Thomas Jefferson University
Center City Campus
Advising Manual
Academic Year 2017-2018

College of Health Professions

College of Nursing

College of Pharmacy

College of Population Health

Applied Health Economics and Outcomes Research
Biotechnology/Molecular Sciences
Couple and Family Therapy
Cytotechnology/Cell Sciences
Health Policy
Healthcare Quality and Safety
Medical Laboratory Science/Clinical Laboratory Sciences
Nursing
Occupational Therapy
Pharmacy
Physical Therapy
Physician Assistant Studies
Population Health
Population Health Intelligence
Population Health Sciences
Public Health
Radiologic Sciences

(215) 503-8890    http://www.jefferson.edu/admissions
August 10, 2017

Dear Colleague,

We are pleased to provide our annual Jefferson Advising Manual. The information in this guide pertains to the 2017-2018 academic year unless otherwise noted. We hope that this manual will serve as an easy to use educational reference for you as well as an important advising tool as you help your students navigate their educational and professional goals.

Thomas Jefferson University is embarking on an exciting pathway. Lead by our President, Stephen Klasko, Jefferson is aiming to reimagine our current definition of healthcare and the didactic and clinical training students receive as part of their education. His drive to make instrumental changes to the “norm” in healthcare education stem from Buckminster Fuller: “If you really want to change something, don’t try to change the existing reality. Create a new model that makes the old one obsolete.”

It is this guiding principle that has led to significant changes to Jefferson over the last year. Having recently completed our combination with Philadelphia University, the new, comprehensive Thomas Jefferson University delivers high-impact education and value for our students in medicine, science, architecture, design, fashion, textiles, health, business, engineering and more. The new Jefferson creates a unique model focused on interprofessional and transdisciplinary approaches to learning supported by design and systems thinking, innovation, entrepreneurship, empathy, and the modes of thought central to the liberal arts and scientific inquiry. Great things are in store for Thomas Jefferson University and your students who are ready to reimagine healthcare education with us.

We can’t emphasize enough how much we value your role as a member of the Jefferson family and we appreciate your efforts in nurturing students interested in health-related careers. You are an integral component of our partnership and we appreciate your expertise.

Please feel free to call or email us with any questions you may have. We look forward to working with you in the upcoming year.

Sincerely,

Jefferson Admissions Staff

Erin Finn
Amina Floyd-Murphy
Tre Grue
Jacqueline Hane
Leslie Hindman
Tina Heuges
Evelyn Janick
Jasmine Lee
Elizabeth MacNeill
Don Sharples
April Smith
Marc Sterns
David Wood
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Majors and Degrees
Jefferson is a career-oriented, associate, baccalaureate, master’s, and doctoral degree institution that offers professional study mainly to students who have completed approximately two to three years of prerequisite coursework elsewhere. Jefferson, Center City campus, offers health professions degrees in the following areas:

**Jefferson College of Health Professions**

- **Medical Laboratory Sciences and Biotechnology** Bachelor of Science, Entry-level Master’s (combined BS/MS), Accelerated Professional Master’s and Advanced Master of Science programs in biotechnology, cytotechnology and medical laboratory science. Post-baccalaureate certificate programs in blood banking, clinical chemistry, hematology, medical product development, microbiology and molecular biology.

- **Couple and Family Therapy** Master’s in Family Therapy, Certificate in Medical Family Therapy

- **Occupational Therapy** BSMS (BSMS OT); Master of Science in OT (MSOT), On-campus, Center City, Philadelphia; Master of Science in OT (MSOT), Hybrid, East Falls, Philadelphia; Doctor of Occupational Therapy (OTD); Post-professional Doctorate (PPOTD); Advanced Practice Certificates (APC).

- **Physician Assistant Studies** Master of Science in Physician Assistant Studies, Center City, Philadelphia; East Falls, Philadelphia; New Jersey

- **Physical Therapy** Doctor of Physical Therapy

- **Radiologic Sciences** Bachelor of Science programs in cardiac sonography, computed tomography, general sonography, invasive cardiovascular technology, magnetic resonance imaging, medical dosimetry, nuclear medicine, radiation therapy, radiography, and vascular sonography. Certificate program in PET/CT. Master of Science in Medical Physics and Executive-style Masters of Science in Radiologic and Imaging Sciences with tracks in education, management, ICVT and PET/CT.

- **Jefferson College of Nursing**
  - Prelicensure BSN, FACT-1 year, FACT-2 year, Master of Science in Nursing in over eight specialties, and Doctor of Nursing Practice (BSN to DNP & MSN to DNP, Entry Level Nurse Anesthesia DNP Program)

- **Jefferson College of Pharmacy**
  - Doctorate of Pharmacy
Jefferson College Population Health-
Applied Health Economics and Outcomes Research Master of Science and Graduate Certificate

Public Health Master of Public Health and Graduate Certification

Health Policy Master of Science and Graduate Certificate

Healthcare Quality and Safety Master of Science and Graduate Certificate

Population Health Master of Science, and Graduate Certificate

Population Health Sciences Doctor of Philosophy with four specializations (Health Policy, Healthcare Quality and Safety, Health Behavior and Applied Health Economics and Outcomes Research)

Public Health Master of Public Health and Graduate Certificate

Tuition Fee Information - Academic Year 2017-18

Complete tuition information can be found at: https://w3.jefferson.edu/registrar/tuition/

Financial Aid
More than three-quarters of our students receive some form of financial assistance. For more information contact The University Office of Financial Aid at (215) 955-2867 or online at http://www.tju.edu/financialaid/

Housing
The on-campus residential facilities are conveniently located within walking distance of Philadelphia’s shopping, cultural and recreational activities and within two blocks of all campus facilities. Any incoming first year student who applies for housing prior to May 31st is guaranteed a space on campus. Recently renovated Jefferson housing offers an affordable opportunity for students to immerse themselves in the Jefferson experience. A variety of shared and single accommodations are available both on and off campus. The Department of Housing & Residence Life can be reached at (215) 955-8913 or online at http://www.jefferson.edu/university/housing.html

Student Life
The Office of Student Life & Engagement for the students of the Jefferson Colleges is responsible for student programs, academic support services, discipline and counseling. Students can participate in the many clubs and organizations available including cultural, recreational and social activities. Some of the student programs they coordinate are the new student Orientations, the Leadership LIVE program, and student discounts to theatres, museums and sporting events. The major responsibility of their office is to coordinate the delivery of services to students to assure successful student recruitment and retention. The Office of Student Life & Engagement can be reached at (215) 503-7743 or online at http://www.jefferson.edu/university/student-life-engagement.html

Recreation and Fitness Center
Recreation facilities include a gymnasium, swimming pool, and physical fitness center. Students are encouraged to make full use of these facilities, which are located in Jefferson Alumni Hall. The Activities Office can be reached at (215) 503-7949 or online at http://www.jefferson.edu/university/fitness.html
**Career Development Center**
The Career Development Center offers counseling, workshops, resume assistance, and networking opportunities for students and alumni. The CDC is also available for counseling and assistance as graduates plan career transitions and growth. The Career Development Center can be reached at (215) 503-5805 or online at [http://www.jefferson.edu/university/academic-affairs/schools/career-development-center.html](http://www.jefferson.edu/university/academic-affairs/schools/career-development-center.html)

**Commuter Services**
The Commuter Services Office offers discounted parking and public transportation passes for both inside and outside of Philadelphia. Commuter Services can be reached at (215) 955-6417 or online at [http://www.jefferson.edu/university/customer_service/commuter.html](http://www.jefferson.edu/university/customer_service/commuter.html)

**Office of International Affairs (OIAS)**
Thomas Jefferson University welcomes people from all over the world to work, study, and engage in research and encourages Jeffersonian to study, lecture and do research abroad. OIAS works with all University departments to facilitate exchange and to offer orientation to international visitors. ESL classes are also available OIAS can be reached at 215-503-4335 or [http://www.jefferson.edu/university/international_affairs.html](http://www.jefferson.edu/university/international_affairs.html)

### Admissions Office
**Center City Campus**

<table>
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<th>Name</th>
<th>Title</th>
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Office of Admissions and Enrollment Management
Thomas Jefferson University, Center City
130 South 9th Street, Suite 100
Edison Building
Philadelphia, PA 19107
(215) 503-8890
(215) 503-7241 (fax)
http://www.jefferson.edu/admissions
College and High School Partnerships & Affiliations

Jefferson is affiliated with a number of colleges, universities, and community colleges in an effort to increase access to higher education in the nursing and health professions fields. These partnerships, including general agreements (2+2 and other degree completion programs), articulated curriculum agreements, and dual admission nursing programs provide students with a wide array of college choice as they complete their prerequisite coursework.

General Agreements

Jefferson's general partnership agreements present a novel approach to degree completion and a baccalaureate (or higher) degree.

2+2, 2+3, 3+1, 3+2 PACE Pathways

Students enrolled in this program spend the first two or three years at an affiliated institution before transferring to Jefferson to complete a nursing, occupational therapy, radiologic sciences, biotechnology, cytotechnology, or medical laboratory science bachelor's and/or master's degree. Students who have already earned a bachelor's degree may also enroll in one of our one-year Post-baccalaureate Pathways in radiologic sciences, biotechnology, cytotechnology, medical laboratory science, or nursing. Due to the complexity of the Pharmacy admissions process, the admission guarantee does not apply to this program. However, we will work closely with our partner schools to facilitate the transfer of students into the pharmacy program. Please contact us to discuss opportunities for pharmacy information sessions to be held on your campus.

The General Agreement entitles students enrolled at our partner institutions admission to degree programs under the following conditions:

- All prerequisite coursework must be completed prior to enrollment at Jefferson
- A designated partner school representative must recommend the student for admission
- Students must have earned at least a 3.0 cumulative and prerequisite science GPA to be considered for admissions
- Students must have earned at least a 'C' in all prerequisite coursework, C+ for Nursing students
- Students may not have a criminal or disciplinary record
- Admission is extended as long as there are spaces available in the entering class
- Where TOEFL is mandated, a minimum score of 87 (Internet-based) is required
- Accepted students must submit the results of a criminal background check and child abuse clearance prior to matriculation

Articulated Curriculum Agreements

3+3 Doctor of Physical Therapy and Accelerated MOST 3+ 2 Occupational Therapy, BS/MS MLSB, Public Health

Jefferson's articulated curriculum agreements offer an innovative way for students to gain acceptance into upper division graduate programs while still in high school or during the freshman year in college.

Articulated curriculum agreements are available for the Doctor of Physical Therapy program, the Entry-level Master's in Occupational Therapy program, and the combined bachelor's/master's degrees in Biotechnology, Cytotechnology, and Medical Laboratory Science. More information on these
Public Health Dual Degrees

Jefferson College of Population Health offers the following dual degree options where students at an affiliate institution can also earn a MPH degree:

- MSS/MPH with the Graduate School of Social Work & Social Research (GSWSR) at Bryn Mawr College
- JD/MPH with the Family Health Law and Policy Institute at the Delaware Law School at Widener University
- DO/MPH with Philadelphia College of Osteopathic Medicine
- PharmD/MPH with Jefferson College of Pharmacy
- MD/MPH with Sidney Kimmel Medical College


**Participating General Agreement (GA), Articulated Curriculum Agreement (ACA) Colleges, Universities, and Community Colleges**

Arcadia University (GA)  Manor College (GA)
Atlantic Cape Community College (GA)  Mercer Community College (GA)
Bloomsburg University (GA)  Messiah College (ACA)
Bucks County Community College (GA)  Middlesex County College (GA)
Bryn Athyn College (GA)  Mills College (GA)
Bryn Mawr College (ACA)  Montgomery County Comm. College (GA)
Cabrini College (GA)  Moravian College (GA)
Camden County College (GA)  Muhlenberg College (ACA)
Cedar Crest College (GA)  Penn State Abington (GA, ACA)
Chestnut Hill College (ACA)  Penn State Brandywine (GA)
Community College of Philadelphia (GA)  Philadelphia College of Osteopathic Medicine (ACA)
Cumberland County College (GA)  Elizabethtown College (GA, ACA)
Delaware County Comm. College (GA)  Rowan College at Burlington County (GA)
Dickinson College (GA)  Rowan College at Gloucester County (GA)
Gordon College (GA)  Rutgers University – Camden (GA)
Gwynedd-Mercy University (GA)  Saint Joseph’s University (GA, ACA)
Harcum College (GA)  Shippensburg University (GA)
Immaculata University (GA, ACA)  Susquehanna University (GA)
Juniata College (GA, ACA)  University of Delaware (ACA)
Keystone College (GA)  University of the Sciences (GA)
La Salle University (GA)  Valley Forge Military Academy (GA)
Lebanon Valley College (GA)  Villanova University (GA, ACA)
Frequently Asked Questions by Students

What are the admissions requirements?

- Undergraduate admission requirements vary by program but the most successful students have a minimum cumulative and science grade point average of 3.0. Please refer to the list of requirements for each program throughout the manual.
- The PACE program is open to high school seniors only. While grade point average and SAT requirements vary by major, all candidates should have a minimum of a 3.0 cumulative GPA, a score of a 1170 on the SAT (ERW +M), strong background in science and math coursework, and it’s recommended but not required to have shadow or volunteer experience in a healthcare setting.
- Graduate admission requirements vary by program but most successful candidates have a minimum cumulative grade point average and prerequisite science grade point of 3.0 and competitive scores on the GRE or MAT tests, if applicable.
- Pharmacy applicants must have at least a 2.7 cumulative GPA and PCAT composite scores in the 50th percentile or higher.
- MPH Bridge Program applicants must have at least a 3.3 cumulative GPA.

