returning to class. **This memo will not supersede the specific attendance policy for an instructor. In addition, students are required to contact their professors about their academic standing in class either during or immediately following the documented illness. The determination of a student's academic standing in class, even following documented illness, is completely within the discretion of the individual instructor.** If a student is diagnosed with a communicable illness that poses a possible threat to the University community, a general notification may be sent to those at risk for exposure to the illness per the recommendation of the Philadelphia Health Department. Efforts will be made not to disclose the infected student's name. The University cannot assume responsibility for deductions and assumptions made by others, but will make every effort to anticipate and address any concerns.

Students who are diagnosed with a communicable disease and those not immunized against an offending vaccine-preventable disease may be required to leave campus until their illness is resolved. For information, contact the Student Health Center at 215.951.2986.

Access to and Release of Student Records

In accordance with the Family Educational Rights and Privacy Act of 1974 (FERPA), Philadelphia University will neither deny nor effectively prevent current or former students of the University the right to inspect and review their education records. Students will be granted access to their records within a reasonable period of time after filing a request.

Students have the right to request the amendment of their education records to ensure that the records are not inaccurate, misleading or otherwise in violation of their privacy or other rights.

Confidentiality of information is highly respected at Philadelphia University. The University will not release or provide access to education records or personally identifiable information from education records to any individual, agency or organization, except "directory" information, without the written consent of the student and to the extent that FERPA authorizes disclosure without written consent.

At Philadelphia University, information without written consent may be released to "school officials" with legitimate educational interest. A "school official" is a person employed by the university in an administrative, supervisory, support staff, academic/research positions, persons contracted with the college such as attorney, auditor, or collection agent, university security unit, persons serving on the board of trustees, or a students serving in a official committee such as a disciplinary or grievance committee, or students assisting another school official in performing his or her official task.

Philadelphia University designates the following items as "directory" information: student name, addresses, e-mail addresses, telephone numbers, major and minor fields of study, credits for which a student is registered (FT or PT status), participation in officially recognized activities and sports, dates of attendance, degrees and awards received, date of graduation, most recent previous school attended and photograph.

The University may disclose any of those items without prior written consent, unless notified in writing on the **form available from the Student Life office no later than the fifth day of the fall term, spring term or summer session. Such notice shall be effective only until the end of the academic year.**

Students have the right to file a complaint with the U.S. Department of Education concerning alleged failures by the University to comply with the requirements of the Act and the U.S. Department of Education regulations on the Act.

Students should refer to the Student Handbook published and distributed annually by the University and available online at www.PhilaU.edu/studenthandbook to obtain further information about student records, policies and procedures and the FERPA.

Academic Advising

Philadelphia University's academic-advising model supports students throughout their academic career at the University. Academic advisors assist students in developing suitable educational plans, understanding program requirements, policies, and resources, evaluating their academic progress, and clarifying realistic life and career goals.

Advising for first-year students (freshmen and new transfer students) and students who have not declared their majors is provided at the Learning and Advising Center. Faculty Advisors in the Learning and Advising Center actively reach out to their advisees in order to assist them in their academic life. First-Year students may meet with ANY first year advisor at the Learning and Advising center on a drop-in basis Monday-Friday from 9AM to 5PM. All first year students MUST meet with a first year advisor before November of their first semester for assistance with Pre-registration for Spring.

Other advising services for all students in the Learning and Advising Center include assistance in understanding transfer credit evaluation, majors advising for students who have not declared a major or who are thinking of changing their major, change of major forms, and other advising forms.

Upper-level students (Sophomore through 5th year) who have declared their majors are assigned advisors in their schools. These students are expected to assume increasing responsibility for their progress toward graduation. Students must contact their advisor to set up advising appointments at least twice during the academic year. They are expected to consult with their advisors concerning course registration for fall and spring semesters. While upper-level advisors are available to discuss program requirements and policies, emphasis is placed upon working with students to clarify their educational, personal and career goals.

Advising for all accelerated programs is provided through the Office of Continuing and Professional Studies in The Tuttleman Center.

Academic Honors

Undergraduate students enrolled in at least 12 semester credits, nine of which are graded, and who earn a semester grade point average of 3.60 or better are eligible for the Dean's List for that semester.

- A candidate for graduation who earns a cumulative grade point average of 3.60-3.79 will be graduated "cum laude," or "summa cum laude" if their final average is 3.80 or better.
- Additional awards are presented at the annual University Awards Ceremony and during Commencement.

Academic Integrity

Students are responsible for the content and integrity of all academic work submitted, such as papers, reports, designs, presentations and examinations. Students are equally responsible for the content and integrity of all group projects.

Briefly, students will be in violation of the Academic Integrity Policy for the following offenses: cheating, fabrication, plagiarism, facilitating academic dishonesty, or denying others access to information or material. The complete text of the Academic Integrity Policy is published in the University's *Student Handbook* (www.PhilaU.edu/studenthandbook) and is also available in the deans' offices and in the Office of Academic Affairs.

Philadelphia University takes academic integrity very seriously. Instances of academic dishonesty will not be tolerated, and students violating the University's Academic Integrity Policy will be subject to appropriate sanctions.

Academic Standing

A student's academic standing is determined at the end of each full-time semester, or after 15 credits if enrolled part-time, on the basis of attempted semester credits and cumulative grade point average according to the following table. To retain good academic standing, students must have a cumulative grade point average of 2.0.

The Undergraduate Academic Standards Committee periodically reviews the student's cumulative record in order to ensure good academic standing. Of primary concern to the committee in determining academic standing is normal progress toward degree requirements. When the committee notes problems in academic performance that may jeopardize a student's standing, the student will be notified.

Probation

Academic probation is a means of emphatically informing students that their record is unsatisfactory while there is still time to remedy the situation. Students will be placed on scholastic probation whenever their records indicate that normal progress toward a degree is in jeopardy. Probation is not meant to be a penalty, but should be interpreted as a serious warning to improve the quality of academic work. Students on probation are not allowed to take more than a normal course load, and may be required to take a reduced course load. Students on probation will not be able to participate in intercollegiate athletics or hold an elected or appointed office in any SGA-recognized student organization. Students on probation should reduce the number of hours of employment whenever possible and limit participation in any other extracurricular activities that interfere with the performance of their academic work.

Dismissal/Terminal Probation

If the student is placed on probation at the end of a given semester and remains on probation at the end of the following full-time semester (or fifteen credits if part-time), the

Prior Academic Standing		New Cumulative GPA	New Academic Standing
Good	One Term (if full-time) or 15 credits (if part-time)	2.00 or higher	Good
Good		less than 2.00	Probation
Probation		2.00 or higher	Good
Probation		less than 2.00	Dismissal
Dismissal	(committee permits continuation)		T-Probation
T-Probation		2.00 or higher	Good
T-Probation		less than 2.00	Dismissal
Withdrawal/Probation	→		Re-entry/Probation

student will be dismissed from the University. Students may appeal the dismissal through the Undergraduate Academic Standards Committee (at a specified date) in either January for fall dismissals, or late May/early June for spring dismissals. During this appeal process, the Committee will review all pertinent information, including but not limited to the student's academic and judicial record.

The committee may elect to place the student on terminal probation and stipulate certain actions that the student must take during the following semester. Details of such actions will be presented to the student in a formal letter. The dismissal, however, may be sustained as a result of the personal review.

If a student is readmitted to the University following an appeal to the Undergraduate Academic Standards Committee, a semester will be stipulated for their re-admission. If students wish to enter more than one year from the original semester indicated on their letter, their request must be resubmitted to the Undergraduate Academic Standards Committee for re-evaluation.

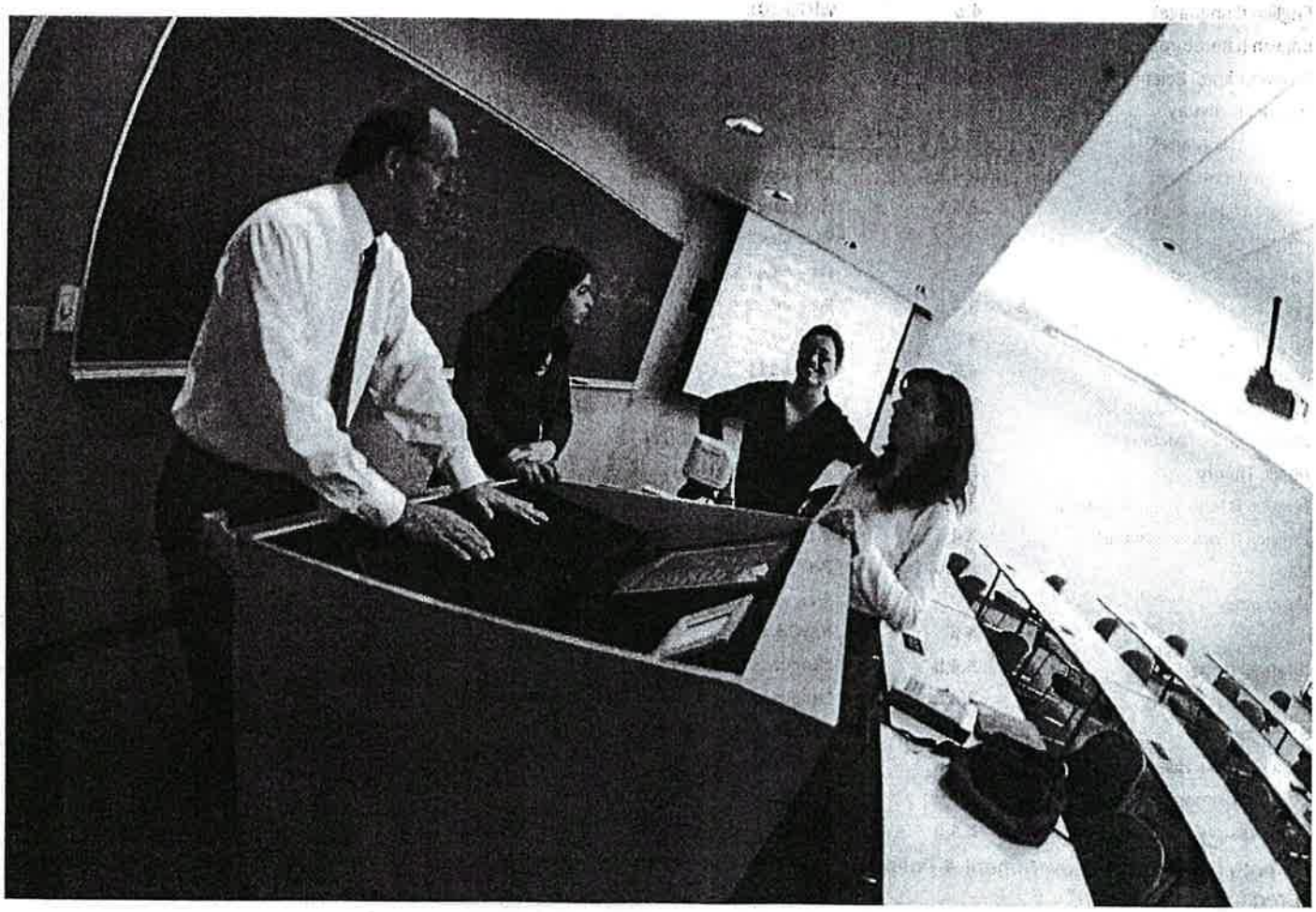
Students placed on terminal probation must meet the stipulations established for them. Failure to do so will result in automatic dismissal from the University.

See "Re-entry to the University."

Address or Name Changes

It is the student's responsibility to see that a valid permanent address and current name is on file in the Office of the University Registrar. Any change of name or permanent or local address must be reported to the Office of the University Registrar when it occurs. A forwarding address should also be given to the U.S. Postal Service.

International students must also contact the director of International Student Programs when changing their name or address.



Advanced Placement

Students who have taken Advanced Placement (AP) exams and received the necessary minimum score will receive credit for the courses listed below. These guidelines will go into effect for students entering the University in January 2004. Students must formally submit their Advanced Placement Scores from the Educational Testing Service (ETS) directly to the Admissions Office before their first semester at the university and no later than their second semester in residence. Those students who delay sending the university their AP test results until after matriculation may be required to register for courses for which they would have received AP had the information been submitted earlier. It is in students' best interests to submit all AP scores as soon as possible. Students who do not submit their scores until after their second semester in residence, will not have their scores honored, pending appeal to a University official designated by the Provost.

AP Exam Name	Score	Course Equivalents
Art History	4,5	ARTH-101 or ARTH-102
Art-Studio/Drawing	4,5	DRAW-101
Art-Studio/General Art	4,5	Free elective (3 cr.)
Biology (non-science major)	3,4,5	BIOL-101
Biology (science major)	4,5	Free elective (3 cr.)
Chemistry (non-science major)	3,4,5	CHEM-101
Chemistry (science major)	4,5	Free elective (3 cr.)
Comparative Government & Politics	3,4,5	Social Sciences I (3 cr.)
Computer Science A	3,4,5	MIS-405
Computer Science AB	3	MIS-405
Computer Science AB	4,5	MIS-406
Economics-Macroeconomics	3,4,5	ECON-205
Economics-Microeconomics	3,4,5	ECON-206
English (Language)	4,5	WRTG-101
English (Literature)	3,4,5	Humanities I (3 cr.)
Environmental Science	3,4,5	SCI-101or Free elective (3 cr.)
European History	3,4,5	Historical Understanding I (3 cr.)
French (Language)	3,4,5	Language Studies (3 cr.)
French (Literature)	3,4,5	Language Studies (3 cr.)
German (Language)	3,4,5	Language Studies (3 cr.)
Human Geography	3,4,5	Free elective (3 cr.)
Latin (Literature)	3,4,5	Free elective (3 cr.)
Latin (Virgil)	3,4,5	Free elective (3 cr.)
Mathematics-Calculus AB	3	MATH-102
Mathematics-Calculus AB	4,5	MATH-111
Mathematics-Calculus BC	3	MATH-111
Mathematics-Calculus BC	4,5	MATH-111 and MATH-112
Music Theory	3,4,5	Free elective (3 cr.)
Physics B (non-science major)	3,4,5	PHYS-101
Physics B (science major)	3,4,5	PHYS-101 or Free elective (3 cr.)
Physics C	3,4,5	PHYS-201 & PHYS-201L or Free elective (3 cr.)
Psychology	3	Free elective (3 cr.)
	4,5	PSYCH-101
Spanish (Language)	3,4,5	Language Studies (3 cr.)
Spanish (Literature)	3,4,5	Language Studies (3 cr.)
Statistics	3,4,5	STAT-201
United States History	3,4,5	Historical Understanding I (3 cr.)
U.S. Government & Politics*	3,4,5	Social Sciences I (3 cr.)
World History	3,4,5	Historical Understanding I (3 cr.)

**If both Comparative Government & Politics and U.S. Government & Politics are taken, one becomes 3 credits free elective. See "Credit by Examination"*

Appeal of Adverse Decisions

Students have the right to appeal decisions that are made regarding them by any faculty, official, or committee of the University. The Dean of Students can advise students on the appeals process. Students should first discuss the decision with the individual who made the adverse decision. If a satisfactory resolution of the problem cannot be reached at that level, students may file a subsequent appeal with the person to whom that faculty or staff member reports. In the event a satisfactory resolution cannot be reached at that level, or if there were no intermediary, an appeal may be submitted to the dean of the school. In the event a university committee rendered a decision, the student may file a second appeal with that same committee if there were new information that would have a bearing on the outcome of the case. The school dean or the university committee is the final appeal.

Attendance

All students are responsible for, and grades may be determined by, all requirements outlined by the instructor's syllabus. This may include class attendance and participation, as well as the completion of all assignments, the reading of all required materials, the completion of laboratory assignments and/or field trips and the taking of the required examinations.

Any students with absences due to extended illness should contact the Dean of Students office. This will not, however, override an instructor's attendance policy. Students are required to speak with their instructor about all extended absences to learn of their academic standing in the class. Students with excessive absences due to personal circumstances should contact the Counseling Center. Students are allowed two absences in physical education courses.

Auditing a Course

A student who wishes to attend a course regularly, but does not wish to receive credit for the course, may request permission to audit from the dean of the school in which the course is offered. The dean will, in turn, obtain permission from the faculty member.

Students are expected to meet the requirements for auditors, which are established by the faculty member teaching the course. Following the completion of the course, the faculty member will determine whether these requirements have been satisfied and, if so, the notation of "AU" will be posted on the transcript.

Tuition and fees to audit the course are the same as those when taking the course for credit.

Students must register for an audit course the same way they would for any other. In addition, they must secure from the Office of the University Registrar or Continuing and Professional Studies a "Request for Permission to Audit a Course" form requesting permission to audit, and return the completed form by the last day for schedule changes. At that time, the decision becomes final.

Audit courses cannot be applied toward degree requirements.

See "Schedule Changes."

Cancellation of Classes

Cancellation is automatic upon failure of the instructor to appear 15 minutes after the normal starting time of that class, unless notice is sent prior to that time that the instructor will be late.

In the event of inclement winter weather, KYW 1060AM will make an announcement of the snow number. The number for cancellation of classes:

Day	112
Evening (announced after 3:00 pm)	
Main Campus	2230
Bucks County Campus	2751

Changing Curriculum (Major)

Students who wish to request a Change of Major (Curriculum) must obtain the proper form from the Learning and Advising Center or the Office of Continuing and Professional Studies. Completing a Change of Major form requires multiple signatures including the signature of the Dean/Program Director in the proposed new major and the director of Learning and Advising Center or the Office of Continuing and Professional Studies, prior to formally making the change.

Students, who request a Change of Major into the following programs: Architecture, Architectural Studies, Digital Design, all Engineering majors, Fashion Design, Graphic Design, Industrial Design, Interior Design, Landscape Architecture and Physician Assistant must consult with the Learning and Advising Center because certain timelines, stipulations and additional signatures may be required.

In connection with Change of Major (Curriculum), students, in consultation with their new program director/advisor AND the Learning and Advising Center or Office of Continuing and Professional Studies, may elect to remove some courses that do not apply to their new major from consideration in their Cumulative Grade Point Average (GPA). No College Studies courses that apply to both majors may be removed from students Cumulative GPA. Courses from the previous major may be used to fulfill electives in the new major if they are consistent with the new major curriculum.

The decision of which, if any, courses are to be removed from the Cumulative Grade Point Average, may be made only ONE TIME, and students must complete the "Request to Remove Courses from Consideration in GPA" form. This form is available at the Learning and Advising Center and requires the signature of the prospective academic advisor/program director as well as the Learning and Advising Center Director.

Compliance with University Regulations

By accepting registration, students agree to accept responsibility for compliance with academic requirements and conduct regulations.

It is recognized that, once registered, students have basic rights, but the University reserves the right to require students to withdraw at any time if they fail to live up to their responsibilities to maintain the standards of conduct and scholarship.

Due-process procedures will be followed in all violations that could result in the dismissal of a student from the University.

Computer Resources

The Office of Information Resources (OIR) is responsible for management, operation, security and support of the information-technology environment at Philadelphia University. In accordance with established policies, all members of the Philadelphia University community are responsible for effective, efficient, ethical and acceptable use of information resources. The complete text of the University's "Information Technology Policy" is published in the University's *Student Handbook* and is available online at www.PhilaU.edu/studenthandbook.

Conduct

The University tries to minimize the number of specific regulations governing conduct, assuming that students are adults and mature enough to establish a code of conduct that will reflect well on themselves and the University. The University expects students to perform their work honestly, pay debts promptly, comply with public laws and respect the property of the University, the community and fellow students.

All individuals and organizations affiliated with the University or using the name of the University are expected to conduct their affairs in a manner reflecting credit on the University.

The University does have regulations governing certain types of conduct. These are stated in detail in the Student Handbook, which is distributed each year to all freshmen and available online at www.PhilaU.edu\studenthandbook.

A Student Conduct Committee reviews serious cases involving violations of conduct standards and regulations, including academic dishonesty. The operation of this committee is outlined in the Student Handbook.

Course-by-Appointment (CBA)

Students may be permitted to take a "course-by-appointment" for an existing catalog course that anticipates low enrollment. The university registrar lists such courses on the master schedule without indicating days or times. The assigned faculty member subsequently contacts all students who register, and a mutually convenient day and time is established. The course subsequently follows the normal syllabus, assignments, and examinations.

If (enrollment in) an unlisted course-by-appointment is being requested:

- Student obtains the required form from the Office of the University Registrar or the School Dean's Office, prepares a written statement detailing the reason(s) for a CBA at this time and verifies that the prerequisite(s) is completed.
- Student must make a request to the dean of the School in which the course is offered for permission to take a CBA not listed on the master schedule. If approved, the dean's office will contact an appropriate faculty member willing to undertake this responsibility. The School reserves the right to identify courses that may not be taken by appointment regardless of scheduling conflict or anticipated date of graduation.
- The completed form, with the signature of the academic advisor and the designated faculty member, will be submitted to the dean of the School in which the course is given, and if approved, will be then signed by the student and presented to the Office of the University Registrar.
- Registration must be completed before the end of the (add/drop) period allowed for schedule changes.

See "Independent Study."

Course Load and Course Overload

Students enrolled in 12 to 18.5 credits per semester are considered enrolled full-time and will be billed at the comprehensive tuition rate. Students taking less than 12 credits per semester are considered part-time and will be billed at the per credit rate. Students enrolled in more than 18.5 credits per semester are enrolled in an overload. Students enrolled in an overload will be billed the comprehensive rate plus the overload per credit charge for all credits over 18.5.

Courses Taken Elsewhere

From time to time, matriculated students may find it necessary to take courses at another college or university. Students may also seek permission to take courses at another institution during the academic year, if specific courses are not available at Philadelphia University.

Permission to take courses at another institution will only be granted if the courses at the other institution are determined to be equivalent to courses at Philadelphia University by the respective school dean after a faculty review of the corresponding course description. Generally, permission to take courses equivalent to Philadelphia University junior- and senior-level courses will be granted only if the other institution is a four-year college or university. Students may not take junior- and senior-level courses at a two-year or community college.

Students must fulfill their residency requirement at Philadelphia University. *See "Residency Requirements."*

If the student earns the equivalent grade of "C-" or higher for an approved course, Philadelphia University will grant credit for the course. Students should not take courses at

other institutions on a "Credit/No Credit" or "Pass/Fail" basis, as the University will not accept such a grade toward a Philadelphia University degree. Grades earned at another college or university are NOT made part of the student's Philadelphia University transcript; rather, only the credits will be considered for transfer credit.

It is the responsibility of the students to:

- Secure a catalog description from the other institution and verify that the intended course will be offered.
- Obtain a "Permission to Take Courses at Another Institution" form at the Learning and Advising Center. Submission of the completed form must be done at least six weeks before courses begin at the other institution.
- Take the form and the catalog course description(s) to the following individuals for review and approval: (1) academic advisor to verify the requested equivalent course is a degree requirement; (2) a faculty member in the appropriate academic area to verify equivalency of the intended course; and (3) the dean who is responsible for similar course offerings at Philadelphia University.
- Submit the completed form to the Registrar. As a general rule, a student will not be permitted to take a course at another institution if the course is being offered by Philadelphia University and if, at the time the student wishes to take the course, the student is residing within 30 miles of the University. Students should not plan to take more than two courses at another institution in any term, including the summer. Students must be in good academic standing at the University and must be in residence at Philadelphia University during the semester immediate preceding the awarding of the degree.

The Registrar will send a letter to the college or university for permission to take the course(s). Copies will be supplied to the student, to the student's advisor, to the registrar and to the dean of the school that has jurisdiction over the student's curriculum.

The student must make arrangements for an official transcript to be sent to the Office of the University Registrar after completion of the off-campus course work. No credit will be evaluated until that office has received an official transcript. No credits will be transferred without prior approval.

Credit by Examination

The University recognizes the fact that learning also takes place beyond formal classroom situations. Since the function of credit by examination is to provide students the opportunity to be placed in the most advanced courses for which they are qualified, all credit by examination results from Advanced Placement Exams, CLEP, and International Baccalaureate (IB credit) earned prior to matriculation at Philadelphia University must be submitted within two regular academic semesters (30 credits) of the student's initial matriculation.

See "Advanced Placement."

National Testing Agencies

The University will grant credit to students who obtain satisfactory grades in specific subject examinations developed by the Advanced Placement Program (AP), International Baccalaureate Program (IB), and College Level Examination Program (CLEP). Students who enter the University with AP, IB or CLEP credit will have that credit evaluated in conjunction with the guidelines established for granting transfer credit. Matriculated traditional undergraduate students may not pursue further CLEP credit while enrolled at the University. Students in Continuing and Professional Studies should check with the Office of Continuing and Professional Studies for current CLEP guidelines.

In cases where several CLEP examinations have been taken, credit from the subject examination will be assigned before credit from the general examination. Credit assigned from successful completion of the general examination may not be utilized for free electives or upper-division degree requirements.

The University awards credit for the Higher Level International Baccalaureate examinations on a case-by-case basis if students have achieved a score of 5 or higher. No credit will be awarded for Subsidiary level examinations.

See "Advanced Placement."

Philadelphia University Challenge Examinations

Students who desire credit for courses taken at non-accredited institutions, for industrial/work experience or for other appropriate life experience may arrange for a challenge examination. If the subject is not covered by the national testing agencies listed above, a student may receive credit for courses offered by the University by making arrangements for an examination to be given by the school offering the course. Satisfactory evidence of adequate and appropriate preparation must be presented before the examination is prepared. If it appears that the student has adequate preparation, the student pays a fee, presents the receipt to the school and takes an examination. The school will send the Office of the Registrar the receipt for the examination fee along with written notification of a passing grade for the examination. Only one examination will be allowed for any one course. Students are ineligible for a challenge examination if they have previously enrolled in the same course at Philadelphia University. See "Financial Information."

Credit/No Credit Option

Students are allowed to take up to four courses during their enrollment in a bachelor's degree program on a "Credit/No Credit" (CR/NC) basis, not counting any CR/Internship course.

Any course may be taken on this basis except required courses offered by the School of Science and Health and in the School of Liberal Arts (WRTG-2XX, and COLLST-499 Contemporary Perspectives).

To obtain credit, students must earn a "C-" or better in the course. The grade point average will not be affected whether

credit is received for the course or not, except in certain cases where the option is used to repeat a course.

Students who elect to take a course on a CR/NC basis must notify the Office of the University Registrar on the proper form by the last day for schedule changes. For the fall and spring semesters, the last day to change a course from graded to credit/non-credit is the fifth school day of the semester. At that time, the decision becomes final.

Please consult with your academic advisor and the Office of the University Registrar to suggest when this option is/is not an advisable choice.

See "Repeating Courses," and "Schedule Changes"

Declaring a Major

Students at Philadelphia University registered as Undeclared are urged to declare a major after completing 30 credits. However, students are required to declare a major after completing 60 credits (30 credits in residence for transfer students). Students who are unsure about their choice of major should take advantage of majors advising at the Learning and Advising Center.

Disability Services

The Office of Services for Students with Disabilities provides, on an individual basis, reasonable accommodations to students with hearing and visual impairments, mobility impairments, learning disabilities and attention deficit disorders, chronic illnesses and psychological impairments that may affect their ability to fully participate in program or course activities or to meet course or curricular requirements. This office functions to determine qualified disability status and to assist students in obtaining appropriate and reasonable accommodations and services. Accommodations may include, but are not limited to, testing or classroom adjustments, tutoring and use of adaptive equipment. Services provided are designed to encourage independence and self-advocacy, backed by a comprehensive system of supports.

Students should contact the Office of Services for Students with Disabilities for additional information, guidelines and procedures at 215.951.6830.

Division Change

Students wishing to transfer to Continuing and Professional Studies to finish their degree requirements should complete a Continuing Studies Application for Admission form available at that office in The Tuttleman Center. If a student will ultimately be certified for graduation by the undergraduate division, academic advising will remain the responsibility of the day-division advisor.

Students wishing to transfer to the undergraduate division to finish their degree requirements should complete an Application form available at the Office of Admissions. If the director of Student Services will ultimately certify a student for graduation, academic advising will remain the responsibility of that office.

Students who have been dismissed from the University for academic reasons must apply to the appropriate division and be readmitted by the Undergraduate Academic Standards Committee before registering for additional courses at the University.

See "Academic Standing."

Double Degree/Second Baccalaureate Degree

Students who have received one baccalaureate degree from Philadelphia University and who wish to seek a second such degree in another curriculum are required to complete all the additional course requirements and fulfill a second residence requirement of a minimum of 33 credits. At least 12 credits must be in the new major. Students interested in this possibility should consult with their faculty advisor or the Office of Continuing and Professional Studies for further information.

Double Majors

Students wishing to earn a double major may do so by meeting all requirements for one "primary" major and completing all required courses in the "secondary" major. Students must complete at least twelve credits in residence in both the primary major and the secondary major. The same course(s) may not be used to satisfy residency requirements in both majors.

Students may utilize credits allocated to a minor or to free electives in the "primary" major to satisfy requirements for the "secondary" major. Students selecting a double major will be exempt from any mandatory minor requirements that would otherwise apply. The combined requirements may necessitate completion of a greater total number of credits than either major taken separately.

Students wishing to pursue a double major should discuss their options first with their faculty advisor and then with a faculty advisor from the "secondary" major. A list of required courses for the "secondary" major, approved by both advisors, must be added to the advising file for certification purposes.

Students must also submit the "Approval of Double Major" form, signed by the certifying officer of the school in which the "primary" major is being completed, to the Office of the University Registrar so the student's transcript and degree audit will record completion of the two majors' degree requirements. Only one baccalaureate degree will be conferred.

Dropping Courses

Schedule changes, (Drop/ADD) including changes that entail dropping a course or a specific section of a course and replacing it with another section of the same course or a completely different course, must be made within five school days after the start of a semester (a corresponding period of time in summer sessions). Freshmen will need to submit a "course withdrawal/course registration form" signed by an

advisor to the registrar's office in order to make changes to their semester schedules. Freshmen also must make changes within the first five days of the semester. No notation of the course dropped will appear on a student transcript if the drop is completed during the first five school days of the semester.

Courses may be dropped after the schedule change deadline, and within 10 weeks of the start of the fall or spring semester, however a grade of "W" will appear on the student transcript. After the first five school days of the semester, all students must submit a signed Course Withdrawal form to the Office of the University Registrar or the Office of Continuing and Professional Studies in order to drop a course during this 10 week period. If the student fails to officially withdraw from a course within this period, a grade of "F" will appear on their transcript and affect GPA calculations. Specific deadlines for dropping special accelerated courses or summer session courses published by the Office of the University Registrar and the Office of Continuing and Professional Studies will determine the drop period for summer and all CPS sessions.

In exceptional cases a student may request special permission from a University official designated by the Provost to drop a course after the standard "drop" period. In such cases a grade of "W" will appear on the transcript for that course and will not affect GPA calculations.

Fundamentals courses may not be dropped.

See "Schedule Changes," and "Leave of Absence/ Withdrawal Policy" and "Refund Policy."

Final Examinations

Final examinations are scheduled during a one-week period at the end of each semester. Examination periods are two hours in length.

The University has a policy prohibiting the administration of any final examinations during the last "instructional" week of the semester, in place of an examination during the scheduled final exam week.

No student is required to take more than three final examinations during a given day. If, because of this policy, it is necessary for a student to have any examinations rescheduled, arrangements must be made with the university registrar no later than a week in advance of the start of exam week.

If a student must miss a final examination, notice should be given to the course instructor or, if the instructor is unavailable, to the school administrative assistant (or the Office of Continuing and Professional Studies) in advance of the scheduled exam.

Fundamentals Courses

The Fundamentals courses include WRTG 099 (Fundamentals of College Writing), MATH 099 (Fundamentals of College Mathematics) and READ 099 (Fundamentals of College Reading and Study Skills). English as a Second Language (ESL) sections of WRTG and READ 098 are also available.

Placement into Fundamentals courses is determined by SAT scores and for Writing, a comprehensive exam, which is administered during University S.T.A.R.T. sessions.

For purposes of calculating the student's course load, each of these courses counts as three credit hours. However, they will not count as credits toward graduation. Fundamentals courses may not be used to satisfy the residency requirement or for use as free electives.

Students must complete these courses within three semesters of matriculation. Part-time students who are required to take Fundamentals courses must complete these requirements within the first 30 credits for which they register. All Fundamentals courses must be completed in residence at the University.

Students must earn a "C"(2.00) or better to receive credit for Fundamentals courses. Students who earn less than a grade of "C" must repeat that course in the next semester in which it is offered. Grades in Fundamentals courses enter into the calculation of a student's grade point average.

Students who are required to take Fundamentals of College Writing must pass that course before taking any other writing or literature courses. Students who are required to take Fundamentals of College Mathematics must pass that course before taking any other mathematics course and certain science courses. Students may not withdraw from a Fundamentals course. The director of the Learning and Advising Center must approve any exceptions in writing. Students who fail to complete a Fundamentals course successfully after two registrations may not register for that course a third time without the permission of the director of the Learning and Advising Center.

Students who fail to complete all Fundamentals course requirements within the prescribed time will be dismissed from the University in accordance with the dismissal procedures outlined by the Undergraduate Academic Standards Committee. A successful appeal may permit students to enroll only in Fundamentals courses for one subsequent semester.

Grade Changes

All grades become part of the permanent records of the University at the end of the tenth week of the semester (a proportional period of time in summer sessions) subsequent to that for which the grades were awarded. Following that time, no grades may be changed without the written approval of the dean of the school offering the course and a University official designated by the Provost.

This in no way affects the institutional policy regarding the grade of "Incomplete."

Grade Point Average

The unit of credit is the semester hour.

Quality points are assigned to letter grades according to the following scale:

A	=	4.00	C	=	2.00
A-	=	3.67	C-	=	1.67
B+	=	3.33	D+	=	1.33
B	=	3.00	D	=	1.00
B-	=	2.67	F	=	0.00
C+	=	2.33			

The quality points earned are computed by multiplying the numerical value of the letter grade by the number of semester credit hours for the course. The Grade Point Average (G.P.A.) is determined by dividing the total quality points earned by the total semester credit hours attempted. A sample calculation follows:

Course Number/Name		Credits	Letter	Quality Point Value	Quality Points Earned
WRTG-101	Writing Seminar I	3	B	3.00	9.00
MATH-111	Calculus I	4	C+	2.33	9.32
TEXT-101	Survey of the Textile Industry	3	A-	3.67	11.01
ENGR-104	Introduction to Computing	3	F	0.00	0.00
CHEM-103	Chemistry I	4	D	1.00	4.00
PE-25	Stress Management	.5	CR	—	—

Grade Point Average (GPA) =
Quality Points Earned ÷ Credits Attempted = 33.33 ÷ 17 = 1.96

Grade Reports

Academic reports (grades) are available to students at the end of each semester through Web Advisor accounts.

Grading System

The University uses a plus/minus grading system. The passing grades for the University are "CR," "A," "B," "C" and "D." A grade of "F" signifies that the course has been failed.

Grade descriptions are listed below:

A = Excellent.
Awarded to students who demonstrate an excellent understanding of the subject matter, and who have achieved outstanding results in fulfilling the course objectives.

B = Above Average.
Awarded to students who demonstrate above-average understanding of the subject matter, and who show consistent achievement beyond the usual requirements of the course.

C = Average.
Awarded to students who perform at the satisfactory level, and demonstrate acceptable levels of understanding of the subject matter commensurate for continued study in the next successive course.

(Note: To graduate, a student must have a cumulative grade point average of 2.00 or better.)

D = Below Average.
Awarded to students as evidence of less than average understanding of the subject matter and of weak performance. It indicates insufficient preparation for students to enroll in any course reliant upon an acceptable level of understanding of the particular subject matter. A grade of "D" (1.00) represents a minimum grade necessary to receive credit for the course.

F = Failure.
Awarded to students showing poor understanding of the basic elements of the course.

I = Incomplete.

The "I" grade is used to indicate that a student has missed some portion of the required work because of illness or other emergencies beyond their control. It indicates that the student has agreed in writing to complete the missing requirements within the prescribed time limit, (the end of the 4th week of the new semester) and, when they do, will probably receive a grade of "D" or better for the course. If there is no way that the student could possibly pass the course, then it is inappropriate to assign an "I" grade. Both the student and faculty member assigning the grade must sign the "Agreement for the Completion of Work Outstanding" and submit the agreement to the Office of the University Registrar. Copies of this form are available in the schools deans' offices and the Provost's office.

Students who earn an "F" or "NC" grade are required to repeat the same course during the next term in which it is offered, if the course is the only course that will satisfy the requirement, or they wish to have the failing grade replaced on the transcript.

See "Auditing a Course," "Grade Point Averages," "Credit/No Credit Option," "Fundamentals Courses," "Internship Programs," "Physical Education" and "Repeating Courses."

Graduate Courses for Undergraduate Students

Undergraduate students who have earned a minimum of 90 credits and whose cumulative grade point averages are 3.00 and better may enroll in a graduate course with the permission of the respective graduate program director.

Graduation Application Procedures

Students nearing graduation must review graduation requirements with their advisor or their program's graduation certification officer at least two semesters before they plan to graduate. Students then must apply on line for graduation and they submit a preliminary certification form to the Office of the University Registrar. Deadlines are April 15 for a candidate for August or December graduation, and October 15 for a candidate for May graduation. An August graduate may seek permission to walk at the May Commencement event.

Instructions can be found on the Registrar's page on the web: www.philau.edu/registrar

Graduation Requirements

Certification for a baccalaureate degree may be processed by either the Undergraduate Program or the Continuing and Professional Studies Program, depending on where the majority of the candidate's credits for the degree were earned. Certification for an associate degree and degree-completion programs administered through the Office of Continuing and Professional Studies will be conducted by that office.

The University holds a Commencement ceremony once each year during the month of May. Students who complete all requirements for graduation by the end of the spring semester may participate in the Commencement ceremony. Degrees are awarded at the end of the semester in which all requirements are met. Students who have completed degree requirements in August or December may participate in the Commencement ceremony the following May.

To graduate, students must fulfill the University's residency requirements, pass all required courses and have a cumulative grade point average of 2.00 or better. A candidate for graduation who earns a cumulative grade point average of 3.60-3.79 will be graduated "cum laude," or "summa cum laude" if their final cumulative average is 3.80 or better.

Any student who has financial obligations to the University is ineligible for graduation until such obligations have been fulfilled.

Participation in the Commencement ceremony does not necessarily represent conferral of the degree.

See *"Residency Requirements."*

Honors Program

The Honors Program welcomes highly motivated students who demonstrated academic excellence in high school or in the first and second semesters at Philadelphia University.

Participants in the Honors Program enjoy advanced levels of inquiry, smaller class sizes and seminar-style instruction in Honors sections of College Studies courses. In many cases, Honors classes offer opportunities to take advantage of co-curricular experiences in the form of field trips, guest lectures, etc., that help interpret the course material. In addition, Honors Program students can arrange extended borrowing privileges at the University's library.

Honors Program students are required to complete seven Honors courses. Exciting options for Honors credit range from the traditional Honors courses to individualizing the experience while studying abroad, taking on a leadership role in a community-service project or tailoring a research project. The senior year capstone course, Contemporary Perspectives, must be taken at the Honors level. In special cases, students can arrange a guided project in courses in their major (upgrades). Honors course offerings are listed each semester in the University's master schedule. Students enrolled in Honors courses must take the course for a letter grade. The "pass/fail" or CR/NC option is not available for Honors courses.

Enrollment in Honors courses is designated on the University transcript and remains part of the student's permanent academic record. Honors Program students' academic records are reviewed periodically to assure that participants are making acceptable progress toward graduating with the designation of Honors Program Scholar. Students successfully completing all Honors Program requirements with a minimum GPA of 3.3 receive special recognition at graduation, the Honors Medallion and the Honors Certificate.

Human Subjects Policy

Faculty, staff and students at Philadelphia University are occasionally involved in the conduct of research involving human subjects. Any research conducted under the auspices of Philadelphia University must protect the rights of human subjects and requires approval from the University's Institutional Review Board (IRB). An IRB is a committee of peers that examines human subjects research proposed by Philadelphia University faculty or students for ethical concerns and determines: 1) the rights and welfare of the individual or individuals involved; 2) the appropriateness of the methods used to secure informed consent; and 3) the risks and benefits of the investigation. The IRB approves, denies or recommends changes to the proposed research to assure the protection of the rights of human subjects.

The policies and procedures associated with the review and approval of research involving human subjects at Philadelphia University are established to be consistent with current federal guidelines. The complete text of the "Human Subjects Policy" is published in the University's Student Handbook.

Independent Study (IS)

In addition to earning credits through formal courses, students may earn credit through a supervised learning experience in which the student plays a significant part in determining the learning objectives and anticipated outcomes. IS provides students a unique opportunity to work closely with a faculty mentor, while studying a subject of their own choice. This learning experience, however, should not duplicate material delivered within an existing catalog course. Only students who are prepared to devote considerable time and effort should undertake IS. Planning of the scope and structure of this learning experience should begin in the semester preceding enrollment, not during the term of the IS.

Before registering for the IS, students must secure the written approval of a faculty member who has agreed to supervise the work. Approval of IS can be expected if the faculty member has the time and the interest to supervise the student's work and if the supervisor and the student can agree in advance on a suitable subject for independent study. Faculty members may choose which applicants they wish to supervise. The decision will be determined by time available, by their professional interests and by their estimate of an applicant's prospects for doing suitable work.

Students plan specific activities and goals with the help of the cooperating faculty member. They must then receive approval for their plans from the school dean. The Independent Study agreement form is available from the registrar and from the deans' offices. The student is responsible for bringing the completed form to the registrar for official enrollment purposes.

Requirements
(additional requirements may exist for each school)

- A student must have completed 15 credits in residence with a minimum grade point average of 2.50 prior to enrolling in independent study.
- Registration must be completed before the end of the (add/drop) period allowed for schedule changes.
- A student may select no more than one course by independent study during a single term.
- A maximum of four courses may be taken by independent study in a degree program.
- A student may not select more than two IS courses under the sponsorship of the same faculty member.
- At the end of the term, students are required to present their work to faculty and student representatives of the University.

See "Course by Appointment."

Information Literacy

Philadelphia University is committed to graduating students who are effective and creative problem solvers, critical thinkers and creators of new knowledge, team players and lifelong learners. Philadelphia University students learn to be "wise information consumers," and are empowered to act as both competent employees and informed citizens of the modern global village.

To help achieve this goal, Philadelphia University has developed four institution-wide Information Literacy Outcomes for its students:

- Students will be able to identify and articulate their information needs.
- Students will develop a knowledge base regarding the major formats, delivery mechanisms and organizational structure of information resources.
- Using this knowledge base, students will be able to identify and apply the resources and tools that are most appropriate for specific information problems.
- Students will demonstrate the ability to critically and ethically apply information.

The University's Information Literacy Initiative, administered through the Paul J. Gutman Library, is a collaborative, campus-wide effort involving classroom faculty, librarians, the University Writing Program, technology and computing support, and University administrators. Coordinated by the Information Literacy Task Force of the Undergraduate Education Committee, the initiative explores ways to incorporate Information Literacy components into individual courses and assignments, how to assess student achievement of targeted Information Literacy outcomes, and how to support students and faculty throughout the process.

International Students

International students should consult with the director of International Student Programs concerning specific policies applicable to them. The director of International Student Programs offers assistance to these students in many areas, such as providing orientation assistance, academic advising assistance, referral to language classes as a result of placement testing and administrative liaison with governmental agencies.

All international students, including transfer students, must report to the International Student Programs office, located in the Student Center, to certify their registration and to provide a local address.

The office is open on a walk-in basis and by appointment.

Leave of Absence/Withdrawal Policy

The deadline to withdraw or take a leave of absence from the University without any record of courses or grades from the current semester is the same as the last date to drop a course, which is at the close of the fifth school day of the spring or fall semester.

Students, who need to leave the University after the deadline due to serious circumstances, must seek permission from a University official designated by the Provost for late withdrawal or leave of absence. Students who receive permission will receive "W" grades. These grades will not affect G.P.A. calculations.

When a student withdraws or takes a leave of absence during a semester, the effective date of the leave of absence/withdrawal will be determined when the Office of the University Registrar receives the completed form. Students must check with the Students Accounts Office to determine their financial responsibility for tuition and other fees, such as housing and meal plans.

Any student who is in good academic standing is eligible to take a leave of absence from the University for up to one calendar year. A leave of absence allows students to re-enter the University within one calendar year from the date on which the leave was approved without the need for completing a new application.

The leave of absence also enables the student to retain degree requirements from the catalog under which they originally matriculated. Any student may, however, choose to re-enter under requirements in the current catalog. A student whose leave of absence extends beyond two full academic semesters must complete a new application to re-enter the University. Graduation requirements will be determined from the catalog in effect on the date of acceptance for re-entry by the Office of Admissions or the Office of Continuing and Professional Studies.

Students who are not in good academic standing are allowed to apply for withdrawal, but not leave of absence. Under these circumstances, the Undergraduate Academic Standards Committee must approve any application for re-

entry before a student registers for any additional courses at the University.

For information about the financial aspects of the leave of absence/withdrawal policy, please refer to the "Refund Policy" included in the "Financial Information" section of the catalog.

Overload Charges

If a full-time undergraduate student is registered for more than 18.5 credits he/she will be charged at the overload per credit rate for all credits in excess of 18.5 in addition to the comprehensive tuition rate.

Part-Time Tuition Charges

Part-time students (taking fewer than 12 semester credit hours) are charged at the applicable per-credit rate.

Physical Education and/or Service Learning

Undergraduates are required to successfully complete two semesters (one credit total) of physical education, (PE) or a one credit service learning course, SERV 101.

The University offers a variety of opportunities for students to earn PE credits including traditional instruction, varsity sports or the opportunity to participate in the University's extensive intramural program. Additional physical education courses may be taken for elective credit.

SERV 101 may also be taken in up to 4 semesters for students to earn free elective credit as well as the service learning credit. Grades will be reported as either "Credit" or "No Credit."

Students, who enter the University with an associate or bachelor's degree, or 54 or more transfer credits, are exempt from this requirement.

See "Attendance."

Placement Testing

S.T.A.R.T.

(for entering undergraduate students)

The University administers a placement test in writing for entering first-time undergraduate day-division students, including international students, during summer S.T.A.R.T. sessions. Students who have earned an Associates Degree or who have been enrolled in another institution for thirty continuous credits or who have earned college credit for Writing Seminar 1 are exempted from writing placement testing.

The University places first-time undergraduate day-division students in mathematics courses according to math SAT scores, major, as designated in the official University acceptance letter, as well as responses to a self-screening trigonometry questionnaire. Students who have earned AP credit in mathematics will be placed in mathematics courses according to the table listed in the Credit by Examination section of this publication. Students who have received transfer credit in mathematics, will be placed considering these credits in addition to the other stated criteria.

First-time undergraduate day-division students verbal SAT score will determine their placement into Fundamentals of Reading and Study Skills. (READ 099) The University will administer a reading placement exam for International Students who have not taken the SAT to determine their placement into Fundamentals of Reading (READ-ESL 098).

See "Credit by Examination," "Transfer Credit," "International Students," Fundamental Courses."

Foreign Language Placement Testing

Students who plan to enroll in French, German, Italian, Japanese or Spanish and who have studied that language for more than two years in high school, or the equivalent level elsewhere, must take the Foreign Language Placement Examination before enrolling in a foreign language course.

Students who have never studied a language or who have had two years or less of the language in which they want to enroll must sign a Foreign Language Placement Examination Exemption Form attesting to this.

It is recommended that students who are native speakers of French, German, Italian, Japanese or Spanish enroll in a language other than their own. Students, however, do have the option of taking challenge examinations to meet this requirement. If after taking the Foreign Language Placement Examination, it appears that the student has adequate preparation, the student may pay a challenge-examination fee, present the receipt to the School of General Studies and complete a challenge examination. Challenge examinations can be taken in French, German, Italian, Japanese or Spanish. Currently enrolled students may not take CLEP examinations for foreign language course credit. Advanced placement credits and transfer credits for appropriate foreign language courses taken at other institutions will be accepted.

See "Advanced Placement," "Challenge Exam," and "Transfer Credit."

Re-entry to the University

A student who wishes to re-enter as a traditional undergraduate student must submit a Re-entry Application to the Office of Admissions. A student who wishes to re-enter as an accelerated program student must submit a Continuing Studies Application form to the Office of Continuing and Professional Studies.

Students who have enrolled at another college or university since their departure from Philadelphia University must present official transcripts from those schools for consideration in re-entry.

Upon receiving their re-entry letter, students must meet with the director of the Learning and Advising Center (day division students) or the director of Student Services (evening students) prior to registering for class.

The Undergraduate Academic Standards Committee will review any application for re-entry from students who were not in good standing when they withdrew (less than 2.00

GPA) or were dismissed from Philadelphia University. During the academic year, the Committee only meets once a month so students should allow adequate time for processing. The subcommittee will also consider applications for re-entry for the fall semester during late May, so students wishing to be evaluated during this summer meeting should submit their requests for re-admission no later than May 15. The Undergraduate Academic Standards Committee must approve any application for re-entry before a student, not in good standing, is allowed to register for additional courses at the University. The student is placed on probation during the first term of re-entry.

See *"Academic Standing."*

Refund Policy

Students are considered in attendance until the registrar receives formal written notice of withdrawal.

Tuition refunds will be made to traditional undergraduate programs and online students withdrawing from the University according to the following schedule: 80 percent during the first week of classes, 60 percent during the second week, 40 percent within the third week and no refund thereafter.

Tuition charges for Continuing and Professional Studies students who withdraw from a course will be refunded on the following schedule:

100 percent prior to first class meeting,
80 percent prior to the second class meeting,
60 percent prior to the third class meeting,
40 percent prior to the fourth class meeting, and no refund thereafter.

For students taking summer courses, there is a 100 percent refund for courses dropped prior to the first class meeting, 80 percent prior to the second class meeting, 60 percent prior to the third class meeting and no refund thereafter.

Registration

Students are expected to register on the published dates for registration. Fees are payable in advance or upon the registration date. Students will receive grades for all courses for which they are registered.

Repeating a Course

Students who earn an "F" or "NC" grade are required to repeat the same course during the next term in which it is offered, if the course is the only course that will satisfy the requirement or they wish to have the failing grade replaced on the transcript.

A student will be allowed to enroll in a course for a second time without conditions, regardless of the grade earned in the course previously.

A student will be allowed to re-enroll for a course for a third time when they present the university registrar with written approval signed by their academic advisor.

When a course is repeated, the original grade will remain on the transcript, but will be removed from the calculation of the grade point average. The new grade will enter into the calculation of the grade point average — even if it is lower than the grade originally earned. Grades of "NC" or "AUDIT" will not replace a former grade in a repeated course.

A course failed at Philadelphia University may not be repeated at another institution without prior written approval by a University official designated by the Provost.