How should I submit my application?

You apply online at http://www.jefferson.edu/university/admissions-schools/admissions/apply/overview.html. Unless otherwise noted below. Almost all of our applications use a Centralized Application Service, or CAS. Please be sure to read the directions on our website carefully, and follow all the necessary instructions on the CAS application as well.

Pharmacy applicants must apply for admission through PharmCAS at www.pharmcas.org.

Traditional Physical Therapy applicants must apply through PTCAS at www.ptcas.org. 3+2 PT Applicants apply directly to the partner school.

Traditional Applications for the BSMS OT, MSOT and OTD programs must apply through OTCAS at www.otcas.org. High School Applicants for OT: BSMS OT (2+3) PACE student apply via TJApp https://tju.unicas.com/ and Accelerated MSOT (3+2) students apply directly to the partner school.

Physician Assistant applicants must apply through CASPA at https://portal.caspaonline.org/.

All materials for these programs are submitted directly to PharmCAS, PTCAS, OTCAS, and CASPA. Please note some programs also require a Jefferson supplemental application.

Students interested in applying to Medical Laboratory Sciences & Biotechnology, Couple & Family Therapy, BSN, FACT-1 Year Nursing, FACT 2-Year Nursing or Radiologic Sciences programs apply through TJApp https://tjapp2018.liaisoncas.com/.

Students applying for the public health program must apply via SOPHAS at http://sophas.org. If applying for a dual degree with our MPH program must apply via SOPHAS Express via https://sophasexpress.liaisoncas.com/
Where should I complete my prerequisites before enrolling at Jefferson?
You may complete courses at any accredited two-or four-year college or university. While not required, you are encouraged to attend a college or university that has signed a transfer agreement with Thomas Jefferson University. Our agreement institutions have designated an on-campus advisor who is knowledgeable about the prerequisite course requirements and familiar with our academic programs and facilities.

Is there an application deadline?
Admission is competitive, as there are a limited number of seats in each class. Each program has a specific application deadline, but students are encouraged to apply early as admission is on a rolling basis.

Complete Admissions Application Deadlines can be found at:
http://www.jefferson.edu/university/admissions-schools/admissions/apply/deadlines.html

- Jefferson College of Population Health
- Jefferson College of Health Professions
- Jefferson College of Nursing
- Jefferson College of Pharmacy
- Institute of Emerging Health Professions

Do all prerequisites need to be done before applying to Jefferson?

While you are required to have all prerequisite work completed prior to enrollment, you do not need to have all prerequisite work completed at the time of application; however, the majority of your science and math coursework should be finalized. Should you have some coursework in progress at the time of application, or if you plan to complete this work during the summer prior to enrollment, you should simply indicate the missing coursework in the appropriate section of your application. The majority of the science and math prerequisite work should be completed at the time of application.

You may also earn credits through standardized tests, including CLEP*.

* Nursing and Physician Assistant Programs do not accept CLEP.
* Nursing does not accept AP and IB credit.
Is there a waiting list?
Once a program is full, a waiting list is created in the event that someone chooses not to accept his/her seat. The waiting list is dissolved once the program begins.

What courses can be transferred to Jefferson?
Those with a grade of ‘C’ or higher that meet the program requirements (a ‘C-‘ is not acceptable). Developmental/remedial, physical education, and courses such as pottery, typing or photography are not transferable. Science and math courses older than 10 years (5 years for pharmacy applicants) are transferable if validated by a challenge or CLEP exam (with exception to Nursing and Physician Assistant Programs, which do not accept CLEP) or if the applicant is working in a field where science and math concepts are used on a daily basis.
Transfer credit is based on the number of credits the course is assigned at TJU. For example, calculus is a 3-credit course at TJU; therefore a student with a 4-credit calculus course at another institution would receive only 3 credits for that course at TJU.

Is housing available?
First year students who are accepted to Jefferson by May 31st and who have a housing application on file by May 31st are guaranteed on-campus housing. Thomas Jefferson University has three university resident facilities: Martin Residence Hall, Barringer and Orlowitz Apartment Complexes.

Is volunteer experience required?
While not required of all programs, volunteer experience is strongly recommended as part of a competitive application package. For department recommendations, contact the admissions office.

How many students enroll through the PACE and 3+ programs?
Each year, approximately 10% of the student body is comprised of PACE or 3+ students. Once accepted, your seat is held at Jefferson as long as you successfully complete all prerequisite courses for your major, maintain the required cumulative grade point average, and complete shadowing hours (if applicable).

How many years do I spend at my first institution if I am in the PACE and 3+ Programs?
While students are typically able to complete the prerequisites within two years, some choose to remain at their first institution for a third year.

When do I apply for housing and financial aid?
For PACE, 3+3 and 3+2 students, housing and financial aid applications will be sent to you the year prior to matriculation into Jefferson. For transfer and graduate students, an aid application is sent to you soon after you apply. Financial aid you received at your first institution is applicable only to that institution. A separate package will be awarded by Thomas Jefferson University.

Do you offer varsity sports?
Jefferson, Center City Campus, offers a full complement of intramural sports. For athletic enthusiasts, facilities include an indoor swimming pool, fully equipped gymnastics and weight room, racquetball court, a physical fitness center, sauna and an aerobics room. Our East Falls campus hosts a variety of Division II sports. A full list can be found by visiting, http://www.philaurams.com/landing/index.

Do you recommend that I have a car on campus?
You may have a car on campus. However, because parking is costly and since mass transportation is
easily accessible, we recommend that you leave your car at home.

If not admitted through PACE or a 3+ program, may I reapply in the future?
Yes. If you are not admitted through the PACE program you may reapply as a transfer student.

As a PACE or 3+ student, what contact will I have with Jefferson while attending my first school?
You will receive a series of mailings and phone contacts from the Jefferson community while attending your first institution. In addition, we will invite you to Jefferson to meet your future classmates and familiarize yourself with the campus at our annual Welcome Picnic and Advising Day events.

Will I need a Criminal Background Check and Child Abuse Clearance?
Yes. Except for students in the College of Population Health, all accepted students must complete both a Criminal Background Check and Child Abuse Clearance prior to matriculation. Specific instructions will be provided to each accepted student. Individuals who have been convicted of a felony or misdemeanor may be denied certification or licensure as a health professional. Information regarding individual eligibility may be obtained from the appropriate credentialing bodies. Clinical rotation and fieldwork sites may require a criminal background check and/or child abuse check in order to permit participation in the clinical experience, rotation or fieldwork. Participation in clinical experiences, rotations or fieldwork is a required part of the curriculum and a requirement for graduation. Clinical rotation and fieldwork sites may deny a student's participation in the clinical experience, rotation or fieldwork because of a felony or misdemeanor conviction, failure of a required drug test, or inability to produce an appropriate health clearance, which would result in delayed graduation or in the inability to graduate from the program.

Nursing, Physician Assistant, Physical Therapy, and Occupational Therapy students are also required to complete an additional FBI fingerprinting background check and Drug Testing. Background checks and child abuse clearances are not required Masters in Radiologic Sciences, Doctor of Occupational Therapy, and General Studies students. Pharmacy students may have additional background check requirements.
Radiologic Sciences
Information & Definitions

What is Radiologic Sciences?
Radiologic Sciences is a field of medical study that uses pictures or images of internal organs and structures to prevent and diagnose disease as well as using therapeutic interventions to treat disease. These images are captured in a number of ways, usually viewed on a computer screen, and then interpreted by a physician.

What are the different concentrations?
Radiography uses x-ray beams to create films of body features when examining patients for broken bones, ulcers, tumors, and/or the disease of various organs. A technologist uses x-ray equipment to produce radiographs or films of the appropriate density, detail and contrast.

A specialization of radiography, known as Computed Tomography (CT), also uses x-ray beams. In this case, the beams create cross-sectional images of the body, which are then assembled into three-dimensional images by a computer and produced on a computer screen to be evaluated.

While both of these concentrations use radiation for image production, another specialization, called Magnetic Resonance Imaging (MRI), creates cross-sectional images by using radio waves and magnetic fields. Hydrogen atoms in the body react to the magnetic fields to help create these three-dimensional images and produce them on the computer screen for an MRI technologist and physician to evaluate.

General Sonography or Ultrasound uses high-frequency sound waves to create images of internal structures of the body. The image is created by the echoes from the sound waves collected on equipment run by a sonographer. The sonographer performs a diagnostic scan and makes a permanent record of the data obtained for interpretation by a physician. By viewing the screen as the scan takes place, sonographers look for subtle differences between healthy and pathological areas to decide which images are passed on to the physician and which images are satisfactory for diagnostic purposes.

The four concentrations above assess the structure of an organ. A fifth modality, Nuclear Medicine Technology, was developed to take these processes one step further and assess the function, as well as the structure, of the organ. With traces of radioactive materials, known as radiopharmaceuticals, injected into the body, an image is detected by a gamma camera and produced on a computer screen. This image not only illustrates the anatomy and image of the organ, but also demonstrates how well the organ is functioning within the body.

Cardiac Sonography, or ultrasound of the heart, allows a technologist to measure the size of the heart chambers and study the valves to determine the efficiency of blood flow through each chamber and to the rest of the body. Cardiac sonography uses high-frequency sound waves to produce a real-time view of all the chambers of the heart, the heart valves, the heart muscle, and the great blood vessels entering and leaving the heart. A cardiac sonographer is a highly skilled professional instrumental in the evaluation of congenital and acquired cardiac abnormalities and associated complications.

Vascular Sonography uses ultrasound to examine blood flow through the vascular system, or arteries and veins. The images produced are used to detect abnormalities and vascular disease.

Invasive Cardiovascular Technology is a procedure that helps technologists assess the pumping action of the heart and valves and blood flow. By threading a catheter, or thin tube, from a vein or artery in the leg to the heart, a dye is injected into the chambers and vessels, and an image is produced for the physician to interpret.

Radiation Therapy involves treating diseases with penetrating beams of high-energy radiation. Radiation Therapists are highly skilled members of the cancer management team. They are responsible for recording, interpreting and administering the treatment prescribed by radiation oncologists.

Medical Dosimetry is a sub-specialty of radiation oncology that deals with treatment planning, dose measurement, dose calculations and quality assurance of radiotherapy treatment designed to treat
cancer. Medical Dosimetrists plan and calculate ionizing radiation under the direction of a medical physicist.

Positron Emission Tomography and Computed Tomography (PET/CT) are standard imaging tools that allow clinicians to pinpoint the location of cancer within the body before making treatment recommendations. The highly sensitive PET scan picks up the metabolic signal of actively growing cancer cells in the body, and the CT scan provides a detailed picture of the internal anatomy that reveals the size and shape of abnormal cancers. Alone, each test has its limitations but when the results of the scans are fused together they provide the most complete information on cancer and metabolism. In the past, difficulties have arisen from trying to interpret the results of both tests together because patients often change their positions between tests. The combined PET/CT scan allows clinicians to perform the tests simultaneously; which leaves less room for error in interpreting test results.

The **Master of Science degree in Medical Physics** is the only program in the Philadelphia region that offers training on the two largest suppliers of linear accelerators in the United States. Didactic courses and labs are complemented with extensive clinical experience. The program is designed to meet criteria for full accreditation through the Commission on Accreditation of Medical Physics Education Programs (CAMPEP). Graduating from a CAMPEP-accredited master’s degree program in Medical Physics offers the opportunity to enter a two-year medical physics residency. Completion of an advanced degree from a CAMPEP-accredited medical physics program and completion of a residency are current requirements for certification by the American Board of Radiology.

This is a demanding and time consuming two-year, full-time, on-site program for students who have a formal educational background of a Bachelor of Science degree in Physics.

**Where do radiologic sciences professionals work?**

Radiologic science professionals work in the following settings: hospitals, medical centers, academic health centers, colleges and universities, medical equipment companies, physicians’ offices, pharmaceutical companies and information systems/information technology offices.

**What is the job outlook?**

According to the United States Department of Labor, Radiologic Technologists are expected to experience better employment opportunities than the average and those with knowledge of more than one diagnostic imaging procedure will have the best employment opportunities. A 17% increase in employment opportunities is projected to occur between 2008-2018.

**What do Radiologic technologists earn?**

The average salary for 2015 Jefferson radiologic sciences graduates was $71,595 (salary range was $36,000 - $110,000).

**Who can I contact for more information about Radiologic Sciences?**

<table>
<thead>
<tr>
<th>American Society of Radiologic Technologists</th>
<th>American Society of Hypochiardiography</th>
</tr>
</thead>
<tbody>
<tr>
<td>15000 Central Avenue SE</td>
<td>4101 Lake Boone Trail, Suite 201</td>
</tr>
<tr>
<td>Albuquerque, NM 87123</td>
<td>Raleigh, NC 27607</td>
</tr>
<tr>
<td>(505) 298-4500</td>
<td>(919) 787-5181</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Society of Diagnostic Medical Sonographers</th>
<th>American Society for Therapeutic Radiation Oncologists</th>
</tr>
</thead>
<tbody>
<tr>
<td>12770 Coit Road, Suite 508</td>
<td>12500 Fair Lakes Circle, Suite 375</td>
</tr>
<tr>
<td>Dallas, TX 75251-1319</td>
<td>Fairfax, VA 22033</td>
</tr>
<tr>
<td>(972) 239-7367</td>
<td></td>
</tr>
</tbody>
</table>
Radiologic Sciences Programs

2 Concentration Programs (2-Year):
- 24-month, full-time program beginning in September
- Graduates are eligible to sit for the national certification examinations in their chosen modality upon completion of the program.

2-Year Program Options
The Radiologic Sciences program has eight first year options*. There are a number of modality choices for the second year, however, students must consult with a TJU admissions counselor or a Radiologic Sciences faculty member to ensure the selected combination meets all prerequisite requirements.

Cardiac Sonography*
Computed Tomography (2nd yr option only)*
General Sonography*
Invasive Cardiovascular Technology
Magnetic Resonance Imaging*
Medical Dosimetry (2nd yr option only)*
Nuclear Medicine*
Radiography*
Radiation Therapy*
Vascular Sonography*

Advanced Placement Programs (1-year):
- Enrollment for the Advanced Placement programs takes place in September and the programs are offered on a full-time basis for 12 months
- Students with a bachelor’s degree may apply to the following AP programs:
  Cardiac Sonography
  General Sonography
  Magnetic Resonance Imaging
  Medical Dosimetry
  Nuclear Medicine
  Radiography
  Radiation Therapy
  Vascular Sonography
- Students who have certification in or graduation from an accredited program in radiography or other related health field may apply to the following AP programs:
  Cardiac Sonography
  Computed Tomography Program requires RT(R), RT(T), or CNMT registry eligibility**
General Sonography
Invasive Cardiovascular Technology Program requires RT(R) or ARRT registry eligibility
Magnetic Resonance Imaging Program
Medical Dosimetry - requires RT(T) or ARRT registry eligibility*
Nuclear Medicine
Radiation Therapy*
Radiography
Vascular Sonography
PET/CT requires CNMT or ARRT(N) part-time only
- Students enrolled in any of these advanced placement programs must also take a national examination in order to become certified in their specialization.
**Available as a part-time option, see admission requirements.

Combined BS/MS (2 or 3 years)
- Students apply for both the bachelors and master’s degree programs with a single application.
- Available in both 2 Year and 1 Year programs.

PET/CT Certificate (1 year)
This is the only formal PET/CT curriculum in the nation. Students must be certified in Nuclear Medicine Technology to apply. In-class attendance only 2 nights per week in fall and spring with clinical competencies in CT and PET.

Master of Science in Radiologic and Imaging Sciences (Full-time 1 year or Part-time 2 years)
- Executive style program designed to allow students to maintain full-time employment while completing the coursework. In-class attendance is required only one weekend a month, plus online interaction and independent study. Classes are held the first weekend each month.
- Students may choose from four tracks: education or management, both of which focus on radiologic and imaging sciences, PET/CT for students who have a bachelor’s degree and CNMT or ARRT(N) certification. The PET/CT master’s curriculum includes PET/CT courses 2 nights per week in the fall and spring and the general core classes of the MSRIS one weekend per month or ICVT for students who possess current RT(R) or RDCS/RVT or ARRT(R)/ARDMS certification or eligibility. In addition, students must do a clinical rotation in the fall, spring and summer semesters, which is worked out on an individual basis.
- Earning a master’s degree will help professionals in the educational arena meet the JRCERT’S requirement that all radiologic and imaging sciences program directors hold at least a master’s degree by 2009.
- For administrators, the curriculum is designed to provide training in personnel and fiscal management, personnel recruitment and retention and clinical professional accreditation, among other topics.

Admission Requirements
1 Year and 2 Year students must complete 50 specific prerequisite credits prior to matriculation; however, they do not need to have all prerequisite work completed at the time of application. Academic courses from accredited institutions with a grade of ‘C’ or above and CLEP scores are acceptable for transfer.
PET/CT Certificate students are not subject to the 50 specific prerequisite credits needed for the 1 Year and 2 Year programs. However, they must be CNMT or ARRT (N) registered nuclear medicine technologists prior to matriculation. Part-time radiation therapy + medical dosimetry students must be previously credentialed in their respective concentrations. Part-time CT students must have RT(R), RT(T), or CNMT registry eligibility.

Master of Science in Radiologic and Imaging Sciences students must have a baccalaureate degree and certification by the ARRT or the equivalent. Students interested in the MSRIS with a concentration in PET/CT must have a baccalaureate degree and CNMT or ARRT(N) certification.

**Prerequisite Requirements**
All students must complete 50 specific prerequisite credits prior to matriculation; however, they do not need to have all prerequisite work completed at the time of application. Academic courses from accredited institutions with a grade of ‘C’ or above and CLEP scores are acceptable for transfer.

**RADIOLOGIC SCIENCES PREREQUISITES**

<table>
<thead>
<tr>
<th>Prerequisite Courses</th>
<th>Credits</th>
<th>Medical Dosimetry/Nuclear Medicine/ Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anatomy and Physiology w/ lab</td>
<td>8/8/8</td>
<td></td>
</tr>
<tr>
<td>College Physics</td>
<td>8/8/8</td>
<td></td>
</tr>
<tr>
<td>College Chemistry w/ lab</td>
<td>4/8/4</td>
<td></td>
</tr>
<tr>
<td>Biology</td>
<td>4/X/X</td>
<td></td>
</tr>
<tr>
<td>Pre-Calculus</td>
<td>3/3</td>
<td></td>
</tr>
<tr>
<td>Statistics</td>
<td>3/3</td>
<td></td>
</tr>
<tr>
<td>English Composition</td>
<td>666</td>
<td></td>
</tr>
<tr>
<td>Electives</td>
<td>11/11/15</td>
<td></td>
</tr>
<tr>
<td>Medical Terminology</td>
<td>3/3/3</td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL CREDITS</strong></td>
<td><strong>50/50/50</strong></td>
<td></td>
</tr>
</tbody>
</table>

1MUST MEET REQUIREMENTS FOR **SCIENCE MAJORS**
2Algebra or calculus-based (Radiologic Physics is not acceptable)
3Recommended electives: computer science, psychology, sociology, speech/communication, microbiology, arts, humanities, social sciences, sciences (i.e. microbiology, genetics, organic chemistry), and foreign languages.
Not accepted electives: remedial courses, physical education courses, technical courses (like photography, dance, etc.).
4Students certified in or graduated from an accredited program in the health professions do not need Medical Terminology. These students must have three additional elective credits in place of medical terminology.

**These courses must meet requirements for science majors.**

**Recommended Electives:** Sciences, Social Sciences, Humanities, Arts, History, etc. (i.e: Chemistry, Computer Science, Psychology, Sociology, Speech/Communication, Art Appreciation, etc)

**NOTE:** All applicants will be required to take a math proficiency exam and an onsite essay at the interview. No calculators will be permitted.
Course Clarification: All science and math courses must be completed within 10 years of application to Jefferson (students with relevant work experience may petition for exception to this rule). Courses must be completed with a grade of “C” or above to be eligible for transfer. A grade of “C-“ or below will not be eligible for transfer.

Medical Laboratory Sciences and Biotechnology Information

What is a Medical Laboratory Scientist?
Laboratory Scientists are healthcare professionals who perform laboratory tests to detect, diagnose, and ultimately prevent and treat disease.

What are the Medical Laboratory Sciences and Biotechnology specialties?
Biotechnology/Molecular Science uses information obtained at the molecular level to create new therapeutic, diagnostic and environmental products and services. Biotechnologists work with RNA, DNA and proteins. The field has numerous applications, including the pharmaceutical industry, academic research, clinical diagnostics, forensics, agriculture and the environment. Terms like genetic engineering, the human genome project, and molecular biology are fast becoming part of everyday language. Biotechnology medicines are used to treat diseases such as anemia, cystic fibrosis, dwarfism, leukemia, hemophilia, cancers, as well as others.

Cytotechnology/Cell Science Cytotechnologists evaluate cell specimens, locate and interpret the presence or absence of malignant cells (cancer), precancerous changes, infections, inflammatory patterns and treatment-related conditions. Cytotechnologists aid in the detection of cancer by differentiating normal, atypical and malignant cells using microscopes and automated cell analysis.

Medical Laboratory Science/Clinical Laboratory Science- A Medical Laboratory Scientist (or Clinical Laboratory Scientist) is a skilled laboratory scientist who performs chemical, hematological, immunological, microscopic and microbiological tests for the diagnosis and monitoring of diseases. Medical Laboratory Scientists (MLS) utilize the test results to help diagnose, monitor, and research disease states and health status. The MLS also has the responsibility to ensure high standards by interpreting quality assurance parameters, by troubleshooting instrumentation and procedures, and by researching new techniques.

Where do they work?
Medical Laboratory Scientists and Biotechnologists work in a variety of settings including hospitals, medical centers, academic health Centers, medical equipment companies, lab equipment companies, clinical laboratories, federal government agencies, research laboratories, physician offices, business and industry, pharmaceutical companies, environmental organizations, insurance companies, veterinary clinical facilities, and forensic laboratories.

Partial lists of job titles include:

Clinical Staff Positions
Medical Technologist Generalist
Clinical Chemistry Technologist
Immunohematologist (Blood Banker)
Immunology Technologist
Microbiology Technologist
Research Assistant/Associate
Forensic Medicine Laboratory Technologist
Veterinary Laboratory Staff/Technologist
Hematology Technologist
Cytotechnologist

Non-Clinical Positions
Government Inspector
Quality Assurance Specialist
Sales or Technical Rep.
Laboratory Consultant
Information Systems Specialist
Medical Editor
Leadership and Management Positions
Laboratory Supervisor and Manager             Hospital Administrator
Department Manager                           Marketing and Sales Manager
College Faculty/Administrator                Technical Administrator

What is the job outlook?
Significant expansion of basic and applied biotechnology in both medical center and commercial industry settings has created an urgent need for skilled, bachelor's degree-prepared biotechnologists. Nationally, positions for cytogenetic technologists far exceed the number of trained individuals to fill them. Although there has been a tightening of job opportunities on the East Coast, the employment outlook for laboratory experts nationwide is expected to grow by 40 percent over the next 10 years.

What do medical laboratory scientists and biotechnologists earn?
Average starting salaries for all clinical laboratory careers continues to be very competitive. The average annual salary for Jefferson Medical Laboratory Sciences & Biotechnology class of 2015 graduates was $46,192 (salary range $33,000- $52,000). 79% of the graduating class of 2015 reported that they had obtained a position within three months of graduation (100% within one year).

Who can I contact for more information about Medical Laboratory Sciences and Biotechnology?

Biotechnology
Biotechnology Industry Organization (BIO)
1625 K Street, NW, Suite 1100
Washington, D.C.  20006
www.bio.org

PA Association of Biotechnology
1524 West College Avenue
Suite 206
State College, PA  16801

Cytotechnology
American Society of Cytopathology
400 West 9th Street, Suite 201
Wilmington, Delaware 19801

American Society for Cytotechnology
4101 Lake Boone Trail, Suite 201
Raleigh, North Carolina 27607
www.asct.com

Cytogenetic Technology
Association of Genetic Technologists (AGT)
Box 15945-288
Lenexa, KS  66285
www.bio.org

Medical Laboratory Sciences and Biotechnology Definitions
Biotechnology/Molecular Sciences:
- Apply biologic and engineering principles to solve problems in healthcare and pharmaceutical manufacturing
- Gene therapy—genetic engineering and development of new drugs and vaccines etc.

Cytotechnology/Cell Sciences:
- Interpret changes in cells to diagnose benign, pre-cancerous and malignant cells and effects of therapy
- Heredity at the cellular level—diagnose based upon cell groupings

Medical Laboratory Science/Clinical Laboratory Sciences:
- Perform lab analyses and interpret results to help diagnose, monitor and research disease states and health status
- Laboratory scientist—look at body fluids and determine levels

Clinical Chemistry:
- Analyze blood and body fluids to determine the physiological health of the patient
- Determine the biochemical parameters of blood and body fluids to help physicians in the prevention, diagnosis, monitoring and treatment of diseases using state of the art instrumentation to measure enzyme activity, blood gas saturation, concentration of drugs and glucose

Immunohematology:
- Type and cross-match blood from donors and recipients
- Analyze specific blood products for the rapidly expanding field of component therapy

Microbiology:
- Culture, isolate and diagnose bacteria, parasites and viruses to identify the causes of diseases and determine the appropriate antibiotics needed for treatment
- The constant discovery of newly mutated and therapy-resistant organisms means that the role of the microbiologist will become increasingly important.

Hematology:
- Analyze the function and formation of red and white blood cells and other elements of blood and body fluids
- Monitor normal and abnormal cells and assess concentrations of coagulation factors to provide health practitioners with the information necessary to ensure that therapy and treatment are appropriate for each patient.

Molecular Biology:
- Identify genetic disease and infectious agents, or determine paternity DNA/RNA extractions, Southern blot, Western blot, PCR and gene sequencing are used in clinical laboratories, in diagnostic genetics laboratories and research laboratories
Medical Laboratory Sciences and Biotechnology Programs

Full-time, day program - prerequisite requirements vary by program.