The most recent grade earned is also the one applied to graduation requirements, even if it is lower than the original grade. Any successfully completed course can be applied to graduation requirements only once, no matter how many times it may be taken and passed.

Residency Requirements

To be eligible for graduation with a degree from Philadelphia University, a student must earn a specified minimum number of credits in residence [excluding Fundamentals courses], included in which are six semester credit hours in College Studies courses and 12 semester credit hours in the major core. If a student is pursuing a double major, a second 12 semester credit hours must be completed in residence in the second major core.

To be eligible for graduation with a **Bachelor of Science** degree:

- Traditional undergraduate students must earn at total of at least 60 semester credit hours in residence at Philadelphia University; and
- Continuing and Professional Studies students must earn a total of at least 33 semester credit hours in residence at Philadelphia University; and
- Students enrolled in the B.S./Health Services Management degree-completion program must earn a total of at least 33 semester credit hours in residence at Philadelphia University.

In the case of transfer from one division to the other, the higher residency requirement will apply.

To be eligible for graduation with an **Associate in Science** degree [available only through the Division of Continuing and Professional Studies], students must earn a total of at least 20 semester-credit hours in residence at Philadelphia University.

Students who need assistance in determining eligible courses in the major core should consult the certifying officers in their respective Schools or division.

Credits earned through challenge exams are applied toward residency requirements.

Unless the Office of Academic Affairs approves a specific exemption, students must be in residence during the semester immediately preceding the awarding of the degree.

Responsibility to Keep Informed

Students are ultimately responsible for their own progress toward graduation; they are expected to use the catalog as a reference handbook and to familiarize themselves with the principal policies and procedures contained in it. The online version of this catalog (www.PhilaU.edu/catalog) will be updated. Students are responsible for monitoring the Web site concerning changes to policies and procedures that might affect their progress toward graduation and regularly check campus mailboxes and Philadelphia University email as a means of keeping informed.

Retention of Student Work

Projects, examinations and assignments completed by students in their required courses may be selected to become part of the University's collection for purposes of exhibition, assessment and/or accreditation. Student work not selected for that purpose is generally stored for only 30 days into the following semester.

Schedule Changes

Schedule changes, including changes that entail dropping a course or a specific section of a course and replacing it with another section of the same course or a completely different course, must be made within five school days after the start of a semester (a corresponding period of time in summer sessions). Freshmen will need to submit a drop/add form signed by an advisor to the registrar's office in order to make changes to their semester schedules. Freshmen also must make changes within the first five days of the semester.

Students who decide to change a course from graded to credit/non-credit status must do so within the time period for schedule changes, i.e. during the first five school days of each fall and spring semester. Students who elect to Audit a course must complete the "Request for Permission to Audit a Course" form and turn it in to the Registrar's Office by the last day for schedule changes.

See "Dropping Courses" and "Refund Policy." and "Credit/ No-Credit"

Student Status Based on Completed Credits

Students are generally considered to be classified as freshmen during the first two semesters of full-time study in the University, or as long as they are working toward the completion of their first 30 credits toward the degree. Sophomores are generally considered to have completed more than 30 credits, and to be working toward the completion of up to 60 credits toward the degree. Juniors generally fall in the range of 60 to 90 credits. Students who have completed 90 or more credits are generally classified as seniors.

Time Limit to Degree and Obsolete Credits

Undergraduate students are expected to complete all degree requirements within 10 years from the date of initial matriculation. Students who do not meet this requirement will have their course work, including Philadelphia University credits and previously evaluated transfer credits, reviewed by the appropriate program(s) to determine the currency and appropriateness of courses toward a current degree. As a result of this evaluation, credits may be determined to be "outdated" and removed as earned credit toward the completion of degree requirements. Outdated credits will not be used in the calculation of the cumulative grade point average. Students should note that in some cases, while a particular course may still be offered, a program can determine that material covered by the course has changed substantially enough to determine the original course is outdated. Students are eligible to take a challenge exam for any outdated courses affected by the review process described above.

Students seeking re-entry to Philadelphia University beyond two full academic semesters are subject to the graduation requirements from the catalog in effect at the time of re-entry.

Transcripts

All transcript requests must be submitted to the Office of the University Registrar and must include the requester's signature. **The fee for a transcript is $5.00 per copy, $10 for same day copy, and $20 for an overnight copy which must be received by 3pm.** Transcript requests are payable by cash in person, check made payable to Philadelphia University, or credit card (Master card and Visa) Payment must be received at the time of your request.

Unofficial copies of the transcript are available to currently enrolled students through their Web advisor account.

Requests for a transcript may be made by completing the appropriate form obtained from the Office of the University Registrar or also on the Registrar webpage at PHILAU.EDU/ REGISTRAR or the Office of Continuing and Professional Studies. Alternatively, a request may be mailed or faxed to the University Registrar containing the following information:

- Student's full name (including maiden, or other name, if applicable)
- Social Security Number (or student identification number)
- Date of birth
- Last term attended
- Indicate "Hold for Degree or Grades (when a transcript is ordered before the End of term),
- Agency, college or individual to whom transcript is to be sent
- Complete mailing address,
- Student's signature (authorization to release the records)
- Payment Method

E-mail Request: Must have scanned signature and credit card information. (registrar@philau.edu)

- Card number and expiration date.

Faxed Request: Transcripts requested by fax must have credit card information.

- Card number and expiration date.

To Pay by credit card:

- Please include Card number and expiration date.

To Pay by check:

- Make check payable to Philadelphia University. Please note that if check is returned due to non-sufficient funds, you will be charged a $25 fee and a hold would be put on your account.

To Pay by Cash:

- All payments by cash must be received by 4 p.m. **(Cashier's Office)**
- A student having financial obligations to the University will not be issued a transcript.

See catalog "Unadjusted Indebtedness."

Transfer Credit

Transfer credit for coursework at a previously attended institution is generally awarded to the entering transfer student by the Office of Admissions or the Office of Continuing and Professional Studies prior to the student's initial matriculation at this institution. Transfer credits earned prior to matriculation at Philadelphia University must be submitted within one semester of matriculation.

Undergraduate students should have transcripts sent directly to Admissions. Continuing and Professional Studies students should have transcripts sent to the Office of Continuing and Professional Studies.

The University reserves the right to remove previously awarded transfer credits if a student does not illustrate a proper knowledge of the course material, or if the student does not maintain a satisfactory average.

Credit is granted only when the student has earned a grade of "C-" or better in a given course. The University may also consider the age of transfer courses when assigning credits to degree requirements.

Any student who has questions concerning the transfer-credit evaluation or wishes to appeal a course-equivalency decision prior to matriculation at Philadelphia University should meet with either Undergraduate Admissions or Continuing & Professional Studies. Any student with questions about their transfer credit evaluation after the start of their first semester should consult with Learning and Advising and the Office of the University Registrar.

See "Residency Requirements" and "Credit by Examination."

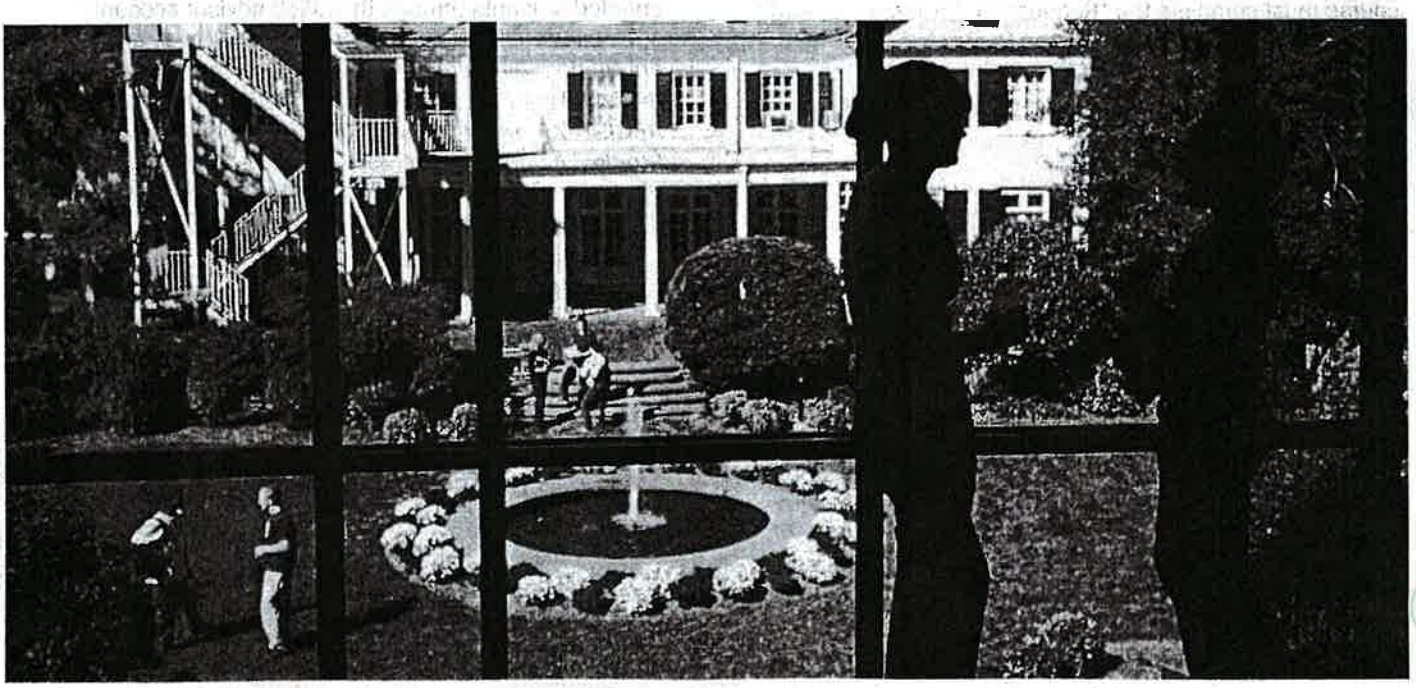
Unadjusted Indebtedness

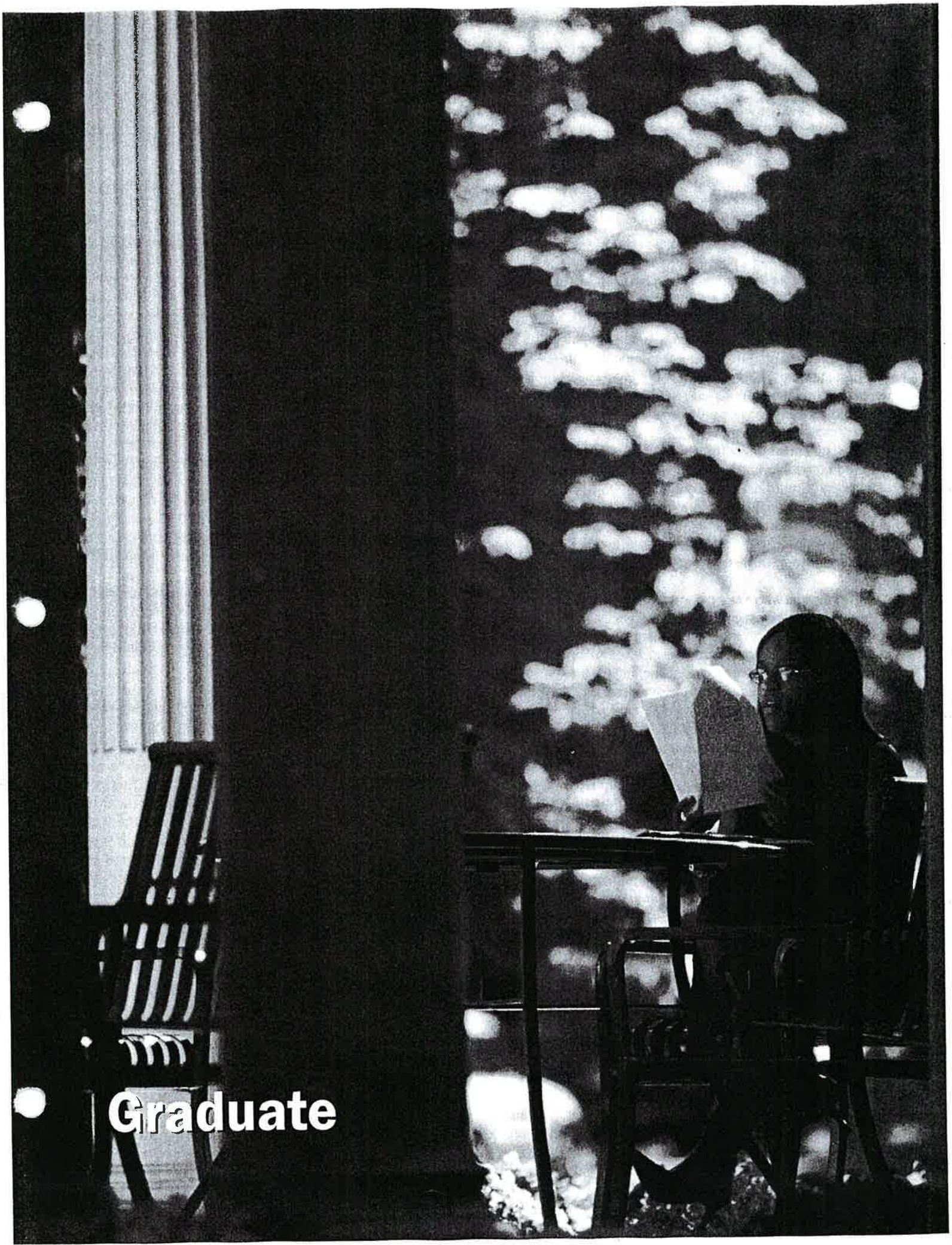
No diploma, certificate, official grade report, transcript or recommendation will be granted to any person who has any unadjusted indebtedness to the University.

Withdrawal from the University

It is absolutely essential that students follow the proper withdrawal procedure in order to be assured of an honorable dismissal from the University. Students are considered in attendance until this formal notification is completed and returned to the University Registrar. Withdrawal and leave-of-absence forms are available in the Office of the University Registrar. To return to the University after withdrawal, see the section on "Re-entry to the University."

See "Leave of Absence/Withdrawal Policy."




Graduate

Graduate Admissions

For information on graduate degree programs, contact the ***Office of Graduate Admissions*** *215.951.2943 gradadm@PhilaU.edu www.PhilaU.edu/graduate*

Accreditation. *Graduate programs at the University are approved by the Department of Education of the Commonwealth of Pennsylvania and accredited by the Middle States Association of Colleges and Secondary Schools.*

Graduate students are taught by a faculty that includes both full-time professors and experienced industry professionals and practitioners. Their academic credentials and industry experience make them uniquely qualified to provide students with the knowledge to become successful professionals in their chosen fields.

Graduate classes average about 18 students and are offered in the late afternoon/early evening hours and occasionally on Saturdays. Some graduate programs offer courses during the day. Students may begin graduate coursework in the fall (August), spring (January) or summer (May and July) semesters. Some programs enroll students throughout the calendar year. Others are limited to one start-term per year.

Any individual who has or is about to receive a bachelor's degree from a regionally accredited university is eligible to apply. Graduate programs are designed to accommodate students from all undergraduate disciplines. The Admissions Committee admits those students who show the capacity and motivation to pursue a challenging graduate program.

For admission to the Ph.D. program in Textile Engineering and Science, please see page 288.

To apply, students must submit an application, official transcripts, recommendations (not required for programs within the School of Business Administration) and appropriate standardized test scores (not required for the M.S. in Digital Design or the M.S. in Disaster Medicine and Management). The standardized test requirement is waived for those students who hold a prior master's degree or who are C.P.A.s. Applications are accepted throughout the year for entrance in the fall, spring or summer semesters.

Note: International students may begin in fall and spring semesters only. Please refer to the graduate application for admissions procedures and instructions (see page 345).

International Students

Director of International Student Programs. *Located in The Kanbar Campus Center 215.951.2660*

The University welcomes applications for admission from qualified international students. Persons who have completed their studies outside the United States must present all post-secondary school credentials. Such credentials must include all studies completed to date, marks or examination results received, degrees, diplomas and certificates earned. International applicants must submit an evaluation of academic credentials. While World Education Services (WES) is Philadelphia University's preferred evaluator, any evaluation service accredited through the National Association of Credential Evaluation Services (NACES) will suffice. For a full listing of accredited evaluation services, visit www.NACES.org. Documents must be authenticated or certified and those not written in English must be accompanied by notarized English translations. Courses at the University are taught in English; therefore, all international graduate students are required to take English reading and writing placement tests before registering for any courses. Exceptions: (1) If applicants gave a TOEFL computer-based score of 233 or higher (577 or higher for paper based tests and 90 or higher for internet based tests), they will not be required to take the placement tests before registering for courses. The IELTS (International English Language Testing System) will be considered as a possible substitute for the TOEFL. International students may begin in fall and spring semesters only. M.B.A. and M.S. in Taxation students may begin in the summer semester.

After acceptance is granted, a $100 nonrefundable tuition deposit, an International Student Agreement Form (see page 347), a notarized Statement of Financial Support (see page 351) and official bank statements are required for the University to issue a SEVIS I-20 form.

English Language Requirement

Courses at the University are taught in English; therefore, all international graduate students are required to take English reading and writing placement tests before registering for any courses. Students who have earned a bachelor's degree (more than 100 credits in residence) at a United States college or university are exempt from this requirement. Also, if students have scored a 233 or higher on the TOEFL computer-based test (577 or higher for paper-based test; 90 or higher for Internet-based test), placement tests are not required. The tests are scheduled by the staff in the Learning and Advising Center a few days before classes begin. If students miss the scheduled testing session, it is their responsibility to report to the Learning and Advising Center for testing before registering for classes. Based on the results of the placement tests, students might be required to take undergraduate ESL courses in reading and/or writing. Students required to take ESL courses in reading and/or writing (READ-098ESL, WRTG-100ESL) must receive a minimum grade of "C" in these courses to graduate. If students need extensive English preparation, it is University policy to have students complete an intensive English program elsewhere before enrolling in graduate courses. Any fees associated with these courses are the responsibility of the student.

Acceptance Classifications

Students may be admitted to a particular graduate program under one of the following acceptance classifications:

- **Acceptance**
  Students who have met all admissions requirements with satisfactory performance as judged by the Admissions Committee are granted full acceptance. Full acceptance is granted only when the student's file is complete. A complete file includes: official copies of standardized test scores, official copies of academic transcripts, two recommendations and a completed application, unless otherwise noted by the Office of Graduate Admissions. The standardized test requirement is waived for those applicants who have completed a prior master's degree or are C.P.A.s.
  Note: Individual graduate programs may require additional admission materials for full acceptance.
- **Probationary Acceptance**
  Students with academic performance and/or test scores below the normally acceptable levels, but who show potential to be successful in a graduate program, may be granted probationary acceptance at the discretion of the Office of Graduate Admissions. Probationary students will be monitored closely by the program director during their first five courses. Failure to maintain a 3.0 or better GPA is cause for dismissal. After the completion of five courses, with a cumulative GPA of at least a 3.0, the probationary status may be removed at the discretion of the program director.
- **Conditional Acceptance**
  The University reserves the right to grant conditional acceptance to students who are missing some of their application materials but who otherwise meet admissions criteria. Conditional acceptance is limited to one semester, during which time the missing application materials must be submitted. Completed application materials will then be reviewed for full acceptance. Individual programs have different requirements for conditional acceptance, and some programs do not offer conditional acceptance. For programs within the School of Business Administration, conditional acceptance is only granted for those who have submitted all of their application materials, but who will need to complete business foundation courses before starting the program.
- **Non-Degree Acceptance**
  In certain circumstances, a student may wish to apply as a non-degree student. To apply for non-degree status, students need to submit an admissions application and a transcript indicating the possession of a bachelor's degree. A maximum of five graduate courses may be taken as a non-degree student. Courses taken under non-degree status may be applied to a degree program, but only after all admissions requirements are met and full acceptance is granted. Acceptance as a non-degree student does not guarantee full acceptance into a graduate program. To change from non-degree to degree status, students must complete all admissions requirements and apply for a change of degree status to the Office of Graduate Admissions. Non-degree acceptance is not available for all programs.
- **Readmission**
  Students who have not registered for two consecutive semesters (excluding the summer) must apply directly to the Office of Graduate Admissions for readmission. To be readmitted, students must be in good academic standing (minimum GPA 3.0) and must have no financial obligation to the University. Students must submit official transcripts from any institutions attended since leaving Philadelphia University. Readmission is also subject to available space in the program. Students should check with their program director upon re-entry to review any curriculum changes that may have occurred. Students may be asked to complete additional requirements to graduate.

Documentation

All documents received as part of the admissions procedure become the property of the University. They will not be duplicated, returned to the applicant, or forwarded to any other college, university, individual or agency. One copy of each of the transcripts will be released to the program director.

Statement of Philosophy of Graduate Education

Graduate education at Philadelphia University is an extension of the University's mission to offer professional education. Programs combine theory and practice, scholarly research and application to produce graduates who are prepared for both senior levels of responsibility and further graduate study, including the doctorate. Curricula are organized around foundation, core, concentration and elective courses, and are taught by both full-time faculty and practicing professionals. Curricula are based on measurable learning outcomes developed by University faculty and professional standards as defined by both professional associations and practicing professionals.

Financial Information

Billing questions? *Contact Student Accounts Office 215.951.5988 studentaccts@PhilaU.edu. Go to www.PhilaU.edu/business for more information.*

Cashier located on the first floor of Archer Hall: Monday-Friday academic hours 9:30 a.m. to 4 p.m.; 9:30 a.m. to 3:30 p.m. summer hours.

Expenses for 2009-2010

Tuition and Fees

Graduate tuition for the 2009-2010 academic year is $806 per credit hour. Credit by examination is $806 per course. Graduates are charged a $100 graduation fee. For full-time students enrolled in the Physician Assistant Studies Program the annual tuition is $31,608. Graduate students who take day or evening undergraduate classes pay the respective rate for these classes. The tuition is $668 per credit for students enrolled in the Midwifery Program only. An international student fee of $55 per semester will be charged to all graduate students who are not U.S. citizens or permanent residents.

All full-time students are encouraged to have health insurance coverage through their family policy, an individual policy or through the University-sponsored health and accident plan. Full-time graduate students may choose to be enrolled in the University-sponsored plan. Please note that enrollment in the University-sponsored plan requires students to also pay the semester Student Health Center fee. For information on the University-sponsored plan, please contact the Bursar's Office.

In adherence with immigration laws, international students are required to have health insurance coverage. Documentation of adequate health insurance must be provided to the Student Health Center by the second Friday in September for the fall semester and by the first Friday in February for the spring semester. If documentation of adequate health insurance is not provided, the student's account will be charged for the University-sponsored health and accident plan. Adequate health insurance must include coverage for the academic year, be licensed to do business in the United States, have a U.S.-based office and a U.S. telephone number.

Student Billing

Student Accounts Office *Located on the first and second floors of Archer Hall: Monday-Friday academic hours 9 a.m. to 5 p.m.; 9 a.m. to 4:30 p.m. summer hours.*

A student with a zero balance may register by one of the following options:

1. Remit payment in full
2. Deferred payment plan
3. Third Party Billing
4. Financial Aid

Deferred Payment Plan:

When using the Deferred Payment Plan, a student must submit one-third of the tuition fee prior to the start of classes. For the fall semester, the second payment is due in September and the third payment in October. During the spring semester, the student makes the second payment in February and the third payment in March. Interest will accrue at the monthly rate of one percent of the unpaid balance at the end of each month. The final installment payment will encompass the balance of all current charges. Periodic statements will be mailed.

Sample payment for one graduate fall course with a $2,418 tuition:

Course Fee	Amount Due	Due Date
1st payment	$806	August 2008
2nd payment	$806 +1%	September 2008
3rd payment	$806 +1%	October 2008

Third Party Billing:

Third Party Billing Authorization forms *are available online.*

Students whose employers offer tuition remission will need to submit this information to the Student Accounts Office by the first day of the semester. Students will sign a promissory note requesting that the University bill the student's employer and acknowledging that in the event of non-payment by the employer, the student will be responsible for all charges. Notification will be required each semester and a new promissory note signed for all new charges. The University strongly encourages students to enroll in the tuition insurance plan.

Financial Aid:

To use financial aid, be certain all the proper forms are completed and approved by the Financial Aid Office before registering for courses. Questions about financial aid are handled by the Financial Aid Office.

Tuition is due by the first day of each semester. Checks should be made payable to Philadelphia University, ATTN: Student Accounts Office, School House Lane and Henry Avenue, Philadelphia, PA 19144-5497, with the student's identification number clearly indicated on the face of the check. If the University receives a total of three non-sufficient funds (NSF) checks, all future payments must be made by cash, certified check or money order. Students may also use WebAdvisor to pay their account balances online by accessing the QuickPay link under the Billing Information section. Electronic checks and credit card payments are accepted. There is no fee to pay by electronic check. Credit card payments will be assessed a 2.75% service fee. Philadelphia University accepts American Express, Discover, and MasterCard for tuition payment.

Students who register after the deadline date specified in the registration process will receive a $25 late registration fee.

A student with a zero balance can obtain a tuition receipt after the financial add/drop period for the requested semester. This period usually runs four weeks into the semester. Please contact the Student Accounts Office to acquire a receipt.

Financial Aid

Financial Aid Office: *215.951.2940 financialaid@PhilaU.edu www.PhilaU.edu/financialaid*

Eligible students who are enrolled on at least a half-time basis (defined as at least 4.5 credits per semester) may apply for the Federal Perkins Loan, Federal Work Study, Federal Stafford Loan and Unsubsidized Federal Stafford Loans.

Types of Financial Aid Available

1. Federal Perkins Loan:
The Federal Perkins Loan program provides students with long-term, low-interest loans for educational expenses. The amount which can be made available to an applicant is based on the student's computed financial need and available funding. A student is eligible to borrow up to $5,000 during one academic year, but not more than $30,000 for undergraduate and graduate study. No interest is charged while you maintain at least half-time status. Repayment of the loan with interest at five percent per annum on the unpaid balance begins either six or nine months (based on the conditions of your promissory note) after you graduate or terminate your student status or become less than a half-time student. Repayment must be completed within 10 years after the interest begins to accrue.

Entrance Interviews

Federal law requires that every student who has obtained a Federal Perkins Loan through Philadelphia University must have an entrance interview. This can be done at www.aessuccess.org.

Exit Interviews

Federal law requires that every student who has obtained a Federal Perkins Loan through Philadelphia University must have the opportunity for an exit interview before leaving the University. This can be done online at www.aessuccess.org. The Financial Aid Office will contact the borrowers prior to their anticipated graduation dates to remind them of the necessity for an exit interview.

2. Federal Work-Study Program:
The Federal Work-Study Program is designed to stimulate and promote the part-time employment of students who have demonstrated financial need and who require the wages from the employment to pursue their studies. Students in the Federal Work-Study Program are employed by the University. Students are paid bi-weekly for the hours worked during the preceding pay period. Federal Work-Study is not deducted from the student's tuition invoice. Employment under the Federal Work-Study Program is awarded as part of your "financial aid package."

The Financial Aid Office will attempt to match you with a job based on your job application form which will be sent with your award letter. You must maintain satisfactory progress to renew your employment.

3. Federal Stafford Loan (Subsidized and Unsubsidized):
Loans are available to students enrolled for at least five credit hours per semester. You may borrow up to $8,500 per academic year subsidized and $12,000 per academic year unsubsidized, with annual limits totaling $20,500 per academic year. The distinguishing feature of the Unsubsidized Federal Stafford Loan is that the interest must be paid by the student, on a quarterly basis, while the student is enrolled in school.

The total amount outstanding that you may borrow for undergraduate and graduate study is $65,500 subsidized and $138,500 combined subsidized and unsubsidized.

The annual interest is a fixed rate of 6.0 percent for the subsidized loan and 6.8% for the unsubsidized loan. The government will pay this interest on the subsidized portion of the loan until six months after you have terminated your studies or dropped below half-time status, at which time you must begin repayment of the principal and interest. Interest begins to accrue upon disbursement on the unsubsidized portion of the loan.

There may be a three percent loan-origination fee deducted by the bank from the face value of the loan. In addition, your lender may deduct an insurance fee of up to one percent.

Under current regulations, all applicants must pass a "needs test" to qualify for this loan. A Free Application for Federal Student Aid (FAFSA) must be filed at www.fafsa.ed.gov prior to certification of a loan application by the school. You must maintain satisfactory progress to renew your loan.

Electronic Stafford Loan applications are available at www.aessuccess.org. Sample payment plans for Federal Stafford Loans are available at the Financial Aid Office.

Entrance and Exit Interviews

Federal law requires that when you borrow through the Federal Stafford Loan program for the first time, you must complete an entrance interview. In addition, when you graduate, withdraw, or enroll less than half-time, you must complete an exit interview. The entrance and exit counseling sessions can be completed online at www.aessuccess.org.

4. Graduate PLUS Loan:
The Graduate PLUS Loan allows the graduate student to borrow up to the calculated cost of attendance minus any other aid that the student is receiving. The interest rate is 8.5 percent. Applications and more information are available at www.aessuccess.org

Application Procedures

Philadelphia University requires that all students applying for aid file the Free Application for Federal Student Aid (FAFSA). This may be done online at www.fafsa.ed.gov. Financial aid, regardless of its source, may not be automatically renewable. It is your responsibility to obtain the application forms and submit them once each academic year.

Call the Financial Aid Office at 215.951.2940 with questions.

Graduate Assistantships

A limited number of graduate assistantships are available to selected qualified incoming graduate students. Assistantships are competitive and require full-time enrollment. Compensation includes tuition remission for nine credits for each of the fall and spring semesters and a stipend. Graduate assistants will receive "Guidelines for Graduate Assistantships" with their appointment letters. See pages 119-120 for information. Contact the Office of Graduate Admissions for more information.

Veteran Registration

The University meets all of the criteria for Veterans Education. The graduate programs have been approved for payment assistance. Veterans pay the cost of tuition, fees, books and supplies directly to the University. Veterans Administration education benefits are paid directly to the student on a monthly basis. Contact the University's Financial Aid Office so that appropriate paperwork is filed with the V.A. on the student's behalf.

Withdrawals and Refund of Tuition

To initiate a leave of absence or withdrawal a student must notify their program director in writing. A student is considered in attendance until the formal notification is completed. Federal regulations mandate that a stipulated refund calculation be used for any student receiving any form of federal financial aid who withdraws. A copy of this calculation is available at no charge from the University's Business Office. Tuition for all other students who withdraw from the University will be refunded on the following basis:

Before 1st class meeting	100%
Before 2nd class meeting	80%
Before 3rd class meeting	60%
Before 4th class meeting	40%
After 4th class meeting	0%

The date for calculating refunds is the date on the student's written request for withdrawal. Failure to complete withdrawal in writing results in an unofficial withdrawal. Refunds, transcripts and recommendations will be withheld until this written request is received.

Students dismissed from the University receive tuition refunds prorated from date of dismissal. Refunds for medical reasons will be reviewed on an individual basis. All refunds will be paid within 30 days of graduation or withdrawal/ dismissal.

Aid Policies

Academic Progress Requirements

The University is required to establish satisfactory academic progress standards for its federal financial aid recipients in accordance with the U.S. Department of Education regulations. These standards ensure that only those recipients demonstrating satisfactory progress toward the completion of their educational programs continue to receive financial aid.

Whether a student is considered to be making satisfactory academic progress depends on successful semester completion of courses (credit hours), cumulative grade point average (GPA) and maximum time limits to complete their course of study. Students must meet all the requirements listed below:

- Semester Completion Requirement- A student must have earned hours equal to at least 75 percent of total hours attempted for the semester to remain in good standing. Students earning less than 75 percent of the hours attempted will be placed on financial aid probation.
- Attempted hours are defined as the hours for which the student is enrolled and charged as of the census date of each semester. Earned hours are defined as the sum of hours for which a student has earned a grade of A, B, C or D. Withdrawals, incompletes, audits and failures are not earned hours. Passing grades received for pass/fail courses are considered attempted and earned hours; failing grades in pass/fail courses are considered attempted but not earned. Repeated courses are included in the calculation of attempted and earned hours.
- Grade Point Average Requirements- Students must maintain a cumulative grade point average (GPA) of 2.0 or have academic standing consistent with the requirements for graduation, as determined by the University. Philadelphia University's academic standards are outlined in the graduate course catalog.
- Maximum Time Limit Requirements- A student's eligibility for financial aid will be terminated once they have attempted more than 150 percent of the normal credits (as defined in the undergraduate course catalog) required for your degree program. All attempted hours are counted, including transfer hours, whether or not financial aid was received or the course work was successfully completed.
- Evaluation of Academic Progress- A financial aid recipient's satisfactory academic progress is evaluated after each semester of the academic year. At that time, a student will either be in good standing, be placed on financial aid probation or denied financial assistance for future enrollment periods. The student must meet all three progress requirements (completion rate, GPA and be within the maximum time frame) to remain in good standing. Students will be notified by the Financial Aid Office if they are placed on probation or denial status for financial aid.

- Probation status- Probation status will not prevent the student from receiving financial aid. The probationary semester is meant to inform the student of potential academic problems and provide time for corrective action. If a student does not meet the satisfactory academic progress standards after the probationary period, denial status could be imposed or continued probation approved. Denial status will prevent the student from receiving any Title IV and institutional financial assistance for future enrollment until such time as the student meets all satisfactory academic progress standards.
- Appeal and Reinstatement- Students may appeal their denial status by submitting an Appeal Form to the Director of Financial Aid. Appeal forms are included in the letter informing students of their denial status and should be submitted to the Financial Aid Office.

Some circumstances such as medical problems, illness, death in the family, relocation or employment changes or personal problems can be considered for an appeal. Documentation verifying the situation may be requested.

Submission of the form is required within four weeks of receipt of the denial letter. The Director of Financial Aid will review the appeal and contact the student via letter as soon as a decision is reached.

Students can raise their GPA and/or satisfy credit deficiencies by taking additional course work at Philadelphia University without receiving financial aid. Students can eliminate credit deficiencies, but not GPA deficiencies, by successfully completing approved course work at another institution without receiving aid at that institution. Transfer credits used to satisfy credit deficiencies cannot be credits that were earned prior to the semester in which the student incurred the deficiencies. The student must submit a copy of the academic transcript to both the financial aid and registrar's office.

The policy does not preclude a student from enrolling in subsequent semesters. Students may have their financial aid reinstated by the Financial Aid Office once all satisfactory academic progress standards are met. It is the student's responsibility to inform the Financial Aid Office once they have fulfilled the necessary requirements.

Return of Title IV Funds

The Financial Aid Office is required by federal statute to recalculate federal financial aid eligibility for students who withdraw, drop out or take a leave of absence prior to completing 60 percent of a payment period or term. The federal Title IV financial aid programs must be recalculated in these situations.

Recalculation is based on the percentage of earned aid using the following Federal Return of Title IV funds formula:

The number of days completed up to the withdrawal date divided by the total days in the payment period or term equals the percent of the payment period or term completed. (Any break of five days or more is not counted as part of the term.) The percentage is also the percentage of earned aid.

Funds are returned to the appropriate federal program based on the percentage of unearned aid (100 percent minus the percentage of earned aid.)

If a student earned less aid than was disbursed, the institution would be required to return a portion of the funds and the student may be required to return a portion of the funds. Keep in mind that when Title IV funds are returned, the student borrower may owe a debit balance to the institution.

If a student earned more aid than was disbursed to him/her, the institution will offer the student a post-withdrawal disbursement via a letter, which, if accepted, must be paid within 120 days of the student's withdrawal. The student must accept or decline the post withdrawal disbursement within the time frame indicated in the letter.

Refunds are allocated in the following order:
Unsubsidized Federal Stafford Loans
Subsidized Federal Stafford Loans
Federal Perkins Loans
Federal Graduate PLUS Loans
Federal Parent PLUS Loans
Federal Pell Grant
Federal Academic Competitiveness Grant (ACG)
National Science and Mathematics Access to Retain Talent Grant (National SMART Grant)
Federal Supplemental Opportunity Grant

Services

Health Services

***The Student Health Center** is located in Scholler Hall. Call 215.951.2986. To obtain a health insurance brochure contact the Student Accounts Office at 215.951.2633/2944.*

Health Services is available to all international graduate students. Other full-time graduate students may opt to utilize the services by paying the semester Student Health fee and submitting a Prematriculation Health Form. Arrangements to pay the fee can be made by visiting Student Health Services, located at the end of Scholler Hall adjacent to the Althouse Gym, or the Business Office.

The Student Health Center is open weekdays from 9 a.m. to 5 p.m. A Self-Care Station is stocked with common over-the-counter medications and health education brochures that are available to all students during the hours of operation. The Center is staffed by nurse practitioners who can meet most healthcare needs. Please feel free to call 215.951.2986 for an appointment or visit during walk-in hours. Information about the Center's hours can be found at www.PhilaU.edu/healthservices. Students who require more comprehensive treatment are referred to local physicians, hospitals and laboratories at the student's expense.

Health Insurance

All full-time students are encouraged to have health-insurance coverage through their family policy, an individual policy or through the University-sponsored health and accident plan. Full time graduate students may choose to be enrolled in the University-sponsored plan. Please note that enrollment in the University-sponsored plan requires students to

also pay the semester Student Health fee. For information on the University-sponsored plan, please contact the Business Office.

In adherence with immigration laws, international graduate students are required to have health-insurance coverage.

Students will be billed in July for a University-sponsored health and accident plan. In order to have this charge removed, documentation of adequate health insurance must be provided to the Student Health Center by the second Friday in September for the fall semester and by the first Friday in February for the spring semester. If documentation of adequate health insurance is not provided, the charge will remain on the student's account. Adequate health insurance must include coverage for the academic year and providers must be licensed to do business in the United States, have a U.S.-based office and a U.S. telephone number.

Housing

While there is no graduate housing on campus, the Office of Residence Life provides listings of off-campus housing including apartment complexes and local rentals, and offers a yearly off-campus housing fair. For further information, please contact the Office of Residential Life at 215.951.2741.

On-Site Courses

The University is prepared to offer graduate courses at an employer's location. Please call the appropriate program director or director of Graduate Admissions for details.

Parking

All students must register their vehicles. Registration may be done at www.PhilaU.edu/security/parking. A valid state registration and current insurance card must be presented, together with a current, valid University I.D., to pick up your parking permit at either the Safety and Security Office on the Ravenhill Campus, Monday through Friday, from 9 a.m. to 5 p.m., or during the first two weeks of the fall and spring semester from 5 p.m. to 7 p.m. in The Tuttleman Center lobby. For information, call the Safety and Security Office at 215.951.2620.

Fees:

Full-time Day Graduate Students	$50/year
Part-time Day Graduate Students (under 12 hours)	$15/year
Evening Graduate Students	No fee

Student Identification Card

Student photo-identification cards are available to graduate students. During the first two weeks of classes, the University has extended evening hours to process new student identification cards in The Kanbar Campus Center. Students will need identification cards to check out books and access buildings, such as the library and computer center.

Degree Programs

Master of Business Administration

Dean, School of Business Administration: Russel F. Kershaw, Ph.D. 215.951.2827 Phone, 215.951.2652 FAX, kershawr@PhilaU.edu
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Campus Location: Main Campus

Degree Program

Master of Business Administration

Options

- Business Administration
- Finance
- International Business
- Marketing
- Retail
- Taxation

M.B.A. in Health Care Management
One-Year Day M.B.A.

Combined Degrees

M.B.A./M.S. in Physician Assistant Studies
M.B.A./M.S. in Taxation
B.S. in Architectural Studies/M.B.A.*
B.S. in Business/M.B.A.*
B.S. in Textile Technology/M.B.A.*

**See undergraduate catalog for curriculum details.*

Certificates

Pre-Master's

- Pre-M.B.A. Foundations

Post-Master's:

- Finance
- Health Care Management
- International Business
- Marketing
- Retail
- Taxation

The M.B.A. program provides students with the skills and abilities employers are looking for in the leaders of corporate America in the 21st century – a global perspective, competence in leading-edge technology and innovative and entrepreneurial thinking.

The curriculum addresses these global and managerial skills needed for success. It is constantly updated to meet the needs of individuals with previous business academic backgrounds, as well as the needs of students with diverse backgrounds pursuing formal business education for the first time. Students will analyze important and challenging issues in an active learning and team-building environment, while sharpening decision-making, communication, managerial and entrepreneurial skills. Furthermore, students will develop the ability to interact and communicate with diverse groups, in order to function effectively in a competitive business environment.

The program is taught by a unique combination of faculty with practical experience in industry and academically oriented professors who are involved in research and who consult with domestic and international corporations. Small class sizes allow for personal attention. The incoming fall class is limited to under 100 students, with the average class size at about 16 students.

Every M.B.A. candidate will select from one of the five options offered or the Health Care Management programs. All prerequisites must also be met.

The Business Administration option allows students the flexibility to customize their education with nine elective credits. They select those courses that will be the most meaningful to them. The International Business option requires students to participate in a two-week overseas trip, exposing them to a number of foreign cultures and businesses as they meet with business leaders, politicians, labor leaders and academicians in European or Asian countries. The trip is also open to other students as an elective.

The separate M.B.A. in Health Care Management was developed specifically to respond to the current health care environment.

For more information about the combined degree programs, students are encouraged to contact the Graduate Business Programs Office at 215.951.2950.

Foundation Courses

The foundation courses provide a comprehensive general business education and serve as the foundation for advanced study. These courses are often referred to as the common body of knowledge that graduates of a business program are expected to possess.

Note: Foundation course requirements have been streamlined to afford easier access to the M.B.A. program, particularly for individuals entering formal business education for the first time. In any given semester, the graduate foundation MBF courses may only be offered in an online format.

MBF501	Introduction to Computer Skills (one credit)
MBF503	Foundations of Economic Analysis
MBF504	Introduction to Financial and Managerial Accounting
MBF505	Financial Management
MBF506	Marketing Foundations (1.5 credits)
MBF508	Statistical Analysis for Business Decisions

MBF509	Management Concepts (1.5 credits)
MBF510	Operations Management

Waiver of Foundation Courses

Students with satisfactory equivalent undergraduate or graduate records may have some or all of these foundation courses waived. To be exempt from the foundation courses the following criteria must be met:

1. A grade of "C" or better in undergraduate equivalents. Students may not waive more than five courses in which they have received grades of "C." Waived courses are to be determined by the assistant dean for Graduate Business Programs.
2. Seven-year time limit between date of matriculation into the M.B.A. program and time when undergraduate course was taken.
3. Undergraduate equivalents must be from an accredited university or college.

Individuals without an undergraduate degree in Business Administration:

Many individuals are eager to pursue an M.B.A. but have not studied the above courses. For this reason, these foundation courses are offered at the graduate level, but may be completed in several ways:

1. Completion of the necessary M.B.A. foundation or undergraduate equivalents.
2. Satisfactory completion of a proficiency examination offered by the University.
3. Satisfactory performance in the appropriate College Level Examination Program (CLEP) offered by the Educational Testing Service, Princeton, New Jersey.

Business Administration Option

Core Courses	24 Credits
MBA625	Management Communications and Negotiations
MBA626	Global Managing in the 21st Century
MBA627	Management of Information Through Technology
MBA628	Accounting for Management Decisions
MBA629	Financial Policy and Planning
MBA630	Quantitative Methods in Decisions
MBA632	Strategic Marketing Management
MBA642	Strategic Planning in a Global Environment
Electives	9 Credits*

** Up to six credits may be taken outside the School of Business Administration with permission of program directors.*

TOTAL CREDIT HOURS **33 CREDITS**

Finance Option

Core Courses	24 Credits
MBA625	Management Communications and Negotiations
MBA626	Global Managing in the 21st Century
MBA627	Management of Information Through Technology
MBA628	Accounting for Management Decisions
MBA629	Financial Policy and Planning
MBA630	Quantitative Methods in Decisions
MBA632	Strategic Marketing Management
MBA642	Strategic Planning in a Global Environment
Option Area Courses	9 Credits
MBA772	Investment and Portfolio Management
Select two of the following:	
MBA771	Financial Markets and Institutions
MBA774	International Finance (may be taken with MBA792 International Business trip for an additional three elective credits)
MBA775	Seminar in Finance
MBA776	Speculative Markets
MBA777	Fixed Income Securities
MBA778	Commercial Banking

TOTAL CREDIT HOURS **33 CREDITS**

International Business Option

Core Courses	24 Credits
MBA625	Management Communications and Negotiations
MBA626	Global Managing in the 21st Century
MBA627	Management of Information Through Technology
MBA628	Accounting for Management Decisions
MBA629	Financial Policy and Planning
MBA630	Quantitative Methods in Decisions
MBA632	Strategic Marketing Management
MBA642	Strategic Planning in a Global Environment
Option Area Courses	9 Credits
MBA740	International Business (six credits)
Select one of the following:	
MBA758	International Perspectives of Human Resource Management
MBA764	Global Marketing
MBA774	International Finance

TOTAL CREDIT HOURS **33 CREDITS**

Marketing Option

Core Courses	24 Credits
MBA625	Management Communications and Negotiations
MBA626	Global Managing in the 21st Century
MBA627	Management of Information Through Technology
MBA628	Accounting for Management Decisions
MBA629	Financial Policy and Planning
MBA630	Quantitative Methods in Decisions
MBA632	Strategic Marketing Management
MBA642	Strategic Planning in a Global Environment
Option Area Courses	9 Credits
MBA762	Marketing Research
Select two of the following:	
MBA740	International Business (six credits; fulfills Marketing requirement)
MBA761	Promotion Management
MBA764	Global Marketing
MBA766	Business-to-Business Marketing
MBA780	Fundamentals of E-Commerce

TOTAL CREDIT HOURS	33 CREDITS

Retail Option

Core Courses	24 Credits
MBA625	Management Communications and Negotiations
MBA626	Global Managing
MBA627	Management of Information Through Technology
MBA628	Accounting for Management Decisions
MBA629	Financial Policy and Planning
MBA 630	Quantitative Methods in Decisions
MBA632	Strategic Marketing Management
MBA642	Strategic Planning in a Global Environment
Option Area Courses	9 Credits
MBA7xx	Global Supply Chain
MBA7xx	Global Consumer
MBA7xx	Global Retailing Marketing Management
TOTAL CREDIT HOURS	**33 CREDITS**

Taxation Option

Core Courses	24 Credits
MBA625	Management Communications and Negotiations
MBA626	Global Managing in the 21st Century
MBA627	Management of Information Through Technology
MBA628	Accounting for Management Decisions
MBA629	Financial Policy and Planning
MBA630	Quantitative Methods in Decisions
MBA632	Strategic Marketing Management
MBA642	Strategic Planning in a Global Environment
Option Area Courses	9 Credits
TAX660	Individual Taxation
TAX662	Corporation Taxation
TAX664	Tax Research
TOTAL CREDIT HOURS	**33 CREDITS**

M.B.A. Core Specialization Option

The M.B.A. Core Specialization enhances the Evening M.B.A. program through the existing core courses and without adding cost or time to the program. Part-time M.B.A. students may declare their own customized academic specialization in a particular industry (e.g., healthcare, financial services). By completing four assignments in their chosen specialization (one assignment in four of seven core courses, excluding MBA642), students can earn a certificate and develop a professional portfolio in order to better market their expertise. **The M.B.A. Core Specialization is optional; students who choose not to participate or do not meet the requirements below can still earn the degree of M.B.A., as specified in the Philadelphia University Catalog.** Curriculum and assignment guidelines are presented below.

Curriculum Guidelines:

- Students must submit their plan (chosen specialization and list of four core courses) to the assistant dean for Graduate Business Programs no later than their second semester in the program. Specializations must be approved by the assistant dean.
- Students will explore the chosen specialization in an assignment in four of seven core courses, excluding MBA642. (Choose from MBA625, Management Communications and Negotiations; MBA626, Global Managing in the 21st Century; MBA627, Management of Information Through Technology; MBA628, Accounting for Management Decisions; MBA629, Financial Policy and Planning; MBA630, Quantitative Methods in Decisions; MBA632, Strategic Marketing Management.)
- A grade of "B" or better in each of four assignments must be received in order to earn the certificate.
- The student will be responsible for delivering a copy of each graded assignment to the assistant dean for Graduate Business Programs. The assignments will be kept on file as part of the student's specialization portfolio.
- If a student receives a grade lower than a "B" in an assignment designated for the specialization in any core course(s), the student may substitute another core course (or courses) — up until the student has completed all seven core courses listed above.
- Since the M.B.A. Core Specialization applies only to core courses, it does not preclude declaration of a concentration.

Assignment Guidelines:

- Each assignment is to reflect the student's approved specialization within the context of each chosen course and set of course requirements. For example, a student in MBA626 (Global Managing in the 21st Century) whose core specialization is the healthcare industry can complete an assignment that addresses an issue (or issues) in healthcare management.
- At the discretion of the instructor, required assignments may be adapted to fulfill the core specialization assignment. However, in some classes, a student may be required to do an additional assignment, if a core specialization assignment does not fit into the regular class assignments.
- The instructor must approve each assignment, and has discretion with respect to specifics (e.g., appropriateness for the course, assignment parameters, etc.).
- Each assignment must be an individual effort, and not part of a group project.
- Each assignment will demonstrate the student's ability to find, analyze, apply and integrate business research within the chosen specialization.
- Each assignment will demonstrate the student's professional communication skills.
- Each assignment must constitute a graduate-level contribution and result in output suitable for inclusion in the M.B.A. specialization portfolio [e.g., paper or detailed oral (PowerPoint) presentation with significant support documents and references].
- Each assignment must be worth at least 15 percent of the final grade.

M.B.A. in Health Care Management

Health care leaders who are highly skilled in managing change, strategic planning, finance, communication and quality assurance are in great demand today due to the combined effects of an aging population, advancing medical technology and the increasing complexity of the health care delivery system.

To prepare individuals to meet this challenge, the M.B.A. in Health Care Management provides a thorough education in the organization, management, and delivery of health care services, as well as an intense focus on the organizational changes in the industry.

Students will become well versed in the most current issues, concerns, practices and principles in health care administration, as well as develop leadership and analytic skills applicable to the diverse health care entities, including public health departments, nursing homes and managed-care settings.

Core Courses		24 Credits
MBA625	Management Communications and Negotiations	
MBA626	Global Managing in the 21st Century	
MBA627	Management of Information Through Technology	
MBA628	Accounting and Management Decisions	
MBA629	Financial Policy and Planning	
MBA630	Quantitative Methods in Decisions	
MBA632	Strategic Marketing Management	
MBA642	Strategic Planning in a Global Environment	

Health Care Management Courses		9 Credits
MBA720	Accounting and Financial Management for Health Care Institutions	
Select two of the following:		
MBA721	Legal Aspects of Health Care Management	
MBA722	Marketing of Health Care Institutions	
MBA723	Managed Health Care	
MBA724	Long-term Care Administration	
MBA725	Emerging Health Issues	
MBA726	Health Care Risk Management	

TOTAL CREDIT HOURS **33 CREDITS**

One-Year Day M.B.A.