2-Year Bachelor of Science Degree Options (Two academic years):
- For students without a bachelor's degree
- Enrollment into the 2+2 option requires the completion of at least two years (55 credits) of specific prerequisite credits prior to enrollment
- Programs offered in biotechnology/molecular sciences, cytotechnology/cell sciences and medical laboratory science/clinical laboratory sciences

1-Year Bachelor of Science Degree Options (12 consecutive months):
- For students who have completed a minimum of 70 specific prerequisite credits prior to enrollment
- It is recommended that the remaining elective course work include biological and chemical science credits
- Programs offered in biotechnology, cytotechnology and medical laboratory science

Post-Baccalaureate Specialty Tracks (3 semesters accelerated / 5 semesters extended):
- For students who have completed a Bachelors Degree that includes at least 30 semester credits of biology and chemistry
- Laboratory technologists, research technicians and junior scientists are also eligible
- Programs offered in clinical chemistry, immunohematology, microbiology, hematology and molecular biology
- Certificate in Medical Product Development

3+2 Entry-Level Master of Science Degree in Medical Laboratory Sciences & Biotechnology (combined BS/MS):
- For students who have completed a minimum of 82 credits of specific prerequisite credits prior to enrollment and wish to graduate with a bachelor and master of science degree in a medical laboratory sciences or biotechnology field
- Programs are offered in biotechnology, cytotechnology and medical laboratory science

Accelerated Professional Master of Science Degree in Medical Laboratory Sciences & Biotechnology (12 consecutive months or two academic years):
- For students who have earned a bachelor's degree in a non-laboratory science field and have completed 33 specific prerequisite credits
- Programs offered in biotechnology, cytotechnology and medical laboratory science

Advanced Master of Science Degree in Medical Laboratory Sciences & Biotechnology:
For students with a previously earned BS degree or Post-baccalaureate Certificate from a CAAHEP- or NAACLS-accredited program in Cytotechnology (CT), Medical Technology/Medical Laboratory Science (MT/MLS), Diagnostic Molecular Science (DMS) or other approved laboratory discipline.
Individuals applying to the Advanced MS program in Biotechnology must show evidence of an undergraduate curriculum that is equivalent to the BS 3+1 Biotechnology curriculum offered at Thomas Jefferson University.
- This program can be completed in one year full-time or two years part-time. Programs are offered in biotechnology, cytotechnology and medical laboratory science.

Students must complete specific prerequisite credits prior to matriculation. Academic courses from accredited institutions with a grade of C or above (not a C-) and CLEP scores are acceptable for transfer.

**Prerequisite Course Requirements**

*For 2-Year BS, 1-Year BS, Combined BS/MS and Accelerated Professional MS Program*

<table>
<thead>
<tr>
<th>Prerequisite Requirements</th>
<th>2+2 BS Program credits</th>
<th>3+1 BS Program credits</th>
<th>3+2 Entry-Level BS/MS Program credits</th>
<th>Professional MS Program credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology I</td>
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<td>4</td>
<td>4</td>
<td>4</td>
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<tr>
<td>Biology II</td>
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<td>4</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Chemistry I</td>
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<td>4</td>
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<tr>
<td>Chemistry II</td>
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<td>4</td>
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<td>Anatomy &amp; Physiology I</td>
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<td>4</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Anatomy &amp; Physiology II</td>
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<td>4</td>
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<td>Organic Chemistry</td>
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<td>Statistics</td>
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<tr>
<td>English²</td>
<td>6</td>
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<tr>
<td>Electives</td>
<td>18</td>
<td>33</td>
<td>45</td>
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</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>55</strong></td>
<td><strong>70</strong></td>
<td><strong>82</strong></td>
<td><strong>37</strong></td>
</tr>
</tbody>
</table>

1 8 credits of A&P I and II or 4 credits of Human Anatomy and 4 credits of Human Physiology. Labs must be included.

2 Must be writing intensive courses

**Strongly Recommend Science Courses w/ Lab for MLS track applicants**: Analytic Chemistry/Biochemistry, Molecular Biology

*Failure to take the “Strongly Recommended Science Courses” would result in the inability to obtain a CLS/MLS License in several states.

**Strongly Recommend Science Courses w/ Lab for Cytotechnology track applicants**: Biochemistry

*NOTE: Graduates of associate degree MLT, CLT, BT or other similar programs may transfer technician coursework credits to satisfy the biological/chemical sciences and elective prerequisites.*
Nursing Information

What do Nurses do?
Registered nurses (RNs) work to promote health, prevent diseases, and help patients cope with illness. They are advocates and health educators for patients, families and communities. When providing direct patient care, they observe, assess and record symptoms, reactions, and progress; assist physicians during treatments and examinations; administer medications; and assist in convalescence and rehabilitation. Registered nurses develop and manage nursing care plans; instruct patients and their families in proper care; and help individuals and groups take steps to improve or maintain their health.

Where do they work?
Nurses can work in a variety of settings such as hospitals, doctor’s offices, home health, nursing homes, public health settings, occupational health or industrial facilities.

What is the job outlook?
Based upon information from the Bureau of Labor Statistics, hospitals and healthcare facilities are continuing to report a nursing shortage. Employment of registered nurses is expected to grow much faster than average for all occupations through 2016, and, because the occupation is very large, many new jobs will result. In fact, registered nurses are projected to create the second largest number of new jobs among all occupations. Most rapid growth is expected in hospitals, outpatient facilities, rehabilitation and chemotherapy. Employment in home healthcare is expected to grow the fastest.

As the largest health care occupation, registered nurses held about 2.4 million jobs in 2004. About 3 out of 5 jobs were in hospitals, in inpatient and outpatient departments. Others worked in offices of physicians, nursing care facilities, home health care services, employment services, government agencies, and outpatient care centers. The remainder worked mostly in social assistance agencies and educational services, public and private. About 1 in 4 RNs worked part time.

What do nurses earn?
The average salary for Jefferson nursing class of 2015 graduates was $67,036, not including sign on bonuses (salary range $35,000-$150,000). Many graduates had at least 2 job offers to choose from before accepting their first position.

Who can I contact for more information about Nursing?

American Nurses Association
8515 Georgia Avenue
Suite 400
Silver Springs, MD 20910-3492
Phone: 1-800-274-4ANA (4262)
Web site: www.nursingworld.org

American Association of Colleges of Nursing
1 Dupont Circle NW
Suite 530
Washington, DC 20036
Phone: 202-463-6930
Web site: http://www.aacn.nche.edu

National League for Nursing,
61 Broadway, 33rd Floor
New York, NY 10006
Phone: 212-363-5555
Web site: http://www.nln.org

National Council of State Boards of Nursing
111 E. Wacker Dr, Suite 2900
Chicago, IL 60601-4277
Phone: 312-525-3600
Web site: http://www.ncsbn.org
Nursing Programs

Traditional Prelicensure BSN/PACE:
- For non-nurses who wish to pursue a Bachelor of Science degree in Nursing (BSN)
- A 2-year (4 semester) program completed on a full-time basis, only starts in the fall semester (late Aug/early Sept)
- PACE applicants apply during their senior year in high school and are then required to enroll in a regionally accredited institution for their prerequisite coursework

FACT-1 Year Nursing Program:
- Intensive option for non-nurses who hold a bachelor’s degree in a field other than nursing
- BSN portion of the program is completed in 12 consecutive months of full-time study
- Available as a Pre-fall (May) start at the Center City campus and a Fall semester start at the Abington-Dixon campus
- Upon completion of the BSN and successfully passing the national licensure examination, students may automatically matriculate into a MSN specialty.*/**
  o Admission to the MSN is valid for up to two years from completing the BSN
  o The MSN can be completed full-time (15 months) or part-time (up to 5 years)

* Experience is required to apply for the neonatal and adult gerontology acute care nurse practitioner specialties.
** International students should take note of special program limitations.

FACT-2 Year Nursing Program:
- A two year option for non-nurses who hold a bachelor’s degree in a field other than nursing
- BSN portion of the program is completed in two academic years, or 4 semesters of full-time study
- Available as a fall semester start at both Center City and Abington-Dixon campuses
- Upon completion of the BSN and successfully passing the national licensure examination, students may automatically matriculate into a MSN specialty.*/**
  o Admission to the MSN is valid for up to two years from completing the BSN
  o The MSN can be completed full-time (15 months) or part-time (up to 5 years)

* Experience is required to apply for the neonatal and adult gerontology acute care nurse practitioner specialties.
** International students should take note of special program limitations.

Masters of Science in Nursing (MSN): *
- For BSN or Nurse Doctorate (ND) students from an accredited school
- 36 credit programs are organized around a core, support and specialty clinical curriculum
- The programs can be completed in 15 months on a full-time basis or up to five years on a part-time basis
- Students can take all MSN core courses online
  * State restrictions apply, applicants are encouraged to inquire before applying.
Entry Level Nurse Anesthesia DNP Program:
- For BSN or Nurse Doctorate (ND) students from an accredited school
- The program is nine semesters (36 months) and is a full time only curriculum totaling 92 credits
- Students gain over 2,000 hours of clinical experience and administer more than 600 anesthetics to patients undergoing a variety of surgical/diagnostic procedures
- Program starts in Fall term only
- Competitive program with only 26 available seats

Doctor of Nursing Practice (DNP):
- For MSN students from an accredited school
- BSN-DNP option available, Entry Level Nurse Anesthesia DNP Program
- All DNP courses are online

Admission Requirements

- **Traditional Prelicensure BSN**: students must complete 59 specific prerequisite credits prior to entering the program
- **FACT-1 Year and FACT-2 Year**: students must have a bachelor’s degree in a non-nursing field and 65 specific prerequisite credits prior to entering the program
- **Entry Level Nurse Anesthesia DNP program**: the most competitive applicants have more than 1 year of critical care ICU experience.

*Applicants with a BSN GPA of under a 3.2 will be required to enroll in two non-matric core MSN courses at Jefferson to apply.*
## Prerequisite Course Requirements

### Traditional Prelicensure BSN/PACE

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anatomy and Physiology w/labs</td>
<td>8</td>
</tr>
<tr>
<td>Microbiology w/lab</td>
<td>4</td>
</tr>
<tr>
<td>Chemistry I w/lab **</td>
<td>4</td>
</tr>
<tr>
<td>Chemistry II or Biochemistry **</td>
<td>4</td>
</tr>
<tr>
<td>General (or Intro) Psychology</td>
<td>3</td>
</tr>
<tr>
<td>Developmental Psychology or Child Psychology</td>
<td>3</td>
</tr>
<tr>
<td>Abnormal Psychology</td>
<td>3</td>
</tr>
<tr>
<td>Sociology (Intro or General)</td>
<td>3</td>
</tr>
<tr>
<td>English Composition I</td>
<td>3</td>
</tr>
<tr>
<td>English (Comp. II, Literature or Speech)</td>
<td>3</td>
</tr>
<tr>
<td>College Algebra or Higher</td>
<td>3</td>
</tr>
<tr>
<td>Statistics</td>
<td>3</td>
</tr>
<tr>
<td>Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>Selective ***</td>
<td>6</td>
</tr>
<tr>
<td>American culture or ethnic studies, logic, philosophy, ethics, critical thinking, or cultural anthropology</td>
<td>6</td>
</tr>
<tr>
<td>Electives</td>
<td>6</td>
</tr>
<tr>
<td>Total prerequisite credits</td>
<td>59</td>
</tr>
</tbody>
</table>

### FACT-1 Year & FACT-2 Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anatomy and Physiology w/ labs</td>
<td>8</td>
</tr>
<tr>
<td>Microbiology w/ lab</td>
<td>4</td>
</tr>
<tr>
<td>Chemistry I w/ lab **</td>
<td>4</td>
</tr>
<tr>
<td>Chemistry II or Biochemistry w/ lab **</td>
<td>4</td>
</tr>
<tr>
<td>Statistics</td>
<td>3</td>
</tr>
<tr>
<td>Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>Elective credits from undergraduate degree</td>
<td>39</td>
</tr>
<tr>
<td>Total prerequisites</td>
<td>65</td>
</tr>
</tbody>
</table>

### Notes:

1. All prerequisite science and math courses must have been completed within 10 years of enrollment at Jefferson.
2. Courses must be completed with a course grade of C or better; a C- or below, or courses taken pass/fail, will not be eligible for transfer.
3. Acceptable elective courses are theory-based, not performance-based, coursework. For example; we will accept Introduction to Music but not Piano, and we will accept Introduction to Art but not Painting. We will not accept coursework that is remedial or review in nature, Physical Education or Technical courses. Coursework may include Arts, Humanities, Social Science, Foreign Languages, Science, Math, Business, and History.

** General Chemistry accepted.

*** Please note that American History, Western Civilization and Religious Studies are NOT appropriate Selective credits
Nurse Practitioner
Vs.
Physician Assistant

Nurse Practitioners are licensed, registered nurses who have received advanced training for the delivery of primary care. The majority of training programs lead to a master’s of nursing degree. They are able to diagnose and treat common acute illnesses and injuries. Nurse Practitioners are regulated at the state level and have a scope of practice that is independent of a physician. In most states, they can dispense medications to patients.

Physician Assistants are certified healthcare professionals who provide primary care under the supervision of a physician. The majority of training programs lead to a master’s degree. They are able to diagnose and to treat minor injuries. Physician Assistants are regulated at the state level and are required by every state to always be under the supervision of a physician. In most states, they can dispense medications to patients.

For more information, please visit the following website: http://www.pg2pa.org/PA_NP.html
Occupational Therapy Information- Center City, Philadelphia Campus

What is Occupational Therapy?

Occupational therapy uses everyday activities as the means of helping people to achieve independence. The term occupation refers to activities that are meaningful to the individual within the environments in which the person lives.

Therapists work with individuals who have conditions that are mentally, physically, developmentally, or emotionally disabling, and help them to develop, recover, or maintain daily living and work skills. They not only help clients improve basic motor functions and reasoning abilities, but also compensate for permanent loss of function. Their goal is to help clients have independent, productive, and satisfying lives.

For the person with a physical disability, the first focus is on performing critical daily activities, such as dressing, grooming, bathing, and eating. Once these skills are mastered, the occupational therapy program is built around the skills needed to perform a person’s daily responsibilities, such as caring for a home and family, participating in education, or reaching and holding equipment.

The goals for a client with mental illness are also based on the ability to function independently. In treating mental or emotional problems, the therapy program often includes practice in managing time, working productively with others, and enjoying leisure.

Where do they work?

Occupational therapists work in the following types of settings: hospitals, academic health centers, schools, private practice, the military, colleges and universities, outpatient rehabilitation facilities, adult day-care programs, medical centers, skilled nursing facilities, rehabilitation centers, home health agencies, government agencies, sub-acute care hospitals, assisted living facilities and state hospitals.

What is the job outlook?

Based upon information from the Bureau of Labor Statistics, employment of occupational therapists is expected to increase much faster than the average for all occupations through the year 2018, due to anticipated growth in demand for rehabilitation and long-term care services. The growing number of older Americans who may need specialized services and the ever expanding application of occupational therapy to various disabilities should contribute significantly to an increase in demand and the creation of as many as 15,000 new jobs before the end of the century. Areas of greatest opportunity include community settings and under-served geographic areas.

What do OTs earn?

The average salary for Jefferson occupational therapy class of 2015 graduates was $63,264 (salary range $48,000 – 83,200). In 2016 100% of the occupational therapy students had jobs following graduation or their last clinical affiliation. Many had between 2 and 3 job offers to choose from before accepting their first position.

Who can I contact for more information about Occupational Therapy?

American Occupational Therapy Association
4720 Montgomery Lane
PO Box 31220
Bethesda, MD 20824-1220
Phone: 301.652.2682 or 800.729.2682
Web site: www.aota.org
Occupational Therapy Programs

BSMS OT Degree:
- Center City, Philadelphia Campus
- Full-time, 3 year program
- Begins in September only
- Traditional, transfer applicants will apply and submit all documents via OTCAS, the National Occupational Therapy Application Service, at www.otcas.org. A supplemental Jefferson application is required and sent to applicants after their OTCAS application has been verified and received by Jefferson
- PACE high school applicants apply via TJApp

Master of Science in Occupational Therapy (MSOT) Degree:
- Center City, Philadelphia Campus
- Full-time, 2 year program
- Begins in September only
- This program is designed for those students who have a bachelor's degree in a field other than occupational therapy or –
- Complete the 3+2 program with Jefferson or one of our partner institutions: Villanova University, Saint Joseph’s University, Muhlenberg College, Immaculata University, the University of Delaware, Messiah College or Juniata College.
- Traditional students will apply and submit all documents via OTCAS, the National Occupational Therapy Application Service, at www.otcas.org. A supplemental Jefferson application is also required.
- Accelerated MSOT 3+2 Applicants will apply directly to our partner schools or Jefferson’s Undergraduate Admissions Office. Please see each partner school’s admissions requirements and deadlines.
- For more information on the MSOT, Hybrid, East Falls, Philadelphia Program please visit: http://www.philau.edu/ot/index.html

Doctorate in Occupational Therapy (OTD) Degree:
- Center City, Philadelphia Campus
- Full-time, 3 year program
- Begins in September only
- This program is designed for those students who have, or will have, a bachelor's degree in a field other than occupational therapy
- Applications will apply and submit all documents via OTCAS, the National Occupational Therapy Application Service, at www.otcas.org. A supplemental Jefferson application is also required.

Post Professional Occupational Therapy Doctorate (PPOTD):
- For students who possess at least a Bachelor of Science Degree in Occupational Therapy
- 100% Online format; full or part-time.

Occupational Therapy Certificates for Advanced Practice (APC):
A four course graduate level curriculum designed to provide the learner with advanced knowledge and skills in a particular area of practice

These courses can be applied to the PPOTD program should students choose to continue on with their education

100% Online format

Admission Requirements
Admissions requirements vary by program. Please visit our website at www.jefferson.edu/admissions for current information.

Entry Level OT Programs: Masters or Doctorate?

Both programs are excellent, as the MSOT curriculum is designed to prepare you to enter practice with the abilities to practice in most any clinical setting.

Our programs are set up so students graduate with the skills to enter the clinical environment--from pediatrics, adults, mental health and more.

The OTD (entry level) prepares you to practice beyond a generalist level. Essentially, this means that upon graduation, you will be equipped with the skills and tools to practice as a clinician, possibly teach, serve in a leadership and/or administrative capacity within an organization, or even conduct research. The curriculum, and especially the third year of the OTD program, consists of a strong faculty mentored experience that commences at the close of your first year of the curriculum.

There is also a faculty mentored "residency" experience that consists of a full time 16 week experiential that is conducted in a traditional and/or emerging practice setting. The residency is a "third" fieldwork experience that goes beyond the required two (2) level II, 3 month experiences that is required for the EMOT program.

We also suggest you look at www.aota.org as there is information there that assists students in distinguishing between the two gates of entry.

Please note: our OTD program is currently in the candidacy stage of accreditation, by the Accreditation Council for Occupational Therapy Education (ACOTE).

Accelerated MSOT 3+2 Programs: The following institutions have 3+2 Articulated Curriculum Agreements with Jefferson for the Master of Science in Occupational Therapy Program. Under these agreements students will earn both the Bachelor’s degree and the Master of Science in Occupational Therapy in 5 years after graduating from high school. Below you will find information about each agreement for high school students.

Please note that the information detailed below is valid for 3+3 cohorts which are slated to enroll at Jefferson through 2020.
<table>
<thead>
<tr>
<th>College</th>
<th>Application Requirements &amp; Deadline</th>
<th>Curriculum Options</th>
<th>Curriculum/Professional Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Immaculata University</td>
<td>- Official high school transcripts&lt;br&gt;- SAT scores&lt;br&gt;- Essay&lt;br&gt;- Activities Resume (including OT hours)&lt;br&gt;- Application fee&lt;br&gt;- December 15th deadline</td>
<td>- 3 – year B.S. in Exercise Science/Pre-OT&lt;br&gt;- Credits earned during the first year at JEFFERSON will be counted toward the completion of the Immaculata Univ. B.S. degree</td>
<td>- Students must earn at least a 3.0 cum GPA and 3.0 science prerequisite GPA&lt;br&gt;- A grade of at least a ‘C’ is required to transfer prerequisite coursework to JEFFERSON, “B” is preferred&lt;br&gt;- 50 hrs OT shadowing, in at least 2 settings</td>
</tr>
<tr>
<td>Juniata College</td>
<td>- Official high school transcripts&lt;br&gt;- SAT scores&lt;br&gt;- Essay&lt;br&gt;- Activities Resume (including OT hours)&lt;br&gt;- Application fee&lt;br&gt;- Juniata College deadline</td>
<td>- 3 – year B.S. in selected Juniata College track&lt;br&gt;- Credits earned during the first year at JEFFERSON will be counted toward the completion of the Juniata College B.S. degree</td>
<td>- Students must earn at least a 3.0 cum GPA and 3.0 science prerequisite GPA&lt;br&gt;- A grade of at least a ‘C’ is required to transfer prerequisite coursework to JEFFERSON, “B” is preferred&lt;br&gt;- 50 hrs OT shadowing, in at least 2 settings</td>
</tr>
<tr>
<td>Messiah College</td>
<td>- Official high school transcripts&lt;br&gt;- SAT scores&lt;br&gt;- Essay&lt;br&gt;- Activities Resume (to include OT hours)&lt;br&gt;- Application fee&lt;br&gt;- December 15th deadline</td>
<td>- 3 – year B.S. in Biopsychology or Health and Exercise Science curricular track&lt;br&gt;- Credits earned during the first year at JEFFERSON will be counted toward the completion of the Villanova University’s B.S. degree in Biology or Psychology</td>
<td>- Students must earn at least a 3.0 cum GPA and 3.0 science prerequisite GPA&lt;br&gt;- A grade of at least a ‘C’ is required to transfer prerequisite coursework to JEFFERSON, “B” is preferred&lt;br&gt;- 50 hrs OT shadowing, in at least 2 settings</td>
</tr>
<tr>
<td>Muhlenberg College</td>
<td>- Official high school transcripts&lt;br&gt;- SAT scores&lt;br&gt;- Essay&lt;br&gt;- Activities Resume (including OT hours)&lt;br&gt;- Application fee&lt;br&gt;- January 1st deadline</td>
<td>- 3 – year B.A. in Psychology&lt;br&gt;- Credits earned during the first year at JEFFERSON will be counted toward the completion of the Muhlenberg College’s B.A. degree</td>
<td>- Students must earn at least a 3.0 cum GPA and 3.0 science prerequisite GPA&lt;br&gt;- A grade of at least a ‘C’ is required to transfer prerequisite coursework to JEFFERSON, “B” is preferred&lt;br&gt;- 50 hrs OT shadowing, in at least 2 settings</td>
</tr>
<tr>
<td>Saint Joseph's University</td>
<td>- Official high school transcripts&lt;br&gt;- SAT scores&lt;br&gt;- Personal Statement&lt;br&gt;- 1 letter of reference&lt;br&gt;- Application fee&lt;br&gt;- Early Action Application Deadline of November 15th</td>
<td>- 3 – year B.S. in Biology or Interdisciplinary Health Services&lt;br&gt;- Credits earned during the first year at JEFFERSON will be counted toward the completion of the SJU University’s B.S. degree</td>
<td>- Students must earn at least a 3.0 cum GPA and 3.0 science prerequisite GPA&lt;br&gt;- A grade of at least a ‘C’ is required to transfer prerequisite coursework to JEFFERSON, “B” is preferred&lt;br&gt;- 50 hrs OT shadowing, in at least 2 settings</td>
</tr>
<tr>
<td>University</td>
<td>- Official high school transcripts&lt;br&gt;- SAT Reasoning Test scores&lt;br&gt;- Admissions Essay with</td>
<td>- 3 – year B.S. in Health Studies&lt;br&gt;- Credits earned during the first year at JEFFERSON will be counted toward the</td>
<td>- Students must earn at least a 3.0 cum GPA and 3.0 science prerequisite GPA&lt;br&gt;- A grade of at least a ‘C’ is required to transfer prerequisite coursework to JEFFERSON, “B” is preferred</td>
</tr>
</tbody>
</table>

32 Thomas Jefferson University
| Thomas Jefferson University | Delaware | - reference to OT interest  
- letters of reference  
- Application fee  
- January 15th deadline | - completion of the University of Delaware B.S. in Health Sciences degree | -50 hrs OT shadowing, in at least 2 settings |
|---------------------------|----------|-------------------------------------------------|-------------------------------------------------|-------------------------------------------------|
| Villanova University | - Official high school transcripts  
- SAT scores  
- Essay  
- Activities Resume (to include OT hours)  
- Application fee  
- November 1st deadline | - 3 year B.S. in Biology, B.S. in Psychology, or B.A in Psychology curricular track  
- Credits earned during the first year at JEFFERSON will be counted toward the completion of the Villanova University’s B.S. degree in Biology or Psychology or a B.A. degree in Psychology | - Students must earn at least a 3.0 cum GPA and 3.0 science prerequisite GPA  
- A grade of at least a ‘C’ is required to transfer prerequisite coursework to JEFFERSON, “B” is preferred  
- 50 hrs OT shadowing, in at least 2 settings |
| Penn State University - Abington | - Students apply to the master’s in OT at TJU the beginning of their junior year at Abington.  
- The minimum criteria required is successful completion of the first year of the articulated curriculum with a 3.3 Penn State GPA and with no prerequisite course grade lower than a “C,” a letter of recommendation from their Penn State faculty adviser, and a favorable review from the interview committee. Prior to submitting the (cont.) application, students must have completed a minimum of 24 hours of OT shadowing/volunteer experience. This experience is a major component of the admissions statement and interview for successful applicants. | - 3 yrs Bachelors in Psychology and Social Sciences | - Students must earn at least a 3.0 cum GPA and 3.0 science prerequisite GPA  
- A grade of at least a ‘C’ is required to transfer prerequisite coursework to JEFFERSON, “B” is preferred  
- 50 hrs OT shadowing, |
Prerequisite Course Requirements

**BSMS in Occupational Therapy**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anatomy &amp; Physiology I w/ Lab*</td>
<td>4</td>
</tr>
<tr>
<td>Anatomy &amp; Physiology II w/ Lab*</td>
<td>4</td>
</tr>
<tr>
<td>Developmental or Lifespan Psychology</td>
<td>3</td>
</tr>
<tr>
<td>(not one specific age level)</td>
<td></td>
</tr>
<tr>
<td>Abnormal Psychology</td>
<td>3</td>
</tr>
<tr>
<td>Sociology</td>
<td>3</td>
</tr>
<tr>
<td>Cultural Anthropology**</td>
<td>3</td>
</tr>
<tr>
<td>English/Writing</td>
<td>3</td>
</tr>
<tr>
<td>Statistics</td>
<td>3</td>
</tr>
<tr>
<td>Electives: Humanities, Arts, Math, Social, or Natural Sciences***</td>
<td>29</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>58</td>
</tr>
</tbody>
</table>

* 8 credits of A&P I and II or 4 credits of Human Anatomy and 4 credits of Human Physiology required. Labs must be included.