- Summer start

The full-time day M.B.A. program responds to the needs of recent college graduates. The program format allows students to share their learning experiences with students who have similar goals and needs. A small, select group of students will proceed through the program together while taking all of their classes during the day.

All M.B.A. prerequisites must be completed before beginning the program. The program begins in late July with intensive daily class meetings. Fall and Spring classes follow a Tuesday/Thursday format, with students completing a two-semester, faculty-guided business internship on Mondays and Wednesdays. A highlight of the spring semester is the International Business trip. Students are exposed to top-level decision makers in business, labor and government through meetings in the corporate headquarters of financial institutions and production companies.

Day M.B.A. Summer Start

Complete any outstanding Foundation Courses

LATE JULY AND AUGUST

MBA625	Management Communications and Negotiations
MBA628	Accounting for Management Decisions

FALL SEMESTER

Tuesday/Thursday

MBA626	Global Managing in the 21st Century
MBA627	Management of Information Through Technology
MBA630	Quantitative Methods in Decisions

Monday/Wednesday

MBA791	Internship

SPRING SEMESTER

Tuesday/Thursday

MBA629	Financial Policy and Planning
MBA632	Strategic Marketing Management
MBA642	Strategic Planning in a Global Environment
MBA792	International Business Trip

Monday/Wednesday

MBA791	Internship

TOTAL CREDIT HOURS **33 CREDITS**

M.B.A. Core Specialization Option

The M.B.A. Core Specialization enhances the Evening M.B.A. program through the existing core courses and without adding cost or time to the program. Part-time M.B.A. students may declare their own customized academic specialization in a particular industry (e.g., healthcare, financial services). By completing four assignments in their chosen specialization (one assignment in four of seven core courses, excluding MBA642), students can earn a certificate and develop a professional portfolio in order to better market their expertise. The M.B.A. Core Specialization is optional; students who choose not to participate or do not meet the requirements below can still earn the degree of M.B.A., as specified in the Philadelphia University Catalog. Curriculum and assignment guidelines are presented below.

Curriculum Guidelines:

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- Students will explore the chosen specialization in an assignment in four of seven core courses, excluding MBA642. (Choose from MBA625, Management Communications and Negotiations; MBA626, Global Managing in the 21st Century; MBA627, Management of Information Through Technology; MBA628, Accounting for Management Decisions; MBA629, Financial Policy and Planning; MBA630, Quantitative Methods in Decisions; MBA632, Strategic Marketing Management.)

- A grade of "B" or better in each of four assignments must be received in order to earn the certificate.
- The student will be responsible for delivering a copy of each graded assignment to the assistant dean for Graduate Business Programs. The assignments will be kept on file as part of the student's specialization portfolio.
- If a student receives a grade lower than a "B" in an assignment designated for the specialization in any core course(s), the student may substitute another core course (or courses) — up until the student has completed all seven core courses listed above.
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- Each assignment is to reflect the student's approved specialization within the context of each chosen course and set of course requirements. For example, a student in MBA626 (Global Managing in the 21st Century) whose core specialization is the healthcare industry can complete an assignment that addresses an issue (or issues) in healthcare management.
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- Each assignment will demonstrate the student's professional communication skills.
- Each assignment must constitute a graduate-level contribution and result in output suitable for inclusion in the MBA specialization portfolio [e.g., paper or detailed oral (PowerPoint) presentation with significant support documents and references].
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Students will become well versed in the most current issues, concerns, practices and principles in health care administration, as well as develop leadership and analytic skills applicable to the diverse health care entities, including public health departments, nursing homes and managed-care settings.

Core Courses		24 Credits
MBA625	Management Communications and Negotiations	
MBA626	Global Managing in the 21st Century	
MBA627	Management of Information Through Technology	
MBA628	Accounting and Management Decisions	
MBA629	Financial Policy and Planning	
MBA630	Quantitative Methods in Decisions	
MBA632	Strategic Marketing Management	
MBA642	Strategic Planning in a Global Environment	
Health Care Management Courses		**9 Credits**
MBA720	Accounting and Financial Management for Health Care Institutions	
Select two of the following:		
MBA721	Legal Aspects of Health Care Management	
MBA722	Marketing of Health Care Institutions	
MBA723	Managed Health Care	
MBA724	Long-term Care Administration	
MBA725	Emerging Health Issues	
MBA726	Health Care Risk Management	
TOTAL CREDIT HOURS		**33 CREDITS**

One-Year Day M.B.A.

- Summer start

The full-time day M.B.A. program responds to the needs of recent college graduates. The program format allows students to share their learning experiences with students who have similar goals and needs. A small, select group of students will proceed through the program together while taking all of their classes during the day.

All M.B.A. prerequisites must be completed before beginning the program. The program begins in late July with intensive daily class meetings. Fall and Spring classes follow a Tuesday/Thursday format, with students completing a two-semester, faculty-guided business internship on Mondays and Wednesdays. A highlight of the spring semester is the International Business trip. Students are exposed to top-level decision makers in business, labor and government through meetings in the corporate headquarters of financial institutions and production companies.

Day M.B.A. Summer Start

Complete any outstanding Foundation Courses

LATE JULY AND AUGUST

MBA623	Management Communications (1.5 credits)
MBA624	Management Negotiations (1.5 credits)
MBA628	Accounting for Management Decisions

FALL SEMESTER

Tuesday/Thursday

MBA626	Global Managing in the 21st Century
MBA627	Management of Information Through Technology
MBA630	Quantitative Methods in Decisions

Monday/Wednesday

MBA791	Internship

SPRING SEMESTER

Tuesday/Thursday

MBA629	Financial Policy and Planning
MBA632	Strategic Marketing Management
MBA642	Strategic Planning in a Global Environment
MBA792	International Business Trip

Monday/Wednesday

MBA791	Internship

TOTAL CREDIT HOURS **33 CREDITS**

Certificate Programs in Business Administration

Dean, School of Business Administration: Russel F. Kershaw, Ph.D. 215.951.2827 Phone, 215.951.2652 FAX, kershawr@PhilaU.edu
Assistant Dean, Graduate Business Programs: MarySheila E. McDonald, J.D., 215.951.2950 Phone, 215.951.5300 FAX, mcdonaldm@PhilaU.edu

To survive in today's rapidly changing business world, working professionals need the most current tools. Continued downsizing dictates doing more with fewer employees. Emerging globalization requires managers with strengths in many areas of expertise. Professionals need more diverse backgrounds and broader knowledge to adapt to and manage change.

At Philadelphia University, we have been serving the changing needs of business leaders by focusing on the practical and contemporary nature of business education, while teaching sound theory.

Pre-Master's Certificate Program

Our Pre-Master's Certificate program is designed for the working professional holding a bachelor's degree who seeks a high-quality, convenient program to develop tomorrow's skills today. The goal of the program is to retool individuals, add to your current strengths, develop new expertise or both.

Certificates require an individual to complete a minimum of 12 graduate credits (four courses) in the following areas:

Pre-M.B.A. Foundations

If you are interested in learning more about the Pre-Master's Certificate program, please call the Graduate Business Programs Office at 215.951.2950.

Post-Master's Certificate Program

Our Post-Master's Certificate program is designed for the working professional who holds an M.B.A. and seeks to develop additional skills in another option area.

Complete 12 credits in our respected and successful M.B.A. program toward a certificate specializing in one of the following areas:

- Finance
- Health Care Management
- International Business
- Marketing
- Taxation

The certificate requires the individual to complete a minimum of 12 credits in an area other than the one in which they already have formal academic training. If you are interested in learning more about the Post-Master's Certificate Program, please call the Graduate Business Programs Office at 215.951.2950.

M.B.A. Alumni Tuition Discount
Philadelphia University M.B.A. alumni who want to take advantage of any of the new and innovative M.B.A. course offerings can receive a 25 percent tuition discount for one course per semester, for up to five semesters.

Master of Science in Construction Management

Dean, School of Architecture:
Vini Nathan, PhD., 215.951.2828 Phone, 215.951.2110 FAX, nathanv@PhilaU.edu
Program Director: Program Director: Edward Keeter, Ph.D., 215.951.2896 Phone, 215.951.110 FAX, keetere@PhilaU.edu
Campus Location: Main Campus

Degree Program

M.S. in Construction Management
The Master's of Science Degree in Construction Management will provide students with the knowledge and skills to plan and oversee each phase of the construction process as applied to complex commercial and residential building projects. Areas of study will include: project planning, scheduling and risk management; advanced construction techniques and representation methods; legal and contractual issues; project economics; and health and safety. Moreover, a key component of the program will be the integration of techniques, materials and methods of sustainable building into the construction process. Future construction managers will be trained in the principles of sustainability and Leadership in Energy and Ecological Design (LEED) standards. By definition, construction management is a cross-disciplinary practice that synthesizes aspects from the fields of business, architecture, engineering and construction. This degree program will provide a balance among various skill sets with emphasis upon practical application, thereby ensuring that a graduate has the necessary knowledge base to be simultaneously successful on a construction site and in an office setting.

Curriculum Design
The program is designed as a 31-credit, 11-course curriculum that can be completed in one to two years depending on the course load taken by the student. The courses will be offered in two 15-week semesters per year, as well some offerings in the 12-week summer semester. In addition to coursework, a student will be required to complete a minimum of 400 hours work experience in a construction firm under the supervision of an academic and a professional advisor.

Conditional Requirements
Before matriculation in the fall semester, a student must have acquired specific skill sets and introductory-level knowledge bases. The Coordinator will review each applicant's academic and work history to determine readiness for graduate-level study. Students who are judged deficient in certain content areas will be admitted conditionally, upon completion of designated prerequisite coursework. Prerequisite courses can be completed by taking classes on-campus or, if available, online during the summer before entering the program.

Full-Time Program

FALL SEMESTER

MCM 601	Advanced Construction Project Management	3
MCM 602	Advanced Construction Techniques and Documentation	3
SDN 601	Sustainable Design Methodologies	3
MBA 625	Management Communications and Negotiations	3

SPRING SEMESTER

MCM 603	Construction Law: Roles and Responsibilities	3
MCM 604	Project Finance and Cost Control	3
SDN 603	Sustainable Systems	3
Elective		3

SUMMER SEMESTER

Elective		3
MCM 901	Master's Project	3
MCM-791	Construction Management Internship	1

TOTAL CREDIT HOURS 31

(31 graduate credits)

Certificate in Sustainable Construction Management

The Construction Management program in the School of Architecture offers to those with at least two years of professional experience in the construction management field the opportunity to further develop their knowledge of current trends in the industry. Our 12 credit hour certificate program recognizes the major changes happening in the architecture and construction industry in the fields of sustainable buildings, integrated practice and building information modeling. Therefore the program offers three courses that specifically address these areas while offering flexibility by a fourth elective course of the student's choice. Acceptance to the certificate program assumes the applicant already possesses a level of competency in the construction management field gained through professional experience.

MCM 602	Advanced Construction Techniques & Documentation	3
SDN 601	Sustainable Design Methodologies	3
SDN 603	Sustainable Systems	3
Elective: Any other required or elective course in the curriculum		3

CERTIFICATE IN CONSTRUCTION MANAGEMENT – TOTAL 12

Master of Science in Digital Design

Interim Dean, School of Design and Media: Geoffrey Cromarty, 215.951.2972 Phone, cromartyg@PhilaU.edu
Interim Program Director: Sherman Finch, 215.951.5679 Phone, 215.951.2564 FAX, finchs@PhilaU.edu
Campus Location: Main Campus

Degree Program

M.S. in Digital Design

Options

- 2-Year Program
- 3-Year Program

Digital Design is emerging as a distinct discipline that will continue to have a major impact on the design world, as well as the global economy. The skill sets and critical thinking necessary to fully realize the potential of this continually evolving field require a specific and unique course of study for the digital designer.

Philadelphia University offers the Digital Design student a unique opportunity to study in an interdisciplinary atmosphere.

Fundamental to being successful as a member of the interdisciplinary design team is the knowledge and skill to manipulate digital technology to communicate ideas, visualize design proposals and share information.

The predominant feature of the Master's in Digital Design is the development of new and innovative ways to work as a team in shaping the electronic environment.

The M.S. in Digital Design program emphasizes the following:

- Competence in digital technologies.
- A dynamic, non-linear educational environment in which students understand the overarching principles of digital technologies so they are able to adjust to and determine future technological directions in the workplace.
- The importance of collaborative and interdisciplinary work as fundamental to the success of graduates in the digital design field.
- A strong understanding of and appreciation for cultural diversity as fundamental to the design student's ability to serve society in a responsible and meaningful way.
- The adaptation of teaching and learning practices as a response to the possibilities afforded by new media.

The M.S. in Digital Design program concludes with a capstone final research project. In this synthesis studio, students will develop a final, working prototype of a product, service, entertainment or publication of their choice that synthesizes all of their knowledge and skill from the previous semesters. The final project will demonstrate marketability and/or successful functionality within the larger community. This project will prepare the student to enter the rapidly expanding field of digital design by closely emulating the

professional digital design environment. It will prepare the student to enter a profession that requires innovative designers with the ability to work within a collaborative interdisciplinary team.

Admissions Criteria

M.S. in Digital Design 2-Year Program

Undergraduate design degree highly recommended.

Applicants must demonstrate a high degree of technical proficiency in interactive design as well as an ability to conceptualize and produce at a sophisticated level of communication. The background for this skill set could come from significant professional experience and/or previous study. An interactive design portfolio is necessary, along with a letter of intent specifying the student's goals for the period of study.

M.S. in Digital Design 3-Year Program

Applicants must demonstrate an understanding of and aptitude for design or the visual arts, either through professional experience and/or previous study. A portfolio demonstrating the candidate's creativity is required, along with a letter of intent specifying the student's goals for the period of study. The initial courses in this track are an appropriate foundation for students who have a background in the visual disciplines but would benefit from additional design or interactive experience before they start the final years' coursework. In some cases students from other disciplines who demonstrate a particular aptitude for design could also be accepted in the program.

Curriculum Sequence

Because of the interdisciplinary emphasis of the Digital Design program, it is anticipated that prospective students will come from various backgrounds and levels of expertise. The program is designed to accommodate these different backgrounds by offering two distinct curricular sequences as outlined on the next page.

This post-professional program is open to students who already possess an undergraduate degree or professional experience in design. They must demonstrate a high level of technical and conceptual competency in a core group of technological abilities including digital video production, web page design and CD-ROM authoring and/or 3D modeling and rendering.

2-Year Program

(36 graduate credits)

YEAR I

FALL SEMESTER

IDD621	Digital Experience Design	6
IDD623	Theory of Electronic Communication II (graduate seminar)	3

SPRING SEMESTER

IDD631	Digital Innovation Design	6
IDD632	Database Management and Scripting	3

YEAR II

FALL SEMESTER

IDD635	Interactive Narrative/Drama	3
IDD941	-Digital Design Synthesis Project Preparation	3
Free Elective		3

SPRING SEMESTER

IDD942	Digital Design Synthesis Project	6
Free Elective		3

TOTAL CREDIT HOURS **36 CREDITS**

3-Year Program

(18 foundation credits and 36 graduate credits)

This program is open to students with a bachelor's degree. Typically, this degree will be in a visually based discipline, although in some cases students from other disciplines who demonstrate a particular aptitude for design could also be accepted in the program. Students in the 3-year program will be required to take 18 credits of foundation courses in their first year. After a summer break, they will begin master's-level coursework.

YEAR I

FALL SEMESTER

Foundation Courses

IDF502	Electronic Imaging	3
IDF511	Digital Design III (undergraduate-level studio)	6

SPRING SEMESTER

Foundation Courses

IDF512	Digital Design IV (undergraduate-level studio)	6
Free Elective		3

FOUNDATION CREDIT HOURS **18 CREDITS**

YEAR II

FALL SEMESTER

IDD621	Digital Experience Design	6
IDD623	Theory of Electronic Communication II (graduate seminar)	3

SPRING SEMESTER

IDD631	Digital Innovation Design	6
IDD632	Database Management and Scripting	3

YEAR III

FALL SEMESTER

IDD635	Interactive Narrative/Drama	3
IDD941	Digital Design Synthesis Project Preparation	3
Free Elective		3

SPRING SEMESTER

IDD942	Digital Design Synthesis Project	6
Free Elective		3

GRADUATE CREDIT HOURS **36 CREDITS**

TOTAL CREDIT HOURS **54 CREDITS**

Master of Science in Disaster Medicine and Management

Dean, School of Science and Health:
Matt Dane Baker, PA-C, D.H.Sc., 215.951.6803 Phone 215.951.6812 FAX, bakerm@PhilaU.edu
Program Director: Jean Bail, Ed.D., RN, MSN, CEN, EMT-P, 215.951.2871 Phone; 215.951.6812 FAX; bailj@PhilaU.edu
Campus Location: This is a distance-learning program with a one week on-campus requirement.

Degree Program

M.S. in Disaster Medicine and Management

Certificate Programs

- Disaster Medicine and Management
- Business and Organizational Continuity

Recent events in our nation and the world have focused our attention on the prevalence of disasters, mass casualty situations and public service disruptions including terrorism, biological and chemical terrorism, war, tsunamis, earthquakes, hurricanes, floods, wildfires, volcanoes and major power grid disruptions. Additionally, we are facing an increasing number of accidents involving hazardous materials. The effects of all of these events on people, animals, the environment, physical structures and our public infrastructure have been immense. This has brought increased attention to our public safety, emergency medical services (EMS) and public health systems in terms of disaster preparedness. The need for a highly organized disaster preparedness infrastructure and individuals with expertise in this area has become readily apparent to the government and private sector. Disaster emergency planning and management has become an expanding area of study in the fields of medicine, emergency medical services, public safety, mental health, public health and the military.

The Master of Science in Disaster Medicine and Management is a comprehensive graduate degree program encompassing all facets of disaster management. The program encompasses the study of: terrorism, weapons of mass destruction, hazardous materials, natural disasters, psychological aspects of disasters, acute traumatic stress intervention, public health considerations of disasters, research methods and disaster planning and management including risk assessment, incident command and resource allocation. The target audience for this degree program is medical, public safety and defense professionals working in the public and private sectors. The program is delivered as a partnership between Philadelphia University and the Department of Emergency Medicine of the Albert Einstein Health Network.

This program is offered in a flexible distance-learning format. The program is designed as a 36-credit, 12-course curriculum that can be completed in one to three years depending on the course load taken by the student. The courses will be offered in four 12-week semesters per year. Ten courses will be offered entirely in a distance-learning format using the BlackBoard© course management system with a variety of teaching modalities such as on-line PowerPoint© lectures with audio, asynchronous discussion boards, synchronous chat rooms, reading assignments, research papers, on-line journals and on-line testing. Students will be required to attend one five-day, on-campus, summer seminar that will include live lectures, hands-on skills labs, role-playing seminars, disaster drills and a table-top exercise. This summer seminar is a mandatory component of two of the required courses (DMM635 and DMM639). Students will also be required to complete a capstone experience that has several options, but a formal thesis is not required. The program can arrange for students to participate in an internship at a site that provides emergency and disaster planning and preparedness in the United States and internationally.

The program also offers two nine-credit, three-course, graduate certificates for professionals seeking a less intensive educational experience. One involves core material on Disaster Medicine and Management, the second certificate addresses business and crisis continuity issues.

E-Learning at Philadelphia University
The program is offered in a flexible on-line environment. The vast majority of this is asynchronous and can be completed on the student's own schedule provided the student meets the required examination and assignment deadlines.

Program Hardware and Software Requirements:

- Access to a computer with the Windows operating system (Windows 2000, Windows XP or above) and the capacity to hear audio (sound card). Also, a microphone and web cam capability will be useful.
- Internet access with high speed connection (DSL, Broadband or cable)
- Microsoft Office software (Word and PowerPoint)

Admission to the Program
Applications to the program should be submitted to the Philadelphia University Office of Graduate Admissions. Admission into the program requires a bachelor's degree, undergraduate transcripts, a current resume, two letters of recommendation and a personal essay. Admission to the program will be based on several criteria: undergraduate GPA; relevant work experience; two letters of reference; a personal essay; and whether or not the applicant has completed the required prerequisites (see below). The GRE is not required.

Prerequisite Courses	
English Composition or College Writing	3
College-level Math or Statistics	3
General Biology or Anatomy and Physiology or Equivalent	3-4
Introductory Psychology or Behavioral Science Course	3

Curriculum

Core Courses:		
DMM611	Principles of Disaster Medicine and Management	3

DMM631	Organizational Management & Communication in Disasters	3
DMM635	Psychological Aspects of Disasters (Distance learning & mandatory on-campus experience)	3
DMM639	Principles of Disaster Exercises & Drills (Distance learning & mandatory on-campus experience)	3
DMM643	Public Health Implications of Disasters	3
DMM647	Disaster Emergency Planning	3
DMM651	Applied Research Methods & Statistics	3
DMM755	Capstone Experience in Disaster Medicine and Management: Master's Project (Distance Learning Only) Master's Project with Internship	3

Electives: (Choose four from the following)

DMM615	Hazardous Materials & Industrial Safety	3
DMM617	GIS in Emergency Management	3
DMM619	Natural Disasters	3
DMM623	Weapons of Mass Destruction	3
DMM624	Organizational Risk and Crisis Management	3
DMM625	Business and Crisis Continuity	3
DMM626	Organizational Recovery and Planning	3
DMM627	Principles of Terrorism	3
DMM648	Emergency Preparedness with Special Needs Populations	3
DMM791	Internship in Disaster Medicine and Management	3
DMM797	Special Topics in Disaster Medicine and Management	1-3
TOTAL DEGREE CREDIT HOURS		**36 CREDITS**

Graduate Certificate in Disaster Medicine and Management

Core Courses (Required):

DMM611	Principles of Disaster Medicine and Management	3
DMM647	Disaster Emergency Planning	3
Electives:	(Choose any one DMM course)	3
TOTAL CERTIFICATE CREDIT HOURS		**9 CREDITS**

Graduate Certificate in Business and Organizational Continuity

DMM625	Business and Crisis Continuity	3
DMM624	Organizational Risk and Crisis Management	3
DMM626	Organizational Recovery and Planning	3
TOTAL CERTIFICATE CREDIT HOURS		**9 CREDITS**

Master of Science in Midwifery

Dean, School of Science and Health:
Matt Dane Baker, PA-C. D.H.Sc., 215.951.2870 Phone; 215.951.2615 FAX; bakerm@PhilaU.edu
Program Director: Katherine Dawley, CNM, Ph.D., 215.951.2528 Phone; 215.951.2526 FAX; instituteofmidwifery@PhilaU.edu
Campus Location: 222 Hayward Hall, The Midwifery Institute of Philadelphia University offers distance-learning programs with and without on-campus requirements.

Degree Programs

M.S. in Midwifery
M.S. in Midwifery Completion Program

Certificate Program

Post Master's Certificate in Nurse-Midwifery

M.S. Program in Midwifery

Philadelphia University provides an exciting way to earn the Master's of Science in Midwifery through distributive, at home/anytime learning in the fundamentals of the art and science of midwifery, research, health policy and selected advanced clinical and professional competencies. This program, initiated in 1998, prepares individuals with a Bachelor's degree and individuals with a Bachelor's degree and an RN (Registered Nurse) credential in the practice of midwifery and qualifies them to sit the American Midwifery Certification Board's (AMCB's) national certification exam.

The Midwifery Institute of Philadelphia University offers a 6 semester, 2 year full-time, graduate-level, distance-education program for midwifery. Students can be admitted with a class cohort in either the fall or spring semesters. For those who prefer not to attend full-time, this program can also be completed through part-time study over 3 years.

From the beginning, the Midwifery Institute's education program was designed for distance learning and values and builds upon the student's previous education and life experience. State-of-the-art communication technology, coupled with the professional expertise of an accomplished and caring faculty, maximizes the educational experience. The program model focuses on graduate-level skills of inquiry and critical thinking. Candidates for the program must hold a bachelor's degree from an accredited college or university.

The program integrates theory and practice into six semesters of asynchronous study, clinical experience and two week-long on-campus sessions. The theoretical components of midwifery are learned through readings, seminar room discussions, writings, quizzes and examinations. The practice components are learned through a clinical practicum, close to home, under the direction of a qualified midwife preceptor.

Our program is modeled on midwifery-practice principles. The role of the Midwife Tutor is unique at The Midwifery Institute of Philadelphia University and is the foundation of

our model for midwifery education which mimics the midwifery model of care for women. Two Midwife Tutors follow each small class (16-20 students) throughout the program, modeling the midwifery value of continuity of care. They treat students with respect as individuals and provide a personalized approach that encompasses all aspects of the education process including advising, evaluation and supervision.

The Midwife Tutor's primary focus is the facilitation of learning. This facilitation of the learning process is similar to the midwife's role during labor. Both roles require the ability to challenge, assess, confront, encourage, provide feedback, assist, listen and problem solve. We find that this process meets the challenge of distance education and facilitates learning in an environment where students and faculty share the responsibility for lifelong learning.

Electronic Seminar Rooms are full of thoughtful discussions about the art and science of midwifery practice, reflections on the role transition to midwife, midwifery research, education and health policy. Students interact asynchronously with each other and the faculty via computer and learning can happen day or night, seven days a week, when the student is ready to focus on school, and yet remain in the comfort of home.

As adult learners, students are able to reach their professional goals while building relationships within their on line learning community. This national networking is an asset as our graduates enter the work world. We see the midwife within each of our students and Midwife Tutors and faculty are able to facilitate individual growth and development into the role of midwife, assuring the vitality and vision for the future of midwifery. We remain on the cutting edge of a changing world, by weaving tradition with technology.

The 21st-century midwife must be prepared for evidence-based practice, requiring increasingly sophisticated skills in the analysis of knowledge and practice of midwifery. Today's midwife supports practice with research and respects both the art and science of midwifery. Changes in the health-care environment require midwives to be well informed and to negotiate important changes to improve midwifery care and the health care of women and families. Frequently, midwives act as administrators, teachers and advanced clinical practitioners. This program also facilitates professional development in these areas through excellent teaching, innovative technologies and the Internet.

In preparation for meeting these professional challenges students engage in a comprehensive, 50 credit course sequence to prepare for clinical practice. They prepare for an expanded professional role through a 2 course sequence in research for midwifery, a health policy course, an elective that can prepare them either for teaching, practice in a developing nation, or practice in an administrative role (12 credits). We are fortunate to have a diverse, experienced faculty in midwifery education, clinical practice, research, policy, education, and international midwifery practice. We believe in lifelong learning and continue to be partners in the growth and development of ourselves, our students and the profession of midwifery.

The M.S. Midwifery Program prepares a graduate who will be:

1. A safe beginning practitioner of midwifery.
2. A provider of primary health care for women across the lifespan as a member of an interdisciplinary health care team.
4. An advocate for the betterment of women's health.
5. A participant in lifelong learning.
6. An active member in the profession of midwifery.
7. A critical thinker with the skills to analyze and synthesize research into evidence-based practice.
8. Politically aware, active in the profession of midwifery and knowledgeable about health policy in the United States.

Unique Program Requirements

Successful students of distance-learning programs are self-motivated and disciplined. Midwifery education at Philadelphia University requires extensive reading of primary-source materials in professional journals. Students are expected to demonstrate their ability to think and write critically. They use the written word to express themselves electronically in discussions in the virtual seminar room, in communicating through emails and in the preparation of learning activities.

All students must have access to a computer (either PC or Mac), a USB port headset, and an Internet Service Provider, with a DSL connection recommended. Web-cam transmission capability is also required. As technology is continually being updated, before purchasing a computer, please contact Distance Learning Coordinator for up-to-date information on hardware and software required.

At the Midwifery Institute of Philadelphia University, instruction is provided through the use of the Lotus Notes software that delivers the curriculum and facilitates faculty/student discussion, communication, and electronic submission of assignments. Orientation to Lotus Notes is provided prior to and during the on-line orientation to the program. Readings and frequent interaction with faculty and classmates complement electronic courses. Experienced faculty members work closely with students and are accessible by e-mail or telephone. Students can access library resources online through the Gutman Library website.

Our computer environment is intuitive and easy to use. However, students must have basic computer skills, including familiarity with Windows-based applications, word processing and Internet use. During orientation students learn how they will use the computer during their program of study and how they will communicate with both their faculty and classmates. Students new to computers are encouraged to enroll in a computer course prior to orientation.

Technical and Professional Standards

For admission to the program, candidates must:

- Be self-motivated learners, have good study habits, and be able to organize life commitments to set aside

sufficient time for study and learning. We estimate this requires approximately 30-40 hours a week for full-time students, in an environment conducive to study;
- Possess the emotional maturity and stability to approach stressful clinical situations in a calm and rational manner;
- Have the ability to effectively communicate with women and families from a wide diversity of cultural and socio-economic backgrounds in an empathetic and sensitive way;
- Have well-developed oral and written communication skills;
- Have the ability to make independent clinical decisions within the scope of midwifery practice and within the guidelines for relationships established with collaborating health care providers;
- Display strong ethical integrity consistent with academic expectations and the American College of Nurse-Midwives (ACNM) Code of Ethics;
- Have sufficient mental abilities and physical capabilities, including but not limited to the following areas of sensory function (vision, hearing, and touch sensation), eye hand co-ordination, neurologic and muscular coordination and control to competently perform physical assessments and the technical procedures necessary for midwifery practice.

Clinical Preceptorship

Clinical experiences initially consist of experiences in prenatal and well-woman care that are approximately two days per week. During the final two semesters the clinical experience includes all phases of labor, birth, postpartum, newborn and well-woman care and **may be up to 40 hours per week.** Only part-time employment should be considered while undertaking this full-time program.

Clinical Requirements

Students are required to meet and document the following practicum requirements during their clinical experience: 10 preconception care visits; 40 new antepartum visits; 130 return antepartum visits; 40 labor management experiences; 40 births; 20 postpartum visits (0-5 days); 40 newborn assessments; 10 breast-feeding support visits; 20 postpartum visits (4-8 weeks); 40 primary care visits; 30 family planning visits; 30 gynecologic care visits; 20 peri/postmenopausal visits. A Declaration of Safety, indicating a student has achieved a beginning level of competency necessary for entry into practice, must be signed by the clinical preceptor prior to program completion and in order to sit the national certification exam given by AMCB.

Insurance Coverage

Students must show proof of coverage for malpractice liability prior to starting clinical rotations. This insurance is readily available to student midwives through the ACNM. Cost varies year to year and by location. Please ask for current costs during the admission process and know these may change by the time you purchase. Students are responsible for their own medical and dental care while enrolled in the program. Students may need to submit to, and be financially responsible for, any reasonable health screening that is required by a clinical agency beyond that required by the Midwifery Institute of Philadelphia University.

Accreditation and Certification

The Master's in Midwifery program is accredited by the Accreditation Commission for Midwifery Education (ACME). Their mailing address is: ACME, 8403 Colesville Road, Suite 1550, Silver Springs, MD 20910-6374, (240) 485-1800, www.acnm.org.

Upon successful completion of the program, graduates will receive a Master's in Midwifery and will be eligible to take the national certification examination for midwives offered by the AMCB. Completion of the program prepares graduates to work in all practice settings.

Course of Study: Master's of Science in Midwifery

SEMESTER 1

On-Line Orientation To The Program		
Scheduled just prior to first term courses		0
CMW603	Reproductive Anatomy & Physiology	2
CMW605	Professional Issues	2
CMW606	Health & Lifestyles	2
CMM699	Physical Assessment	3

SEMESTER 2

CMW607	Healthcare of Women I	4
CMW638	Pharmacological Basis for Practice I	2.5
MMW 712	Introduction to Health Policy	3
On campus session to include the following:		
Skills Workshops and Technical Competence Validation		
CMW602	Interviewing & Counseling	0.5
CMW613	Embryology & Genetics	1
Physical Assessment Checkout		0

SEMESTER 3

CMW610	Antepartum Care	4
CMW612	Postpartum/Newborn Care	2.5
CMW631	Clinical I: Maternity & Well Woman Care 1	2

SEMESTER 4

CMW611	Intrapartum Care	4
CMW 620	Healthcare of Women 2	2
CMW639	Pharmacological Basis for Practice II	.5
CMW632	Clinical II: Maternity & Well Woman Care 2	3
MMW720	Critical Inquiry 1	3
On Campus Session To Include The Following:		
Skills workshops and technical competence validation		
CMW630	Preparation for Full Scope Midwifery Practice	2

SEMESTER 5

MMW 721	Critical Inquiry 2	3
CMW619	Perinatal Complications	4
CMW633	Clinical III: Full Scope Midwifery Care 1	4

SEMESTER 6

CMW634	Clinical IV: Full Scope Midwifery Care 2	4

Elective, choose one:		3
MMW 722	Introduction to Administration in the Clinical Setting; or	
MMW 723	Advanced Clinical Practices; or	
MMW 724	Introduction to Teaching Methods; or	
MMW 725	Issues in Reproductive Health in Developing Nations	

Optional		
MMW931	Thesis	3

The thesis is optional. Students electing to complete a thesis will complete a research project based on the research question they developed in MMW 721, Critical Inquiry II. The thesis option will be attractive to students interested in doctoral studies or additional research experience.

Total Program Credits:	
Didactic credits	48
Clinical credits	14
TOTAL CREDIT HOURS	**62 (65 WITH THESIS)**

Admission to the MS in Midwifery Program

Academic Calendar

Classes are admitted twice a year in the fall and spring. See the Philadelphia University Midwifery Institute web site for application deadlines.

Requirements

Each applicant is evaluated individually. Candidates are expected to meet the following criteria for admission:

1. Submit a professional resume.
2. Be a registered nurse currently licensed in the state where employed.
3. Hold a baccalaureate or higher degree in any discipline with a grade point average (GPA) of 3.0 or higher.
4. Have an interview and a written promise of a clinical site with a midwifery preceptor.
5. Own a computer and have Internet access.
6. Submit two letters of reference.
7. Submit official transcripts from all undergraduate and graduate courses/Institutions.
8. Submit a brief essay, per guidelines, using a word-processing program.
9. The Graduate Record Examination (GRE) or Miller Analogies Test (MAT) is recommended but not required.
10. Complete an interview (in-person/telephone) with a program faculty member.
11. Submit evidence of or complete a three-credit undergraduate statistics course.

Transfer of Credits

Students seeking to transfer credit from another accredited nurse-midwifery program into the Master's in Midwifery course of study will have courses evaluated on an individual basis.

Other Program Options

Philadelphia University also offers an ACNM accredited Post-Master's Certificate Program in Nurse-Midwifery and a MS in Midwifery Completion program through the Midwifery Institute.

Post-Master's Certificate Program in Nurse-Midwifery

This program is available for those who currently hold a Master's degree in a clinical health care discipline and wish to practice midwifery. It consists of the fifty 600 level course credits in the MS in Midwifery course of study listed above. Depending on previous professional practice and education, the student may be eligible to enroll in an advanced placement option by challenging courses equivalent to those previously taken. This should be discussed with the coordinator for admissions. See Master's in Midwifery section for full details.

Master's in Midwifery Completion Program

This program is designed for certified nurse-midwives/certified midwives whose basic midwifery education was at the certificate level who now wish further education in midwifery at the Master's level. Potential students must hold the CNM/CM credential or be enrolled in a current program accredited or pre-accredited by the ACNM's American Commission on Midwifery Education (ACME, previously the Division of Accreditation). The U.S. Department of Education recognizes the ACME as an accrediting agency. Questions regarding this affiliation or ACNM accreditation can be addressed to: American College of Nurse-Midwives, 8403 Colesville Road, Suite 1550, Silver Springs, MD 20910-6374, (240) 485-1800, www.acnm.org.

At Philadelphia University, we have planned the program to accommodate the work demands of midwives' clinical practice. The program involves extensive reading and participation in online discussions and learning activities. The richness and diversity of experience that each student brings to the discussions has been a source of inspiration for the faculty and students and adds greatly to the rigor of the program. A virtual orientation to the program is provided without requiring travel. This degree is designed for completion without relocating or incurring excessive expenses.

Structure of the Program

The MS in Midwifery Completion Program consists of 36 graduate credits. You will be awarded 24 credits for your American College of Nurse-Midwives (ACNM)-accredited certificate in nurse-midwifery/midwifery. The final 12 credits will be taken through Philadelphia University and will include three required courses and one elective. (See 700 level courses above.)

Admissions

The Admissions Committee uses a variety of criteria in making a decision relative to acceptance. To be eligible for admission to Philadelphia University, you must follow the admissions procedures described above and have the following credentials:

Academic Background

1. A baccalaureate degree from an accredited institution with a minimum cumulative grade point average of 3.0.
2. Educational preparation as a certified nurse-midwife/certified midwife with evidence of graduation from an ACME-accredited program with a minimum cumulative grade point average of 3.0. Student nurse-midwives/student midwives currently enrolled in an accredited ACME program may also enroll in the program, but **will not** receive the M.S. degree until their certificate program has been successfully completed.
3. All applicants must have completed a three-credit undergraduate course in statistics prior to admission.

Personal Statement

Applicants write a short personal statement (criteria available online). This essay will be examined for written communication skills, motivation and time for graduate education.

Professional Resume

Applicants submit an updated resume, which highlights their background and experience.

Standardized Test Scores

The Graduate Record Examination (GRE) or Miller Analogies Test (MAT) is recommended but not required. The standardized test requirement is waived for those applicants who have completed a prior master's degree.

Two Letters of Reference (recent academic or professional)

These letters attest to the applicant's abilities, communication skills and motivation.

Phone Interview

Advanced Placement Options for Nurse Practitioners and Foreign Educated Midwives

The Advanced Placement Option (APO) is an individualized program of study for qualified candidates with previous professional preparation in advanced nursing practice or midwifery. APO students may challenge selected portions of the certificate midwifery program by demonstrating competency. The purpose of the APO is to assure sound preparation in midwifery, while minimizing repetition of learning activities for knowledge and skills already attained. Part-time study or accelerated options may be planned according to class schedules, availability and learner preferences.

Eligibility Criteria for the Advanced Placement Option

1. Applicants must meet all of The Midwifery Institute of Philadelphia's admissions requirements.
2. Documentation of successful completion of a nurse-practitioner or midwifery program, in an institution accredited by the recognized regulatory body for the jurisdiction where the institution is located. NP programs must meet the USA federal accreditation standards. Midwifery education programs located outside of the USA must have a review by a USA credentials evaluation service.
3. No history of any professional credential revocation.
4. A TOEFEL score of 500 or greater, if English is not the applicant's first language.
5. A minimum of two (2) years experience in advanced clinical practice as a nurse-practitioner or midwife within the previous ten (10) years, or graduation from a nurse-practitioner or midwifery education program within the previous three (3) years.
6. For Foreign Educated Midwives (FEMS), work experience as an RN in the USA for at least one (1) year in the preceding five (5) years on a labor/delivery unit.

Master of Science in Occupational Therapy

Dean, School of Science and Health:
Matt Dane Baker, PA-C, D.H.Sc., 215.951.6803 Phone; 215.951.6812 FAX; bakerm@PhilaU.edu.
Program Director: Wendy Krupnick, Ph.D., M.B.A., B.S., OTR/L, 215.951.2530 Phone; 215.951.2526 FAX; krupnickw@PhilaU.edu
Campus Location: Main Campus; classes held eight weekends during each semester: Between class sessions, students complete assignments and participate in on-line learning activities.

Students will be admitted into this program for entrance in the fall semester only.

Degree Program

M.S. in Occupational Therapy

Individuals whose lives are affected by illness, injury, or developmental delay can attain their fullest measure of independence and life satisfaction through expert intervention by an occupational therapist. By helping people to build skills and enhancing how they interact in their environments, occupational therapists help people to function and live life to its fullest.

The entry-level master's degree program is offered in a weekend-format, and features an innovative approach to instructional design and delivery. Faculty incorporate in-class and on-line instructional methodologies to help students to become competent entry-level therapists. Coursework builds on the strengths of the University in the areas of design and health sciences, to provide students with unique perspectives on the delivery of occupational therapy services.

The M.S. in Occupational Therapy prepares professionals to be skilled in the principles of environmental assessment and analysis as they apply to human occupation and adaptation. The program is grounded in client-centered values and evidence-based practice approaches. The curriculum stresses the acquisition of an in-depth understanding of health care issues; professional advocacy; cultural perspectives; environmental demands; physical, developmental and psychosocial functions; and occupation-based interventions. Key learning activities and course assignments require student collaboration with design and merchandising students, as well as practicing health care professionals and community agencies.

One of the unique aspects of the master's program is the student's two-year involvement with a client living in the community. Each semester students complete course assignments with their client to better understand the client's experience and occupational adaptation issues. Students incorporate this information into the master's portfolio project where they reflect on and chronicle their learning and accomplishments from classroom, fieldwork, and portfolio client experiences. The Master's Portfolio project culminates in a capstone presentation to practicing occupational therapists and representatives of other communities of interest.

Consider some of the following features of the graduate program:

- First 22 months of program are conducted in weekend format on campus; program may be completed in as little as 28 months, including Level II Fieldwork.
- Students complete three Level I Fieldwork experiences in a range of practice settings.
- Students are engaged in an on-line clinical reasoning course during the fall Level II Fieldwork.
- Students are linked, through the Internet, with practicing occupational therapists who serve as their professional mentors throughout the program.
- The program focuses on educating practitioners to use evidence to support practice decisions, to work independently and creatively; and to nurture a commitment to lifelong professional development.
- The program is designed for adult learners who are self-directed and good time managers.
- Students are exposed to job opportunities in a wide variety of settings: hospitals, long-term care facilities, psychiatric facilities, hand clinics, rehabilitation centers, pediatric hospitals, schools, home care agencies and other community-based settings.

The Occupational Therapy Program curriculum is based on a frame of reference that is developmental, humanistic and holistic in nature and which emphasizes optimal functioning throughout the life span. The program is designed to prepare strong entry-level practitioners who employ an evidence-based practice approach with the capacity for creative analysis and sound critical thinking.

Occupational Therapy Program Outcomes

To prepare competent and ethical occupational therapists

Upon completion of the program, graduates will be able to:

- Use frames of reference, practice models, and theories of practice to facilitate occupational performance
- Establish effective and therapeutic relationships with clients, their caregivers and families
- Select and use appropriate screening and evaluation methods to determine client needs and priorities and make referrals to other disciplines as indicated
- Incorporate occupation-based and client-centered strategies into therapy sessions to support full participation
- Develop and implement discharge plans that address the client's personal, environmental and occupational needs
- Document services to ensure accountability and meet reimbursement standards
- Work collaboratively and effectively with members of the professional team (interdisciplinary colleagues, administrators, practitioners)

- Advocate for individuals and/or groups who are in need of occupational therapy services by communicating with relevant stakeholders
- Use a variety of approaches to service delivery including direct care, consultation, and collaboration
- Validate the effectiveness of occupational therapy services by objectively measuring its effects on the individual's or group's occupational performance
- Locate, evaluate and apply research findings to promote best practice in occupational therapy
- Clarify the skilled nature of occupational therapy services through appropriate written and spoken language

To prepare graduates who possess a commitment to professionalism and lifelong learning

Upon completion of the program, graduates will be able to:

- Implement skilled, humanistic, ethical and high caliber services
- Engage in a lifelong process of professional development to assure competence and adherence to accepted practice standards
- Explain the roles, functions, and benefits of occupational therapy services to a range of audiences
- Use feedback to develop and refine professional attitudes and behaviors
- Respect the value of diversity
- Apply analytic reasoning to patient/client care and clinical research
- Comply with professional codes of ethics, practice standards, and legal regulations governing the practice of occupational therapy

Unique Program Requirements

Successful students in this type of learning program are self-motivated and disciplined. The program will involve extensive reading and off-campus learning activities. Students must enjoy learning through a visual medium. In addition, students must have an ability to express themselves well in written format and a desire to increase their abilities to think and write critically.

All students must have access to a computer with internet access, virus protection and the following minimum requirements:

PC System
Pentium 4 Processor at 2.8 GHz
40 Gigabyte Hard Drive
1 GB RAM
128 MB video memory
CD-RW or DVD Drive
100BaseT network interface card
Microsoft Windows XP Home or Professional
Microsoft Office XP or Vista
Web cam (recommended)
Microphone & speakers
Headset with build-in microphone

Macintosh System
G-5 Processor at 1.8 GHz
60 Gigabyte Hard Drive
1 GB RAM
64 MB video memory
D-RW or DVD Burner
100BaseT network interface card
Mac OS X version 10.3 or higher
Microsoft Office 2004 for Mac
Web cam (recommended)

Prerequisite Course Requirements

COURSES	CREDITS
Anatomy and Physiology I (with Laboratory)	4
Anatomy and Physiology II (with Laboratory)	4
Science (Physics recommended)	4
Developmental Psychology or equivalent (Lifespan)	3
Abnormal Psychology or equivalent	3
Statistics	3
Sociology/Anthropology/Culture I or equivalent	3
Sociology/Anthropology/Culture II or equivalent *(should have an emphasis on cultural diversity)*	3
Other	
Basic word-processing and presentation skills	
TOTAL CREDIT HOURS	**27 CREDITS**

Core Curriculum

The coursework is sequenced in a planned progression in order to build upon and develop knowledge and skills at increasing levels of complexity, competence and integration. Upon the completion of the second year, students must participate in two full-time, Level II Field work affiliations.

YEAR ONE

FALL SEMESTER

OCC612 Foundations for Practice Seminar (August)	1
OCC610 Portfolio Seminar	1
OCC611 Foundations for Practice	3
OCC613 Functional Anatomy	4
OCC624 Dimensions of Human	1
OCC625 Clinical Skills A	1

SPRING SEMESTER

OCC615 Assistive Device Design	1
OCC621 Occupational Competence	3
OCC623 Applied Neuroanatomy	4
OCC626 Evidence-Based Practice	3
OCC 635 Clinical Skills B	1

SUMMER SEMESTER

OCC631 Conceptual Assumptions for OT Practice	3
OCC645 Clinical Skills C	1
OCC 735 Level I Fieldwork A	1
OCC736 Assessment and Intervention: Adults	4
OCC741 Interpersonal Relations and Dynamics of Collaboration	3
TOTAL YEAR ONE	**37 CREDITS**

YEAR TWO

FALL SEMESTER

OCC745 Level I Fieldwork B	1

OCC746 Psychosocial Interventions	4
OCC756 Assessment & Intervention: Children & Youth	4
OCC754 Environmental Dimensions of Occupation	3
SPRING SEMESTER	
OCC751 Professional Issues and Trends	3
OCC755 Level I Fieldwork C	1
OCC757 Innovative Practice in OT	3
OCC 760 Practice Platform Seminar	1
OCC766 Older Adults: Enabling Participaton	2
SUMMER I SEMESTER	
OCC763 Clinical Mastery (May-June)	2
OCC764 Specialty Practice (May-June)	2
TOTAL YEAR TWO	**26 CREDITS**
YEAR THREE	
FALL SEMESTER AND/OR SPRING SEMESTER	
OCC771 Level II Fieldwork A(July-Sept or Oct-Dec)	3
OCC775 Clinical Reasoning I (July-Sept or Oct-Dec)	1.5
OCC781 Level II Fieldwork B	3
OCC785 Clinical Reasoning II (Oct-Dec or Jan-Mar)	1.5
TOTAL DEGREE CREDIT HOURS	**72 CREDITS**

Note: All occupational therapy students must complete Level II Fieldwork within 15 months beyond the date of completion of the final didactic semester.

Admissions Criteria

Any individual who has or is about to receive a bachelor's degree from an accredited college or university is eligible to apply. The Graduate Program in Occupational Therapy leading to the Master of Science is designed to accommodate students from all undergraduate disciplines. Students in the Occupational Therapy Program will be selected on a competitive basis from candidates submitting complete applications with all required supporting materials to the Office of Graduate Admissions.

Academic Background
A bachelor's degree from an accredited institution with a minimum cumulative grade point average (GPA) of 3.0, and completion of all prerequisite foundation coursework with an average 3.0 GPA is required. Candidates may apply for consideration prior to completion of all prerequisite requirements as long as a reasonable plan for completion of required coursework prior to entrance into the program is delineated. All prerequisite foundation courses must be completed prior to matriculation in the program.

Two Letters of Reference
(one academic and one professional)
These letters should examine the applicant's abilities, communication skills, motivation, interpersonal skills and emotional responsibility.

Personal Interview
After application materials are screened, qualified applicants will be invited to campus for an interview with a member of the Occupational Therapy Program faculty. Areas reviewed include awareness of the profession, motivation for pursuing an Occupational Therapy career, interpersonal and oral communication skills, compassion, problem-solving abilities and preparation for the weekend-format educational experience.

Personal Essay
Students should write and submit a career goals essay with their application materials (approximately 500 words). The essay will be examined for written communication skills, knowledge of the occupational therapy field, and motivation for the profession.

Standardized Test Score
Students will need to submit results of either the Graduate Record Examination (GRE) or Miller Analogies Test (MAT) with their application. This requirement is waived for students who posses a master's degree.

Professional Resume
Students must submit a resume that highlights their background and experience. Faculty believe that enrollment of students with diverse cultural, geographic, academic, and employment backgrounds enriches the learning experience and helps sensitize Occupational Therapy Program students to the unique characteristics of the diverse patient populations they will work with as health care providers.

Clinical Observation Hours
Students should submit documentation of 20 hours of clinical observation under the supervision of an occupational therapist before beginning the professional program. Applicants are encouraged to complete clinical observation hours as early as possible. Students who are unable to complete observations prior to submitting the admission application must include a letter outlining a plan for completion of these hours with their applications. An *Observation Documentation* form can be located on the Occupational Therapy Program website: www.PhilaU.edu/ot.

Acceptance Classifications

Students may be admitted to this program under one of the following acceptance classifications:

Full Acceptance
Students who have met all admissions requirements with satisfactory performance as judged by the OT Program's Admission Committee are granted full acceptance. Full acceptance is granted only when the student's file is complete, and all the program-specific requirements for entry have been met. A complete file includes official copies of standardized test scores, official copies of academic transcripts, two recommendations, a completed application, a personal essay, a professional resume and the OT Program Admission Committee's assessment of an applicant's interview. **The standardized test requirement is waived for those applicants who have completed a prior master's degree.**

Conditional Acceptance
Students may be offered a conditional acceptance classification under one of the following circumstances:

A student's file is missing evidence that he/she has successfully completed all prerequisite coursework. Prior to admission under this category, students must show evidence

of registration for all outstanding prerequisite courses. Students will not be allowed to take any courses in the program prior to completion of all prerequisite coursework. Upon successful completion of all prerequisite course requirements, students must apply to the Office of Graduate Admissions for a change in admission status.