** If a student’s institution does not offer Cultural Anthropology, a course that covers multiple cultures and/or ethnicities from a broad perspective based in anthropology or the social sciences will be accepted. We encourage students to contact the Admissions Office to confirm their course will meet the prerequisite requirement.

*** Courses cannot be remedial in nature, physical education, or technical courses. Electives may include arts, humanities, social sciences, sciences, and foreign language courses.

**MSOT AND OTD Programs**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anatomy &amp; Physiology I w/ Lab*</td>
<td>4</td>
</tr>
<tr>
<td>Anatomy &amp; Physiology II w/ Lab*</td>
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<td></td>
</tr>
<tr>
<td>Abnormal Psychology</td>
<td>3</td>
</tr>
<tr>
<td>Sociology</td>
<td>3</td>
</tr>
<tr>
<td>Cultural Anthropology**</td>
<td>3</td>
</tr>
<tr>
<td>English/Writing</td>
<td>3</td>
</tr>
<tr>
<td>English/Writing</td>
<td>3</td>
</tr>
<tr>
<td>Statistics</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>29</td>
</tr>
</tbody>
</table>

* 8 credits of A&P I and II or 4 credits of Human Anatomy and 4 credits of Human Physiology required. Labs must be included.
If a student’s institution does not offer Cultural Anthropology, a course that covers multiple cultures and/or ethnicities from a broad perspective based in anthropology or the social sciences will be accepted. We encourage students to contact the Admissions Office to confirm their course will meet the prerequisite requirement.

Physical Therapy Information

What is a Physical Therapist?

Physical therapists provide services that help restore function, improve mobility, relieve pain, and prevent or limit permanent physical disabilities of patients suffering from injuries or disease. They restore, maintain, and promote overall fitness and health.

Physical therapists examine patients’ medical histories, then test and measure their strength, range of motion, balance and coordination, posture, muscle performance, respiration, and motor function. They also determine patients’ ability to be independent and reintegrate into the community or workplace after injury or illness. Next, they develop treatment plans describing the treatment strategy, its purpose, and the anticipated outcome.

Treatment often includes exercise for patients who have been immobilized and lack flexibility, strength, or endurance. They encourage patients to use their own muscles to further increase flexibility and range of motion before finally advancing to other exercises improving strength, balance, coordination, and endurance. Their goal is to improve how an individual functions at work and home.

Physical therapists also use electrical stimulation, hot packs or cold compresses, and ultrasound to relieve pain and reduce swelling. They may use traction or deep-tissue massage to relieve pain. Physical therapists also teach patients to use assistive and adaptive devices such as crutches, prostheses, and wheelchairs. They may show patients exercises to do at home to expedite their recovery.

Where do they work?

Although many physical therapists practice in hospitals, more than 70 percent practice in private physical therapy offices, community health centers, industrial health centers, sports facilities, rehabilitation centers, nursing homes, home health agencies, schools or pediatric centers; work in research institutions; or teach in colleges and universities.

What is the job outlook?

According to a report by Vector Research commissioned by the American Physical Therapy Association, physical therapists are expected to be among the fastest growing occupations through the year 2018.

What do PTs earn?

The average salary for Jefferson physical therapy class of 2015 graduates was $66,461 (salary range $50,000 - $93,500). 100% of the physical therapy students who responded to our survey had jobs following their graduation or their last clinical affiliation. Many had at least 2 job offers to choose from before accepting their first position.

Who can I contact for more information about Physical Therapy?

American Physical Therapy Association
1111 N. Fairfax Street
Alexandria, VA 22314-1488
http://www.apta.org

American Physical Therapy Association
1111 N. Fairfax Street
Alexandria, VA 22314-1488
http://www.apta.org
Physical Therapy Program

Doctor of Physical Therapy (DPT) Degree Program:

- Full-time, 2 year, 9 month program
- Students must have a baccalaureate degree in any field.
- or
- Complete the 3+3 program with Penn State Abington, Villanova University, Saint Joseph’s University, Elizabethtown College, Muhlenberg College, Immaculata University*, or Juniata College.
- All non 3+3 students will apply and submit all documents via PTCAS, the National Physical Therapy Application Service, at www.ptcas.org.
- A Jefferson supplemental application is also required.
- Must successfully complete the following prerequisite courses prior to matriculation

*3+3 program is on hiatus as of 1/30/2017

DPT Prerequisite Course Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anatomy and Physiology I, II†</td>
<td>8</td>
</tr>
<tr>
<td>General Chemistry I, II</td>
<td>8</td>
</tr>
<tr>
<td>General Biology I, II</td>
<td>8</td>
</tr>
<tr>
<td>Physics I, II‡</td>
<td>8</td>
</tr>
<tr>
<td>College Algebra/Trigonometry, Precalculus or Calculus</td>
<td>3</td>
</tr>
<tr>
<td>Statistics</td>
<td>3</td>
</tr>
<tr>
<td>English Composition/Writing</td>
<td>6</td>
</tr>
<tr>
<td>Philosophy/Ethics</td>
<td>3</td>
</tr>
<tr>
<td>Psychology³</td>
<td>6</td>
</tr>
<tr>
<td>Sociology/Cultural course*</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>56</strong></td>
</tr>
</tbody>
</table>

† 8 credits of A&P I and II or 4 credits of Human Anatomy and 4 credits of Human Physiology.
‡ Algebra or Calculus-based
³ Introduction or General Psychology, Abnormal Psychology, Developmental Psychology, Child Psychology, or Health Psychology.
⁴ 3 credits of Sociology or a Cultural course. Cultural course cannot be history or religion-based.

*All science courses must include laboratory.
*There is a 10-year limit on the transferability of science credits.
*Transfer credit will be awarded for coursework taken at an accredited college or university from which a grade of “C” or better has been achieved.
The Following Institutions have 3+3 Articulated Curriculum Agreements with Jefferson for the Doctor of Physical Therapy Program. Under these agreements students will earn both the Bachelor’s degree and the Doctorate in Physical Therapy in 6 years after graduating from high school. Please note that the information detailed below is valid for 3+3 cohorts which are slated to enroll at Jefferson through 2020.

<table>
<thead>
<tr>
<th>College</th>
<th>Application Requirements &amp; Deadline</th>
<th>Curriculum Options</th>
<th>Curriculum Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elizabethtown College</td>
<td>-Official high school transcripts -SAT scores -Personal Statement describing PT interest -2 references -Application fee -December 15th deadline</td>
<td>-3-year B.S. in Biology curricular track -Credits earned during the first year at JEFFERSON will be counted toward the completion of the Elizabethtown College’s B.S. degree in Biology</td>
<td>-Students must earn at least a 3.0 GPA both overall and in the prerequisite sciences -A grade of at least a ‘C’ is required to transfer prerequisite coursework to JEFFERSON</td>
</tr>
<tr>
<td>Juniata College</td>
<td>-Official high school transcripts -SAT scores -Essay -Activities Resume (including PT hours) -Application fee -Juniata College deadline</td>
<td>-3-year B.S. in selected Juniata College track - Credits earned during the first year at JEFFERSON will be counted toward the completion of the Juniata College B.S. degree</td>
<td>-Students must earn at least a 3.0 GPA both overall and in the prerequisite sciences -A grade of at least a ‘C’ is required to transfer prerequisite coursework to JEFFERSON</td>
</tr>
<tr>
<td>Muhlenberg College</td>
<td>-Official high school transcripts -SAT scores -Essay -Activities Resume (including PT hours) -Application fee -January 1st deadline</td>
<td>-3-year B.S. in Biology or Natural Science track or the A.B. in Dance, Psychology or Sociology - Credits earned during the first year at JEFFERSON will be counted toward the completion of the Muhlenberg College’s B.S. or A.B. degree</td>
<td>-Students must earn at least a 3.0 GPA both overall and in the prerequisite sciences -A grade of at least a ‘C’ is required to transfer prerequisite coursework to JEFFERSON</td>
</tr>
<tr>
<td>Penn State Abington</td>
<td>-Official high school transcripts -SAT scores -Personal Statement -2 letters of reference -Application fee -November 30th deadline</td>
<td>-3-year B.S. in Science with the Life Sciences Option track -Credits earned during the first year at JEFFERSON will be counted toward the completion of the PSU-Abington University’s B.S. degree</td>
<td>-Students must earn at least a 3.0 GPA both overall and in the prerequisite sciences -A grade of at least a ‘C’ is required to transfer prerequisite coursework to JEFFERSON</td>
</tr>
</tbody>
</table>
| **Saint Joseph’s University** | - Official high school transcripts  
- SAT scores  
- Personal Statement  
- 1 letter of reference  
- Application fee  
- Early Action Deadline of November 15<sup>th</sup> | - 3-year B.S. in Biology or Interdisciplinary Health Services  
- Credits earned during the first year at JEFFERSON will be counted toward the completion of the SJU University’s B.S. degree | - Students must earn at least a 3.0 GPA both overall and in the prerequisite sciences  
- A grade of at least a ‘C’ is required to transfer prerequisite coursework to JEFFERSON |
| **Villanova University** | - Official high school transcripts  
- SAT scores  
- Essay  
- Activities Resume (to include PT hours)  
- Application fee  
- November 1st deadline | - 3-year B.S. in Biology curricular track or a B.S. in Psychology  
- Credits earned during the first year at JEFFERSON will be counted toward the completion of the Villanova University’s B.S. degree in Biology or B.S. degree in Psychology | - Students must earn at least a 3.0 GPA both overall and in the prerequisite sciences  
- A grade of at least a ‘C’ is required to transfer prerequisite coursework to JEFFERSON |
Occupational Therapy
vs.
Physical Therapy

Occupational Therapy is the use of self-care, work/productive activities, and play/leisure activities to increase independent function, enhance development, and prevent disability. Focusing on adaptation, OT involves adapting tasks and the environment to maximize independence and quality of life. The term occupation refers to activities that are meaningful to the individual within the environments in which the person lives.

Physical Therapy is the use of exercise, cardiovascular endurance training, and training in activities of daily living to assess joint motion, muscle strength and endurance, and function of heart and lungs, among other responsibilities. Focusing on a sense of cure, PT is used to help restore function, improve mobility, relieve pain, and prevent or limit permanent physical disabilities of patients suffering from injuries or disease.
Couple and Family Therapy

As families deal with the challenges of stress, changing family lifecycles, communicating across generations, and the realities of blended families; they seek help from marriage and family therapists. Whether treating emotional disorders, substance abuse, sexual abuse, juvenile offenders, or couples in crisis, Jefferson-trained therapists aim to help people understand, respect, and improve the quality of their relationships. In a culture that focuses increasingly on healthy living and family life, opportunities for marriage and family therapists are expected to grow.

Jefferson’s Couple and Family Therapy master’s degree program:

- Is a partnership between Thomas Jefferson University and the Council for Relationships (CFR), one of the oldest and most respected couple and family training programs in the country.
- Is fully accredited through COAMFTE
- Provides unsurpassed clinical care, education, research, and training.
- Is offered full-time and can be completed in two years.
- Graduates will have credentials for U.S. licensure
- Is also the Division of Couple and Family Studies, Department of Psychiatry and Human Behavior, Jefferson Medical College.

Jefferson’s Couple and Family Therapy students:

- study with faculty members who are CFR therapists and certified by the American Association of Marriage and Family Therapy (AAMFT)
- are exposed to a variety of educational programs at CFR
- Benefit from the variety of clinical locations available from the 14 CFR locations and multitude of sites throughout the Jefferson Health System.

Requirements

- Bachelor’s degree in any field
- 3 credits each of Introductory Psychology, Abnormal Psychology and Statistics
- Undergraduate gpa of at least a 3.0
- Work-related experience will be considered

What do Couple and Family Therapists earn?

The average salary for Jefferson’s Couple and Family Therapy class of 2016 graduates was $49,170. 100% of the couple and therapy students who responded to our survey had jobs following their graduation.

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Pharmacy Information

What is Pharmacy?
Pharmacy links the health sciences with the chemical sciences, and it is charged with ensuring the safe use and distribution of medication. The scope of pharmacy practice includes traditional roles such as compounding and dispensing medications on the orders of physicians, as well as modern services related to patient care, including clinical services, reviewing medications for safety and efficacy, and providing drug information. Pharmacists are experts on drug therapy and are the primary health professionals who optimize medication use to provide patients with positive health outcomes. Pharmacy revolves around people and medicines with special emphasis on the manufacturing of medicines, their supply, appropriate use and effects. The ultimate concern of a pharmacist is to ensure the patient receives the appropriate medications and benefits from their proper use. Pharmacy is an evolving profession that offers excellent career prospects. The work is interesting and varied and offers the opportunity to join the healthcare team in safeguarding the nation's health in many working environments and geographic locations.

Where do Pharmacy professionals work?
There were approximately 230,000 pharmacists in 2004. About 61 percent work in community pharmacies that are independently owned or part of a drugstore chain, grocery store, department store, or mass merchandiser. Most community pharmacists are salaried employees, but some are self-employed owners. About 24 percent of salaried pharmacists work in hospitals. Others work in clinics, mail-order pharmacies, pharmaceutical wholesalers, home health care agencies, or the Federal Government.

What is the job outlook?
Very good employment opportunities are expected for pharmacists over the 2004-14 period as the number of job openings created by employment growth and the need to replace pharmacists who leave the occupation are expected to exceed the number of pharmacy graduates. Enrollments in pharmacy programs are rising as high salaries and good job prospects attract students. Despite this increase in enrollments, job openings should still be more numerous than those seeking employment.

Employment of pharmacists is expected to grow faster than the average for all occupations through the year 2016, because of the increasing demand for pharmaceuticals, particularly from the growing elderly population. The increasing numbers of middle-aged and elderly people—who use more prescription drugs than younger people—will continue to spur demand for pharmacists in all employment settings. Other factors likely to increase the demand for pharmacists include scientific advances that will make more drug products available, new developments in genome research and medication distribution systems, increasingly sophisticated consumers seeking more information about drugs, and coverage of prescription drugs by a greater number of health insurance plans and Medicare.

What do pharmacists earn?
Average starting salaries for pharmacist continue to be very competitive. The average salary for Jefferson’s Pharmacy class of 2015 graduates was $84,052 (salary range $36,000 - $127,500).

Who can I contact for more information about Pharmacy?

Academy of Managed Care Pharmacy
100 North Pitt Street, Suite 400
Alexandria, VA 22314
800-827-2627
www.amcp.org

American Pharmacist Association
1100 15th Street NW, Suite 400
Washington, DC 20005-1707
202-628-4410
www.aphanet.org

National Community Pharmacist Association
100 Daingerfield Road
Alexandria, VA 22314.
800-544-7447
www.ncpang.org

National Pharmaceutical Association
107 Kilmayne Drive, Suite C
Cary, NC 27511
800-944-6742
www.npha.net
Pharmacy Program

Students in the JCP Doctor of Pharmacy program will develop the knowledge and expertise to practice in a range of pharmacy settings, including community or retail, hospitals, clinics, long-term care facilities, the pharmaceutical industry, pharmaceutical advertising, or publishing companies.

The JCP program is four years long and students will complete a minimum of 137 credits. The program includes both classroom instruction (didactic component) and hands-on (experiential) learning. The experiential component will encompass approximately 30% of the entire program.

In the classroom, students will engage in discussion and learn through integration and application of basic, clinical and administrative sciences. Our curriculum is designed to help students effectively collaborate with other health care professionals to ensure that all patients receive safe and effective drug therapy and to understand how pharmacists can influence the health care system and positively impact public health.

The experiential learning component of the program will begin their first semester. These experiences will take place every semester during the first 3 years of the program. During the final year of the program, students participate in full-time clinical experiences (approximately 40 hours/week) in a variety of pharmacy settings. Four of these experiences are required and include Community Pharmacy, Hospital/Health System Pharmacy, Ambulatory Care, and Inpatient/Acute Care. Students will have the opportunity to select additional elective experiences to meet their personal and/or career needs.

Admission and Application Requirements

- All students will apply and submit all documents via PharmCAS, the National Pharmacy Application Service, at www.pharmcas.org
- The PCAT is required. Scores in the 70th percentile or higher are considered competitive,
- Only PCAT scores taken within 2 years of application can be considered.
- Students should have a minimum cumulative GPA of 2.7 to be considered. A cumulative GPA of at least a 3.0 is considered competitive.
- Students should have a minimum cumulative science GPA of 2.7 to be considered. A cumulative science and math GPA of at least a 3.0 is considered competitive.
- Students must earn at least a “C” (not a “C-”) in all prerequisite courses.
- All science courses must include both lecture and lab.
- All science and math prerequisite courses cannot be older than 5 years from application to Jefferson. Exceptions to the 5 year rule include continuous enrollment that exceeds 5 years and/or continuous work experience since graduation in a laboratory/science setting.
- Students must complete the specific prerequisite credits prior to matriculation.
- An interview is required of all eligible applicants and will be initiated by TJU.
## Pharmacy Prerequisite Course Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anatomy &amp; Physiology I or Anatomy*</td>
<td>4 sem. hrs.</td>
</tr>
<tr>
<td>Anatomy &amp; Physiology II or Physiology*</td>
<td>4 sem. hrs.</td>
</tr>
<tr>
<td>Biology I*</td>
<td>4 sem. hrs.</td>
</tr>
<tr>
<td>Biology II*</td>
<td>4 sem. hrs.</td>
</tr>
<tr>
<td>General Chemistry I*</td>
<td>4 sem. hrs.</td>
</tr>
<tr>
<td>General Chemistry II*</td>
<td>4 sem. hrs.</td>
</tr>
<tr>
<td>Calculus *</td>
<td>3 sem. hrs.</td>
</tr>
<tr>
<td>Organic Chemistry I*</td>
<td>4 sem. hrs.</td>
</tr>
<tr>
<td>Organic Chemistry II*</td>
<td>4 sem. hrs.</td>
</tr>
<tr>
<td>Physics I (algebra or calculus based) *</td>
<td>4 sem. hrs.</td>
</tr>
<tr>
<td>Physics II * (algebra or calculus based)</td>
<td>4 sem. hrs.</td>
</tr>
<tr>
<td>Microbiology*</td>
<td>4 sem. hrs.</td>
</tr>
<tr>
<td>English Composition</td>
<td>3 sem. hrs.</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>9 sem. hrs.</td>
</tr>
<tr>
<td>Humanities</td>
<td>9 sem. hrs.</td>
</tr>
<tr>
<td>Total</td>
<td>68</td>
</tr>
</tbody>
</table>

* All science courses must include a lab component.
- All science and math coursework must be completed within 5 years of application to JCP.
Physician Assistant Information

What is a Physician Assistant?
A Physician Assistant (PA) is a nationally-certified, state licensed healthcare provider who practices under the supervision of a physician. PAs provide a large range of medical and surgical services and can be found in almost every healthcare setting. Under physician supervision, PAs conduct physical examinations, order and interpret diagnostic tests, diagnose and treat illnesses, provide patient counseling, assist in the operating room and prescribe medications.

Where do Physician Assistants work?
PAs can be found in physician offices, hospitals, operating rooms, long-term care facilities, emergency rooms and trauma centers. PAs practice in all areas of medicine including pediatrics, family medicine, internal medicine, general surgery and surgical subspecialties, emergency medicine, obstetrics and gynecology.

What is the job outlook?
According to the Bureau of Labor Statistics, employment of physician assistants is expected to increase 30 percent from 2014 to 2024, much faster than the average for all occupations.

As more physicians enter specialty areas of medicine, there will be a greater need for primary healthcare providers, such as physician assistants. Because physician assistants are more cost-effective than physicians, they are expected to have an increasing role in giving routine care.

Physician assistants also will be needed because the population in general is growing. More people will mean more need for healthcare specialists.

In addition, employment growth is expected because the large baby-boom generation is getting older. As they age, baby boomers will be increasingly susceptible to ailments and conditions such as heart attack, stroke, and diabetes. Physician assistants are expected to have an increasing role in keeping these people healthy and caring for them when they get ill.

Healthcare providers are also expected to use more physician assistants in new ways as states continue to allow assistants to do more procedures.

What do Physician Assistants earn?
Average starting salaries for Physician Assistants are very competitive. According the Bureau of Labor Statistics, the median annual wage and salary earnings of Physician Assistants in May 2016 was $101,480..

Who can I contact for more information about Physician Assistants?
American Academy of Physician Assistants
2318 Mill Road, Suite 1300
Alexandria, VA 22314
703-836-2272
www.aapa.org

Physician Assistant Education Association
1300 N. Washington Street, Suite 710
Alexandria, VA 22314
703-548-5538
www.paeaonline.org

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Admission and Application Requirements

- All students will apply and submit all documents via CASPA at https://caspa.liaisoncas.com
- A supplemental Jefferson application is also required. A link to access the supplemental will be sent to students after their application is verified and downloaded from CASPA.
- The GRE or MCAT is not required.
- Grades of ‘B’ are preferred and considered competitive for required prerequisite course work.
- All science courses must include both lecture and lab, total in 4 semester credits, and be taken in an on-campus format.
- All science and math prerequisite courses cannot be older than 10 years from application to Jefferson.
- Students must complete the specific prerequisite semester credits prior to matriculation.
- An interview is required of all eligible applicants and will be initiated by Jefferson.
- A conferred Bachelor’s degree from a regionally accredited institution is required.

<table>
<thead>
<tr>
<th>Course</th>
<th>Semester Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Human Anatomy &amp; Physiology I w/ Lab</td>
<td>4</td>
</tr>
<tr>
<td>Human Anatomy &amp; Physiology II w/ Lab</td>
<td>4</td>
</tr>
<tr>
<td>General Biology I w/ Lab</td>
<td>4</td>
</tr>
<tr>
<td>General Biology II w/ Lab</td>
<td>4</td>
</tr>
<tr>
<td>General Chemistry I w/ Lab</td>
<td>4</td>
</tr>
<tr>
<td>General Chemistry II w/ Lab</td>
<td>4</td>
</tr>
<tr>
<td>Microbiology w/ Lab</td>
<td>4</td>
</tr>
<tr>
<td>Statistics</td>
<td>3</td>
</tr>
<tr>
<td>Psychology</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>34</strong></td>
</tr>
</tbody>
</table>

For more information about the Physician Assistant Studies programs offered at East Falls, Philadelphia and New Jersey, please visit http://www.philau.edu/paprogram/index.html
The Jefferson College of Population Health (JCPH) is an integral part of Thomas Jefferson University. At JCPH, we prepare leaders with global vision to develop, implement, and evaluate health policies and systems that improve the health of populations and thereby enhance the quality of life.

We fulfill this mission by providing exemplary graduate academic programming, continuing education courses and conferences, and sustained research and consulting in areas of applied health economics and outcomes research, health policy, healthcare quality and safety, population health, population health intelligence, population health sciences and public health.

### Applied Health Economics and Outcomes Research

The Jefferson College of Population Health offers both a [Graduate Certificate in Applied Health Economics and Outcomes Research](#) (AHEOR) and a [Master of Science in AHEOR (MS-AHEOR)](#).

**Why is there a need for a degree in AHEOR?**

AHEOR is an academic discipline that focuses on whether or not a product or service is efficacious and benefits patients. AHEOR can establish the efficacy of a product or service, compare its effectiveness to other interventions and consider its incremental cost efficiency. AHEOR is increasingly important as rising healthcare costs continue to challenge the nation’s economy and despite evidence that additional spending is not associated with increased value in outcomes, costs or quality.

**What do AHEOR professionals do?**

AHEOR professionals meet the growing need to evaluate and measure health outcomes (both physical and humanistic) and to ascertain economic consequences of healthcare interventions by determining optional clinical effectiveness, comparative effectiveness and economic value.

**Where do AHEOR graduates work?**

Graduates are in a position to become national leaders in applied health economics and to influence decision-making through application of established scientific methods to the allocation of healthcare resources.

**Program Audiences**

The AHEOR program is intended for

- Pharmaceutical, biotechnology and device industry professionals working in outcomes research, product reimbursement, medical communications, new product development, biostatistics, regulatory and medical science liaison field operations
- Individuals working in public health, health policy and government or regulatory positions
- Management professionals working in health plans, hospitals and healthcare provider organizations
- Human resources professionals, brokers, benefits consultants, chief financial officers and others involved in purchasing and evaluating health benefits on behalf of employed populations
- Health Information Technology (HIT) specialists who function as IT engineers, product managers or market researchers
Program Overview
- The Graduate Certificate in AHEOR requires the completion of 15 credits or 5 courses, all of which can be applied towards the MS-AHEOR degree.
- The MS-AHEOR degree program requires completion of 39 credits, including a Capstone Project.
- The Capstone Project enables students to apply concepts, methods and theories to actual problems in real settings.
- All courses are offered asynchronously online using best practices and interactive learning and are taught by practitioner faculty with years of experience and recognized expertise.
- Classes are offered across three 14-week sessions per year that begin in September and end in July.
- Full-time students can complete the program in one to two years. Part-time students can complete the program in two to five years.
- Students can begin the program in September or January.

Program Skills
Through coursework, the MS-AHEOR degree program emphasizes:
- Advanced analytic methods that inform resource allocation, relative value assessments and policy initiatives
- Conceptual frameworks used in AHEOR, such as economic metrics, quality of life evaluations and healthcare technology assessment evaluations
- Essential analysis of financing and delivery of healthcare in the United States

Admissions Considerations and Prerequisites
- Earned baccalaureate degree with approximate GPA of 3.0
- One of the following:
  o Competitive score on the GRE or other graduate entrance examination
  o Graduate degree or at least 9 credits of earned graduate coursework with a grade of “B” or higher
- Competency in basic statistics demonstrated by one of the following:
  o Undergraduate/graduate coursework with grade of “B” or higher
  o Passing score on JCPH statistics qualifying test or other non-credit exam

Application Requirements
- Completion of online application form
- Payment of application fee
- Official transcripts from all graduate and undergraduate institutions attended (international students need to submit WES or ECE course by course evaluation)
- Submission of TOEFL or IELTS scores, if applicable
- GRE or equivalent, if applicable
- Two letters of recommendation
- Personal essay

Eligible candidates will be invited for a phone interview.