A student's file is missing evidence that he/she has successfully completed the standardized test requirement. All standardized testing must be completed prior to entry into the program. Students will not be allowed to take any courses in the program prior to completion of the standardized test requirement. Upon successful completion of the standardized test requirement, students must apply to the Office of Graduate Admissions for a change in admission status.

All students must be fully accepted into the Occupational Therapy Program before they can enroll in any Occupational Therapy courses.

Accepted Student Requirements

Students in the Occupational Therapy Program are expected to fulfill the following requirements during their student experience at Philadelphia University.

A. Obtain materials and/or complete documentation required for Fieldwork:
   a. Health Clearance (by August, New Student Orientation)
      i. Annual physical examination (use PhilaU Student Health Medical Record Form)
      ii. Annual update of immunizations according to fieldwork site requirements
      iii. Annual proof of active health insurance coverage
   b. Legal Clearance
      i. Annual criminal background check (www.CertifiedBackground.com)
      ii. Annual child abuse history clearance
      iii. Requirements unique to specific fieldwork sites. Many settings require students to be fingerprinted, undergo a drug screening, and/or gain clearance from the PA Sex Offender Registry. Students are responsible for the costs of these processes, as well as for transportation arrangements and costs associated with fieldwork experiences. Information regarding how to meet these requirements is provided by the program.
   c. CPR certification (required prior to Level II Fieldwork)

B. Maintain professional organization memberships (highly recommended):
   a. Philadelphia University Student Occupational Therapy Association (SOTA)
   b. American Occupational Therapy Association (AOTA)
   c. Pennsylvania Occupational Therapy Association (POTA) (or other state OT association)

Certification/ Licensure Requirements To Practice Occupational Therapy

To practice as an occupational therapist, students must satisfy all the requirements for the MS in Occupational Therapy degree, including maintaining a 3.0 GPA, satisfactory completion of fieldwork, and complete the following:

A. Apply for Philadelphia University graduation through the Registrar's Office
B. Apply for and pass the *NBCOT national certification exam as a prerequisite for state licensing
C. Complete the PA (or other state) *licensing application

**A felony conviction may affect a student's ability to be placed at a fieldwork setting, sit for the certification exam or to attain state licensure.*

Accreditation and Certification

The Occupational Therapy Program is accredited by the Accreditation Council for Occupational Therapy Education (ACOTE) of the American Occupational Therapy Association (AOTA), located at 4720 Montgomery Lane, P.O. Box 31220, Bethesda, MD 20824-1220. ACOTE's phone number is 301.652. 2682. Graduates of the program are eligible to sit for the national certification examination administered by the National Board for Certification in Occupational Therapy (NBCOT). After successful completion of this exam, the individual will be an Occupational Therapist, Registered (OTR). In addition, most states require licensure in order to practice; however, state licenses are usually based on the results of the NBCOT Certification Examination. It should be noted that a felony conviction may affect a graduate's ability to sit for the NBCOT certification examination or attain state licensure.

Occupational Therapy Program Academic Standards

The Occupational Therapy Program admission criteria are designed to select candidates who are most likely to succeed both in the University academic environment as well as in OT professional practice. While the Program faculty is dedicated to assisting students in their professional education, the student also has responsibilities. Students enrolled in the program must demonstrate achievement in academic and clinical competencies necessary for professional practice, and meet academic standards consistent with graduate school criteria. Students must also demonstrate effective professional behavior as detailed in the *Standards of Professional Behavior* (see *OT Student Handbook*). In order to remain in good academic standing, students must meet the following standards. These academic standards are in addition to the university academic standards as described in the Graduate Catalog and on the Philadelphia University web site.

Retention and Progression

1. Grade Point Average
   a. A minimum overall 3.0 grade point average (GPA) in Occupational Therapy coursework must be maintained each semester. A semester GPA below 3.0 will result in probation for the following semester.

b. If the semester GPA is below 3.0 for two consecutive semesters, the student will be suspended from the full-time program.
c. A student must attain a minimum overall 3.0 GPA prior to enrolling in Level II fieldwork courses.
d. A student must achieve a minimum overall 3.0 GPA to be eligible to graduate.
e. A student may not receive more than two grades below B- while in the OT Program.
f. If a grade of "F" is obtained in a non-fieldwork course, the student will be dismissed from the program.
g. If there is more than 12 months of inactivity in coursework, or there are more than 12 months since completion of the last Level II fieldwork, students will be required to repeat all of the assessment and intervention courses, or demonstrate academic and clinical competency in each of these courses, via examination, to be eligible to graduate.

2. Competency Grading
   a. Each student is expected to pass every competency on the first attempt with a minimum passing grade of 80%. If unsuccessful, the student will be allowed one retake of the competency; the highest grade that can be earned will be 80%.
   b. Students must earn a competency grade average of 80% or higher within each course. Students who are unable to earn the minimum 80% average must enter into a remediation program defined by the course faculty.
   c. Each student is expected to demonstrate proficiency in all safety items in order to successfully pass the competency.
3. Fieldwork
   a. Students must receive satisfactory reports and evaluations from all fieldwork educators to receive fieldwork credit ("CR").
   b. If a grade of "NC" (no credit) is obtained in a fieldwork, the student must develop a written plan of self-correction prior to being placed in another fieldwork. A fieldwork may be repeated only once, and the student must achieve a "CR" (credit) grade on the second attempt. If a student receives a grade of "NC" in two fieldwork courses, the student will be dismissed from the program.
   c. Students receiving a "NC" grade, including "W" (withdrawal") in fieldwork will be placed on probation. The student must re-register and repeat the fieldwork in order to progress in the program. Repetition of a fieldwork could delay graduation. Withdrawal for medical or personal reasons, and approved by program faculty, will not result in probation.
   d. A student must earn a grade of "CR" in all fieldwork in order to graduate.

Probation, Suspension and Dismissal

1. Probation – students whose academic records include one or more of the following will be placed on academic probation:
   a. A student who has a cumulative grade point average below 3.0.
   b. A student who has received grades below "B-" in two courses.
   c. A student who receives a grade of "C" or "C-" in any course will be placed on probation for the next semester. Probation for two consecutive semesters will result in suspension. Probation for three semesters will result in dismissal.
   d. A student who receives verbal or written reports from fieldwork educators indicating non-adherence to site regulations, site schedule, ethical standards of conduct, or engagement in behavior that puts patient/ client safety at risk.
   e. A student who violates the OT Program's *Standards of Professional Behavior* or *AOTA Code of Ethics*.
2. Suspension
   a. Suspension means that the student may not progress in the full time program. A program of remediation will occur during a pre-determined time period. The student must successfully complete remediation activities in order to re-enter the program. Students who are unsuccessful with remediation activities will be dismissed.
   b. Since the program is a lock-step curriculum, courses that were not successfully completed cannot be repeated until the following year. A second suspension results in dismissal.
   c. Repeated violations of the OT Program's *Standards of Professional Behavior* or *AOTA Code of Ethics* are also grounds for suspension.
3. Dismissal – students whose academic records include one or more of the following will be dismissed:
   a. Student fails to meet minimum academic standards listed above.
   b. Student receives a grade of "F" in a non-fieldwork course.
   c. Student fails or receives an "NC" in two fieldwork experiences.
   d. Student has two suspensions.
   e. Student has three probations.
   f. Student displays egregious conduct that violates professional and/or legal standards, and/or University regulations regarding academic and professional conduct.

   Students who are dismissed from the OT Program for academic conduct or any other reason are not typically readmitted. In special circumstances, dismissed students may be considered for re-entry. A student who is academically dismissed from the OT Program may apply for readmission only after

a period of at least one year. To be considered for re-entry students must have developed and implemented an action plan that would facilitate successful academic performance. Refer to the re-entry policy in the OT Program Student Handbook for further information.

Students who withdraw from the OT Program may have their records reviewed for possible readmission by program faculty. Readmission will be determined by the faculty based on this review and any additional criteria required at the discretion of the faculty. Refer to the University catalog for further information regarding procedures.

Level II Fieldwork

1. Certification for Level II Fieldwork – students must have demonstrated: 1) the ability to meet the academic and program standards outlined in the *OT Student Handbook*, and 2) effective interpersonal communication, professional behavior, and judgment necessary for the field setting to be recommended by the faculty for fieldwork.
   a. By the terms of the University's contractual agreement with fieldwork sites, only students who have satisfactorily completed the requisite professional courses and demonstrate safety and proficiency in all competencies will be placed in fieldwork.
   b. Faculty will formally review all students' progress at the end of the spring semester of the second year of professional coursework (or equivalent) to ensure that students are demonstrating mastery of material and are ready for Level II fieldwork. This appraisal includes a review of students' grades, clinical skills, and professional behavior. Faculty retains the final decision to approve students for fieldwork placements.
   c. Students who frequently display unprofessional behavior and/or judgment, or who are unable to address professional behavior concerns that have been identified by faculty, will be required to appear before a sub-group of the OT Program faculty that includes at a minimum the fieldwork coordinator, program director, and faculty advisor. This faculty group may impose sanctions which can include probation, suspension or dismissal from the program, and/or delay the student from engaging in the fieldwork portion of the curriculum.
   d. Students must successfully complete Level II fieldwork within 15 months beyond the date of completion of the final didactic semester or repeat selected course(s), and/or demonstrate academic and clinical competency in selected course(s) prior to beginning fieldwork experiences.
   e. Failure to complete a fieldwork or having to be removed from a placement may result in a student's dismissal from the program. Students who need to repeat more than one Level II fieldwork due to unsatisfactory performance will be dismissed from the program.

Master of Science in Physician Assistant Studies

Dean, School of Science and Health:
Matt Dane Baker, PA-C, D.H.Sc., bakerm@PhilaU.edu; 215.951.2870 Phone; 215.951.2615 FAX.
Program Director: Michael Rackover, PA-C, M.S., 215.951.2908 Phone; 215.951.2526 FAX; rackoverm@PhilaU.edu.
Campus Location: Main campus, Hayward Hall, Suite 224

Full-time, day program. Students admitted for entrance annually August 1 only.

Degree Program

M.S. in Physician Assistant Studies

Combined Degree

B.S. in Health Sciences/M.S. in Physician Assistant Studies*

M.B.A./M.S. in Physician Assistant Studies

Options

- Five-Year Freshman Admission B.S./M.S.
- Three-Year M.S./M.B.A.

** See undergraduate catalog for curriculum information*

The Profession

A physician assistant, or PA, is a qualified medical professional who practices medicine with the supervision of a licensed physician. PAs provide a wide variety of medical services traditionally performed by physicians. The concept for the profession originated in the early to mid-1960s as a way to enhance the provision of medical care to people residing in medically underserved areas. The care of the underserved remains an ongoing goal of the profession.

Physician assistants work in all 50 states, Guam and the District of Columbia in a range of medical settings including physicians' offices, hospitals, clinics, emergency departments, military and Veterans Administration installations, nursing homes, industrial health centers and correctional institutions. They always work in conjunction with a physician and can have an array of responsibilities including medical history taking, physical examination, ordering or performing lab and other diagnostic tests, synthesizing data to make a proper diagnosis, developing a treatment plan, monitoring patient progress, providing health-related counseling and performing various procedures such as casting and suturing and assisting in surgery. PAs can prescribe medications in all states.

Program Description and Features

The Philadelphia University Physician Assistant Studies program is part of the School of Science and Health. It is a comprehensive academic experience that stresses the practical application of current medical theory. Most of the program faculty are actively practicing health care providers with a great depth of knowledge and experience. Students are exposed to the clinical environment throughout their education

with patient contact even during the classroom or didactic portion of the program.

The Physician Assistant Studies program is fully accredited by the Accreditation Review Commission on Education for the Physician Assistant, Inc. (ARC-PA). This program is available full-time, day only. The clinical or practical portion may involve some night and weekend hours.

Curriculum

The program is 25 months of continuous study and includes the didactic level consisting of three semesters of classroom and laboratory work in basic and applied medical science, and the clinical level consisting of six rotations and four preceptorships at a variety of clinical sites such as hospitals and medical offices. The first semester of the didactic level begins in late July each year. Students must complete all didactic-level courses before they can enter the clinical level.

Overview of Clinical Training

Upon successful completion of the didactic-level courses, the PA student proceeds into the clinical-education level of the program. The PA student will spend approximately 14 months in clinical rotations and preceptorships. This is divided into 10 five or six-week blocks.

Clinical Rotations

The required clinical rotations are five or six-week blocks in the areas of internal medicine, pediatrics, surgery, psychiatry/mental health, women's health and emergency medicine and are designed to expose the PA student to patient care in a variety of settings. The student is directly involved with the evaluation and management of patients to the extent that the clinical preceptor or supervisor is comfortable with the level of knowledge and skills of the PA student.

Preceptorships

These clinical education experiences are designed to enhance the PA student's knowledge, technical skills, clinical judgment and confidence in the evaluation and management of common medical problems. One of these must be completed as a 12-week (two six-week blocks) experience in an ambulatory, primary-care setting such as an outpatient family practice office or center.

The remaining preceptorship experiences include the Floating Medicine Block in a medically related specialty such as family, internal or geriatric medicine, and the clinical elective. During the elective, students can spend more time in one of their rotation specialties or gain experience in other settings such as neonatology, HIV, correctional medicine, urology, orthopedic surgery, cardiothoracic surgery and others.

Program Specific Costs

The typical student in the Physician Assistant Studies program will spend approximately $3,000 on medical equipment, a personal digital assistant (PDA), books, malpractice liability insurance and other program-related fees for both professional phase years combined. This does not include tuition, housing, food, living expenses, travel costs, health center fees and graduation fees. All of these costs are listed elsewhere in the catalog.

Students should have access to a personal computer. Students will be given an Internet account from the University and access to the University academic computing labs.

Prerequisite Course Requirements

COURSES	CREDITS
Science	
Chemistry I	4
Chemistry II or Organic Chemistry	4
Biology I	4
Biology II or Genetics	4
Anatomy and Physiology I or Anatomy	4
Anatomy and Physiology II or Physiology	4
Microbiology	3 or 4
Psychology	
Introduction to Psychology	3
Writing	
English Composition	3
Mathematics	
One college-level math or statistics course	3
Other	
Three-month patient care or human service experience	
Medical Terminology	1

Note: Additional psychology and chemistry courses, and a genetics course are strongly advised and highly desirable.

Due to changes in science and the importance of science prerequisites as a basis for the study of PA curriculum, all science courses should be no more than seven years old. A waiver of this limit can be given to individuals who have worked in a scientific field on a regular basis, or who have completed several current higher-level science courses. Candidates must write a letter to the PA Program Admissions Committee requesting this waiver of the seven-year limit.

Core Curriculum

YEAR ONE

FALL SEMESTER		
PASF507GR	Advanced Anatomy	5
PASF513GR	Medical Physiology and Pathophysiology	3
PASF511GR	Applied Behavioral Science	3
PASF517GR	Medical History and Physical Diagnosis	5
PASF510GR	Medical and Professional Ethics	2
PASF521GR	Medical Genetics, Immunology and Microbiology	2
CREDIT HOURS		**20**
SPRING SEMESTER		
PAS611	Clinical Medicine	8
PAS612	Clinical Reasoning	2
PAS613	Pharmacology and Pharmacotherapeutics	4
PAS614	Emergency Medicine	3
PAS615	Laboratory Medicine	2
CREDIT HOURS		**19**
SUMMER 1 SEMESTER		
PAS621	Clinical Disciplines Overview (Surgery, Pediatrics, OB/GYN)	6

PAS622	Pharmacotherapeutics Seminar	1
PAS623	Advanced Radiology/ECG Seminar	1
PAS624	Biomedical Literature and Research	3

SUMMER 2 SEMESTER

1 Clinical Rotation	6
CREDIT HOURS	**17**

YEAR TWO

FALL, SPRING, SUMMER 1, AND SUMMER 2 SEMESTERS

5 Clinical Rotations (6 credits each)	30
Primary Care Preceptorships IA and IB	12
Preceptorship IIA and IIB: Floating Medicine Block and Elective	12
PAS771 PA Master's Project & Summary Competency Evaluation **	3
CREDIT HOURS	**57**

Clinical Rotations

PAS741	Internal Medicine Rotation
PAS742	Pediatrics Rotation
PAS743	Women's Health Rotation
PAS744	Psychiatry/ Mental Health Rotation
PAS745	Surgery Rotation
PAS746	Emergency Medicine Rotation

Clinical Preceptorships

PAS759	Preceptorship IA: Primary Care 1
PAS760	Preceptorship IB: Primary Care 2
PAS763	Preceptorship IIA: Floating Medicine Block
PAS764	Preceptorship IIB: Elective

TOTAL GRADUATE CREDIT HOURS **113 CREDITS**

*** Taken over entire clinical year*

Application Procedure

Philadelphia University is participating in the Centralized Application Service for Physician Assistants (CASPA). To apply for admission into the M.S. in Physician Assistant Studies program at Philadelphia University, please visit the CASPA web site at www.caspaonline.org. Application for admission will only be accepted through the CASPA service.

You must request that official copies of your transcripts be sent directly to CASPA by the institution(s) attended. Student copies of transcripts or copies sent to CASPA directly by the applicant are not acceptable. Letters of reference should also be sent directly to CASPA from the person making the reference. Your GRE scores, however, should be sent directly to Philadelphia University Office of Graduate Admissions by Educational Testing Services. Philadelphia University's school reporting code is #2666.

Once admitted the student must provide Philadelphia University with an original transcript of their bachelor's degree education. This is necessary to grant the MS degree, as the CASPA service maintains the original transcripts.

Admission Requirements

The Accreditation Review Commission on Education for the Physician Assistant—Accreditation Standards for Physician Assistant Education: "The role of the physician assistant demands intelligence, sound judgment, intellectual honesty, appropriate interpersonal skills, and the capacity to react to emergencies in a calm and reasoned manner. An attitude of respect for self and others, adherence to the concepts of privilege and confidentiality in communicating with patients, and a commitment to the patient's welfare are essential attributes of the graduate PA."

Admission to the Physician Assistant Studies program is competitive. Applicants are selected based on a committee's assessment of their ability to successfully complete the training and competently function in the role of the profession as defined by the ARC-PA as printed in the Accreditation Standards for Physician Assistant Education, the State of Pennsylvania as published in the Medical Practice Act and the program. Candidates must have the physical, emotional, and intellectual attributes necessary for success in this type of training.

Selection Criteria

Students in the PA program will be selected from candidates submitting complete applications with all required supporting material to the Central Application Service of Physician Assistants (CASPA) at www.caspaonline.org. The Physician Assistant Admissions Committee uses a variety of criteria to make admission decisions. These can include:

- Academic experience including: a) previous college curriculum difficulty, institution, cumulative grades, science course grades and graduate study; b) college entrance exam scores such as GRE or MAT; and c) academic patterns such as most recent academic performance, credit load, withdrawals and incomplete courses. Since the graduate school requires the maintenance of a 3.00 GPA, applicants with a combined (all college grades) GPA below 3.00 rarely gain admission into the program;
- Health care or human service experience with consideration to type and duration. This can include both paid and volunteer experience;
- A personal essay that examines written communication skills, knowledge of the PA profession and motivation for the profession;
- Three letters of reference on prescribed forms that examine the applicant's abilities, communication skills, motivation, interpersonal skills and emotional maturity from those familiar with your professional or academic abilities, such as a professor or supervisor;
- The amount of prerequisite coursework the applicant has left to complete, along with the applicant's plan for completion. Students who have not completed all prerequisites prior to application can be admitted on a "conditional basis";
- Personal interview. The most qualified applicants from the general applicant pool may be invited to come to the University for a personal interview. This interview

attempts to ascertain an applicant's knowledge of the profession, motivation for pursuing a PA career, interpersonal and oral communication skills, compassion, problem-solving abilities, preparation for the educational experience and dedication to providing care to the underserved;

- Diversity. The PA program believes that enrollment of students with a wide diversity of cultural, geographic, academic and occupational backgrounds enriches the learning experience and helps in sensitizing PA students to unique characteristics of diverse patient populations with whom they will work as health care providers.

Master of Science in Sustainable Design

Dean, School of Architecture:
Vini Nathan, PhD., 215.951.2828 Phone, 215.951.2110 FAX, nathanv@PhilaU.edu
Program Director: Rob Fleming, RA, MARCH, LEED AP, 215.951.2745 Phone, 215.951.5657 FAX, flemingr@PhilaU.edu
Campus Location: Philadelphia University Research Center, Manayunk, Philadelphia
Web Site: www.PhilaU.edu/green

Degree Program

M.S. in Sustainable Design

Sustainable Design is an emerging discipline focused on the design of buildings, spaces, objects, and systems that are energy efficient and non-damaging to the planet's ecosystems. The Master of Science in Sustainable Design (MSSD) Program offers the opportunity to explore different avenues of study, ranging from design exploration to applied research. The program prizes collaboration between seemingly disparate fields from architecture to construction management to engineering and employs faculty from those diverse fields to underscore the importance of interdisciplinary design in the program. Building on a historical strength of the University, the MSSD program features special lab and design-build courses focusing on green materials. As a graduate of the program, students will become proficient in sustainable design or participate significantly in the sustainable design process: a technically challenging, rapidly evolving and vitally important development for the future of our planet.

Curriculum Design

The Curriculum of the MSSD Program features three teaching/learning strategies: Lectures build overall knowledge base about sustainability, while providing detailed information on materials, construction systems, life-cycle analysis and green-building documentation metrics such as the Leadership in Energy and Environmental Design (LEED) rating system. Labs will develop an "informed intuition" about the relationship between the natural and built environments as a means to think and design in a
standard design and construction projects. Studios will synthesize the knowledge base and informed intuition into larger, more complex projects that draw upon creativity, ingenuity and innovation as key approaches to problem solving and design conceptualization. Studio-based learning incorporates one-on-one communication with faculty, group projects with other students from diverse disciplines, and a student driven final "synthesis" project that allows each student to conduct specialized research or design project

Degree Options

The MSSD Program offers students three ways to complete their degree: 2-year part-time program; 1 calendar year

accelerated program; and a 2-year full time research oriented program.

2-Year Part-Time Option
The 2-year part-time program is ideal for the working professional who is seeking to gain specific expertise in sustainable design and who wants to add credentials in this rapidly growing field. This program typically entails 2 nights per week of classes totaling 6 credits. Classes begin in late afternoon or evening with 3:30 PM as the earliest start time. It is recommended that students inform their employers of their academic schedule in order to maintain a balance between the demands of course work and office responsibilities. Students may elect to take one course per semester.

12 Month Accelerated Full Time Program
This 12 month accelerated full time degree program allows students to focus on green building design in an intensive educational experience. Due to the course sequencing requirements to achieve this degree in 12 months, only those with degrees and some experience in the design of the built environment will be admitted to this program. This program is not for those students wishing to work while attending school.

2 Year Full Time Program
This 2-year full time program allows students to spend the time needed to delve deeply into the more detailed aspects of sustainable design, engineering and architecture. Students in this track will be encouraged to plug into ongoing research projects at the Engineering and Design Institute as well as other grant funded projects at the University. This track is most suitable to those students who are accepted as graduate research assistants or for international students seeking educational opportunities in this country..

2-Year Part-Time Program

(33 graduate credits)

YEAR I

FALL SEMESTER

SDN 601	Sustainable Design Methodologies	3
SDN 604	Green Materials	3

SPRING SEMESTER

SDN 602	Adaptive Design	3
SDN 603	Sustainable Systems	3

SUMMER SEMESTER

SDN 710	Green Design Build	3
or		
SDN ___	Elective	

YEAR II

FALL SEMESTER

SDN 611	Sustainable Design Studio	6

SPRING SEMESTER

SDN 900	Thesis in Sustainable Design I	6

SUMMER SEMESTER

SDN 901	Thesis in Sustainable Design II	6

TOTAL CREDIT HOURS **33 CREDITS**

12 Month Accelerated Full-Time Program

(33 graduate credits)

YEAR I

FALL SEMESTER

SDN 601	Sustainable Design Methodologies	3
SDN 604	Green Materials	3
SDN 611	Sustainable Design Studio I	6

SPRING SEMESTER

SDN 602	Adaptive Design	3
SDN 603	Sustainable Systems	3
SDN 900	Thesis in Sustainable Design Studio I	6

SUMMER SEMESTER

SDN__	Green Design Build or Elective	3
SDN 901	Thesis in Sustainable Design Studio II	6

TOTAL CREDIT HOURS **33 CREDITS**

2-Year Full Time Program

(36 graduate credits)

YEAR I

FALL SEMESTER

SDN 601	Sustainable Design Methodologies	3
SDN 611	Sustainable Design Studio	6

SPRING SEMESTER

SDN 603	Sustainable Systems	3
SDN 602	Adaptive Design	3
SDN___	Elective	3

YEAR II

FALL SEMESTER

SDN 900	Thesis in Sustainable Design Studio I	6
SDN 604	Green Materials	3

SPRING SEMESTER

SDN 901	Thesis in Sustainable Design Studio II	6
SDN___	Elective	3

TOTAL CREDIT HOURS **36 CREDITS**

Master of Science in Taxation

Dean, School of Business Administration:
Russel F. Kershaw, Ph.D. 215.951.2827 Phone, 215.951.2652 FAX, kershawr@PhilaU.edu
Assistant Dean, Graduate Business Programs: MarySheila E. McDonald, J.D., 215.951.2950 Phone, 215.951.5300 FAX, mcdonaldm@PhilaU.edu
Campus Location: Main Campus

Degree Program

M.S. in Taxation

Combined Degree

M.B.A./M.S. in Taxation

The M.S. in Taxation is geared to practicing accountants in the fields of public, corporate and governmental accounting, and lawyers, financial managers and planners who need extensive information and formal study in taxation. The program is practitioner-focused and is strongly linked to business practice. Outstanding faculty bring the highest level of expertise into the classroom.

Students select from an innovative and state-of-the-art curriculum. Computer applications are integrated in the total curriculum where appropriate. All courses are taught based on the most up-to-date tax laws, and the implications of proposed changes in tax legislation will be discussed.

Students may take courses toward the degree or as Continuing Professional Education (CPE) credits to meet bi-annual state CPE requirements to maintain their C.P.A. license or to enhance their expertise in a specific topic.

The distinguished faculty includes partners and managers from national, regional and local C.P.A. firms and governmental entities; noted tax attorneys; and specialists in many tax areas such as real estate, financial planning, state and local taxation, and estate and gift taxation.

Course Requirements

The basic course content of all core and elective courses presumes students' undergraduate degrees include the following foundation courses:

Foundation Courses	
MBF501	Introduction to Computer Skills (one credit)
MBF503	Foundations of Economic Analysis
MBF504	Introduction to Financial and Managerial Accounting
MBF511	Decision Making in the Legal Environment of Business

Core Courses	18 Credits
TAX660	Individual Taxation
TAX662	Corporation Taxation
TAX664	Tax Research
TAX765	Taxation of Flow-Through Entities
TAX793	State and Local Taxation
TAX795	Estate and Gift Taxation

Electives	12 Credits

A minimum of four elective courses in taxation.

TOTAL CREDIT HOURS **30 CREDITS**

Waiver of Foundation Courses

Students with satisfactory equivalent undergraduate or graduate records may have some or all of these foundation courses waived. To be exempt from the foundation courses, the following criteria must be met:

1. Grades of "C" or better in undergraduate equivalents. Students may not waive more than five courses in which they have received grades of "C." Waived courses are to be determined by the assistant dean for Graduate Business Programs.
2. Seven-year time limit between date of matriculation into the M.S. in Taxation program and time when undergraduate course was taken.
3. Undergraduate equivalents must be from an accredited university or college.

Upon successful completion (or waiver) of the foundation courses, students enroll in the core courses of the M.S. in Taxation program. The foundation courses must be completed or waived before enrolling in core courses.

M.B.A./M.S. in Taxation

The M.B.A./M.S. in Taxation allows students to combine two innovative graduate business programs. Students gain a strong foundation of business knowledge and can pursue a special interest in taxation and accounting.

Foundation Courses (May be waived based on prior academic record)	
MBF501	Introduction to Computer Skills (one credit)
MBF503	Foundations of Economic Analysis
MBF504	Introduction to Financial and Managerial Accounting
MBF505	Financial Management
MBF506	Marketing Foundations
MBF508	Statistical Analysis for Business Decisions
MBF509	Management Concepts
MBF510	Operations Management
MBF511	Decision Making in the Legal Environment of Business

Core Courses	42 Credits
MBA625	Management Communications and Negotiation
MBA626	Global Managing in the 21st Century
MBA627	Management of Information Through Technology
MBA628	Accounting for Management Decisions
MBA629	Financial Policy and Planning
MBA630	Quantitative Methods in Decisions
MBA632	Strategic Marketing Management
MBA642	Strategic Planning in a Global Environment
TAX660	Individual Taxation
TAX662	Corporation Taxation
TAX664	Tax Research
TAX765	Taxation of Flow-Through Entities
TAX793	State and Local Taxation
TAX795	Estate and Gift Taxation

Taxation Electives	12 Credits

Graduate Taxation courses

TOTAL DEGREE CREDIT HOURS **54 CREDITS**

Master of Science in Textiles

Dean, School of Engineering and Textiles: David Brookstein, Sc.D., 215.951.2751 Phone, 215.951.2651 FAX, brooksteind@ PhilaU.edu
Program Director: Claire Beevers: M.S. in Textile Design. 215.951.2511 Phone, beeversc@PhilaU.edu.
Program Director: Jeremy Rosenau: M.S. in Fashion Apparel Studies. 215.951.2791 Phone, rosenauj@PhilaU.edu.
Program Director: Brian George, Ph.D.: M.S. in Textile Engineering. 215.951.2782 Phone, georgeb@PhilaU.edu.
Campus Location: Main Campus

Degree Programs

M.S. in Fashion Apparel Studies
M.S. in Textile Design
M.S. in Textile Engineering

Combined Degrees

B.S./M.S. in Fashion Apparel Studies*
B.S./M.S. in Textile Design*

** See undergraduate catalog for curriculum details.*

The M.S. in Textiles programs are intended to develop the student's analytical, creative and problem-solving skills appropriate to a professional person seeking a senior position in textiles and related industries.

Through common core courses, M.S. in Textiles programs bring together graduate students with differing professional goals and interests within the textile field.

In the planning of the programs, careful attention has been given to ensure that: (1) there is balance between theory and practice; (2) the student is able to develop research skills and capabilities; and (3) the student has a culminating capstone experience during the final semester, through the completion of a technical research project, a scholarly thesis, a marketing project or a design collection.

The course credits are spread over three stages. In the case of full-time students, this would equate to three to four semesters, assuming that no foundation courses are required. The availability and rotation of courses at each stage of the program for part-time students is monitored to ensure that students follow the courses in the correct sequence.

The curriculum includes foundation courses and core courses, as well as elective courses. The elective courses are chosen in consultation with the student's academic advisor.

Foundation Course Requirements

The foundation course requirements will vary according to the applicant's completed undergraduate major, as well as the selected textile specialization.

Applicants will be advised on an individual basis by the graduate program director concerning prerequisites and the required foundation courses or equivalent undergraduate courses which need to be taken, or possible exemptions where appropriate.

M.S. in Fashion Apparel Studies

This graduate program is for the professional interested in developing advanced-level management and technical expertise associated with one of the world's largest employers: the fashion/apparel industry. Through a carefully designed educational program, the student develops unique analytical, creative and problem-solving skills. Graduate students with differing professional goals and interests are brought together in common courses and the seminar program.

The curriculum includes core and elective courses and a choice of writing a Research Paper or writing and defending a Thesis. The Research Paper option includes 25 hours of core courses, 9 credit hours of electives and 3 credit hours for the Research Paper. The Thesis option includes 22 hours of core courses, 6 credit hours of electives, 2 credit hours for Thesis Preparation and 4 credit hours for completing the Thesis.

Foundation Courses		
MBF501	Introduction to Computer Skills (one credit)	
MBF504	Introduction to Financial and Managerial Accounting	
MBF505	Financial Management	
MBF508	Statistical Analysis for Business Decisions	
TEXT101	Survey of Textile Industry	
FASHMGT101	Survey of the Global Apparel Industry	
FASF501	Garment Development	
FASF505	Apparel Production	
FASF510	Apparel Work Measurement	
Core Courses		22-25 Credits
FAS611	Product Development	
FAS612	Implementation of New Technologies	
FAS621	Global Marketing and Sourcing Startegies	
FAS622	Distribution Management	
FAS732	Global textile and Apparel Industry Seminar	
FAS734	Inventory and Logisitics Managment in the Global Supply Chain	
FAS790	Textile and Apparel Business Policy and Strategic	
MBA628	Accounting for Management Decisions	
MBA762	Market Research (for Research Paper option only)	
Electives		6-9 Credits
FAS612	Implememntation of New Technologies	
FAS631	Computer Integrated Management	
FAS632	Systems Engineering	
FAS731	Textile Marketing	
FAS791	Internship	
MBA625	Management Communications and Negotiations	
MBA759	Enterpreneurship	
MBA764	Global Marketing	
TXD665	Design Management	
TXE721	Analytical Methods	
TXE762	Textile and Apparel Operations Management	
	Research Paper 3 credits	
FAS763	Research Paper	
OR		
	Thesis 6 credits	
FAS923	Thesis Preparation	
FAS941	Thesis	
TOTAL CREDIT HOURS		**34-37 CREDITS**

Master of Science in Textile Design

The M.S. in Textile Design provides both integration and balance between creative design and technology. Graduates from fiber-arts backgrounds and related areas will be able to further their design skills through a greater understanding of textile materials and use of the latest technology. Students with technical design experience will be encouraged to develop their creative ideas within the environment of the design studio.

Foundation Courses Specific to the M.S. in Textile Design

The following foundation or equivalent undergraduate courses may need to be completed. The specific foundation course requirements for each student will be based upon consultation with the area concentration advisor. Contact the School of Engineering and Textiles for further information.

ARTH102	History of Western Art II or
CHEM101	General Chemistry
DRAW101	Drawing I
TXF501	Foundation Fiber and Yarn Studies
TXF503	History of Textiles and Costumes
TXF506	Design Foundations II
TXF507	Design Foundations III
TXF510	Introduction to Textile Computer-Aided Design
TXF511	Knitting I
TXF516	Dyeing and Finishing
TXF517	Weaving I

Depending upon concentration:

TXF512	Knit Design Studio I and TXF513 Knit Design Studio II or
TXF514	Print Design Studio I and TXF515 Print Design Studio II
TXF518	Weave Design Studio I and TXF519 Weave Design Studio II or

** The foundation requirement in Textile Design Studio may be waived via portfolio review only.*

Core Courses	36 Credits
TXD615	Design Studio IA (three credits)*
TXD616/ TXD617	Design Studio IB & IC (six credits total)*
TXD625	Seminar (credit/no credit)
TXD742/ TXD743/	
TXD744	Design Studio II (nine credits total)*
TXD749	Weaving Technology or
TXD750	Knitting Technology or
TXD776	Textile Printing Technology
TXD765	Design Management
TXD772/ TXD773/	
TXD774	Design Studio III (eight credits total)*
TXD777	Advanced Computer-Aided Design
TXD975	Thesis (one credit)

** Design Studio 26 credits*

The Design Studio courses make up the majority of the coursework in the M.S. in Textile Design program. Students are required to specialize in one design area (knit, weave or print), but are encouraged to incorporate the other areas of textile design through their foundation courses, elective or design studio work. The 26 credits of Design Studio are split into three stages that may be spread over three semesters. However, the student may elect or be advised to take only three or six credits of Studio in any semester depending on individual progress, development and available time commitment. All students involved in Textile Design Studio courses will participate in common presentation/critique sessions toward the end of the semester.

Students may elect to replace up to six credits of Design Studio with graduate-level electives. The selection of these electives should be approved by the primary design faculty member and the program director.

Electives	3 Credits

Choose one course from the following or other courses approved by the program director

TXD756	Advanced Jacquard
TXD791	Internship
TXD798	Independent Study
TXD993	European Textile Print Study Tour (Alternate Years)
TXD994	European Knitting Study Tour
TXE751	Advanced Woven Structures - Product Development
TXE752	Advanced Knitted Structures - Product Development

TOTAL CREDIT HOURS 39 CREDITS

Additional Requirements for Textile Design Applicants

On a separate sheet of paper, please provide the Admissions Committee with a personal statement discussing why you wish to pursue a graduate degree and why you believe you will be successful. Please type your response and limit your statement to 250-500 words.

M.S. in Textile Engineering

This program is intended to develop the graduate student's knowledge in the advanced fields of textile science and engineering. Students with undergraduate education in the fields of textile engineering, textile chemistry and textile sciences, and those with undergraduate experience in engineering or materials technology are welcome to pursue this program. The wide range of textile engineering courses will prepare the student to make significant contributions in either advanced textile manufacturing technology or textiles material science. The carefully integrated educational offerings at the University enable the student to be exposed to a wide range of professional education possibilities. A capstone experience is provided during the final semester.

Foundation Courses

The foundation courses, required by a student, will be determined at the time of admission by the program director.

COURSES	27 Credits

Students choose nine courses from the selection below, after consultation with their graduate advisor.

TXE601	Fiber and Yarn Studies
TXE613	Characterization of Fibrous Materials
TXE621	Mechanics of Materials
TXE622	Mechanics of Textiles
TXE624	Advanced Textile Composites
TXE625	Biomaterials Technology
TXE713	Coloration and Finishing Studies
TXE721	Analytical Methods
TXE751	Advanced Woven Structures
TXE752	Advanced Knitted Structures

TXE753	Advanced Nonwoven Structures	
TXE755	Advanced Yarn Studies	
TXE759	Product Evaluation	
TXE762	Textile and Apparel Operations Management	
TXE790	Quality Management	
TXE798	Independent study	
Thesis	9 Credits	
TXE941	Research Thesis	
TOTAL CREDIT HOURS		**36 CREDITS**

Doctor of Philosophy in Textile Engineering and Science

Dean, School of Engineering and Textiles: David Brookstein, Sc.D., 215.951.2751 Phone; 215.951.2651 FAX; brooksteind@PhilaU.edu.
Program Director: Brian George, Ph.D., 215.951.2782 Phone; 215.951.2651 FAX; georgeb@PhilaU.edu.
Campus Location: Main Campus

Degree Program

Ph.D. in Textile Engineering and Science

The goal of the Textile Engineering and Science Doctor of Philosophy program is to educate textile engineers who combine theory, practice, scholarly research and application of knowledge in their chosen professions. It is expected that graduates of the doctoral program will pursue careers in basic and applied research in industry, government or university settings. Graduates will contribute original research and scholarly publications in the fiber and textile fields.

The doctoral program in Textile Engineering and Science emphasizes not only depth in fundamental textile engineering and science/mechanical engineering disciplines, but also an interdisciplinary approach to understanding technologies in which textile engineers and scientists can and should take a leading role. It is this combined emphasis on fundamentals, the ability to think and work outside one's area of expertise and the ability to frame complex problems that best defines this doctoral program. Students will propose a textile engineering and science problem of substance and will then develop a solution. Students must demonstrate the ability to apply scientific principles to meet engineering needs with due regard to social and economic factors and within a reasonable time constraint.

Program Structure

Doctoral candidates will have as their primary goal the completion of an original engineering/scientific contribution to the body of knowledge in the field of textiles. This contribution will be in the form of a written doctoral dissertation that will be defended in the presence of the faculty of Philadelphia University.

During the first year of the program, students will complete required coursework, including a nine-credit-hour (three courses) engineering minor. In a collaborative agreement with nearby Temple University, these graduate-level courses will be taken at the College of Engineering at Temple. The student's doctoral committee may require additional courses to enhance the student's research.

All courses will be taken in the first year of the doctoral program. Students will then be required to pass a two-part qualifying examination in the field of textile engineering. The first part is a written examination, and the second part is an oral examination. A major and a minor topic will be chosen by the candidate and the doctoral committee and agreed upon at least four months in advance of the examination.

Dates for the written and oral exams will be selected by mutual agreement of the candidate and the committee members.

All members of the committee should be present for the oral examination. The written examination may be administered by the committee chair with input from other committee members. The result of the two-part qualifying examination will be a pass or a fail. Both the written and oral examinations should be completed by the end of the second semester of study. Upon the successful completion of the examination, students will be formally admitted to doctoral candidacy. This will usually occur after the first year of full-time enrollment.

Students who fail the qualifying examination on the first attempt will be given one more chance, at the discretion of the committee, to improve their performance. In any case, the qualifying examination must be completed before the end of the second year of the student's doctoral program.

The candidate will then make a formal Ph.D. thesis proposal defense. Once approved by the doctoral committee, students will conduct their doctoral research and subsequent dissertation. At the completion of a written dissertation, the candidate will give a formal and public thesis defense. Upon a successful defense the student's candidacy will be completed, and upon the recommendation of the faculty of the Philadelphia University the candidate will be awarded the Ph.D. in the field of Textile Engineering and Science.

Degree Requirements

FIRST YEAR		**18 CREDITS**
Selection of doctoral advisor		
Completion of doctoral committee selection		
Three engineering courses at Temple University		9
TES901	Preliminary Examination Preparation	3
TES902	Thesis I	6
Successful completion of doctoral qualifying examination		
SECOND YEAR		**18 CREDITS**
Doctoral thesis proposal defense		
TES903	Dissertation Research I	9
TES904	Dissertation Research II	3
TES906	Thesis II	6
Defense of Doctoral Dissertation		
Credit for previous master's degree		36 credits (minimum)
TOTAL DEGREE CREDIT HOURS		**72 CREDITS**

While it is the intention to have students study full-time, there will be a provision for students to take a leave based on personal reasons. In all cases, students will have a maximum period of five years from the date of initial enrollment to complete all doctoral degree requirements. The minimum time requirement to complete the doctoral program is two years. The minimum full-time enrollment in residence is two semesters.

Admission to the Ph.D. Program

The Ph.D. program in Textile Engineering and Science is primarily an advanced research-oriented program that will be offered to selected graduates of M.S. Textile Engineering programs. Students from M.S. Textile Engineering programs that are offered internationally also will be considered for admission. Candidates with advanced engineering degrees in fields other than textiles, e.g., mechanical, chemical or materials, may be considered for admission if they agree to take master's-level textile engineering courses at Philadelphia University. The credits they receive for these additional courses will not take the place of the required nine credits of minor courses in engineering, and they will serve as foundation-level courses.

Standardized Test Requirements

Applicants to the Ph.D. program who have master's degrees in textile engineering (or other acceptable fields as noted above) from a university in the United States are not required to submit GRE or TOEFL scores for admission. For all other students (international students and those who do not have an acceptable master's qualification) the requirements for the admission to the M.S. in Textile Engineering program will apply.

Graduate Research Assistantships

All students admitted to the Ph.D. program in Textile Engineering and Science will be offered research assistantships funded through external grants and contracts. The selection of students is based on the suitability of students' backgrounds and their interests in fields that match those of the funding professor.

For application and assistantship availability, please contact the Graduate Admissions Office at 215.951.2943 or send email to gradadm@PhilaU.edu.

Combined Degrees

M.B.A./M.S. in Physician Assistant Studies

Dean, School of Business Administration: Russel F. Kershaw, Ph.D. 215.951.2827 Phone, 215.951.2652 FAX, kershawr@PhilaU.edu
Dean, School of Science and Health: Matt Dane Baker, PA-C, D.H.Sc., 215.951.2870 Phone, 215.951.2615 FAX, bakerm@PhilaU.edu
Assistant Dean, Graduate Business Programs: MarySheila E. McDonald, J.D., 215.951.2950 Phone, 215.951.5300 FAX, mcdonaldm@PhilaU.edu
Program Director: Michael Rackover, PA-C, M.S., 215.951.2908 Phone, 215.951.2526 FAX, rackoverm@PhilaU.edu.

This program combines the one-year Day M.B.A. program from the School of Business Administration with the two-year M.S. in Physician Assistant Studies from the School of Science and Health. Students graduating from this rigorous three-year program would be awarded a:

- Master of Business Administration
- Master of Science in Physician Assistant Studies
- Certificate of Completion in Physician Assistant Studies

Graduates will be eligible to sit for the Physician Assistant National Certification Examination (PANCE), and as a PA-C, M.B.A., M.S. will be highly employable in a variety of diverse settings. The curriculum is tied together in the last semester with a joint clinical/administrative preceptorship in a health care setting, and with a master's project that focuses on a current health care administrative or economic issue. The program focuses on a current health care leadership and recruits leaders from industry to act as mentors for the students. An outline of the structure is listed below:

PROGRAM SUMMARY

Application Year	
By September 15	Application CASPA (Centralized Application Service for Physician Assistant) and GMAT
By November 15	Admission Interview
Spring & Summer	M.B.A. Foundation Courses as needed
Year 1	M.B.A. Curriculum
Year 2	PA Curriculum
Year 3	PA Curriculum

M.B.A./M.S. in Taxation

The M.B.A./M.S. in Taxation allows students to combine two innovative graduate business programs. Students gain a strong foundation of business knowledge and can pursue a special interest in taxation and accounting.

Foundation Courses
(May be waived based on prior academic record)

MBF501	Introduction to Computer Skills (one credit)
MBF503	Foundations of Economic Analysis
MBF504	Introduction to Financial and Managerial Accounting
MBF505	Financial Management
MBF506	Marketing Foundations
MBF508	Statistical Analysis for Business Decisions
MBF509	Management Concepts
MBF510	Operations Management
MBF511	Decision Making in the Legal Environment of Business

Core Courses	42 Credits
MBA625	Management Communications and Negotiation
MBA626	Global Managing in the 21st Century
MBA627	Management of Information Through Technology
MBA628	Accounting for Management Decisions
MBA629	Financial Policy and Planning
MBA630	Quantitative Methods in Decisions
MBA632	Strategic Marketing Management
MBA642	Strategic Planning in a Global Environment
TAX660	Individual Taxation
TAX662	Corporation Taxation
TAX664	Tax Research
TAX765	Taxation of Flow-Through Entities
TAX793	State and Local Taxation
TAX795	Estate and Gift Taxation

Taxation Electives	12 Credits
Graduate Taxation courses	

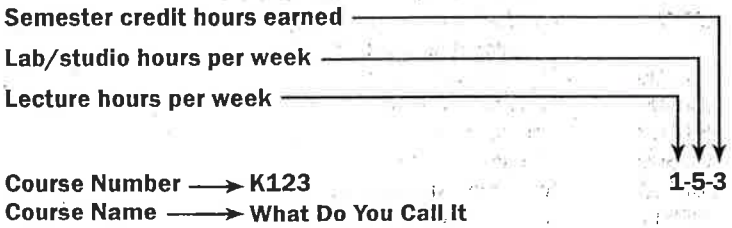
TOTAL DEGREE CREDIT HOURS **54 CREDITS**

Course Descriptions

This letter/number system is used to designate the various schools or the disciplines within these schools.

Key to Course Description Information

Before registering for a course, students must satisfy prerequisites as indicated in the following course descriptions. When changes are made, students are to follow the requirements in the most recent catalog.



Course Prefix

CMW	Midwifery
DMM	Disaster Medicine & Management
FAS	Fashion Apparel Studies
FASF	Fashion Apparel Studies Foundation
IDD	Digital Design
IDT	Instructional Design & Technology
MBA	Master of Business Administration
MBF	Master of Business Foundation
MCM	Master of Construction Management
MMW	Midwifery
OCC	Occupational Therapy
PAS	Physician Assistant Studies
PASF	Physician Assistant Studies Foundation
SDN	Sustainable Design
TAX	Tax
TES	Textile Engineering, PhD
TXD	Textile Design
TXE	Textile Engineering, MS
TXF	Textile Design Foundation

Course Descriptions

CMW602 **0.5 credit**
Interviewing and Counseling
This is an on-campus intensive course focusing on the skills a midwife requires to successfully communicate with clients. This course will develop basic interviewing and counseling skills that build trust and demonstrate respect for women. Theory and practice of skills for interviewing and counseling women in all aspects of women's health care are offered.

CMW603 **2 credits**
Reproductive Anatomy and Physiology
This course focuses on male and female reproductive anatomy and physiology, human sexual response, gamete production, and fertilization. The course also focuses on the lymphatic and immune systems.

CMW605 **2 credits**
Professional Issues
This course is designed to provide an appreciation of the history and critical issues in midwifery, as well as the health care field in general. This course will also increase appreciation of the variety of roles that a midwife can play and aid in understanding rights and responsibilities as a midwifery health care provider.

CMW606 **2 credits**
Health and Lifestyles
This course provides an overview of health promotion and public health concepts. The construct of wellness is explored. Lifestyle, relationships, and cultural competence are examined within the context of our own lives and midwifery practice.

CMW607 **4 credits**
Healthcare of Women I
This course presents basic principles and application of well-woman care across the life span. Sexuality, menstrual cycle function/dysfunction, common gynecological conditions, family planning and health care promotion are common threads in this course. Students receive information on physiology, health screening and midwifery management of common primary care conditions.

CMW610 **4 credits**
Antepartum Care
This course examines the fundamentals of prenatal care, including the components of prenatal care, criteria for assessing perinatal outcomes and the application of the midwifery management process in the antepartum period. Theoretical foundations for diagnosis and dating of pregnancy, common discomforts of pregnancy, assessment of pelvic adequacy and assessment of fetal well-being and nutrition in pregnancy are covered in depth.

CMW611 **4 credits**
Intrapartum Care
This course teaches the principles of midwifery for the laboring woman and her family, correlating physiologic processes to the maternal and fetal experiences of labor and birth. Concepts of normal birth and its variations lead to thoughtful analysis of management options.

CMW612 **2.5 credits**
Postpartum/Newborn Care
This course develops the knowledge base for assessing the physical and emotional changes of the postpartum period, breastfeeding, early attachment and parenting behaviors. It provides the knowledge base for understanding the physiology of transition to extrauterine life and early newborn adaptations. Assessments for newborn health, gestational age and attachment behaviors are included.

CMW613 **1 credit**
Embryology and Genetics
This on-campus course will cover basic concepts of genetics, including inheritance and genetic disorders. Concepts of embryology will include fertilization, implantation and the embryonic period.

CMW619 **4 credits**
Perinatal Complications
This course examines the fundamentals of perinatal care of complex client(s) in the antepartum, intrapartum, postpartum and newborn periods. Students will utilize course materials to simulate and problem-solve written cases in a virtual midwifery practice. Midwifery management discussions and peer review will include a variety of topics of frequently seen complications in the perinatal period.

CMW620 **2 credits**
Healthcare of Women II
This course examines the fundamentals of advanced gynecological care. Theoretical foundations for assessment and diagnosis will include: anomalies, alterations and tumors of the reproductive tract; intimate partner violence and addictive disorders; sexual dysfunction and infertility; menstrual cycle disturbances and ectopic pregnancy; infections of the reproductive tract; and multiple systems medical problems.

CMW630 **2 credits**
Preparation for Full Scope Midwifery Practice
This on-campus course explores issues in midwifery practice including: the role, rights and responsibilities of the midwife in the clinical practice setting; the legal, ethical and financial realities of professional midwifery practice; alternatives in full scope midwifery care with examples from experts; and environments of midwifery care including home, hospital and birth center settings. Students take a closer look at one birth center model of childbearing care by spending time on site. Content covered in this visit includes: 1) the history, philosophy and development of the birth center movement in the United States and 2) the accreditation and needs assessment process.

CMW 631 **2 credits**
Clinical I Maternity and Well Woman Care 1
The course consists of supervised clinical practice in the midwifery management of uncomplicated antepartum and well-woman clients needing routine primary care, care for common gynecologic problems and contraception. Students learn consistent and accurate use of the midwifery management process with emphasis on subjective and objective data collection and beginning assessment and plan development. An on-campus skills workshop prepares students for this clinical course and includes risk assessment, development of a needs assessment and problem list, and pertinent hand skills. Additionally, history taking and physical assessment will be reviewed and demonstrated. Microscopy skills will be introduced. Contraceptive techniques will be reviewed.

CMW632 **3 credits**
Clinical II Maternity and Well Woman Care 2
The course consists of supervised clinical practice in the midwifery management of uncomplicated antepartum and well-woman clients needing routine primary care, care for common gynecologic problems and contraception. Students are expected to continue to demonstrate consistent and accurate use of the midwifery management process with emphasis on independent development of an assessment, plan for, and evaluation of, care. This course is three credits and consists completely of continued clinical practice in the midwifery management of uncomplicated antepartum and well woman clients needing routine primary care, care for common gynecologic problems and contraception. The prerequisite is successful completion of CMW631, Clinical I.

CMW633 **4 credits**
Clinical III Full Scope Midwifery Care 1
Clinical III adds supervised clinical practice in the care of uncomplicated intrapartum, postpartum and newborn clients. Students learn consistent and accurate use of the midwifery management process with emphasis on subjective and objective data collection and beginning assessment and plan development in the care of intrapartum clients. Management of patients experiencing complications/emergencies requiring consultation/ referral will be included. Emphasis is also placed on facilitating breast-feeding, positive family bonding, and management of newborns within their families. The prerequisite is successful completion of CMW632, Clinical 2.

CMW634 **5 credits**
Clinical IV Full Scope Midwifery Care 2
Clinical IV consists of supervised clinical practice in full-scope midwifery care in a student role. Students manage uncomplicated and complicated clients needing primary care, gynecologic, intrapartum and perinatal care. Students continue to demonstrate consistent and accurate use of the midwifery management process with emphasis on independent assessments, planning, implementation and evaluation of care, consultation and referral. Pre-requisite is successful completion of CMW633, Clinical III.

CMW 635 **3 credits**
Basic Skills in Health Care
This course is an introduction to common health care skills and knowledge used in clinical practice. Presentation of self as care provider to diverse clientele with respect for human rights is emphasized. Contents include but are not limited to vital sign measurement and interpretation, infection control, sterile technique, wound care, urinary catheterization, venipuncture, fetal and uterine external monitoring application, emergency response procedures, therapeutic presence and communication, and skills in team building and patient advocacy. Medical terminology, written and electronic medical records and basic laboratory assessments will be reviewed. Practice and successful return demonstration of selected skills will be done at the student's first on campus experience after completion of this course.

CMW 636 **3 credits**
Environments of Health Care
The effects of various environments of care on social dynamics between health care providers and patients will be explored. Theories of stress and coping and shared leadership will be addressed. Environments examined will include: home, office/clinic, hospital/health care institution, and care in place – disaster/emergency care. Available resources in each environment and the evidence supporting their use or misuse will be discussed. Observational clinical experiences in a variety of environments will be described and analyzed via reflective journals and asynchronous seminar discussion. Midwifery role and scope of practice in the various environments will be highlighted. Identifying local health care providers and resources for future practice referrals situates midwifery care in a system which provides for needs of women and their families ranging from simple to complex.

CMW 637 **3 credits**
Health and Illness in Clinical Practice
This course will examine concepts of health and illness at various stages of human development. The midwifery model of care and the midwifery management process will be introduced as frameworks guiding care practices. Wellness care and complementary integrated approaches will be discussed. Selected common health alterations at every life phase will be explored, with emphasis on the midwife's role for independent or collaborative management or referral. The plan of care for these clients – including further testing or assessment, therapeutics and educational needs - will be examined. Problem based learning scenarios will serve as the stimulus for identifying learning needs and developing midwifery care strategies.

CMW638 **2.5 credits**
Pharmacological Basis for Practice I
This course is a comprehensive course in pharmacology for women's health care. The language of pharmacology and the principles of pharmacodynamics and pharmacokinetics serve as the foundation for the course. Major classifications of agents that are covered in the course include: hormones, antimicrobials, analgesia and anesthesia, over-the-counter drugs. Prescriptive writing, including legal and ethical aspects, is covered as well.

CMW639 **0.5 credit**
Pharmacological Basis for Practice II
This course is second in a two-part series in pharmacology for women's health care. Concepts and issues in drug prescription for pregnant women and their newborns are presented. Changes in pharmacodynamics and pharmcokinetics during pregnancy are reviewed. Major classifications of agents covered in the course include: vitamins and minerals; uterotonins/uterotropins; and drugs administered to newborns.

CMW699 **3 credits**
Physical Assessment of Women
This course is designed for the individual preparing to begin a nurse-midwifery program of study. Midwives are often a woman's first contact with the health care system. Women seek care from midwives not only during the childbearing cycle, but for family planning and well woman health care throughout the adult life cycle. As primary care providers for women, nurse-midwives will use these skills of clinical assessment daily. At the completion of this course the student will have the knowledge and skills in physical assessment of the adult female to provide clinical services at a beginning level.

DMM611 **3 credits**
Principles of Disaster Medicine and Management
This course provides students with a general overview of disaster events and covers the key components of disaster prevention, risk assessment and disaster management including: types of disasters, phases of disasters (preparedness, mitigation, response, and recovery), agencies involved in disaster situations, public service disruptions, mass casualty triage, human resource issues, media relations, ethical considerations, communications and incident command systems.

DMM615 **3 credits**
Hazardous Materials & Industrial Safety
This course provides an overview of the major hazardous materials commonly encountered and their effects on humans and wildlife. Industrial waste, pollution, nuclear waste, hazardous waste transportation and the management of hazardous material accidents are all covered.

DMM617 **3 credits**
GIS in Emergency Management
This course will provide students with an introduction into geographic information systems by infusing it into emergency management. The class will focus on the 3 major elements: 1) Fundamentals of GIS, 2) Knowledge of GIS software, and the 3) Understanding of the spatiality in emergency management situations.

DMM619 **3 credits**
Natural Disasters
The purpose of this course is to develop an understanding of the various types of natural disasters which plague

the world. The student will study the forces of nature which cause these events to occur, the population effects of the event itself and the dynamic nature by which the event spawns further cataclysmic change in our environment.

DMM623 **3 credits**

Weapons of Mass Destruction

This course introduces students to the various types of biologic, chemical and nuclear/radiologic weapons, along with the clinical manifestations and management of exposure to these. Decontamination and institutional procedures for weapons of mass destruction incident management are also covered.

DMM624 **3 credits**

Organizational Risk and Crisis Management

This course examines key concepts in the understanding and management of risk in an organizational environment. Aspects of risk evolution, tools and techniques, project vulnerabilities, uncertainty, modeling and risk software are included.

DMM 625 **3 credits**

Business Continuity – Planning for a Crisis

The course explores the issues in maintaining a business in the midst of crisis and the disruption of resources. It includes planning for, responding to, and recovering from an internal or external crisis in the organization.

DMM626 **3 credits**

Organizational Recovery and Planning

This course discusses business and organizational implications of the disaster recovery lessons taught by 9/11, the California energy crisis, the anthrax scare and other related disastrous events as they relate to emergency decision making and planning. Special emphasis is directed toward infrastructure and IT/IS implications of process continuation.

DMM627 **3 credits**

Principles of Terrorism

The types of terrorism, along with the social, political and psychological motivations and ramifications of terrorism are the focus of this course. Threat risk assessment and prevention strategies are also components.

DMM631 **3 credits**

Organizational Management and Communication in Disasters

This course introduces students to theories of organizational dynamics and management as it pertains to crisis and disaster situations. The course also explores communication within the organization, with external agencies, and with the public and media during and after disaster events.
Prerequisite: DMM611

DMM635 **3 credits**

Psychological Aspects of Disasters

This course explores the psychological sequelae of disasters and traumatic events including acute stress disorder and posttraumatic stress disorder. The clinical presentation, assessment and management of these disorders are discussed. Clinical interventions such as post-event debriefing, short-term counseling and mental health referral in disaster situations are also covered.
This course includes an intensive on-campus experience. Offered in Summer 1 only.

DMM639 **3 credits**

Principles of Disaster Exercises & Drills

This course will prepare students to develop and implement effective emergency disaster drills and tabletop exercises. It will also encompass the principles of mass casualty triage. The principles of adult learning and educational assessment are also covered. This course includes an intensive on-campus experience. Offered in Summer 1 only
Prerequisite: DMM611

DMM643 **3 credits**

Public Health Implications of Disasters

The purpose of this course is to develop an understanding of the concepts of public health as they relate to disaster management. The student will apply Noji's five phases of a disaster to actual disaster events during the last 25 years and will focus especially on what preparedness actions are necessary to safeguard the health of citizens and emergency personnel during a disaster event. Public health issues in disaster management that are covered include water and food supply disruption and contamination, waste disposal, environmental pollution and infectious disease outbreaks. The basic principles of epidemiology and health surveillance are also reviewed.

DMM647 **3 credits**

Disaster Emergency Planning

This course encompasses the major aspects of a comprehensive disaster plan including: physical resources, human resource considerations, interagency interaction, communication, incident command systems, evacuation of injured, crowd control, traffic management, hospital capacity, decontamination, material management logistics, media relations, mortuary services, survivor and rescuer grief counseling, and exercises.
Prerequisite: DMM611

DMM648 **3 credits**

Emergency Preparedness for Special Needs Population

The term "special needs" is widely used within the disaster services and the emergency management world. It generally refers to an extremely broad group of people with physical disabilities, people with serious mental illness, pregnant women, children, and the elderly. These groups represent a large and complex variety of concerns and challenges. Many of these groups have little in common beyond the fact that they are often left out of programs, services, and emergency planning.

This course will introduce students to planning, responding, mitigating, and recovering from a disaster as it pertains to the special needs population. This will include specific functional roles, resource identification and response of personnel involved in disaster management. Students will be presented with problem based learning assignments and

based on the assigned readings, research, and personal experiences, they will be able to analyze and apply the theories and principals pertaining to the response and recovery of an event to these special populations.

DMM651 **3 credits**
Applied Research Methods & Statistics
Basic statistics and research methods used in the medical and social sciences are covered in this course. Students will have the opportunity to review current medical research and evaluate it with regard to its application to practice.

DMM755 **3 credits**
Capstone Experience in Disaster Medicine and Management
In this capstone experience students will complete either an: original research project; an original disaster plan; a systematic review paper on a disaster-related topic with thorough literature search, analysis and compilation; or an internship with disaster plan. All of these will involve a thorough literature search, an analysis of the current research, integration of multiple facets of disaster medicine and management and completion of a substantial written product.
Prerequisites: DMM611, DMM631, DMM647, DMM651

DMM791 **3 credits**
Internship in Disaster Medicine and Management
This experience is an optional internship in disaster medicine or management at an agency involved in disaster preparedness or response. This may include international experiences when available.
Prerequisites: DMM611, DMM631, DMM647

DMM797 **1-3 credits**
Special Topics in Disaster Medicine and Management
This course provides an opportunity to explore topics in disaster medicine and management not developed in other courses. Examples include recent complex humanitarian emergencies, disasters, or catastrophes, new practice technology, essential health policy changes, new research findings, and other cutting edge materials. Students may take this course more than once as the topics differ each time it is offered.

FAS611 **3 credits**
Product Development
In the development of any apparel product, attention must be given to form, function, fit and appearance and to their interrelationship. Form involves the influence of preference and individual choices. Function includes such aspects as "fitness for use," taking into account levels of activity, gender and age. Account must also be taken of the influence of markets, as well as the opportunities and constraints presented by design, cost and manufacturing systems. At the managerial level, the individual is faced with constant change from original concept to the end product. Multiple adjustments to the product arise at every phase requiring tremendous ingenuity and problem-solving skills. Graduates will be faced with this kind of process in the apparel industry and need to manage and follow through with the development of a product.

FAS612 **3 credits**
Implementation of New Technologies
This course aims at showing that state-of-the-art technology in a given field has become an essential component for strategic leadership, profitability and stable employment. The point is made by providing a broad perspective on the major technical advances experienced by the apparel industry from the 1980s and their positive impact on the national industries where they originated and/or were adopted. Analysis of the difficulties met by high wage countries failing to follow that course helps to reinforce the point. Review of the factors accounting for these advances brings out the critical importance of technology transfer and fusion in the formulation and development of basic concepts. Detailing both processes offers the opportunity to introduce the notion of systemic thinking and its growing influence on management style. It is intended that the student will gain a global perspective of the textile and apparel business and of the growing role played by advanced technology and its impact on finances and personnel.

FAS621 **3 credits**
Global Marketing and Sourcing Strategies (Marketing Option)
U.S. textile and apparel companies are under siege, facing competitive threats that have been continually mounting for years. What it takes to be successful in the future is explored. The concept of "business as usual" has long outlived its usefulness, and new and refreshing approaches are necessary. Students will be introduced to avant-garde management concepts often espoused, but seldom adopted, by most textile and apparel managements. The course is designed to introduce the student to the global perspective of today's apparel industry and to prepare the student to make critical international marketing and sourcing decisions within a complex economic environment. Students will explore the major variations which occur across international markets - economic, social, and cultural; examine the behavior of business within different marketing and manufacturing contexts; and consider the factors involved in making effective global marketing and sourcing decisions.

FAS622 **3 credits**
Distribution Management (Marketing Option)
Globalization of the textile and apparel business will require companies to change the way they operate in an attempt to keep one step ahead of the competition. This is particularly the case for multinational companies and those sourcing from overseas. They will have to significantly change their logistic strategy with regard to distribution management, taking into account new computer technology, systems management and product compatibility. The course will: (a) distinguish the role of physical distribution management (PDM) as a unique discipline, and identify the demand placed upon PDM from both U.S. and international operations; (b) assess and evaluate the PDM function comparing alternative technology-based strategies and/or commercially determined "trade-off" policies that prevail in this dynamic trading environment; and (c) identify key issues in the planning and

implementation of a commercially sound distribution operation, with an emphasis on transport management, warehouse management and total distribution management.

FAS631 **3 credits**
Computer Integrated Management (Advanced Manufacturing Option)
The erosion of the textile and apparel production base in the western world is a serious challenge for the U.S. domestic industry. Progressive domestic companies are now placing greater emphasis on the introduction of computer-aided design and quick response technology. This computer-based technology includes: (a) the product development cycle using CAD/CAM techniques to reduce the time involved in designing and introducing new products to the marketplace; (b) increased process control and manufacturing efficiency; and (c) the potential for reducing the delivery response time between textile manufacturers, apparel manufacturers and the retailer. The course will evaluate the cost/benefits of CAD/CAM technology and through lecture, laboratory and experiential activities, will examine the role of CAD/CAM in risk reduction, creativity enhancement and improved customer service.

FAS632 **3 credits**
Systems Engineering (Advanced Manufacturing Option)
Various production systems in apparel manufacturing are under investigation and are being subjected to critical review in an attempt to improve responsiveness and flexibility to meet consumer needs and desires on a timely basis. This course will focus on hardware and software linkages within the apparel industry; maintaining a global perspective of information flow between suppliers and consumers; developing criteria for examining, measuring and assessing the effects of changing environments on assembly operations; and productivity improvements and financial implications.

FAS731 **3 credits**
Textile Marketing
The course is designed to integrate the student's previous exposure to general marketing principles with specific application to the textile, apparel and related industries. The marketing planning process will be integrated into studies of textile products, promotions, merchandising, distribution, competition and inventory. The course will identify and analyze worldwide textile marketing opportunities and introduce the concept of global strategy formation through development of a marketing plan for a textile/apparel/manufactured product in two distinct countries. The roles of key textile and apparel-producing countries and sourcing therefrom, trade agreements and treaties, and world trade blocs like NAFTA and the WTO will be examined through readings, presentations, class discussion, case analysis and visiting speakers.

FAS778 **3 credits**
Computer-Aided Design/Computer-Aided Manufacture
The continued erosion of the textile and apparel production base in the United States, caused by increased imports of textile and apparel products, is a serious challenge for the domestic industry. Progressive sectors of the textile and apparel industries are consequently now placing a greater focus on the introduction of "Quick Response Technology." This computer-based technology includes:

(a) the product development cycle using CAD/CAM techniques to reduce the time involved in designing and introducing new products to the marketplace; (b) increased process control and manufacturing efficiency; (c) the potential for reducing the delivery response time between textile manufacturers, apparel manufacturers and the retailer. This course will evaluate the cost/benefit of CAD/CAM technology to textile and apparel companies. Through lecture, lab and experiential, it will examine the role of CAD/CAM in risk reduction, creativity experiments and improved customer service. The potential use of CAD/CAM as a marketing tool, and the potential for Electronic Graphics Communication among textile manufacturer, apparel manufacturer and retailer, will also be analyzed.

FAS790 **3 credits**
Textile and Apparel Business Policy and Strategic Planning in a Global Environment
This course will study the textile and apparel business in a highly competitive and complex environment. Consideration will be given to the changing demands of the marketplace and consumers, and the external forces that can impact on company performance, many of which are beyond management's control. The process and techniques of strategy formulation, implementation and evaluation are studied. The course will include lectures, workshops, case studies and assignments.

FAS791 **3 credits**
Internship
Internships provide students with an opportunity to apply and further develop the knowledge they have gained in the classroom. Under faculty supervision, students work in salaried positions related to their career goals. While on their assignments, students develop meaningful learning objectives, attend an internship seminar, complete challenging assignments and write bi-weekly reports analyzing articles in academic journals and practitioner publications.
Prerequisites: Minimum of 18 graduate credits (excluding foundation courses); available to full-time students only and subject to availability and eligibility; permission of Internship director and graduate program director.

FAS797 **1-3 credits**
Selected Topics

FAS798 **3 credits**
Independent Study
Students may select an independent project or research topic with the approval of the dean of the School of Engineering & Textiles.

FAS923 **0 credits**
Thesis Preparation
The course incorporates the initial steps of developing a thesis in a selected area of concentrated study including: a thesis proposal, a review of the relevant academic and/or

professional literature, developing an outline, and writing the first chapter. The student will establish a dialogue with their Thesis Committee Chair, meet with the Chair periodically for guidance throughout this process and adhere to the deadlines for all of the required submissions, A minimum grade of B- is required to receive credit for this course.

FAS941 **6 credits**
Project Thesis
The thesis should be the result of original investigation of relevant literature in the field of apparel and/or retail. The thesis should exemplify original scholarship and critical judgment while examining a topic in depth. A successful thesis will demonstrate the student's abilities in collecting and evaluating information, critically examining existing theories and then constructing testing and defending a coherent argument. The thesis must be organized, demonstrate clarity of purpose, reveal evidence of critical analysis, and include complete and accurate citations and documentation for all sources.

Since the thesis is the culmination of rigorous preparation as developed in Thesis Preparation and should only be attempted in the final semester of the program. In consultation with the Thesis Committee Chair and its members, the student will complete the writing of the thesis according to the University Guide for the preparation of Doctoral Dissertations and Master's Thesis December 2007 that was begun in FAS923 Thesis Preparation.
The thesis must be a minimum of 40-50 pages in length, not including figures, tables and graphs using the most current Philadelphia University Guide For The Preparation Of Doctoral Dissertation And Master's Theses document.
Prerequisite: FAS923 Thesis Preparation

FASF501 **3 credits**
Garment Development
Students will have a basic understanding of garment construction combined with flat-pattern concepts. The use of industrial equipment and basic slopers will be utilized to produce a sample book of construction details and garments.

FASF505 **3 credits**
Apparel Production
Basic operations in all segments of an apparel plant are studied from the initial receipt of raw materials through storage, inspection, marker making, spreading, cutting, sewing, pressing, warehousing, shipping and customer returns. Latest technological advances in each of these areas will be discussed with marker making performed on a Gerber Accumark 300 System. Inventory management, labor issues, ergonomics and relevant public policies are also studied.
Prerequisites: FASHMGT-101, FASHMGT-201 or FASHDES-

FASF 510 **3 credits**
Apparel Work Measurement
The fundamentals of rate setting, productivity measurement and methods analysis and improvements are studied. The use of standard data including methods-time-measurement, scientific operator training and similar industrial engineering techniques are covered. Learning tools, with emphasis on videotape, are studied and used. Laboratory work stresses practice by student.
Prerequisite: FASHMGT-305

IDD610 **3 credits**
Introduction to Digital Audio Production
This course introduces students to basic and intermediate digital audio concepts and skills for use in a broad array of multimedia, including instructional applications. Students will generate a variety of professional-grade digital audio artifacts using industry-standard software and processes; instruction will focus on common elements of digital audio production to allow transfer of knowledge to various tools and platforms rather than focusing solely on the mastery of a single tool. Course topics include basic digital audio theory, comparing and selecting input and output devices, non-linear editing, mixing and mastering, multi-tracking, audio for video, and optimizing audio for different delivery methods. Students will create at least one example of instructional audio to use in their portfolio.

IDD621 **6 credits**
Digital Experience Design
This first studio in the sequence of three will develop the student's ability to synthesize 2D, 3D and 4D conceptions of space with knowledge and skills of interactivity to create and produce the digital experience. This studio will solidify and expand the student's vocabulary and ability to innovate within the digital context. Students will complete a project that explores spatial, emotional, informational and communicative issues. The project should reflect a high degree of conceptual, aesthetic and technical mastery for successful completion of this course.
Prerequisite: Admission into the Master of Science in Digital Design program

IDD623 **3 credits**
Theory of Electronic Communication Seminar II
This course provides students with a theoretical understanding of the role of the digital designer within the constantly evolving electronic marketplace. Issues of e-commerce, digital communication, electronic ethics and professional practice will be discussed. Special focus will be placed on how our existing culture has been, and is currently being, revolutionized by the information explosion. A portion of this course will be taught using the Internet as a tool to share information, complete research and communicate with experts in the field.
Prerequisite: Admission into the Master of Science in Digital Design program

IDD624 **3 credits**
Multimedia
This elective will focus on expanding the student's understanding of and ability to create effective multimedia experiences. A semester-long project will develop their mastery of visual, audio, temporal and kinesthetic elements and principals of design. The project will explore the methodology and tools used to create sophisticated experiential design. Some key concerns of the course are human-centered interfaces,

intuitive navigational systems and mixed-media narrative. Projects will combine text, sound, images and movement within 4D-responsive environments. A final, fully functional prototype, presented on CD-ROM, will be required.

IDD625 **3 credits**
Web Design
This course will focus on the design of the online experience. Emphasis will be given to an understanding and mastery of the design issues involved in creating user interfaces and content for low bandwidth dissemination. A semester-long project will develop the student's abilities in both the design and production of web-based media. The project will include components such as site architecture/planning, digital imaging and typography for the web, interface design, and HTML, dHTML production.

IDD626 **3 credits**
Digital Photography
This elective course focuses on the use of the tools and techniques of digital photography; cameras, scanners, printers, along with the computer and software programs needed to render images. This course is intended for Web and e-designers, as well as graphic designers, and teaches how to render digital images for their respective domains. The course contains a brief description of traditional photography and the aesthetic issues addressed in its history along with how these issues are both similar and different from those of digital photography. Particular emphasis will be placed on the difference between description and suggestion and how this impacts the interpretation of images within a design context.

IDD627 **3 credits**
Digital Video Design and Production
This course will introduce the student to the basics of non-linear digital video and audio production techniques. Projects will focus on the potential of narrative as a main component of any time-based media application, with assignments ranging from short exercises in visual storytelling/narrative to a final, more complex project such as the design of a video title sequence. Students will develop an understanding of story-boarding, scene visualization and editing techniques, along with competency in video and audio software packages such as Final Cut Pro, After Effects and Pro Tools.

IDD628 **3 credits**
3D Modeling
This elective course exposes students to the conceptual and technical aspects of three-dimensional modeling, photo-realistic rendering and virtual environments. Students will complete a series of specifically designed exercises of increasing difficulty, leading to a final project of the student's choosing. The class will cover the basic principles of 3D modeling and animation including polygonal and NURBS modeling, texturing, lighting, and animation.

IDD631 **6 credits**
Digital Innovation Design
This second in a sequence of three studios focuses on the ability of individual designers to pursue innovation. This course is comprised of several projects which highlight the role that digital designers play in the multi-disciplinary attempt to bridge the gap between functionality and usability. Students will address current interface design issues through a series of screen-based projects, each ranging in complexity and theme, and placing particular emphasis on the visual and semantic aspects of design solutions. Students will be expected to seek new ways to navigate through 4D environments, challenging common interface paradigms. They are encouraged to build 4D spaces that are expressive, dynamic and experiential, while retaining their intuitive usefulness.

IDD632 **3 credits**
Database Management and Scripting
Using PHP, students will learn fundamental server-side scripting concepts like creating arrays and functions, automating Unix commands, gathering and processing user input, and dynamically writing out HTML and JavaScript. Relational Database concepts are covered and students will learn to conceptually model data and to create, query, and manage their database using SQL. The course will culminate with the students, for their final project, creating a web application that ties HTML front-end to a MySQL database using PHP.

IDD635 **3 credits**
Interactive Narrative/Drama
Under development.

IDD791 **3 credits**
Internship
Internships provide an opportunity for professional experience supporting application and further development of the knowledge gained in the classroom. Under faculty supervision, students work in positions related to their program and/or career goal, develop learning objectives and complete reflective academic assignments. Students should be exposed to a broad spectrum of professional practices, particularly those not available in the academic setting, and are expected to make a professional contribution to their employer.

IDD798 **3 credits**
Independent Study & Research
This course will allow students to pursue individual areas of interest while working jointly with a faculty member. Enrollment is subject to the availability and approval of both the program director and faculty member. The student must have 18 or more graduate-level credits, and a prospectus of the proposed independent study must be approved at least one month prior to registration.

IDD941 **3 credits**

Digital Design Synthesis Project Preparation

This course is the first step towards completing the final synthesis project. Students will be asked to identify and analyze potential projects through a number of lenses including technical feasibility, marketability and design potential. With faculty guidance, each student will select a particular project based upon individual interests and professional aspirations. In order to successfully complete this course, a final document must be submitted by the student outlining the relevant factors that will determine the route to developing a successful synthesis project.

Prerequisites: IDD621, IDD623

IDD942 **6 credits**

Digital Design Synthesis Project

This is the third of a sequence of three studios focusing on interdisciplinary digital design. This synthesis studio will develop the ability of the digital designer to successfully bring a digital design project to completion. Students will develop a final, working prototype of a product, service, entertainment or publication of their choice that synthesizes all of their knowledge and skill from the previous semesters. The final project must demonstrate marketability and/or successful functionality within the larger community.

Prerequisites: IDD631, IDD941

IDF502 **3 credits**

Electronic Imaging

This course will focus on the principles of raster and vector electronic imaging as a means to provide a solid foundation needed to succeed in the digital design field. This is a lab-based class with specific instruction in Adobe Photoshop and Adobe Illustrator. This is a foundation course that does not count for credit toward the graduate degree.

IDF503 **3 credits**

Theory of Electronic Communication I

This course introduces students to the theoretical understanding of the role of the digital designer. Special focus will be placed on how our existing culture has been, and is currently being, revolutionized by the information revolution. This is a foundation course that does not count for credit toward the graduate degree.

IDF506 **3 credits**

Application Software

Using Windows and Mac platforms, this foundation course will focus on experiences which will familiarize students with instructional applications and personal productivity uses of microcomputers. Word processing, database management, spreadsheets, graphic tools and telecommunications will be analyzed in terms of their application to business and education. The skills presented in this course are prerequisites for all other courses offered in the Instructional Design and Technology program. This is a foundation course that does not count for credit toward the graduate degree.

IDF511 **6 credits**

Digital Design III

This studio will explore the translation of the three- and four-dimensional concepts into two-dimensional screen images, interactivity and animation. Students will be introduced to the theory and practice of motion graphic production. The mediums of choreography, filmmaking, architecture, performance art, and music will be discussed as potential sources of inspiration for creating new and powerful forms of digital space and experience. A series of increasingly complex projects will culminate in a more demanding final project.

IDF512 **6 credits**

Digital Design IV

This studio will develop the ability of the digital designer to successfully participate within an interdisciplinary team. Students from a variety of majors will work together to develop a final, working prototype of a product, service, experience or publication of their choice that synthesizes their knowledge and skills from the previous studios. The students will develop a final project that demonstrates marketability and successfully functions within the larger community. This is a foundation course that does not count for credit toward the graduate degree.

Prerequisite: IDF511

IDT609 **3 credits**

Instructional Digital Video Design and Production

This course introduces students to digital video design and production for instructional purposes. After identifying the instructional need served by video media, students will learn to plan, shoot, edit and produce digital videos using industry-standard, non-linear editing software. Course topics include identification of instructional opportunities for video media; pre-production, production and post-production techniques; and identification and creation of appropriate delivery methods (tape, disc, streaming, etc.). Students will create at least one example of instructional video to use in their portfolio.

IDT610 **3 credits**

Introduction to Digital Audio Production

This course introduces students to basic and intermediate digital audio concepts and skills for use in a broad array of multimedia including instructional applications. Students will generate a variety of professional-grade digital audio artifacts using industry-standard software and processes; instruction will focus on common elements of digital audio production to allow transfer of knowledge to various tools and platforms rather than focusing solely on the mastery of a single tool. Course topics include: basic digital audio theory, comparing and selecting input and output devices, non-linear editing, mixing and mastering, multi-tracking, audio for video, and optimizing audio for different delivery methods. Students will create at least one example of instructional audio to use in their portfolio.

IDT615 **3 credits**

Comparative Operating Systems

This course is designed to teach students the internal operating system architectures across a variety of operating

systems. The course will examine operating system concepts common to various classes of computers including: files systems, CPU scheduling, memory management, virtual memory, disk scheduling, deadlock, concurrent processes and programming, protection and security and distributed systems. The course will also explore various aspects of specific systems (e.g., UNIX, Linux, VMS, MS-DOS and Windows) through the use of case studies in UNIX/Linux-based operating systems.
Prerequisites: IDT696, IDT697, IDT698

IDT616 **3 credits**
Application Software as Mindtools
This course will introduce students to the use of popular desktop software applications to promote critical thinking. Rather than focusing upon the productivity gains associated with contemporary "office" applications, this course will investigate how computer-based tools might be best deployed in educational environments to promote higher order learning. The tools addressed will include spreadsheets, databases, multimedia authoring tools, search engines and virtual discussion spaces.

IDT621 **3 credits**
Educational Technology Across the Curriculum
This course examines the impact of current and emerging technologies on instruction in the K-16 environment. Participants will learn how to select, evaluate and adapt hardware and software appropriate to specific instructional settings and goals, and to develop curricula that integrate technology effectively.

IDT622 **3 credits**
Topics in Instructional Technology
In this course students will use the research techniques learned in IDT678 to produce their own publishable articles, conference presentations or potentially fundable grant proposals.
Prerequisites: IDT672 and IDT678

IDT624 **3 credits**
Open Source in Education: Applications and Systems
This course introduces students to CMS and open source software. Students will evaluate course management systems, content management systems, and open source software. Activities include the installation of open source software (both applications and operating systems) and in-class software comparison exercises. The theoretical component includes assessing the viability of open source software as a replacement to proprietary software in an organization. Course topics include software licenses, open source software in education, comparisons between proprietary packages and their open source equivalents as well as Open Document and other open source file formats.

IDT625 **3 credits**
Designing Distance Learning
This course will introduce students to the history, theory, and practice of distance education using various technologies including Web-based discussion and Internet delivery of assignments. Students will assume the role of instructional designer by creating lessons to be delivered at a distance.
Prerequisites: IDT672 and IDT770

IDT627 **3 credits**
Introduction to Flash
This course will explore the use of Macromedia Flash to create instructional materials for CD-ROM or Web delivery. Students will create scaleable vector graphics, develop animated and interactive elements, use ActionScript to control these elements and learn design principles appropriate to the effective use of Flash elements.

IDT628 **3 credits**
Algorithms & Data Structures
This is a course in advanced programming techniques that examines the use of various data structures for programming applications and the algorithms that manipulate them. Algorithm examples will be given in C, C++ or JAVA. Topics of discussion will include lists and linked list processing, stacks and queues, binary trees, searching techniques and various sorting methods.
Prerequisites: IDT649 and IDT696

IDT629 **3 credits**
Database Management Systems
This course will cover topics such as database design, relationships, normal forms, structured query language, importing data, and creating reports and forms. The emphasis will be on using databases as tools in education and business. The student will build some small "toy" databases and then build a substantial system as an independent project.

IDT633 **3credits**
Computer: Applied Uses for Teachers, Administrators & Specialists
This course will offer participants the opportunity to look critically at today's use of technology in our schools and laws governing the selection and use of media. Topics will include, but not be limited to acceptable use policies, state board regulations, PDE standards and guidelines, local board policies, censorship, and student achievement.

IDT634 **3 credits**
Introduction to Desktop Publishing
The student will learn to produce documents (e.g., books, fliers, posters and newsletters) using a desktop publishing package. The course will focus on the effective use of graphics, proper text development, importing text/graphics and applying the rules of layout. Students will also learn the use of typography to control the sequence of reading and the hierarchy of information.

IDT645 **3 credits**
Introduction to UNIX
This course will examine the origins, purpose and functionality of the UNIX operating system by providing hands-on training and interaction with Linux. Topics to be covered include Linux/UNIX commands, syntax, parameters and other tools.
Prerequisites: IDT696 or IDT697, or permission of instructor

IDT646 **3 credits**
Advanced Visual Basic
In this course, the student will learn interface design, multi-form projects, animation, database interfaces and program analysis.
Prerequisite: IDT696

IDT647 **3 credits**
Web Design
In this course, students will create instructional/informational web sites using a combination of HTML code, current web-development software and graphics software. First, the students focus on understanding HTML coding, including basic page setup and coding for text, images, links and tables. Next, students use web-development software to create web pages containing simple and complex page elements. Students will use the web-development software to manage content and upload files to the University web server. Students will apply usability and accessibility standards to the web pages including using internal style sheets to format text. Finally, students will learn to use a graphics program to create optimized images for their web pages, including photographs, banners and buttons. In addition, students will create basic storyboards and flow charts to help plan their projects and research current topics in web design.
Prerequisites: IDT680 or permission of instructor

IDT649 **3 credits**
Programming in Java
This course is an introduction to Object Oriented Programming using Java. Topics will include loop control structures, data types, objects, arrays, strings, classes, inheritance and interfaces. The student will build both console oriented and Graphic User Interface programs.
Prerequisite: IDT696

IDT653 **3 credits**
Instructional Technology Project Planning & Analysis
This course focuses on creating and implementing systematic and effective strategic plans for the integration of multimedia or other technologies into educational programs. Acting as a project manager, the instructional technologist will learn techniques to elicit the full support and acceptance of new technologies by the entire organization. Through the creation of a project plan, the instructional technologist assures that new technologies support the organization's mission, help achieve long-range goals and enhance the learning environment.
Prerequisites: IDT672 and IDT770

IDT656 **3 credits**
Introduction to Computer Networking
In this class students will learn how to network their office, classroom or a computer lab. Students will become familiar with networking terminology and gain hands-on experience in designing and setting up a working computer network.

IDT657 **3 credits**
Interactive Media II: Authorware
Designed as a continuation of IDT680, students will learn to develop interactive, multimedia instructional courseware using Authorware.
Prerequisite: IDT680

IDT658 **3 credits**
Interactive Media II: Director
Designed as a continuation of IDT680, students will learn to develop interactive, multimedia instructional courseware using Director.
Prerequisite: IDT680

IDT659 **3 credits**
Introduction to Adobe Photoshop & Illustrator
Using Photoshop and Adobe Illustrator, this course will focus on photo design and production tools for creating images for print, multimedia and the World Wide Web. Students will learn how to create original artwork, scan images, perform photo restoration and manipulate images. Students will also learn to use other powerful painting and selection tools, multiple layers, special effect filters and lighting effects.

IDT660 **3 credits**
Introduction to Multimedia Supported Presentations
Using selected software such as Director or PowerPoint, the student will learn to design and deliver effective multimedia-supported presentations. Students will also develop their speaking and presentation skills.
Prerequisite: IDT680

IDT661 **3 credits**
Integrated iLife
Students will learn to use the five applications within the iLife software suite (iTunes, iPhoto, iMovie, GarageBand and iDVD). Students will learn how to use new digital tools such as digital cameras with iPhoto, digital video cameras with iMovie, create and burn music using iTunes and burn a final DVD of all their work. Students will also learn the powerful online connectivity of iTunes and iPhoto. Topics will also include additional features such as purchasing photos, books and music online. In addition, non-Apple products will be discussed.

IDT662 **3 credits**
Information Architecture
In this course, students will learn the definition of information architecture (IA), how IA fits into the overall software development process and the critical steps and deliverables for IA. First, students will conduct user research and develop user profiles/persona which will help define the target user for their website. Next, students will map out high-priority user scenarios based on both the user's needs and the business/organization goals. Next, students will develop the information architecture for a website and produce a site map diagram. Once the site map is complete, students will build a "clickable" wireframe prototype and task script which will be used to usability testing. Finally, students will produce a

full set of wireframes for their website incorporating all the learning from user research and usability testing.

IDT672 **3 credits**
Introduction to Instructional Technology: Current & Emerging Systems
This course is an introduction to the theoretical foundations of learning and instructional design using technology as it applies to education, training and organizational development. Emphasizing a systems approach to learning, topics to be covered include the history of instructional technology, systems and communication theory, learning styles and multimedia selection and evaluation.

IDT676 **3 credits**
Management of Change in Instructional Technology
This course will examine diffusion theory as it relates to the adoption and diffusion of technology-based instructional strategies. Topics to be covered include the characteristics of innovations that influence their adoption, how organizational social systems can be used to manage technological adoption and effective communication techniques to foster change.

IDT678 **3 credits**
Research & Development in Instructional Systems
This course focuses on the interpretation of seminal research and the application of significant research findings to the educational process. Focusing on the latest developments in instructional technology, students will learn to interpret and evaluate the research. Students will also learn to apply the language and approach of science to the investigation of instructional technology. Each student will research and make presentations centering on major topics in instructional technology.
Prerequisite: IDT672

IDT680 **3 credits**
Interactive Media I
This class is an introduction to the components of multimedia. Using a hands-on approach, topics to be covered include CD-ROM, digital cameras, digital graphics, scanner technology, digitized audio and video, along with several software packages used to integrate these technologies on both Mac and PC hardware.

IDT683 **3 credits**
Legal Issues Impacting the Educator
This course is a survey of the legal rights and liabilities of educators concerning use of various media in education. Among the topics covered are the requirements and exemptions under current copyright laws, intellectual property statutes and practices, ethics in media education, student and staff privacy issues and common software licensing package agreements. The development of acceptable use policies and consideration of censorship, State Board Regulations, Pennsylvania Department of Education Standards and local boards of education policies are included.

IDT687 **3 credits**
Technical Writing & Computer Documentation
In this course, the student will learn to write technical documentation that is effective, well-organized and visually appealing. Topics to be covered include target audience analysis, writing abstracts, outlining, expository writing techniques, group writing and editing, conducting quality reviews and using appropriate language. Using the concepts of learning theory, emphasis will be placed on creating documents that support and enhance multimedia learning.

IDT688 **3 credits**
Instructional Facilities Planning & Network Design
This course covers design parameters and technical specifications for training facilities in educational and business settings. The course will examine the management of instructional technology programs at the building, district and regional levels. Topics covered include physical layout, networking schemes, hardware selection and special design features for presentation rooms such as rear-screen, telecommunication and computer-based instruction. Also included are basic reviews of hardware components and options, special-needs considerations, budgeting concerns, staff development and other support issues.
Prerequisite: IDT672

IDT689 **3 credits**
Designing Human Performance Technology-Based Staff Development
This course will address different aspects of Human Performance Technology (HPT) as they relate to the planning, design, implementation and evaluation of staff development programs.
Prerequisites: IDT672 and IDT770

IDT692 **3 credits**
Server Side Scripting
This course is the capstone for the Systems Integration Track. Programming on the web server, students will use HTML, Visual Basic, PHP and JavaScript to develop dynamic web content. After building some simple practice websites, the student will create their own site on the web. Topics include building a "storefront" type web and building an interactive "club" website.
Prerequisites: IDT629, IDT694, and IDT696

IDT694 **3 credits**
Scripting Languages
Little languages such as Java Script, Visual Basic, Perl, Python and other languages will be studied with emphasis on use in simple projects. The student will build a data entry system in Visual Basic, use browser scripts in Java Script and build administrative tools in Perl or Python.

IDT696 **3 credits**
Visual Basic for Applications
This course is an introduction to programming using Visual Basic. Students will study basic computer logic, data types and program organization. Students will then build macros to automate Microsoft Office. Projects will include automating

spreadsheets, building interactive systems with databases, creating simple stand-alone Windows programs and MS Word automation.

IDT697 **3 credits**
Programming in C
The course will emphasize structured methods in C. Topics will include problem specification and decomposition, design of algorithms, data and procedural abstractions, control mechanisms and modular programming. Programming projects in C/C++ are also required.
Prerequisite: IDT696

IDT698 **3 credits**
Programming in C++
This course is a continuation of IDT697. Advanced concepts in structured design in C will be discussed before covering the C++ language in its entirety. Course topics will include classes, constructors and destructors, memory allocation, inheritance, static and dynamic binding and templates. Emphasis will be placed on object-oriented methodologies.
Prerequisites: IDT696 and IDT697

IDT743 **3 credits**
Flash Action Scripting
This course is a continuation of Introduction to Flash. Basic Flash interactivity and action scripting will be covered in depth. Topics covered in this course will include advanced interactivity, navigation tricks, variables, looping and decision-making, sound and sprites.
Prerequisite: IDT627

IDT748 **3 credits**
Advanced Web Design
This course builds on the foundation learned in IDT647, Web Design. In this course, students create an interactive instructional website using a professional website development tool. Students will apply usability and accessibility standards to the web pages. Their pages will consist of complex and automated page elements and they will use internal and external cascading style sheets to format text and position elements on the page. Students will use JavaScript/DHTML functions including animations, drag and drop activities and image or layer swapping to add interactivity feedback to pages. Students will develop online quizzes using multiple choice, true/false and text entry items. In addition, students will use graphic software to create complex navigation menus featuring rollovers and drop-down menus. Students will use the instructional design process to develop their sites, including needs analysis, storyboards and flowcharts.
Prerequisites: IDT647 and IDT680

IDT770 **3 credits**
Designing Instructional Systems
Students are introduced to the instructional design process and the systematic approach to creating instructional products. Using current and emerging interactive technologies, students will assume the role of instructional designer and create an instructional product. Topics covered include needs assessment, learner analysis, instructional analysis, instructional strategies and media selection. Formative and summative evaluation strategies will also be developed.
Prerequisite: IDT672

IDT781 **3 credits**
Interactive Media II
This course, a continuation of MC80, is a hands-on course in interactive multimedia development. It employs readings, lectures and lab experiences to familiarize students with the common terminology, software and design processes currently used to develop interactive multimedia applications. The authoring tools for the lab applications are an HTML editor and a 2-D vector animation program.

IDT791 **3 credits**
Internship
Internships provide an opportunity for professional experience supporting application and further development of the knowledge gained in the classroom. Under faculty supervision, students work in positions related to their program and/or career goal, develop learning objectives and complete reflective academic assignments. Students should be exposed to a broad spectrum of professional practices, particularly those not available in the academic setting, and are expected to make a professional contribution to their employer.

IDT798 **3 credits**
Independent Study & Research
This course will allow students to pursue individual areas of interest while working jointly with a faculty member. Enrollment is subject to the availability and approval of both the program director and faculty member. The student must have 24 or more graduate-level credits, and a prospectus of the proposed independent study must be approved at least one month prior to registration.

IDT940 **3 credits**
Thesis
This course will prepare students to pursue doctoral or other advanced study in Instructional Design and Technology by requiring them to articulate an original position on some controversial or emerging aspect of the field. In consultation with a thesis advisor, the student will select an area for concentrated study and produce a publishable thesis either in a traditional print form or written as multimedia hypertext using the most current Philadelphia University Guide For The Preparation Of Doctoral Dissertation And Master's Theses document.
Prerequisites: IDT672 and IDT678

IDT982 **3 credits**
Design & Development of Computer-Based Instruction I
This course is part one of the capstone sequence for the Instructional Design Track. Using the skills learned in all previous courses, students will assess a learning need and design instructional multimedia programs for use in educational, nonprofit, corporate, industrial or military environments. Students will be assigned to project teams with real-world clients and subject matter experts. The end product for the

semester will be a Learning Analysis, Conceptual Design and Prototype of a computer-based training (CBT) program.
Prerequisites: IDT672, IDT676 or IDT678, IDT680 and IDT770

IDT983 **3 credits**
Developing Interactive Media
In this capstone course, students will use all their accumulated knowledge and skills from the MS IDT program to design and develop a complete professional-grade learning program for use in their classrooms. Using a project management approach, students will assume the roles of project manager, instructional, digital, and graphic designer, assessment materials developer, and quality control manager.

IDT984 **3 credits**
Design & Development of Computer-Based Instruction II
This course is part two of the capstone sequence for the Instructional Design Track. Working with the same teams formed in IDT982, students will bring their design to life and form action plans by completing the Development Stage and Evaluation Stage of their projects. Project teams will deliver alpha, beta and final versions to guests and members of their target audience. This class culminates in a Multimedia Design Exhibition held in May. NOTE: This course can only be taken immediately following IDT982.
Prerequisites: IDT672, IDT678, IDT680, IDT770 and IDT982

IDT985 **3 credits**
Portfolio Development - Course by Appointment
Students will develop a digital/multimedia portfolio housing a collection of evidence supporting their achievement of the Pennsylvania Department of Education Standards. In the oral presentation and defense of their portfolio to a committee consisting of faculty and an administrator from the district in which they teach, they demonstrate their technical expertise, organizational skills and presentation and leadership potential.

MBA625 **3 credits**
Management Communications and Negotiations
This course covers the concepts and art of effective management communications and negotiations in the business environment. The total communications process – verbal, nonverbal, presentation, written and electronic – is reviewed in the context of today's work environment. The perspectives and needs of top management, interactive teams, individual contributors, and clients are examined and translated into professional practices. Experiential exercises and class discussions will build participants' understanding of styles and skills in negotiating. Coursework will focus on the uses of power, influence, and negotiating styles, methods of conflict resolution and means of influencing others.
Prerequisite: all MBF courses or equivalents

MBA626 **3 credits**
Management in a Global Environment
This course examines topics relevant to management in global and culturally diverse organizations. Unifying themes such as globalization and sustainability are used to explore organizational change, technology, and ethics and social responsibility. The course also addresses issues such as communication, group dynamics, motivation, leadership, and decision-making in organizations. Readings and cases illustrate managers' dynamic roles and responsibilities with respect to globalization, and within a global environment.
Prerequisite: all MBF courses or equivalents

MBA627 **3 credits**
Management of Information Through Technology
This course will focus on the latest technological advances for managing data and communications effectively. Students will acquire the skills and concepts necessary to use a system to handle data efficiently for large and small organizations, national or international in scope. Network technology and usage of computer networks, as well as ethical and security issues will also be addressed. The concepts of telecommunications and the costs and benefits associated with this transmission of information will be explored. Methods of instruction include hands-on/application orientation.
Prerequisite: all MBF courses or equivalents

MBA628 **3 credits**
Accounting for Management Decisions
This course provides students previously exposed to financial and managerial accounting principles an opportunity to study the structure and use of accounting systems designed to aid management in controlling costs and profits. The course stresses the following: financial statement interpretation as a basis for decision making, cash flow analysis, cash budgeting, cost volume profit analysis, costing and interpretation of manufacturing systems and the impact of international competition, responsibility accounting and the impact of inflation.
Prerequisites: all MBF courses or equivalents

MBA629 **3 credits**
Financial Policy and Planning
This course focuses on the investment and financing decisions of firms. Topics include capital budgeting, cash management and cash flow analysis, capital structure, dividends and international operations. Financial policy making is considered within the context of contemporary valuation and risk management theories. Various financial planning models are analyzed in the course.
Prerequisites: all MBF courses or equivalents

MBA630 **3 credits**
Quantitative Methods in Decisions
This course will focus on the mathematical models and methods available for use in formulating and analyzing business decision-making problems in industry. Areas of study include: probability theory, decision analysis, game theory, forecasting techniques, project management, queuing models, allocating scarce resources using linear programming and integer-programming techniques, and deterministic and probabilistic inventory models.
Prerequisite: all MBF courses or equivalents

MBA632 **3 credits**
Strategic Marketing Management
This course allows students to develop skills in dealing with strategic marketing problems found in both profit and non-profit settings. The course presents a framework for developing a strategic marketing plan over the product life cycle with emphasis on consumer and environmental analysis. Market segmentation, product positioning, marketing responsiveness and competitive reaction will be explored.
Prerequisite: all MBF courses or equivalents

MBA642 **3 credits**
Strategic Planning in a Global Environment
This course will focus on the design and implementation of a strategic plan in global industries and the importance of such a plan in dealing with the many challenges facing organizations in the years ahead. Strategic planning models and research findings will be investigated. During the semester, students will analyze strategic threats and opportunities which confront corporate-level executives as well as managers of business units. Students will work in teams on the development of a strategic plan for a local profit or nonprofit organization. The focus will be on developing effective strategies which clarify the future direction of the chosen organization and deal with the rapidly changing environment. Strategic plans will be presented in oral and written form to the organization. This is a capstone course and students will draw from the knowledge they have gained throughout the M.B.A. program. Extensive written individual and team assignments and oral presentations are included.
Prerequisite: All core MBA courses must be completed or taken concurrently.

MBA700 **3 credits**
Accounting Theory & Applications I
An in-depth study of current accounting issues and pronouncements, including long-term debt and troubled debt restructuring, accounting for leases, pension and post-retirement, income tax accounting, price-level adjusted financial statement reporting, and accounting for partnerships (equity, admission, profit and loss sharing, and liquidation).
Prerequisite: MBA628

MBA701 **3 credits**
Accounting Theory & Applications II
A continuation of Accounting Theory & Applications I, including the study of accounting for business combinations (purchases and pooling of interests), accounting for the translation or remeasurement of foreign subsidiary financial statements into dollars to meet business combination reporting requirements, accounting for transactions denominated in a foreign currency (including purchases, sales, and hedges), and analysis of financial statements.
Prerequisite: MBA700

MBA702 **3 credits**
Accounting Information Systems
Examines the principles of computer-based accounting information systems and their role in the business firm. This course provides an overview of information systems, designing and implementing new system controls and their impact on the decision-making process.
Prerequisite: MBA701

MBA703 **3 credits**
Auditing Theory and Philosophy
A study of the development of financial compliance and operational auditing techniques, including analysis of current issues in the auditing profession such as audit risk, ethical conduct, materiality, audit sampling procedures, and reporting issues. These areas will be studied with reference to pronouncements of the accounting profession and current literature. The study of operational, as well as financial compliance auditing, will be enhanced using case studies and examples.
Prerequisite: MBA701

MBA704 **3 credits**
International Accounting Issues
Examines financial accounting, reporting, and auditing requirements and issues in foreign environments on a comparative basis; current literature on the development of international accounting and auditing standards; and managerial planning and control of multinational firms. The study of international accounting, reporting and auditing standards will be enhanced through the use of case studies comparing the development of these standards in different countries.
Prerequisite: MBA701

MBA705 **3 credits**
Issues in Advanced Accounting
An in-depth study of selected accounting topics, including bankruptcies, estates and trust; SEC reporting; and non-profit accounting for state and local governments, colleges and universities, hospitals and other health care facilities; and other non profit entities. Course includes case studies, using pronouncements of the Financial Accounting Standards Board, the Governmental Accounting Standard Board, and the American Institute of C.P.A.s.
Prerequisite: MBA701

MBA710 **3 credits**
The Global Consumer
The concept of the global consumer or global brand is one of the most emphasized topics in retailing today. Building and managing a successful product in the international arena is extremely important and strong product marketing is evident in successful global firms such as Volkswagen, HP, Canon, Southwest Airlines and Caterpillar. Students will explore product strategies and learn the key steps of the analytical process to grow a product globally. Key topics include: Global Product Development, Global Services Marketing and Global Branding.
Prerequisite: all MBA courses or equivalents

MBA 711 **3 credits**
Global Retailing Marketing Management
This course is an overview of the retail industry which will provide students with a broad and conceptual understanding of the retail industry in the global economy. The course

will include such topics as: overview of the retail industry, structures and strategies, multiple channels of distribution, global consumer, consumer relationship management, financial functions, marketing communications strategies, human resource management, merchandise planning, control and pricing strategies.
Prerequisite: all MBF courses or equivalents

MBA712 **3 credits**
Global Supply Chain
The concept of a global supply chain or global value chain is one of the most emphasized topics in retailing today. Building and managing a successful retail strategy in the international arena is potentially the most challenging and rewarding endeavor an organization can undertake. Students will learn to define measurable objectives and develop strategies to promote supply chain efficiencies, while focusing on key "hot button" areas of management and decision making in today's international marketplace. Key topics include: Outsourcing and right sourcing strategies, partnering and the concept of global brands.
Prerequisite: all MBF courses or equivalents

MBA720 **3 credits**
Accounting and Financial Management for Health-Care Institutions
This course examines accounting and financial concepts as they apply to health care institutions. Financial reporting, cost accounting, fund accounting budgeting and cost benefit analysis are analyzed in the context of health-care institutions.
Prerequisites: MBF504 and MBF505 or equivalents

MBA721 **3 credits**
Legal Aspects of Health-Care Management
This course examines the growing importance of legal matters in health-care management from the administrator's perspective. Topics include negligence law, medical staff organization, discipline, peer review, patients' rights, labor law, contract law, legal structure of health-maintenance organizations and a legal view of social issues in the health field.
Prerequisite: MBF511 or equivalent

MBA722 **3 credits**
Marketing of Health-Care Institutions
This course examines the ever-increasing need to apply marketing strategies to health-care institutions. Specific areas of investigation include an examination of the differences between the marketing services provided by health-care organizations versus traditional product marketing, and the application of marketing theories and concepts to the development of successful strategies for health-care organizations.

MBA723 **3 credits**
Managed Health Care
This course explores the organization and management of health-maintenance organizations and other types of managed-care systems, and looks at alternatives to hospitalization such as HMOs, community-based services and outpatient clinics.

MBA724 **3 credits**
Long-Term Care Administration
This course explores the administrative and operational issues of services provided in long-term health-care facilities. Issues associated with the care of the elderly population in the U.S., including inpatient and outpatient care, as well as community-based programs, will also be covered. There will be an emphasis on services for the elderly, chronically ill and disabled. Differences between acute and long-term levels of care, types of long-term care facilities and special concerns of the long-term care resident will be covered.

MBA725 **3 credits**
Emerging Health Issues
This course provides an in-depth study of current topics in health care. Topics to be explored will be announced when the course is offered and may include health-care reform, ethical issues in health care, world-wide and local social gerontology issues and labor relations in health care.

MBA726 **3 credits**
Health-Care Risk Management
This course provides students with an overall understanding of the various responsibilities and issues important to health-care risk managers. The course will explore the elements of an effective risk-management program and specific risk-management areas, including learning how to identify and control risk from a variety of perspectives. Course content will include legislative and regulatory concerns; risk management; interaction with the board of trustees, medical staff, nursing staff and others within and external to the health-care setting; contract review; employment issues and record keeping.

MBA740 **6 credits**
International Business
By focusing on all aspects of conducting business in a global environment, this course will acquaint students with the theories, concepts, practices and techniques in conducting business abroad. A strong emphasis is placed on cultural, ethical and political issues as they impact on managing multinational operations. A required overseas trip will expose students to a number of foreign cultures and businesses. Students will spend approximately two weeks meeting with business, government and labor leaders, as well as academicians in European or Asian countries. Teaching methods include lectures, case analysis, simulations, role playing and significant current outside readings. Offered in spring semester only. Operational details: If a student misses the scheduled trip, the student will receive an "I" for the course and must go on the next available trip. If the trip is completed but the course is failed, a student must repeat MBA740 (excluding the trip) for three credits and take another elective or repeat the entire course including the trip. The cost of the overseas trip is not included in the tuition for this course.
Prerequisite: All foundation courses

MBA750 **3 credits**
Information Architecture
In this course, students will learn the definition of information architecture (IA), how IA fits into the overall software development process and the critical steps and deliverables for IA. First, students will conduct user research and develop user profiles/persona, which will help define the target user for their website. Next, students will map out high-priority user scenarios based on both the user's needs and the business/organization goals. Next, students will develop the information architecture for a website and produce a site-map diagram. Once the site map is complete, students will build a "clickable" wireframe prototype and task script that will be used for usability testing. Finally, students will produce a full set of wireframes for their website incorporating all the learning from user research and usability testing.

MBA751 **3 credits**
Management of Technological Change
Technological change is widespread within and among today's organizations. This course will examine the effects of that change on organizations and their members. The academic and professional literature describing the influence of technological change on organization structure, group processes and individual workers will be reviewed and analyzed. Participants will examine an assortment of techniques for avoiding the productivity declines sometimes associated with the introduction of new technology. These tools include task design, training, reward system, worker participation, leadership development and other techniques.
Prerequisite: all MBF courses or equivalents

MBA752 **3 credits**
Total Quality Management
Total Quality Management (TQM) embraces a certain philosophy, practices, tools and standards for continuous improvements of process, product and people. Lecture and discussion topics include the introduction to quality control and the total quality system; philosophies and their impact on quality management: practices, tools and standards; fundamentals of statistical concepts and techniques; graphical methods of data presentation; statistical process control; acceptance sampling; reliability; experimental design and the Taguchi Method; quality in the service sector; assignments include problems and reports.
Prerequisites: MBA630 or equivalent and all MBF courses

MBA757 **3 credits**
Management of Innovation and Entrepreneurship
This interdisciplinary seminar focuses on the sources of change and innovation in the business environment and strategies for managing change, especially in dynamic environments. The seminar will review the impact of technological innovation as well as social, economic and cultural change on management strategy. Topics include a systems framework for understanding the types of change, purposeful entrepreneurship, reframing as a change management tool and the practice of innovative leadership in diverse organizational settings.
Prerequisite: MBA626

MBA758 **3 credits**
International Perspectives of Human Resource Management
This course introduces students to the key principles, concepts and techniques involved in identifying and solving people-related business problems in international enterprises. Strategic thinking and environmental-scanning skills will be developed and applied beyond national borders through lectures, discussions, interactive exercises, cases and projects. The impact on management practices and strategies of culturally based differences in values and attitudes will also be examined. The course will focus on critical human-resource issues of special interest to today's transnational careers, selection of expatriates, repatriation, and global succession planning, management education, training and development.
Prerequisite: MBA626

MBA759 **3 credits**
Entrepreneurship
This course will provide an overview of the major elements of entrepreneurial activity including planning and evaluation of the business, financing, typical operating and administrative issues and alternatives for growth and sale. Entrepreneurial opportunities and challenges will be examined and a variety of venture opportunities will be analyzed. The course will give students a realistic look at the challenges involved in starting a viable business and help students in a personal evaluation of their own skills, talents and career potential. Utilizing business planning software, each student will prepare a comprehensive business plan for a business opportunity the student selects and perceives to be viable and practical. The plan may be utilized for presentation to potential investors.
Prerequisite: All foundation courses

MBA761 **3 credits**
Promotion Management
This course focuses on the promotion and communication decisions of corporations and how to employ promotion strategy to solve marketing problems and enhance opportunities. Advertising, sales promotions, publicity, public relations and personal selling are investigated.
Prerequisite: MBA632 or equivalent and all foundation courses

MBA762 **3 credits**
Marketing Research
This course focuses on the collection and use of data to support marketing decisions. Students will learn how to formulate the research problem, design the research and collect the data. Various techniques used for analyzing data will be examined. Students will be required to conduct a research study during the semester.
Prerequisites: all MBF courses or equivalents and MBA632 or equivalent

MBA764 **3 credits**
Global Marketing
This course examines the challenge of entering and operating effectively and efficiently in international markets. The impact of macroenvironmental factors (cultural, legal, political, etc.) on the development of marketing strategies for both consumer and industrial products will be discussed. Students will explore to what extent an organization should follow a country-specific marketing strategy as opposed to a global strategy.
Prerequisite: MBA632 or FAS731 or equivalent

MBA766 **3 credits**
Business-to-Business Marketing
Marketing of goods and services to organizations including industrial firms, service organizations, producers of consumer goods, government institutions and retail trade is explored. Characteristics of these markets, and techniques and processes used to effectively reach these markets, are investigated. The course focuses on organization buying behavior, buyer and seller relationships, market analysis and planning, and the development of marketing strategies.
Prerequisite: MBA632 or equivalent and all MBF courses

MBA771 **3 credits**
Financial Markets and Institutions
In this course, students will study money and capital markets and the managerial and environmental problems facing these markets, including regulation and supervision by government.
Prerequisite: MBA629 and all MBF courses

MBA772 **3 credits**
Investment and Portfolio Management
This course will acquaint the student with the tools essential for sound money management. Investment management begins by considering the goals of an investor with respect to risk exposure, the tax environment, liquidity needs and appreciation versus income potentials. Strategies will be developed to satisfy these objectives. Special attention will be paid to the theories of determinants of asset prices, including the capital-asset pricing model.
Prerequisite: MBA629 and all MBF courses or equivalents

MBA774 **3 credits**
International Finance
This course will examine international financial economics and the international financial system, with emphasis on the theories, techniques and practices relevant to international financial management. Topics include balance of payments, foreign exchange markets and risk, cash flow operations and portfolio effects of capital budgets for multinational and international capital markets. Students will explore problems involved in the financial management of multinational firms including environmental problems; organizing for optimal results; sources and uses of funds; and accounting, tax and control issues.
Prerequisite: MBA629 and all MBF courses or equivalents

MBA775 **3 credits**
Seminar in Finance
This course will address a number of developments in contemporary finance, such as mergers, acquisitions, divestitures, leveraged buy-outs and equity and debt financing. Non-traditional financing methods will also be explored.
Prerequisite: MBA629 and all MBF courses or equivalents

MBA776 **3 credits**
Speculative Markets
This course is intended to introduce students to financial futures, options and swaps. The objective of this course is to clearly explain why these securities exist and how to accurately price them. The course will present a balance of the institutional details, theoretical foundations and practical applications of this field.
Prerequisites: MBA629 and MBA772 and all MBF courses or equivalents

MBA777 **3 credits**
Fixed Income Securities
This is a highly specialized course that focuses on the fixed income market with emphasis on the bond market. Topics include pricing of bonds, bond price volatility, types of fixed income securities, term structure of interest rates and bond portfolio-management strategies. Various fixed income products are analyzed in the course, including some derivative products in the context of fixed-income securities.
Prerequisite: MBA629 and all MBF courses or equivalents

MBA778 **3 credits**
Commercial Banking
This course provides an overview of the history of banking progressing to the banking of today. Banking is the management and evaluation of risk and the balancing of the need for profitability with the safety and soundness required by the community. This course explains the rationale behind the making of loan and asset/liability-management decisions. It surveys the effect of the technological changes of the past ten years on the delivery channels for banking services. Topics for discussion include competition and the mix of banking, insurance and investment banking. The focus of the course will be on management concepts, as opposed to actual formulas and calculations. Projects and case studies will assist participants in gaining a working knowledge of banking decision making.
Prerequisites: all MBF courses or equivalents

MBA780 **3 credits**
Fundamentals of E-Commerce
This course provides an overview of the framework for conducting business in a digital value chain environment. The impact of information technology on the delivery of goods and services and the resulting infrastructure, cultural, organizational and environmental factors will be examined. Participants will develop an awareness of the range, scope and complexity of the issues and an understanding of the technical concepts of electronic commerce to gain a competitive advantage. Topics will include electronic payment issues, copyright protection, governmental regulations, taxing

structures, pricing and product strategies, and market and product development in electronic commerce systems.
Prerequisite: all MBF courses or equivalents

MBA791 **3 credits**
Internship
Internships provide students with an opportunity to apply and further develop the knowledge they have gained in the classroom. Under faculty supervision, students work in salaried positions related to their career goals. While on their assignments, students develop meaningful learning objectives, attend an internship seminar, complete challenging assignments, and write bi-weekly reports analyzing articles in academic journals and practitioner publications.
Prerequisites: Minimum of 18 graduate credits completed (excluding foundation courses); available to full-time students only and subject to availability and eligibility; permission of Internship director and assistant dean for Graduate Business Programs

MBA792 **3 credits**
International Business Trip
The focus of this course is visiting representatives of U.S. and non-U.S. businesses in various industries abroad. The international business trip will span approximately two weeks. Students will meet with business executives, government officials, labor leaders and academicians in specific industries abroad. Students will gain an appreciation for both the formal business aspects and informal social aspects of conducting commerce in foreign countries.
Registration requires permission of the Graduate Business Programs Office.

MBA797 **1-3 credits**
Selected Topics
Content will vary in response to current issues.

MBA798 **3 credits**
Independent Study
This course provides students with an opportunity to pursue areas of interest while working jointly with a faculty member. Subject to availability and approval of both the assistant dean for Graduate Business Programs and faculty member.

MBF501 **1 credit**
Introduction to Computer Skills
This course provides an introduction to the use of personal computers and several software packages commonly used in business settings. The student will spend extensive time practicing database and spreadsheet applications. The course involves a substantial amount of independent lab work. It will be graded on a credit/no-credit basis only. This is a foundation course that does not count for credit toward the graduate degree.

MBF503 **3 credits**
Foundations of Economic Analysis
This course introduces key economic concepts and tools for managers in the public, private and not-for-profit sectors. By applying economic theory to business problems, managerial economics develops general principles that can be applied to business decision making. Topics include the goal of the firm, decision-making techniques, marginal analysis, classical optimization, demand analysis, forecasting techniques, production and cost analysis, price determination and market structure. The role of government to provide a stable institutional environment, as well as the consequences of regulations, will also be covered. This is a foundation course that does not count for credit toward the graduate degree.

MBF504 **3 credits**
Introduction to Financial and Managerial Accounting
A course designed to introduce students to the fundamentals of financial and managerial accounting. The course introduces the use of accounting information as a basis for planning, control and managerial decisions. This is a foundation course that does not count for credit toward the graduate degree.

MBF505 **3 credits**
Financial Management
A survey of the principles and techniques of business financial management including the analysis of working capital, capital investments and sourcing for funds. Time value of money concepts, return and risk analysis and income taxes are considered. This is a foundation course that does not count for credit toward the graduate degree.
Prerequisite: MBF504 or equivalent

MBF506 **1.5 credits**
Marketing Foundations
This course is designed to provide the student with a broad understanding of the various marketing functions of an organization including the development, introduction, promotion, pricing and distribution of goods, services and ideas. Topics covered include consumer behavior, marketing research, segmentation, target marketing and new product development. This is a foundation course that does not count for credit toward the graduate degree.

MBF508 **3 credits**
Statistical Analysis for Business Decisions
Descriptive statistical measures and probability theory are combined to provide the basis for statistical decision-making techniques. Areas covered include: measures of central tendency, measures of variability, hypothesis testing and confidence intervals, one- and two-way analysis of variance, Chi-squares and non-parametric statistical techniques. This is a foundation course that does not count for credit toward the graduate degree.
Prerequisite: MBF501 or equivalent

MBF509 **1.5 credits**
Management Concepts
Effective management is fundamental for the successful operation of all types of enterprises. The course will present the principles, techniques and concepts needed for managerial analysis and decision making. Functions highlighted include planning, organizing, staffing and controlling. This is a foundation course that does not count for credit toward the graduate degree.

MBF510 **3 credits**

Operations Management

This course is designed to provide students with an understanding and working knowledge of the latest quantitative tools needed to participate in, contribute to and enhance the corporate decision-making process. The focus of the material will be on the use and application of quantitative skills without the theoretical detail. Topics covered will include quality-control applications, optimization techniques (including linear programming), simplex method, transportation model and assignment model. Other topics are: time-series analysis, queuing theory and an introduction to total quality management. Computer applications, case analysis and problem-solving sets will be used extensively throughout the course. This is a foundation course that does not count for credit toward the graduate degree.

Prerequisites: MBF501, MBF508 or equivalents.

MBF511 **3 credits**

Decision Making in the Legal Environment of Business

Lecture, class discussions and case problems emphasizing the basic legal principles on the following topics: legal rights and social forces, contracts, partnerships, agency and employment, commercial paper and real property. This is a foundation course that does not count for credit toward the graduate degree.

MCM601 **3 credits**

Advanced Construction Project Management

Through detailed case studies drawn from contemporary practice, this course provides in-depth study of the principles and methods critical to the management and integration of the design and construction processes. Planning, scheduling, bidding, professional/client relationship, contractor selection and LEED accreditation are analyzed. Theoretical and practical aspects of project planning are charted, incorporating such essential steps as feasibility studies, estimating project costs, cash flows and cost control through critical path methodologies, risk analysis methods and current techniques for value engineering.

MCM602 **3 credits**

Advanced Construction Techniques and Documentation

Technological advances within the construction industry demand that today's managers possess proficiency in current building methodologies and literacy in current computer software. This course concentrates upon the use of sustainable construction methods and materials to produce cost-effective projects with emphasis upon resource efficiency, environmental protection and waste minimization. Innovative methods of documentation and digital techniques, principally Integrated Practice and Building Information Modeling (BIM) are given comprehensive coverage, relative to the application of the software to the actualization of the built form.

MCM603 **3 credits**

Construction Law: Roles and Responsibilities

Current legal problems associated with the construction industry are investigated from management's perspective through consideration of the roles assigned to the various project participants. The entire building process from predesign to owner use is scrutinized, highlighting case law and statutory information, contractual relationships, licensing issues, design through build, bidding and procurement rules, mechanics liens, insurance and surety bonds, and liability awareness. Available methods of dispute resolution are evaluated, including negotiation, mediation, arbitration, and litigation with emphasis upon claim avoidance.

Prerequisites: MCM-601

MCM604 **3 credits**

Project Finance and Cost Control

Utilizing pertinent case studies, this course probes the economics of construction and analyzes project control systems used to effectively manage cost and time. Principles drawn from cognate business fields, specifically accounting, finance, and taxation, are given real-life application relative to construction projects of multiple types and scales. Key budgetary issues are examined in-depth, including financial statements and balance sheets, variance analysis and optimum cash flow methods, as well as efficient cost reporting systems. Additional topics include internal controls, financial analysis and presentation, contractor surety and lending, and fraud, with particular emphasis upon cost-effective methods to procure and deliver construction projects including lump sum, unit price, cost-plus, and design-build.

Prerequisites: MCM-601

MCM610 **3 credits**

Principles of Construction Management

Utilizing pertinent case studies, this course focuses upon the planning and scheduling stages of the building process, with particular emphasis upon reading construction documents and basic estimating principles applied to small-scale, residential and commercial projects. Construction site procedures, as well as techniques for estimating unit quantities and costs of materials, labor and equipment, are introduced, and given industry application utilizing building specifications and computer software.

MCM901 **3 credits**

Masters Project

Construction managers today are part of a team-oriented enterprise, working in collaboration with architects, clients, developers and sub-contractors in the conceptualization and realization of the built environment. This independent study serves as the culminating experience in the program and requires the student to translate the design intentions of the architect and the expectations of the client into sustainable built form. Working in consultation with a committee of academic and professional advisors drawn from both architecture and construction, the student must choose a specific project and produce a comprehensive manual that addresses design concerns, sustainable systems and materials, construction methodologies as well as financial, legal, and safety standards operative in each phase of the construction process. An oral defense, supported by visual documentation realized via relevant digital technologies, will be presented

for review and critique by a jury of committee members, faculty and students.
Prerequisites: MCM 602, MCM-603, MCM-604, MBA-625, SDN-601, SDN-603

MCM700 **1 credit**
Construction Management Internship
To ensure competency in the field before graduation, each student must complete 400 hours of professional construction management experience with a firm in the building industry. This requirement may be waived for entering students with equal or greater professional experience.
Prerequisite: MCM 602, MCM-603, MCM-604

MMW712 **3 credits**
Introduction to Health Policy
The focus of this required course is federal health-policy development, analysis and implementation and the role of the health-care provider in influencing health policy in the United States. The student will study public health policy to understand the basics of the policy-making process and to attain a beginning knowledge of how to influence health policies. The course will focus on women's and infants' health issues as examples of broader issues in health policy.

MMW720 **3 credits**
Critical Inquiry I
Critical Inquiry I is a required course that provides the foundations of research and critical inquiry as it applies to the evaluation of scientific evidence. The course will cover the following areas: the scientific method and its limitations; multiple ways of knowing; the ethics of research; defining problems, questions and hypotheses; conceptual analysis, constructs and theory building as they pertain to clinical practice and research. The course will provide an overview of the research process, and the student will apply this knowledge in the development of Chapters 1 and 2 of a research proposal. Midwifery contributions to the scientific literature will be highlighted as examples.

MMW721 **3 credits**
Critical Inquiry II
Critical Inquiry II is a required course that provides a special focus on research methods and their applications in clinical research and evidence-based practice. Steps in developing a research proposal, a research report and an evidence-based clinical protocol are presented. Students will be expected to continue their work on a problem or question relating to midwifery practice and/or women's health, critically analyze the literature, place the issue in a theoretical context and develop an appropriate methodology to study the issue. Students may prepare a research proposal, a manuscript for publication, a grant proposal or an evidence-based clinical protocol for the final project. Or, the student may serve as a research apprentice to an experienced researcher working on a midwifery or women's health issue or as an intern to a national midwifery organization working on research-related projects that advance the profession of midwifery. Students may elect to continue their research and complete a thesis in a three-credit elective course.
Prerequisite: MMW720

MMW722 **3 credits**
Introduction to Clinical Administration
This elective course provides students with the knowledge to understand the factors that influence the success and viability of nurse-midwifery practices. The effects of the changing health-care environment on primary health-care providers will be explored. Particular attention will be paid to current issues in the health-care system. The course will examine the startup of a clinical practice either as an entrepreneurial entity or within an existing organization. Emphasis will be placed on a beginning understanding of financial accounting statements and business plans used in the health-care industry. Students will explore the influence of political/economic milieus within and around the practice organization. In addition, students will learn practical techniques in order to develop beginning abilities in conflict resolution and contract negotiation.

MMW723 **3 credits**
Advanced Clinical Practice
This elective course is a guided independent study in advanced clinical practice. In consultation with the faculty, the student will identify a specific area of clinical practice (for example, caring for women with gestational diabetes). Intensive, focused study in this content area will be facilitated. Experiences relevant to the student's area of interest will be sought in the clinical setting. Reflection on the student's own transformation from novice to expert will be included.

MMW724 **3 credits**
Introduction to Teaching Methods
This elective course provides an introduction to teaching methods useful for midwifery educators in academic and clinical settings. Fundamentals of adult education will be reviewed. Concepts particular to midwifery education will be explored. Examination of how to identify and reach educational goals will be included for traditional models, distance education and in the clinical setting. The process of identification of student learning issues and problem solving will be included.

MMW725 **3 credits**
Issues in Reproductive Health in Developing Nations
This course will present current trends and the range/impact of problems in reproductive health in the developing world. Students will explore the context and consequences of reproductive health problems, common intervention strategies, and the critical role of health-care consultants to developing countries. The class will gain an understanding of the appropriate preparation, roles and responsibilities of international health-care consultants. As an outcome of this course, the student will be prepared to predict the potential impact of unmet reproductive health care needs in developing countries and evaluate proposed interventions.

MMW931 **3 credits**
Thesis
Students may elect to conduct their own research and complete a thesis under faculty guidance using the most current Philadelphia University Guide For The Preparation Of Doctoral Dissertation And Master's Theses document. This elective course will be based on the proposal written in Critical Inquiry II.
Prerequisite: MMW721

OCC610 **1 credit**
Portfolio Seminar
This course presents the concept of a professional portfolio, the initial step in guiding students' professional development and socialization into the occupational therapy discipline. Students are introduced to the concepts of self-reflection and self-assessment, and are guided in the process of developing growth activities leading to individual competencies. Through class activities and assignments with their portfolio clients, students learn how to interview, develop a therapeutic rapport, and construct a client profile.
Prerequisite: All admissions prerequisite coursework

OCC611 **3 credits**
Foundations for Practice
Overview of occupational-therapy domains of practice including practice roles and functions, legislative mandates and constraints, introduction to theoretical foundations for practice, historical and philosophical foundations, ethics, critical thinking and research questions.
Prerequisite: All admissions prerequisite coursework

OCC612 **1 credit**
Foundations for Practice Seminar
Interpersonal communication, health and human-service issues and OT roles and functions are examined through use of case studies, discussion, experiential and electronic learning activities.
Prerequisite: All admissions prerequisite coursework

OCC613 **4 credits**
Functional Anatomy
Using biomechanics, kinesiology and ergonomics, students explore key human anatomical structures and their relation to each other. Classroom and applied experiences address identification of physical and sensorimotor functional capacities, goniometry, and manual muscle testing.
Prerequisite: All admissions prerequisite coursework

OCC615 **1 credit**
Assistive Device Design
Working with students from the Industrial Design program, students collaborate to design an assistive device or tool to facilitate a client's occupational performance. Through field experiences, teaching-learning activities, discussion, and experiential assignments, students examine their evolving understanding of occupation, adaptation, and participation. Course activities include applying the principles of task analysis and universal design, and critically analyzing and synthesizing evaluation data. The culminating course project assists students to gain professional development experience and insight through the presentation of findings in a consumer-oriented forum.
Prerequisite: OCC611

OCC621 **3 credits**
Occupational Competence
Historical exploration into the nature of humans as occupational beings throughout the lifespan. Focus on occupational performance analysis, and occupation-based goal setting and intervention planning to promote an individual's occupational competence. Impact of physical, social and cultural environments on occupational choice and the ability of individuals to adapt to environmental demands are presented.
Prerequisite: OCC611

OCC623 **4 credits**
Applied Neuroanatomy
In-depth exploration of the neuroanatomical, neurochemical, neurophysiological, cognitive, motor and sensorimotor basis of brain function as it relates to human performance. Identification of major structures and functions of normal and abnormal nervous systems. Development of an understanding of the neurobiological substrates of behavior and learning. Particular emphasis is placed on the relationship of neuroanatomy to human movement, problem solving and executive functions.
Prerequisites: OCC611

OCC624 **3 credits**
Dimensions of Human Movement
Exploration of human movement through movement analysis. Emphasis is placed on developing the ability to: identify disruptions in movement patterns; suggest potential causes for the disruption; and describe the impact of these disruptions on functional performance. Students will learn to analyze the functional ramifications of abnormal movement patterns in goal-directed work, leisure and self-care activities.

OCC625 **1 credit**
Clinical Skills A
Students learn clinical skills most typically used in various practice contexts of occupational therapy. Course includes development of competencies in safe clinical practices, occupational therapy terminology, and documentation for skilled occupational therapy service. Skills are practiced in hands-on laboratory environments and then applied through Level I Fieldwork.

OCC 626 (formerly OCC744) **3 credits**
Evidence-Based Practice
This course helps students to become skillful consumers of research for the purposes of evidence-building and assessing outcomes of occupational therapy. Students are introduced to the research perspective and evidence-based practice as a basis for professional competence. Utilizing the critical appraisal process, students critique and analyze the literature to answer clinical practice questions. Course experiences include examining the basic research elements of single subject, experimental, quasi-experimental and

qualitative research studies; considering ethical issues of research; developing and answering complex clinical questions; and planning, presenting and disseminating research findings.
Prerequisite: OCC611

OCC631 **3 credits**
Conceptual Assumptions for OT Practice
In-depth exploration of the major theories and frames of reference, which have shaped and informed occupational therapy practice since its inception. Emphasis is on the "Model of Occupational Performance." Frames of reference and theory-based treatment methods currently in use by occupational therapists in a variety of human-service settings will be compared. Focus on the values and beliefs that support practice decisions, as well as developing an understanding of compelling factors that contribute to practice decisions. Identification of critical occupational-therapy research questions.
Prerequisite: OCC611

OCC635 **1 credit**

Clinical Skills B
Students learn clinical skills most typically used in various practice contexts of occupational therapy. Course includes development of competencies in safe clinical practices for mobility devices, monitoring and documenting vital signs, adherence to cardiac precautions, adapted self-care activities, joint protection and energy conservation. Skills are practiced in hands-on laboratory environments and then applied through Level I Fieldwork.
Prerequisite: OCC611

OCC645 **1 credit**

Clinical Skills C
Students learn clinical skills most typically used in various practice contexts of occupational therapy. Course includes development of competencies in safe clinical practices for physical agent modalities (PAM), fabrication and application of splinting devices, and wound care. Skills are practiced in hands-on laboratory environments and then applied through Level I Fieldwork.
Prerequisite: OCC611, OCC613, OCC623

OCC735 **1 credit**
Level I Fieldwork A
The overall purpose of the fieldwork experience is to provide students with exposure to clinical practice through observation and active participation in the evaluation and treatment process. The opportunity to work with clients and therapists helps students to examine their reactions to clients, themselves and other personnel while integrating academic learning with clinical practice. The focus of the learning experience will be the application of knowledge and skills learned through coursework to include observation, written and verbal communication, professional behavior, individual and group participation with patients and clients, and beginning level assessment and intervention. At the completion of three Level I Fieldwork experiences the student will demonstrate beginning-level competency on a series of clinical skills.
Prerequisite: OCC621, OCC625, OCC635

OCC736 **4 credits**
Assessment and Intervention: Adults
Occupational therapy assessment process and intervention approaches as they apply to individuals whose lives have been affected by disease, trauma and/or disability. In-depth analysis of the physical, social, cognitive and psychological properties of intervention strategies. Hands-on techniques, documentation strategies, patient/client and caregiver teaching and theoretical constructs are explored. This course focuses on assessment and intervention strategies that primarily address musculoskeletal or neurological impairments and medical conditions. Students will learn the historical and theoretical basis for a variety of assessment tools and intervention strategies.
Prerequisites: OCC613, OCC621, OCC623, OCC624

OCC741 **3 credits**
Interpersonal Relations and Dynamics of Collaboration
Interpersonal communication and relationship theories and information related to the dynamics of collaborating with others including OTA, members of the multidisciplinary team, patients and their families are explored. Strategies for using the self as a therapeutic agent, and teaching and empowering patients, families and caregivers, are discussed.
Prerequisite: OCC611

OCC745 **1 credit**
Level I Fieldwork B
The overall purpose of the fieldwork experience is to provide students with exposure to clinical practice through observation and active participation in the evaluation and treatment process. The opportunity to work with clients and therapists helps students to examine their reactions to clients, themselves and other personnel while integrating academic learning with clinical practice. The focus of the learning experience will be the application of knowledge and skills learned through coursework to include observation, written and verbal communication, professional behavior, individual and group participation with patients and clients, and beginning level assessment and intervention. At the completion of three Level I Fieldwork experiences the student will demonstrate beginning-level competency on a series of clinical skills.
Prerequisite: OCC621, OCC625, OCC635

OCC746 (Formerly OCC743) **4 credits**
Psychosocial Interventions OT assessment and intervention approaches as they apply to individuals whose lives have been affected by developmental delay, disease, trauma and/or disability are explored. In-depth analysis of the social and psychological properties of intervention strategies. Focus on assessment and intervention strategies that mainly address cognitive and psychiatric impairments. Hands-on techniques, consultative models, documentation strategies, patient/client and caregiver teaching and theoretical constructs are

explored.
Prerequisites: OCC621

OCC751 **3 credits**
Professional Issues and Trends
In-depth examination of issues affecting practice, reimbursement, role delineation, professional autonomy and the changing human services system in the United States. OT-specific issues regarding ethics, staff development, program evaluation, research, patient advocacy and health policy will be addressed. Strategic and program planning, program design and implementation, legislative imperatives, resource utilization and use of outcomes data for program planning and justification are presented.
Prerequisites: two of the following: OCC736, OCC746, OCC756

OCC754 **3 credits**
Environmental Dimensions of Occupation
In-depth exploration of the physical, perceptual, psychological and social dimensions of the environment. Impact of the environment on behavior and the individual's ability to mount an adaptive response will be examined. Students will complete an environmental assessment and will learn to design and construct environmental adaptations. Historical and theoretical basis for physical and social adaptations is explored.
Prerequisites: OCC621, OCC624

OCC755 **1 credit**
Level I Fieldwork C
The overall purpose of the fieldwork experience is to provide students with exposure to clinical practice through observation and active participation in the evaluation and treatment process. The opportunity to work with clients and therapists helps students to examine their reactions to clients, themselves and other personnel while integrating academic learning with clinical practice. The focus of the learning experience will be the application of knowledge and skills learned through coursework to include observation, written and verbal communication, professional behavior, individual and group participation with patients and clients, and beginning level assessment and intervention. At the completion of three Level I Fieldwork experiences the student will demonstrate beginning-level competency on a series of clinical skills.
Prerequisite: OCC621, OCC625, OCC635

OCC756 (Formerly OCC753) **4 credits**
Assessment and Intervention: Children & Youth
Students explore occupational therapy assessment and intervention approaches as they apply to children and youth whose lives have been affected by complex developmental, physical, cognitive and neurological disorders. Students will conduct an in-depth analysis of the physical, social, and psychosocial contexts in which intervention strategies occur. Hands-on techniques, consultative models, reimbursement and practice domain challenges/opportunities, documentation strategies, client and caregiver education, family-centered care and theoretical constructs are explored. Adaptive equipment, assistive devices, and emerging technology are examined. Learning activities help students to develop a repertoire of strategies to observe and assess children and youth, develop collaborative team skills, design intervention plans, refine their activity analysis skills, and identify the theoretical relevance for assessment tools, assistive devices and intervention strategies.
Prerequisites: OCC613, OCC621, OCC623, OCC624

OCC757 **3 credits**
Innovative Practice in Occupational Therapy
This course offers an in-depth exploration of emerging areas for occupational therapy practice. Issues regarding program development, financial and human resource management, outcomes measurement, advocacy, and health policy will be addressed. Students will work in small groups to examine the interrelationships of person, environment and occupation within communities and populations. They will collaborate with stakeholders including local agency staff and consumers to identify and develop potential client-centered and evidence-based programs and funding mechanisms. Self-directed classroom and distance learning activities will enable students to explore strategies for improving access to occupational therapy services and expanding the realm of practice.
Prerequisites: OCC736, OCC746, OCC756

OCC760 **1 credit**
Practice Platform Seminar
This course supports students in their final culminating project of the academic program, presentation of the Master's Portfolio. During this capstone course, students describe the development of their own critical thinking, assess current practice knowledge and skills, and identify constructs for their future professional practice. Through classroom and online learning activities that involve self-reflection on collected experiences over the program, students are guided in their professional socialization.
Prerequisites: OCC626, OCC736, OCC746, OCC756

OCC763 **2 credits**
Clinical Mastery
This course provides an overview of the clinical reasoning process that guides occupational therapy evaluation, goal setting, treatment planning and documentation strategies as related to clinical skills and current technologies. The practical, philosophical and theoretical bases for intervention are reviewed for the following advanced practice techniques: computer-assisted technology, environmental controls, specialized communication devices, seating and positioning, and dysphagia treatment. The need for advanced certification as well as parameters for referral to and/or collaboration with other disciplines will be explored.
Prerequisites: OCC736, OCC746, OCC756

OCC764 **2 credits**
Specialty Practice: Upper Extremity Rehabilitation
Students learn the clinical reasoning process that guides occupational therapy upper extremity rehabilitation with a focus on assessment, goal setting, treatment planning and

documentation strategies. The practical, philosophical and theoretical bases for intervention are reviewed for the following advanced practice techniques: physical agent modalities (PAMs), kinesiotaping, joint mobilization, static and dynamic splinting, post-surgical techniques, and upper quadrant interventions. The need for advanced certification as well as parameters for referral to and/or collaboration with other disciplines will be explored.
Prerequisites: OCC736, OCC746, OCC756

OCC766 **2 credits**
Older Adults: Enabling Participation
This course provides an in-depth analysis of the impact of aging on health, well-being, and participation in older adults. Topics include the impact of normal aging, changing health status, role transition, memory and life review, retirement/ leisure pursuits, wellness, and end of life issues. Hands-on techniques, consultative models, reimbursement and practice domain challenges/ opportunities, documentation strategies, patient/client and caregiver education, and theoretical constructs are explored. Students will employ clinical reasoning in assessment and interventions across practice settings including acute, rehabilitation, outpatient, mental health, home, and long term care facilities.
Prerequisites: OCC611, OCC621, OCC623, OCC624

OCC771 **3 credits**
Level II Fieldwork A
(Credit/No Credit)
The fieldwork component of the curriculum provides students with an in-depth experience in the practice and application of the occupational therapy process. Students will apply the knowledge, skills and clinical reasoning gained through classroom, experiential and self-directed learning experiences to achieve entry-level practice competence. Students complete two full time, 12-week fieldwork placements following successful completion of assessment and intervention coursework. Successful completion of the fieldwork education component is a requirement for graduation from the Occupational Therapy Program.
Prerequisites: Complete a minimum of 52 OCC credits

OCC773 (Formerly OCC772) **3 credits**
Clinical Reasoning
This course is conducted completely on-line; using distance teaching methods. Content includes the analysis of critical thinking constructs that inform daily practice decisions and reflection on practice decisions. Evidence-based practice approaches; clinical reasoning concepts, and self-reflection are taught through student case presentations.
Corequisite: OCC781

OCC781 **3 credits**
Level II Fieldwork B
(Credit/No Credit)
The fieldwork component of the curriculum provides students with an in-depth experience in the practice and application of the occupational therapy process. Students will apply the knowledge, skills and clinical reasoning gained through classroom, experiential and self-directed learning experiences to achieve entry-level practice competence. Students complete two full time, 12-week fieldwork placements following successful completion of assessment and intervention coursework. Successful completion of the fieldwork education component is a requirement for graduation from the Occupational Therapy Program.
Prerequisites: Complete a minimum of 52 OCC credits

OCC797 **1-3 credits**
Special Topics
Prerequisites: OCC611 or permission of instructor

PASF507 GR **5 credits**
Advanced Anatomy
This lecture and laboratory course will review basic histology along with the major anatomical structures of the human using a regional organization. Laboratory sessions utilizing microscopic examination, models and cadaver specimen dissection will augment lecture material.

PASF513 GR **3 credits**
Medical Physiology and Pathophysiology
This lecture course is designed to teach the principles of human medical physiology along with the physiological mechanisms of common disease states.

PASF511 GR **3 credits**
Applied Behavioral Science
The topics of developmental psychology, abnormal psychology, human sexuality, stress responses, behaviors related to psychological health and illness and the diagnosis and management of common psychological disorders are the focus of this lecture course.

PASF 517 GR **5 credits**
Medical History and Physical Diagnosis
This lecture and practical laboratory course will introduce the physician assistant student to the techniques for eliciting a medical history and performing a complete physical examination on humans. The interpretation of history and physical examination findings as applicable to physiological and disease states will also be discussed. Laboratory sessions, hospital experiences and writing assignments will enhance the learning experience.

PASF510 GR **2 credits**
Medical and Professional Ethics
Understanding the philosophical principles related to biomedical ethics, patient-practitioner relationships, health policy and the role of the physician assistant provider within the health care system are the main topics encompassed in this lecture and discussion seminar course.

PASF521 GR **2 credits**
Medical Genetics, Immunology and Microbiology
This lecture course presents current concepts and issues in medical genetics, immunology and microbiology. It focuses on diseases of genetic origin, the function of the immune system and emerging trends in disorders caused by microorganisms.

PAS611 **8 credits**
Clinical Medicine
This lecture course uses an organ-system organization to present an overview of the pathophysiology, clinical manifestations, diagnostic evaluation and management of common diseases encountered in primary care. The course includes modules in: epidemiology, infectious disease, cardiology, pulmonology, gastroenterology, hematology/oncology, endocrinology, nephrology, urology, rheumatology, neurology, dermatology, ophthalmology, otorhinolaryngology (ENT) and psychiatry. Principles of health promotion and disease prevention are also presented.
Prerequisites: PASF507GR, PASF513 GR, PASF517.
Corequisite: PAS612

PAS612 **2 credits**
Clinical Reasoning
This seminar course uses clinical case studies and role-playing to guide students in developing directed history and physical examination, clinical reasoning, case presentation and patient counseling skills. Research methods and reviewing the medical literature are also presented.
Corequisite: PAS611

PAS613 **4 credits**
Pharmacology and Pharmacotherapeutics
This lecture and case study seminar course is designed to introduce students to the principles of pharmacology, including the absorption, bioavailability, distribution, metabolism, excretion, classification and mechanism of action of commonly prescribed medications. Additionally, this course will give students an understanding of how drugs are used in clinical practice, including the clinical indications, contraindications, dosing, side effects and monitoring of commonly used medications.
Prerequisites: PASF507 GR, PASF513 GR, PASF521 GR

PAS614 **3 credits**
Emergency Medicine
This lecture and laboratory course encompasses emergent presentations and management of common primary care and emergency-care problems. Laboratory sessions cover procedures necessary for the delivery of emergency medical care. This course also includes limited emergency room patient exposure with written assignments.
Prerequisites: PASF507GR, PASF513 GR, PASF517

PAS615 **2 credits**
Laboratory Medicine
In this lecture and laboratory course, the utilization and interpretation of commonly used diagnostic and clinical laboratory studies such as X-rays, electrocardiograms and blood studies are reviewed.
Prerequisites: PASF507 GR, PASF513 GR, PASF521 GR

PAS621 **6 credits**
Clinical Disciplines Overview
During this lecture and workshop course, the physician-assistant student is introduced to the basic principles of diagnosis and treatment in the medical disciplines of pediatrics, surgery, obstetrics and gynecology. The female and male reproductive system examination workshop is also a component of this course.
Prerequisites: PASF507GR, PASF513 GR, PASF517, PASF521 GR, PAS613, PAS615

PAS622 **1 credit**
Pharmacotherapeutics Seminar
This course will use small-group, case-study, problem-based seminars to demonstrate the practical utilization of medications in the clinical setting. Prescription writing, dosing, titration and ongoing monitoring will be the focus of the course.
Prerequisite: PAS613

PAS623 **1 credit**
Advanced Radiology/ECG Seminar
(Credit/No Credit)
This seminar course builds upon the foundation of knowledge in chest X-ray, abdominal X-ray, bone X-ray and ECG interpretation developed in the PAS614 and PAS615 courses. CAT scans of the head are also reviewed. Students will recognize common disease patterns as seen on these studies.
Prerequisites: PAS614, PAS615

PAS624 **3 credits**
Biomedical Literature and Research
Basic statistics, research methods, epidemiology, the structure of writing used in medical research and the principles of evidence-based medicine are reviewed in this course. Students will have the opportunity to review current medical research and evaluate it with regard to its application to medical practice.
Prerequisites: PAS612

Clinical Rotations **36 credits**
6 Rotations (6 credits/rotation)
The physician assistant student will complete six (5- to 6-week) rotations.
Prerequisites: Students must successfully complete ALL didactic or classroom courses in the physician assistant program (except PAS771) and be in good academic standing prior to proceeding to any Clinical Rotations or Preceptorships

PAS741 **6 credits**
Internal Medicine Clinical Rotation

PAS742 **6 credits**
Pediatrics Clinical Rotation

PAS743 **6 credits**
Women's Health Clinical Rotation

PAS744 **6 credits**
Psychiatry/Mental Health Clinical Rotation

PAS745 **6 credits**
Surgery Clinical Rotation

PAS746 **6 credits**
Emergency Medicine Clinical Rotation

Preceptorships **24 credits**
Preceptorships (6 credits/preceptorship)
Two five- to six-week preceptorships must be done in an ambulatory primary-care setting. The remaining preceptorship experiences include the Floating Medicine Block in which students do six additional weeks in a medically related specialty such as family, internal or geriatric medicine, and the clinical elective. During the elective students can spend more time in one of their rotation specialties, or gain experience in other settings such as neonatology, HIV, correctional medicine, urology, orthopedic surgery, cardiothoracic surgery and others.

PAS759 **6 credits**
Preceptorship IA: Primary Care 1

PAS760 **6 credits**
Preceptorship IB: Primary Care 2

PAS763 **6 credits**
Preceptorship IIA: Floating Medicine Block

PAS764 **6 credits**
Preceptorship IIB: Elective

PAS771 **3 credits**
PA Master's Project and Summary Competency Evaluation (Credit/No Credit)
This course, which takes place throughout the entire clinical year, is the capstone experience of the PA program. It consists of two components: an independent project that includes either an applied-research project, extensive literature research with the preparation of a review article for submission to a professional journal, a PA education/instruction experience, or a community health-education project. It will be developed with, and supervised by, a faculty advisor and include an extensive literature review, integration of knowledge acquired throughout the curriculum, a written assignment and an oral presentation. The course also includes a multi-faceted summative evaluation/assessment procedure consisting of: a comprehensive written examination that encompasses topics drawn from the entire PA Program curriculum; and a series of Objective Structured Clinical Examinations (OSCE) using standardized patients where students must demonstrate: eliciting a medical history, performing a physical examination, ordering appropriate ancillary studies, formulating a diagnosis, developing a management plan, rendering patient education and documenting the findings, all as appropriate to the clinical cases presented. Students must successfully pass the independent project and the multi-faceted evaluation procedure in order to complete the requirements for this course and the master's degree.
Prerequisite: All PA professional phase didactic courses

SDN 601 **3 credits**
Sustainable Design Methodologies
Sustainability is a cultural phenomenon that is reshaping the way architects, engineers, designers and planners conceive of the built environment. This lecture/seminar course will explore changes in culture over the years that have led to the formation and adoption of contemporary sustainable design practices, technologies and processes. Current aspects of sustainability will be explored including the impact of the LEED rating system, legislation, environmental law, corporate culture evolution, integrated design process, energy modeling and economic impacts of land development. Students will complete a final paper on future directions in sustainable design at the end of the course.

SDN 602 **3 credits**
Adaptive Design
An introduction to quantitative criteria that define adaptive responses as instrumental characteristics of design based on human comfort, program, climate and site. Investigations will seek an understanding of the reciprocity between competing (and often contradictory) design forces, such as theoretical versus real, dynamic versus static, spatial and numerical, energy gain and loss. An awareness of the function of scientific instruments for measurements and performance assessments on buildings and outdoor spaces on real sites with the goal of achieving human comfort will be explored. Students will propose design interventions in accordance with their experimental data and use simulation tools to assess ultimate performance of the intervention.

SDN 603 **3 credits**
Sustainable Systems
This course will provide a thorough understanding of ecological site systems and sustainable building systems in order to optimize energy efficiency and minimize environmental pollution while maintaining human comfort resulting in a holistically designed building that is non-polluting and energy efficient. Students will complete a series of case studies and a final project.
Prerequisites: SDN 601

SDN 604 **3 credits**
Green Materials
A key requirement to completing a successful sustainable design project is a careful consideration of the environmental and energy performance impacts of construction materials. Students will begin the course by learning how to complete a life cycle analysis for materials as preparation for the design and creation of their own material/construction system. During the project, students will continue to discuss the pros and cons of different materials/construction systems in the context of trying to better understand the tenants of sustainable design. Students will complete a final "construction" as part of the requirements for the course.

SDN 611 **6 credits**
Sustainable Design Studio I
This studio will emphasize interdisciplinary teaching and learning as a fundamental core concept of sustainable design. Students will be challenged to work collaboratively on a series of design projects that foster creativity, ingenuity and innovation as key components of effective sustainable design.
Prerequisites: SDN 601

SDN 702 **3 credits**
Building Simulation I
Building simulation tools are used to predict the environmental and energy performance of buildings for the purposes of optimizing efficiency during the design process and for comparing multiple design proposals. This course will focus on the basic principles, approaches and uses of building simulation tools. Students will be challenged to complete building simulations on real buildings and on un-built projects. A final report will be required that documents the building simulation process.
Prerequisite: SDN 103

SDN 703 **3 credits**
Building Simulation II
This advanced elective course will build upon the first Building Simulation course to explore more complex and technically demanding simulation software packages including DOE2. Students will complete a series of short exercises designed to develop specific modeling skills. The students will go on to develop sophisticated energy and daylight models for a proposed building and generate a comprehensive report on the results of the simulations. This course is geared towards engineers.
Prerequisite: SDN 702

SDN 704 **3 credits**
Tensile Structures
As architects continue to seek innovative ways to create outdoor microclimates and indoor modification of light and air, tensile structures provide a unique and effective opportunity to achieve these goals. This course will begin by introducing students to the history of tensile structures and move on to contemporary applications of this technology. Students will go on to design and build small scale tensile structures to solve specific micro-climate responses. These constructions may be used in conjunction with the Green Design Build course.

SDN 710 **3 credits**
Green Design Build
This elective course focuses on actual design and implementation of sustainable materials and technologies on a small scale construction project. Students may plug into a real project under construction or design and create their own structures for a particular site or client. Experts from around the region will be brought in as guests to assist with the process.
Prerequisite: SDN 601

SDN 791 **3 credits**
Practicum in Sustainable Design, Engineering or Construction
Students are required to complete a minimum of 8 weeks of real world experience on a project as overseen by an approved mentor on the project. In addition, students must prepare two research papers on the impact of sustainable design upon mainstream design and construction practices. Lastly, students will complete a portfolio that details their experiences and quantify the knowledge, skills and design synthesis experience gained in the practicum.

SDN 900 **6 credits**
Thesis in Sustainable Design I
This second of three studios in the sequence will allow students to begin an independent or group synthesis project that is relevant to their profession or of particular interest. Students may choose to complete a design project, lab based project or a theory/research project. Students will be required to reach a master's level of competence as defined and agreed to by the program director and the student. Integrated with the studio will be ongoing training in advanced building simulation as a means to optimize the performance of the project.
Prerequisites: SDN 611

SDN 901 **6 credits**
Thesis in Sustainable Design II
This third and final studio in the sequence will focus on the continuation and completion of the project begun in the previous semester. Students will be required to focus on specific details and features of their project. If agreed to by the program director, students will present their final project in a public forum and generate a final "book" (using the most current Philadelphia University Guide For The Preparation Of Doctoral Dissertation And Master's Theses document) that includes all of the work completed during the studio sequence. For a building design project, students will be required to present their building simulation results as part of the final requirements for graduation.
Prerequisites: SDN 900

TAX660 **3 credits**
Individual Taxation
This course is a study of federal tax law as it pertains to individuals. It emphasizes the determination of gross income, deductions and credits, tax accounting and timing principles, realization and recognition of gains and losses, and standards of tax practice and ethical concerns. Students gain an awareness of history and tax policy considerations behind various Internal Revenue Code provisions.

TAX662 **3 credits**
Corporation Taxation
This course will provide students with knowledge concerning organization, capital structure, gross income and deductions, dividends, accumulated earnings tax, personal holding tax and stock redemptions.

TAX664 **3 credits**
Tax Research
This course enhances the student's ability to identify tax issues, locate and evaluate the legal authority relevant to those issues and effectively communicate, both orally and in written form, the conclusions and recommendations from their research. Electronic (computer) research will be taught in a hands-on setting. Students will gain an awareness of issues in federal tax practice and procedure, including ethical

concerns for tax professionals.
Prerequisites: TAX660, TAX662

TAX763 **3 credits**
Financial Planning
This course will cover all aspects of financial planning including income tax planning, estate tax planning and strategies, gift tax, insurance planning, investment strategies, planning for the elderly and planning for survivors.

TAX765 **3 credits**
Taxation of Flow-Through Entities
This course provides an in-depth study of flow-through entities including S corporations, partnerships and limited liability companies. Emphasis will be focused on student's understanding of the tax statutes, court cases and practice techniques related to the concept of "choice of entity." This course creates an awareness of the potential consequences of choosing a particular form of entity. Topics covered include formation, operation, and dissolution of S corporations, partnerships and limited liability companies.

TAX770 **3 credits**
Business Tax Planning
This course explains the various types of entities, types of compensation, fringe benefits and liquidation of each type of entity such as proprietorships, partnerships, corporations and 1120S corporations.

TAX771 **3 credits**
Advanced Individual Taxation
This course is a continuation of TAX660 - Individual Taxation and is intended as a comprehensive continuation of advanced topics for individuals. In addition to federal taxes, Pennsylvania, New Jersey and Delaware state tax regulations will be covered.
Prerequisite: TAX660

TAX778 **3 credits**
Current Issues in Taxation and Accounting
This course will update students in various tax and accounting topics. Topics will include new development at the IRS and in areas such as individual taxation, business taxation, financial planning, business tax planning, multi-state tax issues, estate taxation and accounting and auditing pronouncements.

TAX782 **3 credits**
Tax Accounting
This course will review accounting methods and periods, installment method, long-term contracts and changes in accounting methods.

TAX789 **3 credits**
Taxation of Real Estate Transactions
This course emphasizes the income tax aspects of acquiring, operating and disposing of investment and personal real estate. Detailed consideration of deductions, conventional and creative financing techniques, foreclosures and repossessions, subdivision, sales/leaseback transactions, tax-deferred exchanges, involuntary conversions, and sale of principal residence.

TAX791 **3 credits**
Internship
Internships provide students with an opportunity to apply and further develop the knowledge they have gained in the classroom. Under faculty supervision, students work in salaried positions related to their career goals. While on their assignments, students develop meaningful learning objectives, attend an internship seminar, complete challenging assignments, and write bi-weekly reports analyzing articles in academic journals and practitioner publications.
Prerequisites: Minimum of 18 graduate credits completed (excluding foundation courses); available to full-time students only and subject to availability and eligibility; permission of Internship director and assistant dean for Graduate Business Programs

TAX793 **3 credits**
State and Local Taxation —Individual and Corporations
Emphasis will be placed on individual and corporate tax problem areas in the states of Pennsylvania, New Jersey and Delaware. Gross receipts and sales tax will also be covered.

TAX794 **3 credits**
IRS Tax Procedures
A complete review of audit, collection and appeal procedures conducted by the Internal Revenue Service will be examined by the students.

TAX795 **3 credits**
Estate and Gift Taxation
This course will review mainly the estate and gift tax returns, such as preparation and problem areas. Deductions, income, annuities and taxable transfers will be discussed.

TAX797 **1-3 credits**
Selected Topics
Content will vary in response to current issues.

TAX798 **3 credits**
Independent Study
This course provides students with an opportunity to pursue areas of interest while working jointly with a faculty member. Subject to availability and approval of both assistant dean for Graduate Business Programs and faculty member.

TES901 **3 credits**
Preliminary Examination Preparation
This course is intended for Ph.D. students who have completed their coursework, but who have not yet passed both parts of the qualifying examination. Students will meet with their advisor on an independent basis and will be given guidance and practice examinations to prepare for the doctoral-qualifying examination.

TES902 **6 credits**
Thesis I
Doctoral students will form the doctoral committee and complete formulation of the thesis topic. Literature review and

research of the proposed topic. Oral presentation and written submission of thesis proposal will be made to the student's doctoral committee.

TES903 **9 credits**
Dissertation Research I
This course is intended only for those students who have achieved Ph.D.-candidacy status. Seminal and original research will be conducted with a goal of preparing and defending a doctoral dissertation.
Prerequisite: Admission to doctoral candidacy

TES904 **3 credits**
Dissertation Research II
This course is intended only for those students who have achieved Ph.D.-candidacy status. Seminal and original research will be conducted with a goal of preparing and defending a doctoral dissertation.
Prerequisite: TES903

TES906 **6 credits**
Thesis II
Completion and oral presentation of thesis work to the graduate faculty of Philadelphia University. Submission of the written thesis using the most current Philadelphia University Guide For The Preparation Of Doctoral Dissertation And Master's Theses document.
Prerequisites: TES904

TXD615 **3 credits**
Design Studio IA
Focuses on design research as an essential beginning for textile design studio work. Students in all concentrations will work on common projects and, toward the end of the semester, take their research work into design work specific to their concentration.

TXD616/TXD617 **6 credits**
Design Studio IB & IC
This initial course will be delivered through lecture/studio sessions and will ensure that the student gains increasingly advanced knowledge of the technical/design aspects of knit, print or weave design. Within TXD616 and TXD617, projects will be devised to integrate the knowledge and practice gained through design and technical courses, with the development of individual creative design work in the chosen concentration (knit, weave or print).

TXD625 **0 credits**
Seminar
(Credit/No Credit)
Weekly seminars will be arranged during the first semester, to which visiting speakers will be invited to give presentations on topics covering the national and international perspectives of marketing, technology and design in textile and related activities. Student participation will be expected during these seminars.

TXD742/TXD743/TXD744 **9 credits**
Design Studio II
Studio work involving advanced-level technical/creative projects in the chosen design concentration (as in Design Studio I), and the opportunity for interdisciplinary work encouraging knit/print, weave/print or weave/knit coordination, will be carried out in the first part of the semester. Student design work at this point should progress from assigned projects to independent, student-directed work. Toward the end of the semester, reviews of student work will lead to the selection of a "major project." The aims and outcomes of this project will be written up in detail for submission to a faculty review committee. This project will form the basis of the final semester's design work, thesis report and student exhibit for graduation.

TXD749 **3 credits**
Weaving Technology
The variations, functions, auxiliary devices and design characteristics of dobby and Jacquard looms and the equipment used to support the weaving process will be studied. Calculations relating to production and materials will be considered, along with the accurate analysis of fabrics for weight and cover. Consideration will be given to size, texture, fiber type, weave and other fabric parameters. Advanced multilayered weaves will also be studied.

TXD750 **3 credits**
Knitting Technology
A further investigation into the construction, design and production of both weft- and warp-knitted fabrics. Lectures will be complemented with lab work involving the design, production and analysis of knit fabric upon power-knitting equipment.

TXD756 **3 credits**
Advanced Jacquard
The design and production of Jacquard fabrics will be studied. Students analyze designs and produce complex fabrics on commercial equipment using computerized design and production systems.

TXD765 **3 credits**
Design Management
The aim of this course is to create an awareness of the factors involved in the process of innovation and design, and the importance of establishing a policy and strategy, which will ensure that the design process is effectively promoted and managed to assist in the achievement of organizational goals. At the end of the course, students will be able to: (a) relate the process of design to corporate and product strategy; (b) describe the nature of the tasks undertaken by industrial innovators and designers; (c) prepare a brief for a design project; (d) monitor and evaluate the progress of a design project. They will also become aware of (a) the contribution made to the design process by systematic techniques such as value analysis and by specialist support staff; (b) the factors affecting creativity and innovation; (c) the link between product and manufacturing system design; (d) the legal protections offered to designers.

TXD772/TXD773/TXD774 **8 credits**
Design Studio - III

(a) Project
The major project worked on independently by students during this final semester will be chosen to show the student's range of creative and technical ability. It will be concerned with a specialized area within their design concentration. Each project will be required to encompass:
(1) design ideas and extensive sketchbook development;
(2) market research and technical notebooks;
(3) print Croquis and/or fabrics in sample form, production fabrics, computer-aided designs and final product rendered designs.

(b) Final Exhibit
The student will be expected to mount a personal design exhibit showing the range of his/her abilities in either knit, weave or print design. The work will be professionally presented and displayed for judging by a panel of design faculty. An important outcome of this exhibit will be the opportunity for key industrial people to visit, and for possible career opportunities to result. A secondary outcome will be its inspirational impact on undergraduate design students within the University.

TXD776 **3 credits**
Textile Printing Technology
A specialized and practical course in the principles, techniques and chemical processes involved in the printing of textiles. The chemistry and use of different dye classes and pigment systems; application printing; discharge, burnout and other styles; and the influence of thickeners, cloth preparation and fixation processes on quality and colorfastness are examined.

TXD777 **3 credits**
Advanced Computer-Aided Textile Design
This course focuses on both the conceptual and technical aspects of digital portfolio presentation for the textile designer. Students will use interactive media to create both a CD-ROM portfolio and a personal website. Course projects provide an in-depth exploration of Adobe Photoshop, Adobe Illustrator and multimedia design software. Students must have a clear understanding of Adobe Photoshop and Adobe Illustrator before enrolling in this course.

TXD791 **3 credits**
Internship
Internships provide students with an opportunity to apply and further develop the knowledge they have gained in the classroom. Under faculty supervision, students work in salaried positions related to their career goals. While on their assignments, students develop meaningful learning objectives, attend an internship seminar, complete challenging assignments and write bi-weekly reports analyzing articles in academic journals and practitioner publications.
Prerequisites: Minimum of 18 graduate credits (excluding foundation courses); available to full-time students only and subject to availability and eligibility; permission of Internship director and graduate program director

TXD797 **3 credits**
Selected Topics: Advanced Drawing Techniques
Advanced Drawing Techniques is designed to further develop the design student's drawing abilities and creative thought process, while encouraging conceptual development and a deeper understanding of contemporary issues in art and design. This course will provide an in-depth exploration of line, color, materials and the relationship of traditional drawing tools with digital drawing techniques. Students will participate in off-campus trips to both Philadelphia and New York galleries and museums.
Prerequisites: T712, graduate status or undergraduate status with 90 credits and 3.00 GPA

TXD798 **3 credits**
Independent Study
Students may select an independent project or research topic with the approval of the dean of the School of Engineering & Textiles.

TXD975 **1 credit**
Thesis
(Credit/no credit)
The design work encompassed through the major project needs to be submitted in thesis form, three copies of which are to remain at the University. The thesis should contain written material relative to the design inspiration, technical development and production process, and yet students are encouraged to include visual imagery relevant to their work and design development as evidence of their design capabilities. This course will assist final-semester students working toward the production of their thesis document using the most current Philadelphia University Guide For The Preparation Of Doctoral Dissertation And Master's Theses document. In addition to the bound thesis, other media presentations of their final project will be explored.
Prerequisite: TXD744

TXD993 **3 credits**
European Textile Print Study Tour
A two-week study tour in the textile printing areas of France, Switzerland and Northern Italy introduces textile majors to the expertise of important European printers, screen engravers and studios in the areas of printed textile design, style, color and printing technology. Visits to the two important French historic textile museums and other related textile plants are also included.
Prerequisite: Approval of the program director

TXD994 **3 credits**
European Knitting Study Tour
A guided visit to the textile machinery producers and textile industry in Europe (Germany and Switzerland). During the 10 to 14-day stay, students will have the opportunity to see some of the leading knitting machine manufacturers, tour the production plants, attend demonstrations, use design equipment and participate in presentations regarding the

projected targets of this industry.
Prerequisites: TXF502, TXE712 and TXE752 or equivalents

TXE601 **3 credits**
Fiber and Yarn Studies
This course advances the knowledge of fibers and yarns. In the case of cotton and wool, a detailed study of how fibers are produced is mace and how the properties and structure of fibers vary in relation to variability in growing conditions is explored. For man-made fibers, the length and fineness can be changed during manufacture depending on the type of system on which the yarn is to be produced. Yarn-processing systems are covered in detail along with faults that can result from various causes, in either the fiber or the machines. Quality-control procedures are emphasized at each stage of processing, along with methods for analyzing test results. Typical products are discussed from the point of view of type of fiber used and type of yarn structure.

TXE613 **3 credits**
Characterization of Fibrous Materials
Topics will include chemical nature, structure; mechanical, electrical, and thermal properties; viscoelastic properties, use of instrumentation with computer-controlled data acquisition; IR, RAMAN, and molecular spectroscopies; SEM; and creep/stress relaxation. The physical and mechanical testing of fibers, yarns and fabrics are studied, along with the static and dynamic-load response of textiles.

TXE621 **3 credits**
Mechanics of Materials
Definitions of stress and strain, uniform states of stress and strain, transformations, principal axes, stress/stress relations, strain/displacement relations. Equilibrium, boundary conditions, simplifying assumption, and yield criteria are presented.

TXE622 **3 credits**
Mechanics of Textiles
Hierarchical mechanical-dependency relationships in textiles are discussed. Included are the role of fiber and yarn twist, yarn crimp, finishes, and coatings to mechanical response of textiles. Dynamic and static response to various types of loading are investigated. Tearing, abrasion, and wear properties as a function of textile form are presented.

TXE624 **3 credits**
Advanced Textile Composites
The objectives of this course will be to expose the student to the textile materials and processes used in composite applications and to introduce methods of analyzing and predicting the behavior of the resultant products. Fiber architecture of textiles used for composites is reviewed along with manufacturing processes. Tools for predicting elastic properties will be introduced along with the relationship of elastic properties and geometric considerations.

TXE625 **3 credits**
Biomaterials Technology
General introduction to the uses of artificial materials in the human body for the purposes of healing, correcting deformities and restoring lost function are presented. Topics include biocompatibility, techniques to minimize corrosion, and specific uses of materials in various tissues and organs.

TXE713 **3 credits**
Coloration and Finishing Studies
Applications studied in detail will include methods of imparting dimensional stability to cotton fabrics through cross-linking; the problems associated with dyeing fiber blends; textile printing using pigments and various dyes. A study will also be made of binders, e.g., latex use in pigment printing and dyeing. Other methods of textile coloration, e.g., solution dyeing, garment dyeing and transfer printing will be considered. Instrumental color measurement will also be covered.

TXE721 **3 credits**
Analytical Methods
Statistical process-control theories and methods are discussed, and applications toward optimizing both process and product quality in modern textile operations are considered. The objective of these studies is to develop a process/product control system for the progressive textile plant of today. Another major segment of this course will be the review and employment of various methods of analysis of experimental data. Various techniques, and their advantages and disadvantages, will be considered and studied using textile applications.

TXE751 **3 credits**
Advanced Woven Structures - Product Development
Independent pursuit of goals in the development of woven fabrics is emphasized. The student will complete three projects, with product-development skills enhancement as a primary goal. Each project will require a search of current literature, the use of CAD, selection of equipment, production of a prototype fabric and submission of a technical report. Two of the projects will be selected by the course advisor and the third will be student-selected.

TXE752 **3 credits**
Advanced Knitted Structures - Product Development
This course is an in-depth study of weft- and warp-knitting technologies, fabric constructions, and apparel, home furnishing and industrial products/applications/markets. Weft-knit fabric technologies studied include single flat and tubular, double knit, fully fashioned, electronic, etc. Warp-knit fabric technologies studied include tricot and raschel, weft inserted, double needle bar, multiaxial, etc. Students are exposed to a variety of weft- and warp-knitting machines, stitch constructions and mechanical and electronic design/pattern mechanisms. Knit fabric geometry is analyzed on the machine, off the machine and after finishing. The relationship and interactions between the knitting yarn and knitting elements are well established. Knitting productivity and quality factors are emphasized.

TXE753 **3 credits**
Advanced Nonwoven Structures - Product Development
Nonwovens have a vast range of physical properties and end-use applications with an exceptionally high

performance-to-price ratio. Such remarkable characteristics are possible due to the range of fiber type, bonding methods, and finishing methods possible at an exceptionally low cost. This course is intended to give a broad range of knowledge in nonwoven manufacturing methods cost and end-use applications and consumption. This will be accomplished by lecture, laboratory experiments, literature searches, research, cost analysis, statistical comparisons and modeling.

TXE754 **3 credits**
Industrial and Specialty Fabrics - Product Development
Industrial fabrics are used in a variety of applications other than consumer apparel and home furnishing products. For example, industrial fabrics are used in automotive trim, architectural fabric structure, awnings/outdoor furniture, aerostats, camping products, commercial/institutional interior trim and furnishings, composites, conveyor belts, filtration, geotextile and geomembrane applications, hazardous occupational products, marine products, military products, passive solar systems, sails, tarpaulins, tents, tires and window energy systems. This course is concerned with the study of major industrial-fabric applications and constructions. The performance requirements for each major industrial application will be related to the selection of specific fabric constructions. Trends in industrial fibers, yarn structures, fabric constructions, fabric finishing/coating/laminating and in fabrication of industrial products are reviewed for each major application. Each major application/market will be covered, wherein specific requirements and qualified fabric construction will be reviewed. The historical development of each application will be emphasized to demonstrate the impact of new materials/material forms/processing techniques on the dynamic nature of the industrial fabric business.

TXE755 **3 credits**
Advanced Yarn Studies
This course allows for an independent pursuit of advanced knowledge through a literature search in a selected area of research. Further, the course is structured toward an advanced study of the newer methods of yarn manufacture and the latest developments in processing, computerized control and testing methods. Relationships between yarn properties and product properties are investigated.

TXE759 **3 credits**
Product Evaluation
The processes for the evaluation of fabrics and products are examined. The use of product assessment as a tool for process and product improvement is emphasized. The complexity of the fiber, yarn, fabric and product-forming systems is such that it requires careful evaluation at each stage of the manufacturing process. A comprehensive understanding of the interrelationships of the fabric and product forming stages as related to their evaluation is developed. Established and innovative methods of evaluation are explored.

TXE762 **3 credits**
Textile and Apparel Operations Management
This course is intended to cover the usual operations management topics, but with direct emphasis on textile and apparel operations. It deals with such topics as global competitiveness, product layout, strategies of life-cycle management, capacity planning and forecasting, quality management, materials management, human resource management, facilities management, production planning, characteristics of textile equipment and managing technological change.

TXE783 **3 credits**
Advanced Chemistry of Fibrous Materials
The course is designed to introduce modern methods of instrumental analysis and related technologies to fibrous materials. This course is concerned with the study of spectroscopic methods such as: UV-Spectroscopy, FTIR, NMR, EPR, GC, HPLC, microscopy, DSC and some microbiological methods, etc., applied to material science and technology. In addition, this course will introduce students to related fields of fibrous materials and polymers such as gels and sprays, and the technology of production of delivery systems for drugs and medications. Introduction to adhesion processes and superabsorbents (e.g., diapers, incontinence products and biotextiles) will also be covered. Lectures are complemented with laboratory work and seminars.

TXE790 **3 credits**
Quality Management
Quality has emerged as a formal management function. No longer restricted to manufacturing and operations areas, it now includes the design, purchasing and marketing processes. Through lecture, discussion and experiential activities, this course examines quality theory and practice — how a more sophisticated understanding of quality can lead to a strategic approach to utility management which is necessary to compete in today's world marketplace. Factors required for creating and maintaining a corporation's strategic and competitive edge are thoroughly analyzed.

TXE791 **3 credits**
Internship
Internships provide students with an opportunity to apply and further develop the knowledge they have gained in the classroom. Under faculty supervision, students work in salaried positions related to their career goals. While on their assignments, students develop meaningful learning objectives, attend an internship seminar, complete challenging assignments and write bi-weekly reports analyzing articles in academic journals and practitioner publications.
Prerequisites: Minimum of 18 graduate credits (excluding foundation courses); available to full-time students only and subject to availability and eligibility; permission of Internship director and graduate program director

TXE797 **1-3 credits**
Selected Topics

TXE798 **3 credits**
Independent Study
Students may select an independent project or research topic with the approval of the dean of the School of Engineering & Textiles.

TXE941 **9 credits**
Research Thesis
In consultation with the thesis advisor, the student will select an area for concentrated study. The elements of the study will include, but not be limited to, literature searches, experimental design, research, thesis preparation (using the most current Philadelphia University Guide For The Preparation Of Doctoral Dissertation And Master's Theses document) and oral thesis presentation. This project is the culmination of a rigorous preparation in one or more areas of specialization and leads to the establishment of expertise in a chosen field. (20 hours minimum per week)

TXF501 **3 credits**
Foundation Fiber and Yarn Studies
This course introduces the basic knowledge of fiber and yarn technology. Included are the proper use of fiber/yarn terms and definitions, the construction parameters of the various fiber and yarn types and detailed analysis of performance properties for each. This information is then used in the proper selection of fibers and yarns for various fabrics and ultimately for various end-use textile products in apparel, household and industrial applications. This is a foundation course that does not count for credit toward the graduate degree.

TXF502 **3 credits**
Foundation Fabric Studies
Provides a comprehensive introduction to weaving and knitting technologies including terminology, process flow, fabric structures, products, markets and fabric properties. Fabric geometry is emphasized in order to establish the interdependence of fabric properties and behavior on fabric structure and construction. Assignments include a substantial laboratory experience in which fabric samples made in the lab are analyzed and mounted with descriptive parameters in a research notebook format. This is a foundation course that does not count for credit toward the graduate degree.

TXF-503 **3 credits**
History of Textiles and Costumes
A multi-faceted survey of textiles and costumes from ancient cultures to the present, technical- and visual-design aspects of the textile arts, the influence of trade on design trends, styles in period costume and the sociological implications of dress are all incorporated. This is a foundation course that does not count for credit towards the graduate degree.

TXF-506 **3 credits**
Design Foundations II
Color is introduced in this foundation design course with an emphasis placed on its practical application in the design process. Projects done by students, using a variety of media, will explore the interaction of color in design with both formal, biophysical and psychological implications and goals. This is a foundation course that does not count for credit towards the graduate degree.

TXF-507 **3 credits**
Design Foundations III
In-depth studies emphasizing the use of color and varied media in both 2D and 3D forms are undertaken in this foundation course. The interrelationship of the elements and principles of design are addressed through solving a variety of visual problems. Processes of abstraction are explored in projects using a wide variety of media. Students will be expected to develop their abilities for critical analysis of their own work, as well as design processes and products in general. This is a foundation course that does not count for credit towards the graduate degree.

TXF510 **3 credits**
Computer-Aided Design
This course focuses on increasing the student's individual level of computer literacy through the exploration of the basic structure of the operating system, general Internet skills and the fundamentals of 2D image making and web-design programs. Course projects provide hands-on experience with Adobe Photoshop, Adobe Illustrator and web design software. This is a foundation course that does not count for credit towards the graduate degree.

TXF511 **4 credits**
Knitting I
The understanding of both weft- and warp-knit fabrics through an investigation of knit construction, machinery, principles and knit fabric analysis. Lectures are complemented with a series of lab exercises on hand-flat equipment and fabric-analysis projects designed to fully acquaint the student with the principles of knit-fabric design and production.

TXF512 **3 credits**
Knit Design Studio I
Students will learn through individual development how to create a range of texture and color effects within knit design. Independent needle selection and the use of the presser foot will be explored within design areas involving Jacquard, held-stitch and tuck-stitch structures. Design ideas will be developed through to swatch/sketch proposals suitable for sweater production.

TXF513 **3 credits**
Knit Design Studio II
A knit design studio elective for Textile or Fashion majors specializing in the knit-design area. Original design ideas will be developed through swatch/sketch presentations. Garment ideas will be developed through technical sketches and specifications into completed sweaters.

TXF514 **3 credits**
Print Design I
Techniques, materials, tools and basic information needed for the design on paper of printed fabrics for the apparel and home furnishing fields are studied. Hands on approaches with gouache and watercolor are used to prepare colorway and repeats. Students prepare a portfolio and learn to keep a sketchbook. A brief introduction to printing methods is included

TXF515 **3 credits**

Print Design II

This course focuses on creative use of CAD in surface patterning, which integrates with hands-on design applications that students acquired in PRINT-303 Print Design I. Digital workflow, which includes scanning croquis, designing pattern on CAD, digital color matching and color ways will be introduced. At the same time, strong emphasis is placed on making croquis, which develop from drawings and paintings in the sketchbook. Students will create printed textile designs and patterns for Jacquard designs on paper with digital printers for apparel and home furnishing fields. Throughout the semester, sketchbook study will also be required to document the working process, as well as drawings and paintings.

TXF516 **4 credits**

Dyeing & Finishing

This course presents an overview of the wet processing of fibers, yarns and fabrics. Included are the preparation, dyeing and finishing of textiles. Some emphasis is placed on the chemistry and technology involved in these operations. Dyes are studied by their method of application and the primary substrates to which they are applied. Chemical, thermal and mechanical processes are discussed for both preparation and finishing of fabrics.

TXF517 **4 credits**

Weaving I

The structures and analysis of woven fabrics will be studied utilizing CAD, pick outs and laboratory assignments on industrial equipment. Weave structures will include plain, twills and satins (with their derivatives), color effects, textural effects (cords, piques, etc.) and pile weaves. Fabric will be mathematically analyzed for weight, yarn size, fabric count and yarn crimp to specify fabric structure. Necessary loom controls (draw, chains and reed plans) will be used to relate lectures and laboratory work on dobby looms.

TXF518 **3 credits**

Weave Design Studio I

This course focuses on the effects and interactions that yarn, color, texture and structure play in woven design. Working with multi-harness floor looms and dobby looms, students create warps and chains, and weave prototype cloth for various end uses.

TXF519 **3 credits**

Weave Design Studio II

The study of elements of woven design is brought to the problems of multi-layered cloth, compound weaves, block designs and other advanced structures. Students use several CAD programs in conjunction with AVL compu-dobbies to increase their design capabilities. Multi-harness floor looms and dobby looms are also used to develop cloth from concept to actuality.

Academic Policies and Procedures

The academic policies and procedures presented here are general policies for graduate programs. Students may receive program handbooks from their respective program directors. Students are expected to review the handbooks and become familiar with the requirements for their specific graduate programs.

Academic Advising

Academic advising is available for each student. Questions pertaining to the program, instruction, course selection and any related matters may be discussed with an advisor. After a student is accepted, an advisor is assigned by the program director.

Academic Misconduct

It is assumed that graduate students will conduct themselves in a professional manner. Academic misconduct includes, but is not limited to, cheating on examinations, plagiarism and fraudulent practices in conducting research. Proven instances of academic misconduct may result in sanctions, including dismissal from the program. See the Student Handbook for the "Academic Integrity Policy."

Access to and Release of Student Records

Copies of the University's statement of "Policy Regarding Access to and Release of Student Records" in accordance with the Family Education Rights and Privacy Act are available to students at the Registrar's Office.

Address Changes

It is the student's responsibility to see that a valid permanent address is on file in the Registrar's Office. Any change of permanent or local address must be reported to the Registrar's Office when it occurs. A forwarding address should also be given to the U.S. Postal Service.

Appeal of Adverse Decisions

Students have the right to appeal decisions that are made regarding them by any faculty, official, or committee of the University. The Dean of Students can advise students on the appeals process. Students should first discuss the decision with the individual who made the adverse decision. If a satisfactory resolution of the problem cannot be reached at that level, students may file a subsequent appeal with the person to whom that faculty or staff member reports. In the event a satisfactory resolution cannot be reached at that level, or if there were no intermediary, an appeal may be submitted to the dean of the school. In the event a university committee rendered a decision, the student may file a second appeal with that same committee if there were new information that would have a bearing on the outcome of the case. The school dean or the university committee is the final appeal.

Attendance

Graduate students are responsible for, and grades may be determined by, all requirements outlined by the instructor's syllabus. This may include attendance, class participation, as well as the completion of all assignments, the reading of all required materials, the completion of laboratory assignments and/or field trips and taking the required examinations.

Students with absences due to extended illness should contact the Student Health Center. Students with excessive absences due to personal circumstances should contact their program directors.

Cancellation of Classes

If classes are cancelled due to inclement weather, an announcement of the Philadelphia University snow number will be made by KYW Radio (1060 on the AM dial). The number for cancellation of day graduate classes is 112; the number for evening graduate classes on the Main Campus is 2230; the number for our Bucks County Campus is 2751.

Credit/No Credit

Some graduate courses are graded on a "Credit/No Credit" (CR/NC) basis. To obtain credit for these courses, students must earn the equivalent of a "B-" or better in the course. The grade point average will not be affected whether credit is received for the course or not.

Dropping Courses

Courses dropped between Monday of week four and Friday of week ten (or the corresponding period of time for courses on alternative schedules, including summer courses) will appear on the student's transcript with a grade of "W." A "W" grade **will not** affect the grade point average.

Courses dropped after Friday of week ten (or the corresponding period of time for courses on alternative schedules, including summer courses) will receive a grade of "F." A "F" grade **will** affect the grade point average. See "Withdrawal."

Grade Changes

All grades become part of the permanent records of the University at the end of the tenth week of the semester (a proportional period of time in summer sessions) subsequent to that for which the grades were awarded. Following that time, no grades may be changed without the written approval of the program director and the vice president for

Academic Affairs. This in no way affects the institutional policy regarding the grade of Incomplete.

Grade Reports

Students access and print their grade reports using Web Advisor. Grade reports are not mailed to students.

Grading

The University uses a plus/minus grading system. The passing grades for graduate courses are "CR" "A" "B" and "C". A grade of "F" signifies that the course has been failed. The grade of "C" is the minimum passing grade, but is considered unsatisfactory performance.

A cumulative grade point average of 3.0 for all courses in the student's graduate program is required for graduation; this does not include foundation courses or undergraduate prerequisite courses. The unit of credit is the semester hour. A quality point average is used to determine scholastic standing. Quality points are assigned according to the following scale:

A	(4.0)	C+	(2.33)
A-	(3.67)	C	(2.0)
B+	(3.33)	C-	(1.67)
B	(3.0)	F	(0.0)
B-	(2.67)		

To calculate the grade point average for a given semester, divide the number of grade points awarded by the number of credits attempted. To calculate the cumulative grade point average, the total number of grade points awarded is divided by the total number of credits attempted in all courses taken at the University.

The "I" (Incomplete) grade is used to indicate that a student has missed some portion of the required work because of illness or other emergencies beyond their control. It indicates that the student will most probably complete the missing requirements within the prescribed time limit and, when they do, will probably receive a passing grade.* If there is no possibility of passing the course, then it is inappropriate to assign an "I" grade. Both the student and faculty member assigning the grade must sign the "Agreement for the Completion of Work Outstanding." Copies of this form are available in the online public folder, as well as at the Office of Academic Affairs. An "I" grade automatically becomes an "F" (failure) unless removed within the first four weeks of the next semester, including summer sessions.

The grade of "W" is recorded for courses that are dropped between Monday of week four and Friday of week ten. The "W" grade will not affect the grade point average. See "Dropping Courses."

** In most cases, a passing grade for graduate courses is "C," but there are courses and programmatic requirements that exceed this. Please refer to the appropriate program and course descriptions in the current graduate catalog.*

Graduate Courses for Undergraduate Students

Undergraduate students who have earned a minimum of 90 credits and whose cumulative grade point average is a minimum of 3.0 may enroll in a graduate course with the permission of the respective program director.

Graduation Requirements

To graduate, students must fulfill the credit-hour requirements and complete the required courses for their specific graduate program. To be certified for graduation, a candidate must have:

- a minimum 3.0 cumulative grade point average (excluding foundation courses and undergraduate prerequisite courses);
- no more than two grades below "B-" (including CMW599, IDF501, IDF502, IDF503, IDF506, IDF511, IDF512, MBF501, MBF503, MBF504, MBF505, MBF506, MBF508, MBF509, MBF510, MBF511, PAF507, PAF511, PAF512, PAF513, PAF514, PAF515, TXF501, TXF502, TXF510 and undergraduate prerequisite courses);
- grades of "C" or better in WRTG-100ESL and READ-098ESL for those students who were required to complete these courses; and
- no "F" grades in courses within the student's program.

Students must also complete all requirements for the doctoral dissertation or the master's thesis in programs that require them. See "Guide for the Preparation of Doctoral Dissertations and Master's Theses" for further information (available online: http://www.philau.edu/gradstudent/, and from the Office of Academic Affairs).

Students must complete an Application for Graduation prior to the semester in which they plan to graduate. This form is available from the program director. Students will be billed for graduation fees.

Internship Program

Graduate students who have earned at least eighteen credits (including nine core credits) and who carry a grade point average of 3.25 or higher* may participate in the Internship Program as part of their studies. Employment in a position directly related to the student's academic program is coordinated by the director of the Internship Program, in conjunction with graduate program directors. Interested students should meet with their program directors early in their studies to begin planning for an experience. Students with graduate assistantships and international students must seek written approval before applying to the program.

**Day MBA program students have requirements specific to their academic program and should see the program director with questions.*

Leave of Absence/Withdrawal Policy

Students may cancel their registration at any time before the first day of classes without any academic or billing record. Student wishing to leave the University after courses begin must complete a Withdrawal from University form. Students who request a leave will receive the letter grade of "W" on their transcript between week four and ten of the fifteen week semester.

Students may withdraw or take a leave of absence after the deadline for dropping a course. However, courses in which a student is enrolled at this time will remain on the transcript, will be awarded a "F" grade, and will affect G.P.A. calculations.

Students who need to leave the University after the deadline, due to serious extenuating circumstances, must seek permission from the vice president for Academic Affairs for late withdrawal or leave of absence. Students who receive permission will receive "W" grades. These grades will not affect G.P.A. calculations.

When a student withdraws or takes a leave of absence during a semester, the effective date of the leave of absence/withdrawal will be determined when the Office of the University Registrar receives the completed form.

Any student who is in good academic standing is eligible to take a leave of absence from the University for up to one calendar year. A leave of absence allows students to re-enter the University within one calendar year from the date on which the leave was approved without the need for completing a new application.

The leave of absence also enables the student to retain degree requirements from the catalog under which they originally matriculated. Any student may, however, choose to re-enter under requirements in the current catalog. A student whose leave of absence extends beyond two full academic semesters must complete a new application to re-enter the University. Graduation requirements will be determined from the catalog in effect on the date of acceptance for re-entry by the Office of Graduate Admissions or the Graduate Dean.

Students who are not in good academic standing are allowed to apply for withdrawal, but not leave of absence. Under these circumstances, the Graduate Dean must approve any application for reentry before a student registers for any additional courses at the University.

Procedures

Students begin the process for taking a leave of absence or for withdrawal from the University with the Graduate Dean. Students who wish to discuss their decision should meet with their Program Director or Graduate Dean.

All students are asked to complete the "Notification of Student Withdrawal/Leave of Absence" form and to return it to the Office of the University Registrar. Forms are available with the Dean of the student's Graduate Program.

When the effective date of the leave or withdrawal occurs while a semester is in progress, the Office of the University Registrar will notify the student's instructors about the change in student status. International students must also contact the director of International Student Programs when they plan to withdraw or take a leave of absence from the University.

If it is impossible to process a leave of absence or withdrawal from the University in person, the student should contact the Dean of that Graduate Program regarding intentions to take a leave or to withdraw. Official forms will be forwarded to the student to complete with a stamped self-addressed envelope to be returned to the Office of the University Registrar.

Matriculation Maintenance

In order to earn credit for the completion of the dissertation, thesis, capstone project or clinical experience, a student must be registered in the appropriate graduate program (either in residence or absentia) during the semester in which the course work is completed or the dissertation or theses are defended and enrolled in the appropriate course.

If a student is capable of defending or presenting their work within the grace period (approximately four weeks into the next semester, including summer sessions*), the grade of "Incomplete" will be awarded. Following successful completion and submission of coursework, or in the case of thesis of dissertation, a final version of the dissertation or thesis, a change of grade will be submitted by the faculty of record. Students who fail to complete the requirements during the grace period must re-register for dissertation, thesis, capstone project, or clinical experience until they successfully meet all requirements.

Students who are judged by the faculty, dissertation or thesis chair, or advisor to be incapable of completing the requirements during the grace period will receive the grade of "TH" (which indicates the course requirements have not been satisfactorily completed, but work is progressing).

- In addition to being enrolled in the appropriate program, students must re-register in the original course for dissertation, thesis, capstone project, or clinical experience coursework in the subsequent fall or spring semester immediately following the semester in which they enrolled to maintain continuous enrollment, and to remain in good standing**. Exceptions for re-registration in the subsequent fall or spring term must be approved by the Graduate Dean. Tuition equal to one graduate credit will be assessed for subsequent courses in dissertation, thesis, capstone project and clinical experience.
- When the dissertation, thesis, capstone project or clinical experience is successfully completed, the faculty, chair or advisor will submit a final grade for course completion and the student will earn one to nine graduate credits (depending on the major field) for the semester during which the dissertation, thesis, capstone project or clinical experience was successfully completed.

** The grace period ends on the date corresponding to when current semester "I" or incomplete grades are changed to "F" or failing in the subsequent semester; these are listed on the Academic Calendar which is available on the university web site.*

*** These courses will have an identical course number with an "e" indicating a matriculation extension.*

Probation and Dismissal

Students' academic records are reviewed at the end of each semester, including summer, to evaluate academic standing and satisfactory progress toward degree requirements.

Probation - Students whose academic records include one or more of the following will be placed on academic probation by their respective program directors:

- Cumulative grade point average below 3.0 (excluding foundation courses and undergraduate prerequisite courses);
- A grade below "B-" in two or more courses (including foundation courses and undergraduate prerequisite courses);
- Failure to complete WRTG-100ESL and/or READ-098ESL with a grade of "C" or better for students who are required to complete these courses; or
- An outstanding grade of "F" in one or more courses within the student's program.

Students on academic probation will be required to correct the above deficiencies. When these deficiencies have been corrected, students will be removed from academic probation.

Dismissal - Students who fail to correct deficiencies outlined in their academic probation notices, students who fail to achieve a 3.0 cumulative grade point average, and students who fail to repeat specified courses, including outstanding grades of "F" in courses in the student's program, within a specified time period will be dismissed from their respective graduate programs.

Registration

After acceptance into a graduate program, new students should call the appropriate program director for an initial advising appointment. Registrations will be completed online using Web Advisor. Tuition payments may also be made online using Web Advisor.

Repeating Courses

While students are required to repeat any grade of "F" in courses within their programs, they have the option to repeat any other course as well. When a course is repeated, the new grade as well as the original grade will be recorded on the transcript. The new grade will replace the original grade for the purpose of computing the quality grade point average even if the new grade is lower than the grade originally earned.

Any successfully completed course can be applied to graduation requirements only once, no matter how many times it may be taken and passed.

Any student who receives a failing grade twice at the University must secure the approval of an advisor before taking the course for a third time.

Retention of Student Work

Projects, examinations and assignments completed by students in their required courses may be selected to become part of the University's collection for purposes of exhibition, assessment and/or accreditation. Student work not selected for that purpose is generally stored for only 30 days into the following semester.

Schedule Changes

Any schedule changes that become necessary must be made before the second class meeting. Students should contact their program directors before making schedule changes. Schedule changes may be made using Web Advisor.

Time Restriction

The maximum time for completion of the degree program is seven years from the date of first enrollment (four years for the midwifery master's program and five years for the doctor of philosophy program). Students who have not earned the graduate degree during this period will have their academic records reviewed and may be asked to meet additional requirements in order to graduate.

Transcripts

Official copies of transcripts will be sent to other colleges and graduate schools upon request by the student to the Registrar's Office. As a service to the student, copies of the transcript are issued free of charge. In addition, unofficial copies of the transcript are available to students via Web Advisor.

Transfer Credits

A maximum of six credits may be transferred from another accredited graduate program to the student's proposed program of study. Exceptions to the six-credit maximum may be made by the graduate dean for students studying abroad in University-approved graduate programs.

Transfer of credit is subject to the approval of the respective program director. No transfer credit will be accepted if the grade earned at another institution was less than a "B."

Students wishing to transfer credits should be prepared to submit course outlines and texts used so that proper credit may be given. Students already enrolled in a degree program must have advanced permission from the respective program director to transfer courses.

Transfer to a New Degree Program or Concentration

Students who have been admitted to a master's degree program at Philadelphia University and who wish to transfer to another degree program, or to change their concentration, must file a Change of Graduate Program Request form with the graduate dean. The student's academic record will be reviewed by the director of the proposed new program.

Approval or denial of the request will be sent to the student. An additional application fee is not required and, ordinarily, admissions credentials need not be resubmitted. Credits already earned in the original program may apply to the program if, in the opinion of the program director, they are appropriate to the new degree.

Waiver Examinations (Credit by Exam)

Students may request to take a waiver examination instead of taking a course. The student must have experience in the field covered by the course or must have studied it elsewhere. Students may take waiver examinations for up to two courses in their degree programs. Credits earned by a waiver examination are not considered transfer credits. The cost of taking a waiver examination is equivalent to one credit hour of the current graduate tuition. Consult with your program director for specific details.

Withdrawal

It is absolutely essential that students follow the proper withdrawal procedures to be assured of an honorable dismissal from the University. Students should contact their program directors to withdraw from the University. See "Dropping Courses" and "Schedule Changes."

Application for Admission
Graduate Programs

Philadelphia University
School House Lane & Henry Avenue
Philadelphia, Pennsylvania 19144-5497

Application for Admission to Graduate Programs

Application
Submit the completed application along with a non-refundable fee of $35 made payable to Philadelphia University. Please type or neatly print all information. Students are admitted for the fall, spring, winter or summer semesters, depending on the program. International students are only admitted for the fall and spring semesters. There may be limits to the number of openings available in each program. To apply online, visit the University's web page at www.PhilaU.edu.

Official Transcript
Arrange for an official transcript from each undergraduate and graduate school you have attended to be sent directly to the Office of Graduate Admissions. Failure to disclose attendance at an institution at the time of application may cause denial of application for admission. International applicants must have all post-secondary transcripts evaluated by an accredited academic credential evaluation service. This official evaluation is to be submitted to the office of Graduate Admissions in lieu of official transcripts or mark sheets. A listing of accreditted evaluation services can be found at www.NACES.org. World Education Service (WES) is Philadelphia University's preferred evaluation service. For information on World Education Service, please visit www.WES.org.

Recommendations
Use the forms enclosed and have recommendations from two people who are not related to you and who are familiar with your professional and scholastic qualities forwarded to the Office of Graduate Admissions. The programs within the School of Business Administration do not require recommendations.

Standardized Test Results
Request your Graduate Management Admission Test (GMAT) scores (for M.B.A., M.S. Taxation, M.B.A./M.S. in Physician Assistant Studies) or Graduate Record Exam (GRE) scores (for other programs) to be sent to the Office of Graduate Admissions. The University code number is 2666. The Miller Analogies Test (MAT) may be used in lieu of the GRE (except for Textile Engineering). The University code for the MAT is 1654. The standardized test requirement will be waived for those students already possessing a previous master's degree or those who are C.P.A.s. Applicants must submit documentation of C.P.A. or previous master's degree. The M.S. in Construction Management, M.S. in Digital Design, and the M.S. in Disaster Medicine and Management do not require standardized tests. Some programs will award conditional admission, allowing new students to submit the standardized test by the end of the first semester.

Non-degree Candidates
A student applying for admission to the graduate programs may elect to pursue a non-degree program in which he/she may take graduate courses for professional certification or personal enrichment. To apply as a non-degree candidate, a student need only submit an application and transcript indicating a bachelor's degree was received. This option is available only for the M.S. in Fashion Apparel Studies, M.S. in Textile Design, and the M.S. in Disaster Medicine and Management.

International Applicants
International graduate students may apply for fall or spring semesters only. M.B.A. and M.S. Taxation students may apply for the summer semester. In addition to the credentials listed above, all international applicants must present evidence of proficiency in English by taking the Test of English as a Foreign Language (TOEFL). A minimum score of 550 (paper-based), 213 (computer-based), or 79 (Internet-based) is required. Please send test results directly to the Office of Graduate Admissions. In addition to the application materials, all international applicants must submit a notarized Statement of Financial Support form, a signed International Student Agreement, a $100 deposit and a copy of official bank statements before an I-20 will be issued. If you have any questions or concerns, please feel free to call the Office of Graduate Admissions at 215.951.2943.

Mailing Address

Director of Graduate Admissions, White Corners
PHILADELPHIA UNIVERSITY
School House Lane and Henry Avenue
Philadelphia, PA 19144-5497
215.951.2943
Fax: 215.951.2907
Email: gradadm@PhilaU.edu
800.951.7287

PHILADELPHIA UNIVERSITY

Application for Admission
Graduate Programs

❑ **New applicant** ❑ **Re-entry applicant**

Personal Information

Name: _____
LAST FIRST MIDDLE MAIDEN, IF APPLICABLE

Social Security Number: _____ ❑ Male ❑ Female

Address: _____
STREET

_____
CITY STATE ZIP CODE COUNTRY

Phone: (____) _____ (____) _____ _____
HOME CELL EMAIL

Date/Country of Birth _____ _____
MONTH DAY YEAR COUNTRY

I am a ❑ U.S. Citizen ❑ Permanent Resident ❑ International Student
If you are an International Student, are you applying for an F-1 Visa through our program? ❑ Yes ❑ No

If yes, country of citizenship: _____
What is your ethnicity? ❑ Hispanic or Latino ❑ Not Hispanic or Latino
What is your race? ❑ White ❑ Black or African American ❑ Asian ❑ American Indian or Alaska Native
❑ Native Hawaiian or other Pacific Islander

Registration Information

Program of Study:

SCHOOL OF ARCHITECTURE
❑ M.S. in Construction Management
❑ M.S. in Sustainable Design

SCHOOL OF BUSINESS ADMINISTRATION
❑ M.B.A.
❑ Day M.B.A. (one-year program)
❑ M.S. in Taxation

SCHOOL OF DESIGN AND MEDIA
❑ M.S. in Digital Design

SCHOOL OF ENGINEERING AND TEXTILES
❑ M.S. in Fashion Apparel Studies
❑ M.S. in Textile Design, circle one: Print Weave Knit
❑ M.S. in Textile Engineering
❑ Ph.D. in Textile Engineering

SCHOOL OF SCIENCE AND HEALTH
❑ M.S. in Disaster Medicine and Management
❑ M.S. in Physician Assistant Studies*
❑ M.S. in Occupational Therapy
❑ M.S. in Midwifery

** For the M.S. in Physician Assistant Studies Program or the M.B.A./M.S. in Physician Assisant, please apply through the Central Application Service for Physician Assistants (CASPA) at www.caspaonline.org. Request official copies of your transcripts to be sent directly to CASPA. Student copies of transcripts or copies sent to CASPA by the applicant are not acceptable. Letters of reference should be sent directly to CASPA from the person making the reference. Philadelphia University does not require a supplemental application for Physician Assistant Studies applicants.*

Combined Degrees:
❑ B.S./M.B.A. Program (For current undergraduate students at Philadelphia University only)
❑ M.B.A./M.S. in Taxation
❑ M.B.A./M.S. in Physician Assistant Studies

Certificate Programs:
❑ Post-Master's Business Certificate
❑ Pre-Master's Business Certificate
❑ Construction Management
❑ Disaster Medicine and Management
❑ Post-Master's Midwifery Certificate

Entry Semester:
❑ Spring (January 20___)
❑ Fall (August 20___)
❑ Winter (for Disaster Medicine and Management only)
❑ Summer I (May 20___)
❑ Summer II (July 20___)

I will be a ❑ part-time student ❑ full-time student

I am applying as a ❑ degree candidate ❑ non-degree candidate ❑ CPE Audit Option

Have you ever applied for graduate admission to the University? ❑ Yes ❑ No If yes, when?_____

Have you ever been convicted of a felony, crime, dishonesty, or any other incident involving the threat of violence? [Affirmative responses to these questions do not automatically disqualify you from admission]

❑ No ❑ Yes (If "Yes," please explain on a separate piece of paper.)

Educational Information

List in reverse chronological order **all** colleges and universities attended for undergraduate and graduate study. Failure to disclose attendance at an institution at the time of application may cause denial of application for admission.

College/University Name & Location	Dates Attended	Degrees or Credits Earned

Undergraduate Major_____ GPA _____

If you have earned a prior Master's Degree or are a C.P.A., the standardized test requirement is waived.

Prior Master's Degree? ❑ Yes ❑ No Are you a C.P.A. ❑ Yes ❑ No

When did you/will you take the ❑ GMAT ❑ GRE ❑ MAT (Date of Test) _____ Score _____

When did you/will you take the TOEFL (International Students Only) _____ Score _____

Employment Information

List your employment history beginning with your present position. (You may attach a C.V.) **Midwifery Applicants:** *On a separate piece of paper, please also list all of your professional licenses and certification credentials. Include type, license number, and the state/organization of issuance.*

Employer	Address	Position	Dates

Have you ever received disciplinary sanctions from a state licensing board including probation, suspension, or revocation of license? [Affirmative responses to these questions do not automatically disqualify you from admission]

❑ No ❑ Yes (If "Yes," please explain on a separate piece of paper.)

Which career field best describes your current position?

❑ Architecture
❑ Business
❑ Communications
❑ Design
❑ Computer/Info Science
❑ Education
❑ Engineering
❑ Gov't & Non-Profit Admin.
❑ Manufacturing Operations
❑ Health-Related Functions
❑ Midwifery
❑ Occupational Therapy
❑ Textiles
❑ Science/Technology
❑ Other _____

Do you have tuition remission at work? ❑ Full ❑ Part ❑ None

Additional Information

How did you first learn about the graduate programs at the University?

❑ Mail
❑ Live in Area
❑ Alumni
❑ Employer
❑ Newspaper _____
❑ PhilaU Web Site
❑ Friend/Relative
❑ Placement Office
❑ Radio _____
❑ Fair _____
❑ Philadelphia University Admissions Office
❑ School Guides _____
❑ Other _____
❑ Web Search _____

Please Note: Some programs may require additional information. Please refer to the program description to find specific admission requirements for your program.

Applicant's signature _____ **Date** _____

My signature above indicates that the information contained in this application is complete and accurate.

PHILADELPHIA UNIVERSITY

Graduate Studies Recommendation Form

To be completed by Applicant:

Semester: ❑ Spring 20___ ❑ Summer 20___ ❑ Fall 20___ ❑ Winter 20___ (Disaster Medicine & Management only)

Program of Study:

SCHOOL OF ARCHITECTURE
❑ M.S. in Construction Management
❑ M.S. in Sustainable Design

SCHOOL OF BUSINESS ADMINISTRATION
❑ M.B.A.
❑ Day M.B.A. (one-year program)
❑ M.S. in Taxation

SCHOOL OF DESIGN AND MEDIA
❑ M.S. in Digital Design

SCHOOL OF ENGINEERING AND TEXTILES
❑ M.S. in Fashion Apparel Studies
❑ M.S. in Textile Design, circle one: Print Weave Knit
❑ M.S. in Textile Engineering
❑ Ph.D. in Textile Engineering

SCHOOL OF SCIENCE AND HEALTH
❑ M.S. in Disaster Medicine and Management
❑ M.S. in Physician Assistant Studies*
❑ M.S. in Occupational Therapy
❑ M.S. in Midwifery–Midwifery requires the submission of a specific recommendation form in lieu of this form. The Midwifery Recommendation Form is available for download at www.philau.edu/midwifery

Name: _____ Social Security Number: _____
LAST FIRST MIDDLE

Address: _____
STREET

_____
CITY STATE ZIP CODE COUNTRY

Phone: (____) _____ (____) _____ _____
HOME CELL EMAIL

The Family Educational Rights and Privacy Act of 1974 and its amendments guarantee students access to their educational records. Students may waive their right of access to recommendations. The choice of the applicant regarding this recommendation is indicated below.

❑ I do waive ❑ I do not waive my right to inspect the following recommendation.

Signature _____ Date _____

To the recommender:

The person whose name appears above has applied to the graduate studies program at Philadelphia University. Your appraisal of the applicant's academic ability, character, and likelihood of success in the program will help us in making an admission decision. Please complete and return this form at your earliest convenience. **(If you wish to add additional comments, please do so on the reverse side of the page.)**

1. How long have you known the applicant and in what relationship? From _____ To _____

_____

2. Please give us your appraisal of the applicant in terms of the qualities listed below.

Qualifications	Excellent	Above Average	Average	Below Average	No basis for judgment
Written skills	❑	❑	❑	❑	❑
Intellectual ability	❑	❑	❑	❑	❑
Leadership ability	❑	❑	❑	❑	❑
Analytical ability	❑	❑	❑	❑	❑
Ability to work with others	❑	❑	❑	❑	❑
Originality and creativity	❑	❑	❑	❑	❑
Initiative and perseverance	❑	❑	❑	❑	❑

3. I ❑ Recommend without reservation ❑ recommend ❑ do not recommend this applicant to be admitted to the graduate studies program.

4. Recommender's signature _____ Date _____

Recommender's name _____ Employer _____ Position _____

Home address _____ Phone (____) _____

City _____ State _____ Zip _____ Email _____

Please return to: Director of Graduate Admissions, Philadelphia University, School House Lane and Henry Avenue, Philadelphia, PA 19144-5497. Telephone: 215.951.2943

Philadelphia University is an Affirmative Action, Equal Opportunity Institution.

PHILADELPHIA UNIVERSITY

Graduate Studies Recommendation Form

To be completed by Applicant:

Semester: ❑ Spring 20___ ❑ Summer 20___ ❑ Fall 20___ ❑ Winter 20___ (Disaster Medicine & Management only)

Program of Study:

SCHOOL OF ARCHITECTURE
❑ M.S. in Construction Management
❑ M.S. in Sustainable Design

SCHOOL OF BUSINESS ADMINISTRATION
❑ M.B.A.
❑ Day M.B.A. (one-year program)
❑ M.S. in Taxation

SCHOOL OF DESIGN AND MEDIA
❑ M.S. in Digital Design

SCHOOL OF ENGINEERING AND TEXTILES
❑ M.S. in Fashion Apparel Studies
❑ M.S. in Textile Design, circle one: Print Weave Knit
❑ M.S. in Textile Engineering
❑ Ph.D. in Textile Engineering

SCHOOL OF SCIENCE AND HEALTH
❑ M.S. in Disaster Medicine and Management
❑ M.S. in Physician Assistant Studies*
❑ M.S. in Occupational Therapy
❑ M.S. in Midwifery–Midwifery requires the submission of a specific recommendation form in lieu of this form. The Midwifery Recommendation Form is available for download at www.philau.edu/midwifery

Name: LAST _____ FIRST _____ MIDDLE _____ Social Security Number: _____

Address: STREET _____

CITY _____ STATE _____ ZIP CODE _____ COUNTRY _____

Phone: (HOME) _____ (CELL) _____ EMAIL _____

The Family Educational Rights and Privacy Act of 1974 and its amendments guarantee students access to their educational records. Students may waive their right of access to recommendations. The choice of the applicant regarding this recommendation is indicated below.

❑ I do waive ❑ I do not waive my right to inspect the following recommendation.

Signature _____ Date _____

To the recommender:

The person whose name appears above has applied to the graduate studies program at Philadelphia University. Your appraisal of the applicant's academic ability, character, and likelihood of success in the program will help us in making an admission decision. Please complete and return this form at your earliest convenience. **(If you wish to add additional comments, please do so on the reverse side of the page.)**

1. How long have you known the applicant and in what relationship? From _____ To _____

_____

2. Please give us your appraisal of the applicant in terms of the qualities listed below.

Qualifications	Excellent	Above Average	Average	Below Average	No basis for judgment
Written skills	❑	❑	❑	❑	❑
Intellectual ability	❑	❑	❑	❑	❑
Leadership ability	❑	❑	❑	❑	❑
Analytical ability	❑	❑	❑	❑	❑
Ability to work with others	❑	❑	❑	❑	❑
Originality and creativity	❑	❑	❑	❑	❑
Initiative and perseverance	❑	❑	❑	❑	❑

3. I ❑ Recommend without reservation ❑ recommend ❑ do not recommend this applicant to be admitted to the graduate studies program.

4. Recommender's signature _____ Date _____

Recommender's name _____ Employer _____ Position _____

Home address _____ Phone (___) _____

City _____ State _____ Zip _____ Email _____

Please return to: Director of Graduate Admissions, Philadelphia University, School House Lane and Henry Avenue, Philadelphia, PA 19144-5497. Telephone: 215.951.2943

Philadelphia University is an Affirmative Action, Equal Opportunity Institution.

Graduate Assistantship Information

School House Lane and Henry Avenue
Philadelphia, PA 19144-5497

Office of Graduate Admissions
215.951.2943

Philadelphia University offers a limited number of assistantships to selected, qualified, incoming graduate students each year. Assistantships are granted on a very competitive basis, and students in most graduate programs are eligible to apply. (Note: Students in the M.S. in Physician Assistant Studies, M.S. in Midwifery, and the Day M.B.A. program are not eligible.) In exchange for working 20 hours per week fulfilling the assistanship responsibilities, recipients receive tuition remission for nine graduate credit hours in each of the fall and spring semesters and a stipend. Admission to a graduate program at the University is a prerequisite to consideration for appointment to an assistantship.

Assistantship applications received by March 1 will be given priority consideration for the following fall semester (October 1 for students beginning in the spring semester).

CRITERIA: To be considered for a graduate assistantship, the following minimum criteria must be met:

1. Graduate assistantships available only to new incoming students.
2. Full acceptance to a graduate program.
3. Enrollment as a full-time student (nine graduate credit hours each fall and spring term totaling 18 credit hours) while holding the assistantship.
4. Minimum undergraduate grade point average (G.P.A.) of 3.25.
5. Minimum standardized test scores as follows: GMAT 500, MAT 400, or GRE 1070 & 4.0. Should your academic program not require submission of a standardized test for admission, you will not be required to submit standardized test scores as part of your graduate assistanship application.
6. Two professional letters of reference. (Note: These are in addition to the two admission recommendations.)
7. Require no more than five foundation courses.
8. Additional criteria, such as computer skills, research experience, or other skills may be established for specific assistantships by the individual departments.

TO APPLY: The following application materials must be submitted.

- Graduate Assistantship Application
- Two letters of recommendation
- Resume and/or personal statement
- Copy of standardized test scores (if required by academic program)

Note: All application materials must be submitted at one time. Materials (other than standardized test scores) that are submitted separately from the actual graduate assistantship application form will not be considered. The Office of Graduate Admissions will not copy submitted application materials for the assistantship file.

COMPENSATION: Compensation is for one academic year (fall and spring semesters).

1. Tuition remission for nine graduate credits each fall and spring semester.
2. A modest stipend.

Note: Assistantships will be renewed (for a maximum total of two years) on an annual basis based on school/department needs and satisfactory performance. Students must maintain a minimum GPA of 3.25 while holding an assistantship position.

Application for Graduate Assistantship

PHILADELPHIA UNIVERSITY

School House Lane and Henry Avenue
Philadelphia, PA 19144-5497

Office of Graduate Admissions
215.951.2943

To be considered for a graduate assistantship, an individual must submit an Application for Admission, with official transcripts and test scores, prior to or along with an application for Graduate Assistantship. Please type or print all information.

Name: _____
LAST FIRST MIDDLE MAIDEN, IF APPLICABLE

Social Security Number: _____ ❑ Male ❑ Female

Address: _____
STREET

_____
CITY STATE ZIP CODE COUNTRY

Phone: (_____) _____ (_____) _____ _____
HOME CELL EMAIL

Graduate Program of Interest: (Note: Students in the Day M.B.A., Physician Assistant Studies and Midwifery programs are not eligible for graduate assistantships)

SCHOOL OF ARCHITECTURE
❑ M.S. in Construction Management
❑ M.S. in Sustainable Design

SCHOOL OF BUSINESS ADMINISTRATION
❑ M.B.A.
❑ M.S. in Taxation

SCHOOL OF DESIGN AND MEDIA
❑ M.S. in Digital Design

SCHOOL OF ENGINEERING AND TEXTILES
❑ M.S. in Fashion Apparel Studies
❑ M.S. in Textile Design, circle one: Print Weave Knit
❑ M.S. in Textile Engineering

SCHOOL OF SCIENCE AND HEALTH
❑ M.S. in Disaster Medicine and Management
❑ M.S. in Occupational Therapy

Entry Semester: ❑ Fall (August 20____) ❑ Spring (January 20____)

Educational Information:

College	Year graduated	Degree earned	Major	GPA

Test Results (please indicate the highest score received on the following tests)

	Score	Test Date
GMAT:		
GRE:		
MAT:		

Please attach a letter that indicates what skills/experience you have which would be useful in a graduate assistantship, a current resume, a copy of standardized test scores, and two recommendations along with this application. Return completed Application for Graduate Assistantship to the Office of Graduate Admissions.

Instructions for International Students

International graduate students who have been admitted to Philadelphia University are eligible to receive a SEVIS I-20 for application for an F-1 visa. Please review the following pages, as the information is intended to help you understand the steps you need to take from now until you arrive on campus.

Please note, the United States Department of Homeland Security (DHS) requires F-1 and J-1 visa applications to pay a one-time fee of $100 to supplement the administration and maintenance costs of the Student and Exchange Information System (SEVIS). The fee must be paid at least three business days prior to applying for your visa, or applying for admission at a U.S. port-of-entry for those exempt from the visa requirement. The fee must be paid prior to submission of a change of status petition or reinstatement application. The fee can be paid to the DHS by mail or online and must be accompanied by a Form I901. It can be paid by you or by a third party, inside or outside the U.S. If you are denied a visa, the SEVIS fee will not be refunded. However, if you reapply for a new F-1 visa within 12 months of the denial, you will not have to pay the fee again.

To pay by mail

1. Obtain a Form I-901 "Fee Remittance for Certain F, J, and M Non-immigrants."
   - Download the form from www.FMJfee.com
   - Request the form by phone at 1.800.870.3676 (inside the US)
2. Complete the Form I-901. Be sure to write your name exactly as it appears on your I-20 form.
3. Prepare a check, international money order or foreign draft (drawn on U.S. banks only) in the amount of $100 USD, made payable to "The Department of Homeland Security."
4. Mail the completed Form I-901 and payment to the address listed on Form I-901.
5. A Form I-797 receipt notice should be mailed within three days of processing the fee. Be sure to make copies of your receipt, and keep it with your other important immigration documents.

To pay online

1. Find the Form I-901 at www.FMJfee.com.
2. Complete the form online and supply the necessary Visa, MasterCard, or American Express information. *Be sure to write your name exactly as it appears on your I-20 form.
3. Print a copy of the online receipt.
4. Be sure to make copies of your receipt, and keep it with your other important immigration documents.

In order for the University to issue your SEVIS I-20, you must submit the following:

- A completed and signed International Student Agreement Form (see page 347).
- A completed notarized Statement of Support Form (see page 351). Students supporting themselves do not submit this form.
- Official bank statements, no more than three months old
- A non-refundable check or money order made payable to "Philadelphia University" in the amount of $100 U.S. dollars. This money will be credited to your account, deducted from your tuition fees, and is in addition to the $100 SEVIS fee discussed above.
- A Transfer Recommendation Form, for students currently studying in the United States. Photocopies of the student's last I-20 and most recent student visa are also required.

Registration and Orientation

Students must be on campus for International Orientation and registration at least one week prior to the start of classes. You will receive a mailing about orientation from the international student advisor approximately six weeks before classes begin.

Tuition

Graduate tuition for the 2009-2010 academic year is $806 per credit hour. Online tuition for MF courses is $806 per credit hour and for MB courses is $900 per credit hour. Full-time students enrolled in the Physician Assistant Studies program will pay an annual tuition of $31,683. Graduate students who take undergraduate day or evening classes will pay the respective day or evening rate for these classes. An international student fee of $55 per semester will be charged to all graduate students who are not U.S. citizens or permanent residents.

Estimated Expenses

- Tuition: $14,508
- Room and Board: $11,985
- Books, Insurance, etc.: $3,500

English Language Requirement

Courses at the University are taught in English; therefore, all students are required to have proficiency in English. All international graduate students are required to take English reading and writing placement tests before registering for any courses. The tests are scheduled a few days before classes during orientation. If a student misses the scheduled testing session, it is his/her responsibility to report to the Learning and Advising Center for testing before registering for courses. Based on the results of the placement tests, a student may be required to take undergraduate English as a Second Language courses in reading and/or writing. In a case where a student is in need of extensive English preparation, it is University policy to have the student complete an intensive language program elsewhere before he or she enrolls in our graduate program. Any fees associated with these courses are the responsibility of the student.

Full-time Student Status

Requirements to maintain student status as mandated by the U.S. Bureau of Citizenship and Immigration Services:

- Have a valid passport and an F-1 student visa.
- Be a full-time student (for graduate students this means registering for at least nine credits per semester).
- First-year students may not work off campus, but may apply for permission to work after the first year if they can prove financial difficulty. (Permission is rarely granted, so students should not expect to work while in the U.S.)

International Student Agreement Form

PHILADELPHIA UNIVERSITY

School House Lane and Henry Avenue
Philadelphia, PA 19144-5497

Office of Graduate Admissions
215.951.2943

Required information for an F-1 Student Visa:

1. In what country were you born?_____
2. Of what country are you a citizen? _____
3. Of what country are you a permanent resident? _____
4. Your date of birth _____
5. Permanent home address _____

If I am admitted as a student to Philadelphia University:

1. I understand I must attend Philadelphia University for a minimum of one full semester (nine graduate credits) if I travel to the United States on an F-1 visa granted through a SEVIS I-20 issued by Philadelphia University.
2. I will enroll in the required courses as determined by the graduate studies advisor for international students.
3. I will enroll in and attend at least nine credits of classes each semester.
4. I will not add or drop courses without the approval of the graduate studies advisor for international students.
5. I will accept employment only when approved by Philadelphia University and when authorized in writing by the United States Bureau of Citizenship and Immigration Services.
6. I agree to take an English language placement test before registering for any classes.
7. If necessary, I will enroll in any classes suggested by the University to improve my English ability.

I understand that if I fail to meet the above conditions or if I fail to maintain at least a "B" scholastic average, Philadelphia University will immediately notify the United States Bureau of Citizenship and Immigration Services that my approval has been cancelled and that I will not be permitted to continue my studies at Philadelphia University. Having read and understood all of the above, I agree without qualification to these conditions.

Student's Name (as it appears on passport): _____

Student's Signature: _____ Date: _____

Please return this form to:

Office of Graduate Admissions
Philadelphia University
School House Lane and Henry Avenue
Philadelphia, PA 19144-5497 USA

International Student Transfer Recommendation Form

(for students currently studying in U.S.)

PHILADELPHIA UNIVERSITY

School House Lane and Henry Avenue
Philadelphia, PA 19144-5497

Office of Graduate Admissions
215.951.2943

Please submit this form to the international student advisor of the institution you currently attend or most recently attended.

Name: _____

Admission (I-94 card number)_____ Student ID # _____

Address_____

_____

I grant permission for the information requested below to be released to Philadelphia University.

Student's Signature: _____ Date: _____

To be completed by the designated school official

The above named student has applied for admission to Philadelphia University. We request confirmation of his/her status before completing a transfer.

Current immigration status: ❑ F-1 ❑ J-1 ❑ Other ❑ I-94 card expiration date _____

Degree level being pursued at your institution _____

Date of last attendance at your school _____

Has the student been maintaining full-time status at your institution? ❑ Yes ❑ No

To the best of your knowledge, is the student currently in status? ❑ Yes ❑ No

Date student will be released from SEVIS _____

Please indicate the dates of any practical training in which the student has participated:

Curricular _____ Optional _____ J-1 Academic _____

Comments _____

_____

_____

Name and title of DSO completing this form: _____

Signature: _____ Date: _____

Name of institution: _____

Address: _____

Telephone number: (___)_____Email address: _____

Please return completed form to:

Office of Graduate Admissions
Philadelphia University
School House Lane and Henry Avenue
Philadelphia, PA 19144-5497 USA

Statement of Financial Support

PHILADELPHIA UNIVERSITY

School House Lane and Henry Avenue
Philadelphia, PA 19144-5497

Office of Graduate Admissions
215.951.2943

Student's Name _____

Sponsor's Name _____

Sponsor's Address _____

_____

Sponsor's Occupation _____ Annual Salary $US _____

Relationship to Applicant _____

I certify that I will provide financial support for _____

who resides at _____

_____

to come to the United States and study at Philadelphia University. I am willing and able to maintain and support the prospective student. I am ready and willing to deposit a bond, if necessary, to guarantee that such prospective student will not become a public charge during his/her stay in the United States. I also assure the University that the prospective student whom I am willing to support will not find it necessary to appeal to Philadelphia University for scholarship or other material aid.

***It is only necessary to show one year of financial support.**

	*1st Year	2nd Year
Total available from sponsor in US $.		
Total $ available from parent (if not sponsor) in $ US.		
Available from scholarships/sponsoring organizations.		
TOTAL available from all sources.		

Signature of the sponsor _____

Sworn to and subscribed this _____ day of _____ , _____

Signature of Notary _____

NOTE: Attach official Bank Statements and Documentationz

_____ _____

PHILADELPHIA UNIVERSITY

The Midwifery Institute of Philadelphia University
Clinical Site

The Midwifery Institute requires that students obtain their own clinical sites. After you have confirmed your clinical site, please notify us so that we may send an interview form and accompanying information to the potential preceptor. **Important: if you intend to use mulitple sites, please list them below.**

Applicant Name_____

Primary Preceptor Name:_____

Site Name:_____

Address:_____

City, State, Zip: _____

Telephone:_____ Fax (if known):_____

After the interview, insure that the site sends the completed interview forms directly to the Admissions Coordinator at the Institute.

The Midwifery Institute maintains a Quality Assurance Program that includes the verification of credentials of potential preceptors. In order for a student to begin clinical in a site, a number of requirements must be met by the preceptors, and an affiliation agreement between the clinical agency and the Institute signed. Once the student is accepted into the program, the process is initiated. In the unlikely event that the Institute is unable to sign an affiliation agreement with a clinical agency, the student may be asked to undertake clinical in an alternative site.

Primary Preceptor Name:_____

Site Name:_____

Address:_____

City, State, Zip: _____

Telephone:_____ Fax (if known):_____

Primary Preceptor Name:_____

Site Name:_____

Address:_____

City, State, Zip: _____

Telephone:_____ Fax (if known):_____

PHILADELPHIA UNIVERSITY

Master's in Midwifery Recommendation Form

The Midwifery Institute of Philadelphia University
222 Hayward Hall
School House Lane & Henry Avenue
Philadelphia, PA 19144
Telephone: 215.951.2525 FAX 215.951.2526

To be completed by Applicant:

Name:

Address: _____

_____

The Family Educational Rights and Privacy Act of 1974 and its amendments guarantee students access to their educational records. Applicants may waive their right of access to recommendations. Failure to sign this form constitutes a waiver of the applicant's right to review this recommendation.

❑ I hereby voluntarily waive my right of access to any information contained in this recommendation form and agree that the information contained in the form should remain confidential.

❑ I do not waive my right of access to any information contained in this recommendation form.

Applicant: Signature_____ Date _____

Evaluator

Please answer the questions listed below according to your knowledge of the applicant. Thank you for your assistance.

1. How long have you known the applicant? _____

2. What is your relationship with the applicant? _____

Place a rating number for each question, followed by a brief comment on the applicant's strengths and weakness in the following areas.

4 = Outstanding 3 = Above Average 2 = Average 1 = Below Average 0=No basis for judgment

3. Academic or intellectual ability: ( ) _____

_____

4. Verbal communication skills: ( ) _____

_____

5. Written communication skills: ( ) _____

_____

6. Ability to accept and utilize constructive criticism: ( ) _____

_____

7. Motivation and/perseverence: ( ) _____

_____

8. Interactions with clients and/or patients: ( ) _____

_____

9. Empathy: ( ) _____

_____

10. Emotional stability/maturity: ( ) _____

_____

11. Problem solving skills/critical thinking: ( ) _____

_____

12. Ability to get along and work with others: ( ) _____

_____

13. Integrity: ( ) _____

_____

14. Accountability:( ) _____

_____

15. Leadership: ( ) _____

_____

16. Additional comments: _____

_____

17. May we contact you for additional information? ❑ Yes ❑ No

18. Overall recommendation (please check one):

❑ This applicant has my highest recommendation
❑ I recommend this applicant highly, without reservation
❑ I recommend this applicant
❑ I recommend this applicant, with some reservations
❑ I do not recommend this applicant

Name _____ Title _____ Agency _____

Address _____ Phone (____) _____

City _____ State _____ Zip _____ Email _____

Signature of Evaluator: _____ Date _____

Please Note: Place this in a sealed envelope, with your signature across the flap, and return to Graduate Admissions, Philadelphia University, School House Lane and Henry Avenue, Philadelphia, PA 19144-5497. Telephone: 215.951.2943

Philadelphia University is an Affirmative Action, Equal Opportunity Institution.

PHILADELPHIA UNIVERSITY

Master's in Midwifery Recommendation Form

The Midwifery Institute of Philadelphia University
222 Hayward Hall
School House Lane & Henry Avenue
Philadelphia, PA 19144
Telephone: 215.951.2525 FAX 215.951.2526

To be completed by Applicant:

Name:

Address: _____

_____

The Family Educational Rights and Privacy Act of 1974 and its amendments guarantee students access to their educational records. Applicants may waive their right of access to recommendations. Failure to sign this form constitutes a waiver of the applicant's right to review this recommendation.

- ❑ I hereby voluntarily waive my right of access to any information contained in this recommendation form and agree that the information contained in the form should remain confidential.
- ❑ I do not waive my right of access to any information contained in this recommendation form.

Applicant: Signature_____ Date _____

Evaluator

Please answer the questions listed below according to your knowledge of the applicant. Thank you for your assistance.

1. How long have you known the applicant? _____
2. What is your relationship with the applicant? _____

Place a rating number for each question, followed by a brief comment on the applicant's strengths and weakness in the following areas.

4 = Outstanding 3 = Above Average 2 = Average 1 = Below Average 0=No basis for judgment

3. Academic or intellectual ability: ( ) _____

_____

4. Verbal communication skills: ( ) _____

_____

5. Written communication skills: ( ) _____

_____

6. Ability to accept and utilize constructive criticism: ( ) _____

_____

7. Motivation and/perseverence: ( ) _____

_____

8. Interactions with clients and/or patients: ( ) _____

_____

9. Empathy: ( ) _____

_____

10. Emotional stability/maturity: ( ) _____

_____

11. Problem solving skills/critical thinking: ( ) _____

_____

12. Ability to get along and work with others: ( ) _____

_____

13. Integrity: ( ) _____

_____

14. Accountability:( ) _____

_____

15. Leadership: ( ) _____

_____

16. Additional comments: _____

_____

17. May we contact you for additional information? ❑ Yes ❑ No

18. Overall recommendation (please check one):

- ❑ This applicant has my highest recommendation
- ❑ I recommend this applicant highly, without reservation
- ❑ I recommend this applicant
- ❑ I recommend this applicant, with some reservations
- ❑ I do not recommend this applicant

Name _____ Title _____ Agency _____

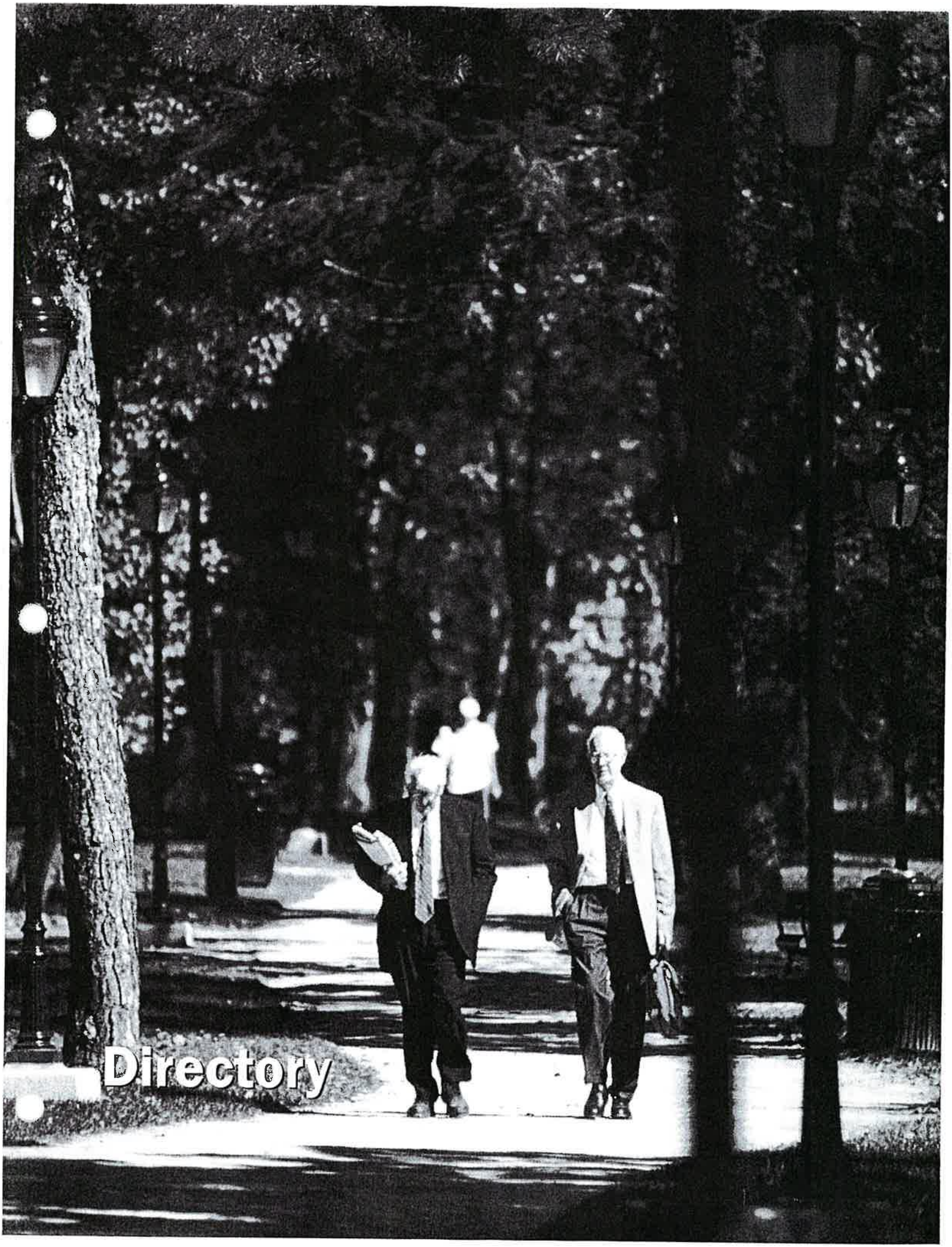
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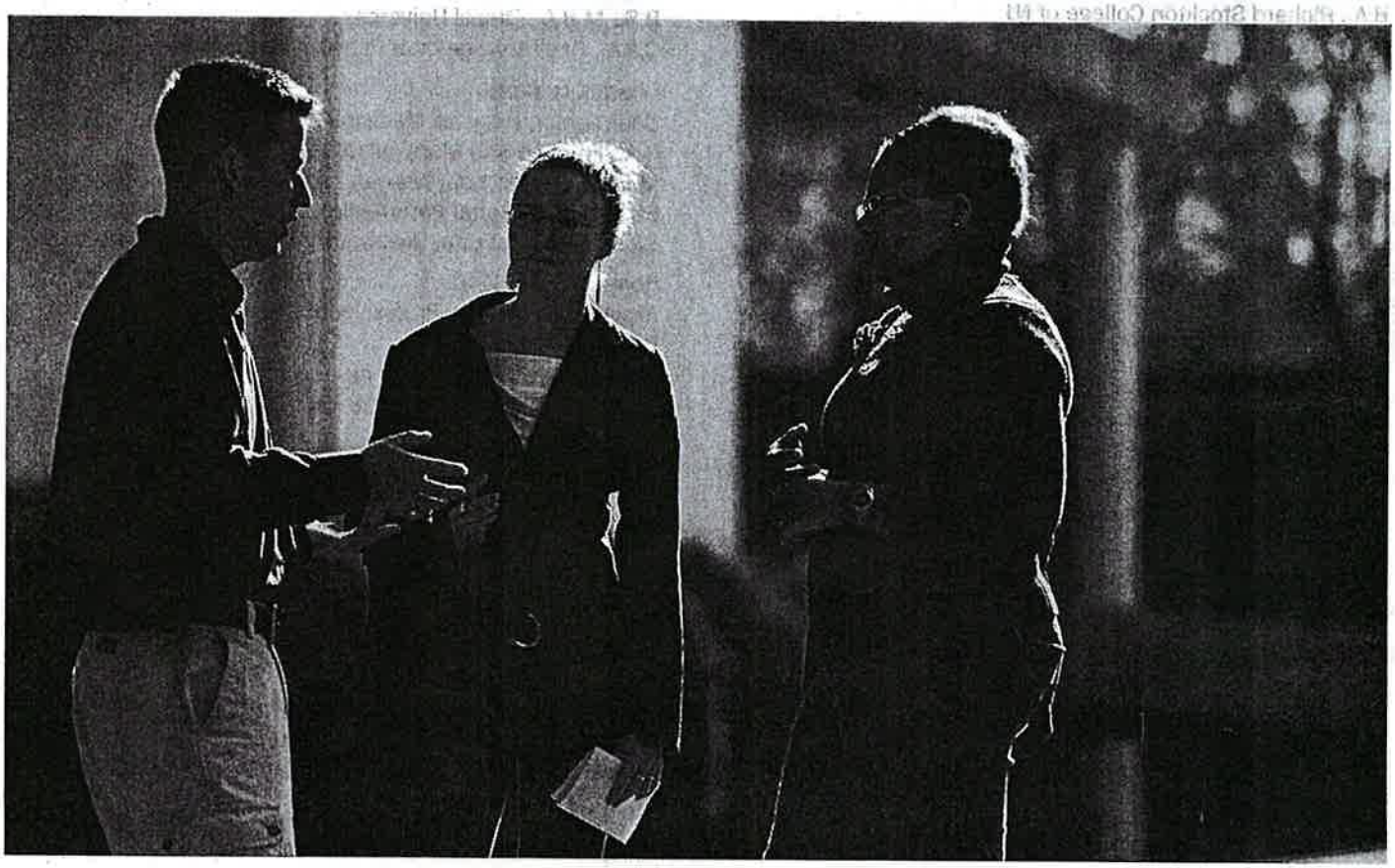
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Philadelphia University 2009-2010 Academic Calendar

Traditional Undergraduate & Graduate

Wk#	Fall 2009 (FL)	Date
1	New day students report	Thurs., Aug. 20
1	Opening Academic Convocation	Thurs., Aug. 20
1	Residence Halls open for returning students	Sat., Aug. 22
1	Classes begin, 8:00 am	Mon., Aug. 24
2	Last day to add	Tues., Sept. 1
3	Labor Day: No classes	Mon., Sept. 7
3	Last day to drop without "W" grade	Fri., Sept. 11
Day of service: No classes		Tues., Sept 15
4	Summer I to F changes	Fri., Sept. 18
8	Mid-term evaluation week	Mon., Oct. 12–Fri., Oct. 16
9	Mid-term grades due	Mon., Oct. 19
9	Fall Break: no classes	Fri., Oct. 23
10	Last day to withdraw from a course	Fri., Oct. 30
14	Thanksgiving Recess	Wed., Nov. 25
14	Thanksgiving Recess- Residence Halls Close	Wed., Nov. 25, 10 a.m.
15	Thanksgiving Recess- Residence Halls Open	Sun., Nov. 29, Noon
15	Classes resume	Mon., Nov. 30
16	Classes end: from 5 pm	Mon., Dec. 7
16	Reading/review days: No classes	Tues., Dec. 8–Thurs., Dec. 10
16	Final Exams begin	Fri., Dec. 11
17	Final Exams end	Thurs., Dec. 17
17	Residence Halls close	Fri., Dec. 18, 10 a.m.
17	Grades due/available to students	Fri., Dec. 18
Date of December Graduation		Fri., Dec. 18
Graduation gets posted		Thurs., Jan. 14
Wk#	**Spring 2010 (SP)**	**Date**
1	Residence Halls open	Sun., Jan. 10
1	START Program	Mon., Jan. 11 & Tues., Jan. 12
1	Classes begin, 8:00 am	Wed., Jan. 13
2	MLK Holiday: No classes	Mon., Jan. 18
2	Last day to add	Tues., Jan. 19
3	Last day to drop without "W" grade	Fri., Jan. 29
4	Fall I to F changes	Fri., Feb. 5
8	Mid-term evaluation week	Mon., Mar. 1–Fri., Mar. 5
9	Mid-term grades due	Mon., Mar. 8
9	Spring Recess: classes end 5pm	Fri., Mar. 12
9	Spring Recess: Residence Halls close	Fri., Mar. 12, 7 p.m.
11	Spring Recess: Residence Halls open	Sun., Mar. 21, Noon
11	Classes resume	Mon., Mar. 22
11	Last day to withdraw from a course	Fri., Mar. 26
12	Pre-registration for Fall 2010	Mon., Mar. 22–Fri., Apr. 16
16	Classes end	Mon., May 3
16	Reading/review days: no classes	Tues., May 4–Thu., May 6
16	Final Exams begin	Fri., May 7
17	Final Exams end	Thurs., May 13
17	Residence Halls close	Fri., May 14, 10 a.m.
17	Grades due/available to students	Fri., May 14
Commencement		Sun., May 16
Date of May Graduation		Sun., May 16
Graduation gets posted		Mon., May 17
Wk#	**Summer 2010 (SM)**	**Date**
1	Classes begin: first session (12wk)	Mon., May 17
1	Last day to add	Fri., May 21
Memorial Day: no classes		Mon., May 31
3	Last day to drop without "W" grade	Fri., June 4
4	Spring I to F changes	Fri., June 11
9	Last day to withdraw from a course	Fri., July 16
12	Classes end	Fri., Aug. 6
Grades due/available to students		Mon., Aug. 9
Date of August Graduation		Mon., Aug. 16
Wk#	**Summer 2010 (SM1)**	**Date**
1	Classes begin	Mon., May 17
1	Last day to add	Mon., May 17
2	Last day to drop without "W" grade	Fri., May 28
Memorial Day: no classes		Mon., May 31
4	Last day to withdraw from a course	Fri., June 11
6	Classes end	Fri., June 25
7	Grades due/available to students	Mon., June 28
Date of Aug Graduation		Mon., Aug. 16
Summer 2010 (Sm2)		**Date**
1	Classes begin	Mon., June 28
1	Last day to add	Mon., June 28
2	Last day to drop without "W" grade	Fri., July 9
4	Last day to withdraw from a course	Fri., July 23
6	Classes end	Fri., Aug 6
7	Grades due/available to students	Mon., Aug 9
Date of August Graduation		Mon., Aug. 16

Philadelphia University 2009-2010 Academic Calendar

Continuing & Professional Studies (Accelerated)

Wk #	Fall (1) 2009	Date
1	Classes begin	Thurs., Sept. 10
1	Last day to add	Thurs., Sept. 10
2	Last day to drop without "W" grade	Thurs., Sept. 24 by 5p.m.
5	Last day to withdraw from a course	Thurs., Oct. 15 by 5p.m.
9	Classes end	Wed., Nov. 11
Grades due/available to students		Thurs., Nov. 12
Wk #	**Fall (2) 2009**	**Date**
1	Classes begin	Thurs., Nov. 12
1	Last day to add	Thurs., Nov. 12
2	Last day to drop without "W" grade	Fri., Nov. 27 by 5 p.m.
5	Last day to withdraw from a course	Mon., Dec. 21 by 9 a.m.
11	Classes end	Thurs., Jan. 28
Grades due/available to students		Fri., Jan. 29
Date of Graduation		Sun., May 16
Wk#	**Spring (1) 2010**	**Date**
1	Classes begin	Sat., Jan. 30
1	Last day to add	Sat., Jan. 30
2	Last day to drop without "W" grade	Fri., Feb. 12 by 5 p.m.
5	Last day to withdraw from a course	Fri., Mar. 5 by 5 p.m.
9	Classes end	Thurs., Apr. 1
Grades due/available to students		Mon., Apr. 5
Date of Graduation		Sun., May 16
Wk#	**Spring (2) 2010**	**Date**
1	Classes begin	Mon., Apr. 5
1	Last day to add	Mon., Apr. 5
2	Last day to drop without "W" grade	Mon., Apr. 19 by 9 a.m.
5	Last day to withdraw from a course	Mon., May 10 by 9 a.m.
9	Classes end	Sat., Jun. 5
Grades due/available to students		Mon., Jun. 7
Date of Aug Graduation		Mon., Aug. 16
Wk #	**(SMA) Summer 2010**	**Date**
1	Classes begin	Mon., Jun. 7
1	Last day to add	Mon., Jun. 7
2	Last day to drop without "W" grade	Mon., Jun. 21 by 9 a.m.
5	Last day to withdraw from a course	Mon., Jul. 12 by 9 a.m.
9	Classes end	Mon., Aug. 9
Grades due/available to students		Tues., Aug. 10
Date of August Graduation		Mon., Aug. 16

Holidays For Accelerated

Thanksgiving Recess	Wed., Nov. 25
December Recess	Dec., 24 - Jan 3
MLK Holiday: No classes	Mon., Jan. 18
Easter Saturday	Sat., Apr. 3
Memorial Day: no classes	Mon., May 31
July 4th Holiday for Accelerated	Mon., Jul. 5

Philadelphia University 2009-2010 Academic Calendar

Disaster Medicine & Management

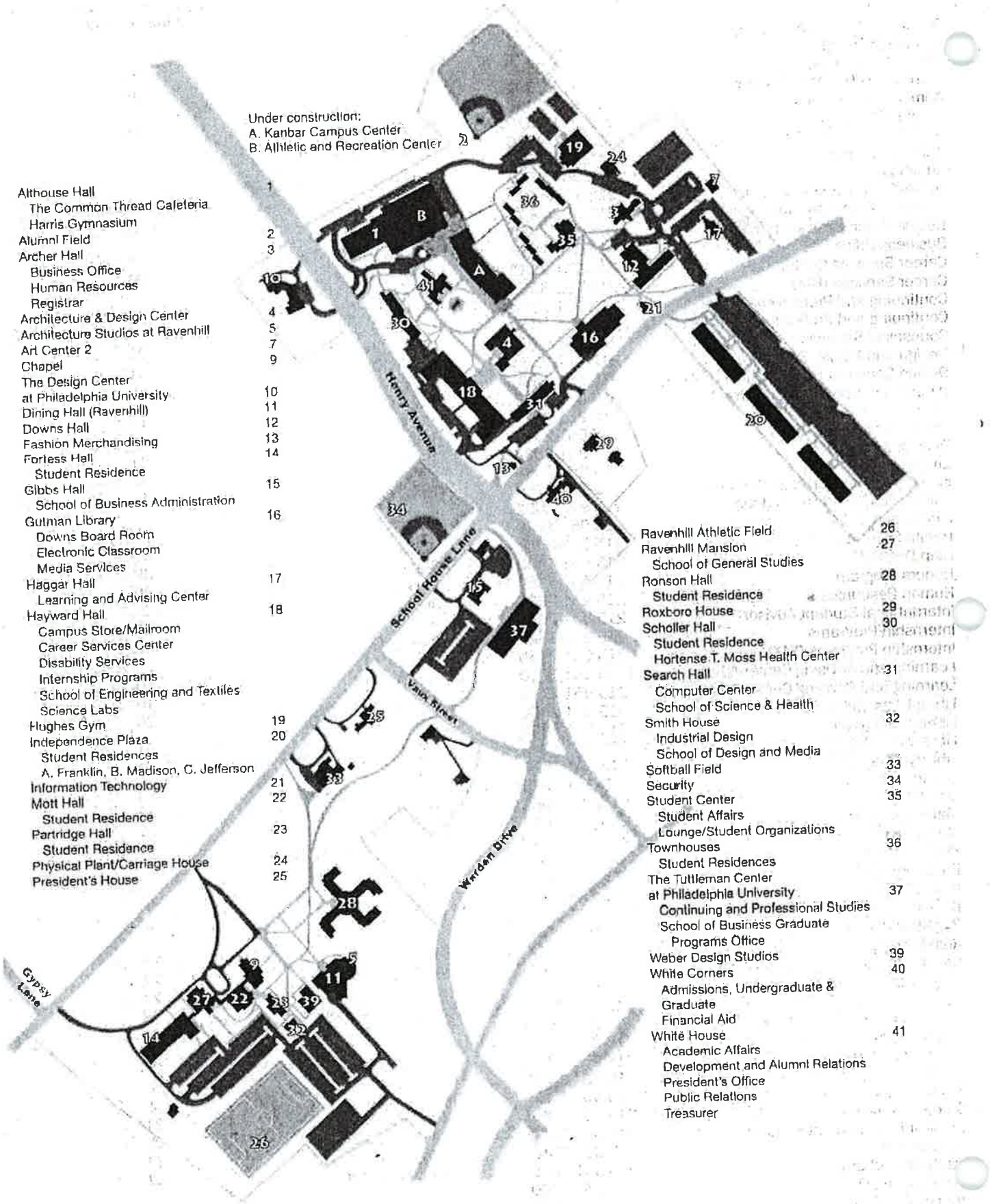
Wk #	Fall 2009	Date
1	Classes begin	Mon., Aug. 24
1	Last day to add	Fri., Aug. 28
3	Last day to drop without "W" grade	Fri., Sept. 11
4	Summer I to F changes	Fri. Sept. 18
9	Last day to withdraw from a course	Fri., Oct. 23
12	Classes end	Fri., Nov. 13
Final Exams begin		
12	Final Exams end	Fri., Nov. 13
13	Grades due/available to students	Mon., Nov. 16
Date of December Graduation		Fri., Dec. 18
Wk #	**Winter 2009**	**Date**
1	Classes begin	Mon., Nov. 23
1	Last day to add	Fri., Nov. 27
3	Last day to drop without "W" grade	Fri., Dec. 11
4	Fall I to F changes	Fri., Dec. 18
9	Last day to withdraw from a course	Fri., Jan. 22
12	Classes end	Fri., Feb. 12
Final Exams begin		
12	Final Exams end	Fri., Feb. 12
13	Grades due/available to students	Mon., Feb. 15
Date of May Graduation		Sun., May 16
Wk #	**Spring 2010**	**Date**
1	Classes begin	Mon., Feb. 22
1	Last day to add	Fri., Feb. 26
3	Last day to drop without "W" grade	Fri., Mar. 12
4	Winter I to F changes	Fri., Mar. 19
9	Last day to withdraw from a course	Fri., Apr. 23
12	Classes end	Fri., May 14
Final Exams begin		
12	Final Exams end	Fri., May 14
13	Grades due/available to students	Mon., May 17
Date of May Graduation		Sun., May 16
Wk #	**Summer 2010**	**Date**
1	Classes begin	Mon., May 24
1	Last day to add	Fri., May 28
3	Last day to drop without "W" grade	Fri., Jun. 11
4	Spring I to F changes	Fri., Jun. 18
9	Last day to withdraw from a course	Fri., Jul. 23
12	Classes end	Fri., Aug. 13
13	Grades due/available to students	Mon., Aug. 16
Date of Aug Graduation		Mon., Aug. 16

Holidays

Labor Day: No classes	Mon., Sept. 7
Thanksgiving Recess	Wed., Nov. 25
December Recess	Dec., 24 - Jan 3
MLK Holiday: No classes	Mon., Jan. 18
Spring Recess	Fri., Mar. 12
Memorial Day: No classes	Mon., May 31

Campus Phone Numbers

		Building	Map Location
Academic Achievement Program, Act 101	215-951-2735	Kanbar Center	21
Academic Affairs	215-951-2705	White House	38
Admissions-Undergraduate Day	215-951-2800	White Corners	37
Admissions-Undergraduate Evening	215-951-2900	Tuttleman Center	35
Admissions-Graduate	215-951-2943	White Corners	37
Alumni Relations	215-951-2929	White House	38
Architecture, School of	215-951-2896	A&D Center	3
Architecture (FAX)	215-951-2110		
Athletics	215-951-2720	Athletic/Recreation Center	6
Bucks County Satellite Campus	215-953-4500	Bucks County Technology Park	(off-campus)
Business Administration, School of	215-951-2827	Gibbs Hall	14
Business Administration (FAX)	215-951-2652		
Business Office	215-951-2960	Archer Hall	2
Career Services Center	215-951-2930	Kanbar Center	21
Career Services (FAX)	215-951-6884		
Continuing and Professional Studies	215-951-2900	Tuttleman Center	35
Continuing and Professional Studies (FAX)	215-951-5300		
Counseling Services	215-951-2868	Kanbar Center	21
Design and Media, School of	215-951-2106	Smith House	31
Design Center at Philadelphia University	215-951-2860	Design Center	9
Dining Services-Common Thread	215-951-2955	Kanbar Center	21
Dining Services-Ravenhill	215-951-2924	Ravenhill Dining Hall	10
Dining Services-Ted's	215-951-2924	Kanbar Center	21
Disability Services	215-951-6830	Kanbar Center	21
Emergency	215-951-2999	Safety/Security	32
Engineering and Textiles, School of	215-951-2750	Hayward Hall	17
Engineering and Textiles (FAX)	215-951-2651		
Financial Aid	215-951-2940	White Corners	37
Health Services	215-951-2986	Scholler Hall	29
Help Desk-OIT	215-951-4648	Search Hall	30
Honors Program	215-951-5367	Ravenhill Mansion	26
Human Resources	215-951-2965	Archer Hall	2
International Student Advisor	215-951-2660	Kanbar Center	21
Internship Programs	215-951-2815	Kanbar Center	21
Internship Programs (FAX)	215-951-2956		
Learning and Advising Center-Advising	215-951-2730	Haggar Hall	16
Learning and Advising Center-Tutoring	215-951-2799	Haggar Hall	16
Liberal Arts, School of	215-951-2600	Ravenhill Mansion	26
Liberal Arts (FAX)	215-951-6888		
Library-circulation	215-951-2840	Paul J. Gutman Library	15
Library-Eres (FAX)	215-951-2574		
Library-reference	215-951-2848	Paul J. Gutman Library	15
Mail Room	215-951-2982	Kanbar Center	21
Mail Room (FAX)	215-951-2615	Kanbar Center	21
Media Services	215-951-2975	Paul J. Gutman Library	15
Physical Plant	215-951-2945	Carriage House	7
President's Office	215-951-2970	White House	38
Public Relations	215-951-2851	White House	38
Registrar's Office	215-951-2990	Archer Hall	2
Registrar (FAX)	215-951-2742		
Residence Life	215-951-2741	Kanbar Center	21
Residential and Commuter Programs	215-951-2741	Kanbar Center	21
Room Reservations	215-951-2701	Kanbar Center	21
Safety/Security	215-951-2999	Ravenhill Campus	32
Science and Health, School	215-951-2870	Search Hall	30
Science and Health (FAX)	215-951-6812		
Spiritual Development	215-951-6804	Kanbar Center	21
Student Accounts	215-951-2633	Archer Hall	2
Student Accounts (FAX)	215-951-5988	Archer Hall	2
Student Activities	215-951-2744	Kanbar Center	21
Student Development Program	215-951-2634	Kanbar Center	21
Student Life	215-951-2740	Kanbar Center	21
Study Abroad Office	215-951-2815	Kanbar Center	21
Switchboard/Operator	215-951-2700		
Treasurer's Office	215-951-2966	White House	38
University Bookstore	215-951-2717	Kanbar Center	21



Althouse Hall 1
The Common Thread Cafeteria
Harris Gymnasium
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