MS-AHEOR Curriculum
- U.S. Healthcare Organization & Delivery
- Economic Modeling in Healthcare
- Health Economics
• Epidemiology for Evidence & Outcomes Research
• Simulation for Economic Evaluation
• Economic & Outcomes Analyses
• U.S. Healthcare Financing & Reimbursement
• Subjective Outcomes in Health Evaluation
• Econometric & Observational Methods
• Advanced Statistics
• Capstone Seminar
• Capstone Project
• Electives (choose 1)
  • Health Informatics & Population Health Analytics
  • Comparative Health Systems
  • Essentials of Population Health

For more information, contact Jefferson College of Population Health at 215-503-5305 or check the AHEOR program website at http://www.jefferson.edu/university/population-health/degrees-programs/applied-health-economics.html

Applicants should be directed to explore.jefferson.edu for more information.

Health Policy

The Jefferson College of Population Health offers both a Graduate Certificate in Health Policy and a Master of Science in Health Policy (MS-HP).

Why is there a need for a degree in health policy?
In an era when the costs of health care continue to rise, access is absent for many Americans and troubling issues around quality and safety have entered the public lexicon, never has the preparation of leaders to guide health policy been more urgent.

What do health policy professionals do?
Health policy professionals critically analyze the organization, financing and delivery of health care; rigorously apply analytic skills to plan, implement, and evaluate health policy; and produce research evidence to support policy development and change.

Where do health policy graduates work?
Graduates are prepared to assume policy analysis and advocacy roles in health care provider organizations, integrated health care delivery systems, government offices, academic institutions, health services research firms and community-based or advocacy organizations.

Program Audiences
The health policy program is intended for
• Practicing healthcare professionals working within all variety of healthcare settings, including hospitals, healthcare insurance plans or management companies, academic organizations, community organizations, and public/government entities
• Other professionals working in organizations involved in the delivery, administration and/or financing of health care
• Healthcare program administrators and individuals working in health-related professional organizations and trade associations
• Pharmaceutical industry professionals
• Health Information Technology (HIT) professionals working in provider and payer systems
- Public health and government officials working in regulatory positions at local, state or federal levels

**Program Overview**
- The Graduate Certificate in Health Policy requires the completion of 18 credits or 6 courses, all of which can be applied towards the MS-HP degree.
- The MS-HP degree program requires completion of 39 credits, including a Capstone Project.
- The Capstone Project enables students to apply concepts, methods and theories to actual problems in real settings.
- Courses required for the degree span the domains of health policy, research design and analytic methods, information systems and leadership skills.
- All courses are offered asynchronously online using best practices and interactive learning and are taught by practitioner faculty with years of experience and recognized expertise.
- Classes are offered across three 14-week sessions per year that begin in September and end in July.
- Full-time students can complete the program in one to two years. Part-time students can complete the program in two to four years.
- Students can begin the program in September or January.

**Program Skills**
Through coursework, the MS-HP degree program emphasizes:
- Advanced analytic skills that support problem identification, solution modeling and outcomes prediction
- Systems approaches that consider the spectrum of stakeholder positions and market forces and lead to development of actionable policy solutions
- Essential health policy leadership and management capabilities, including communication, decision analysis, planning and negotiation

**Admissions Considerations and Prerequisites**
- Earned baccalaureate degree with approximate GPA of 3.0
- One of the following:
  - Competitive score on the GRE or other graduate entrance examination
  - Graduate degree or at least 9 credits of earned graduate coursework with a grade of “B” or higher

**Application Requirements**
- Completion of online application form
- Payment of application fee
- Official transcripts from all graduate and undergraduate institutions attended (international students need to submit WES or ECE course by course evaluation)
- Submission of TOEFL or IELTS scores, if applicable
- GRE or equivalent, if applicable
- Two letters of recommendation
- Personal essay

Eligible candidates will be invited for a phone interview.

**MS-HP Curriculum**
- U.S. Healthcare Organization & Delivery
Healthcare Quality and Safety

The Jefferson College of Population Health offers a Graduate Certificate in Healthcare Quality and Safety (HQS) and a Master of Science in HQS (MS-HQS), both available in one of two tracks: U.S. or international. Two other HQS programs, Healthcare Quality and Safety Management (HQSM) and International Healthcare Quality and Safety (HQSi), require prerequisite coursework with the American Association for Physician Leadership (AAPL) or a MBA/MHA degree and The International Society for Quality in Health Care (ISQua), respectively. For more information about HQSM and HQSi degrees, please visit http://www.jefferson.edu/university/population-health/degrees-programs/healthcare-quality-safety.html

Why is there a need for a degree in HQS?
As the healthcare system moves towards value and reimbursement models linked to quality, there is an increased focus on patient safety and quality of care. The HQS program prepares national and international healthcare professionals for leadership positions in healthcare quality and safety.

What do HQS professionals do?
HQS professionals design, implement and disseminate programs and policies that measurably improve healthcare quality and patient safety.

Where do HQS graduates work?
Graduates are prepared to lead quality and safety improvement initiatives in hospitals, outpatient facilities, integrated delivery systems, health policy research firms and community-based advocacy and service organizations.

Program Audiences
The HQS program is intended for
- Physicians, nurses, pharmacists and other healthcare professionals practicing in all healthcare settings
• Individuals working in payer settings, including managed care and other insurer positions
• Risk management and finance professionals working in hospitals and other healthcare settings
• Pharmaceutical industry professionals
• Health Information Technology (HIT) specialists and analysts
• Individuals working in health-related professional organizations and trade associations
• Public health and government officials working in regulatory positions at local, state or federal levels
• Healthcare program administrators

Program Overview
• The Graduate Certificate in HQS (U.S. or international track) requires the completion of 18 credits or 6 courses, all of which can be applied towards the MS-HQS degree.
• The MS-HQS (U.S. or international track) degree requires completion of 39 credits, including a Capstone Project.
• The Capstone Project enables students to apply concepts, methods and theories to actual problems in real settings.
• All courses are offered asynchronously online using best practices and interactive learning and are taught by practitioner faculty with years of experience and recognized expertise.
• Classes are offered across three 14-week sessions per year that begin in September and end in July.
• Full-time students can complete the program in one to two years. Part-time students can complete the program in two to four years.
• Students can begin the program in September or January.

Program Skills
Through coursework, the MS-HQS degree program emphasizes:
• Identification, interpretation and implementation of policies, care guidelines and regulations relevant to HQS
• Analytic skills to design, conduct and evaluate HQS measurement, improvement and research activities
• Application of technology and information systems that incorporate HQS to support decision-making and workflow within and across healthcare settings

Admissions Considerations and Prerequisites
• Earned baccalaureate degree with approximate GPA of 3.0
• One of the following:
  o Competitive score on the GRE or other graduate entrance examination
  o Graduate degree or at least 9 credits of earned graduate coursework with a grade of “B” or higher
• Competency in medical terminology demonstrated by one of the following:
  o Clinical degree/clinical coursework
  o Undergraduate/graduate coursework in medical terminology
  o Passing score on JCPH medical terminology qualifying test

Application Requirements
• Completion of online application form
• Payment of application fee
• Official transcripts from all graduate and undergraduate institutions attended (international students need to submit WES or ECE course by course evaluation)
• Submission of TOEFL or IELTS scores, if applicable
• GRE or equivalent, if applicable
• Two letters of recommendation
• Personal essay

Eligible candidates will be invited for a phone interview.

MS-HQS Curriculum
• U.S. Healthcare Organization & Delivery (U.S. track) or Comparative Health Systems (international track)
• Introduction to Healthcare Quality & Safety (U.S. track) or Introduction to International Healthcare Quality & Safety (international track)
• Essentials of Population Health
• HQS Measurement & Outcomes Analysis
• HQS Tools & Methods
• Health Economics
• Fundamentals of Health Statistics
• Organization Development & Change in Health Care
• Advanced HQS Tools & Methods in Clinical Settings
• Capstone Seminar
• Capstone Project
• Electives (choose 2)
  • Operational Excellence – Lean Thinking
  • U.S. Healthcare Financing & Reimbursement
  • Health Law & Regulatory Issues
  • Health Informatics & Population Health Analytics
  • Health Research Methods

For more information, contact Jefferson College of Population Health at 215-503-5305 or check the HQS program website at http://www.jefferson.edu/university/population-health/degrees-programs/healthcare-quality-safety.html

Applicants should be directed to explore.jefferson.edu for more information.

Population Health

The Jefferson College of Population Health offers a Graduate Certificate in Population Health and a Master of Science in Population Health (MS-PopH).

Why is there a need for a degree in population health?
Health systems in the United States and around the world are confronting ever-rising costs, poor health outcomes and economic inefficiencies. Population health is a broad-based response to these challenges.
What do population health professionals do?
Population health professionals aim to prevent and address human disease through social interventions that engage the community and larger society by integrating clinical care and public health practices in a new paradigm of health delivery.

Where do population health graduates work?
Graduates are prepared to work across the complex and changing health system landscape including in hospital systems, healthcare insurance plans, pharmaceutical companies, academic organizations, community organizations and public/government entities.

Program Audiences
The population health program is intended for
- Health professionals working within healthcare settings, healthcare plans or management companies, academic organizations, community organizations and public/government entities
- Healthcare business consultants providing services to emerging accountable care entities
- Healthcare program administrators
- Experienced pharmaceutical industry professionals
- Health Information Technology (HIT) professionals working in provider and payer systems
- Individuals working in healthcare-related professional organizations and trade associations
- Healthcare providers and stakeholders from outside of the United States looking to learn more about the U.S. healthcare system
- Professionals who work in an organization involved in the delivery, administration and/or financing of health care or who are seeking to change fields within the healthcare system

Program Overview
- The Graduate Certificate in Population Health requires the completion of 18 credits or 6 courses, all of which can be applied towards the MS-PopH degree.
- The MS-PopH requires completion of 39 credits, including a Capstone Project.
- The Capstone Project enables students to apply concepts, methods and theories to actual problems in real settings.
- All courses are offered asynchronously online using best practices and interactive learning and are taught by practitioner faculty with years of experience and recognized expertise.
- Classes are offered across three 14-week sessions per year that begin in September and end in July.
- Full-time students can complete the program in one to two years. Part-time students can complete the program in two to four years.
- Students can begin the program in September or January.

Program Skills
Through coursework, the MS-PopH degree program emphasizes:
- Analytic skills to develop, implement and evaluate programs that address health issues at the institutional, community, regional and national levels
- Application of social, behavioral and organizational science to the diagnosis, development and implementation of organizational change
- Assessment of the impact of socio-cultural factors on access to health care and adjust health promotions and interventions accordingly

Admissions Considerations and Prerequisites
- Earned baccalaureate degree with approximate GPA of 3.0
• One of the following:
  o Competitive score on the GRE or other graduate entrance examination
  o Graduate degree or at least 9 credits of earned graduate coursework with a grade of “B” or higher

**Application Requirements**

• Completion of online application form
• Payment of application fee
• Official transcripts from all graduate and undergraduate institutions attended (international students need to submit WES or ECE course by course evaluation)
• Submission of TOEFL or IELTS scores, if applicable
• GRE or equivalent, if applicable
• Two letters of recommendation
• Personal essay

Eligible candidates will be invited for a phone interview.

**MS-PopH Curriculum**

• U.S. Healthcare Organization & Delivery
• Introduction to Healthcare Quality & Safety
• Essentials of Population Health
• Health Economics, Risk & Finance
• Health Informatics & Population Health Analytics
• Disease Prevention & Care Management
• Organization Development & Change in Health Care
• Health Law & Regulatory Issues
• Epidemiology & Evidence for Outcomes Research
• Health Policy: Analysis & Advocacy
• Population Health Management Applications
• Capstone Seminar
• Capstone Project

- For more information, contact Jefferson College of Population Health at 215-503-5305 or check the population health program website at [http://www.jefferson.edu/university/population-health/degrees-programs/population-health.html](http://www.jefferson.edu/university/population-health/degrees-programs/population-health.html)
- Applicants should be directed to explore.jefferson.edu for more information.

**Population Health Intelligence**

The Jefferson College of Population Health offers a **Graduate Certificate in Population Health Intelligence** and a **Master of Science in Population Health Intelligence (MS-PHI)**. This program will begin in January 2018.

**Why is there a need for a degree in population health intelligence?**

Rising healthcare costs and troubling concerns about health care quality are spurring calls for greater emphasis on value in the healthcare industry. Value is defined as costs divided by outcomes. We are only just beginning to tap the potential of the exponentially growing volume of health-related data captured in electronic health records, patient portals and claims systems. Given the realities of health
care in the 21st century, a shift to a value-based system is not possible without trained professionals who can collect, manage, evaluate and process data, and implement data-driven interventions.

**What do population health intelligence professionals do?**
Population health intelligence professionals combine the knowledge of population health with the skills to collect, organize, harmonize, analyze and disseminate data, and then lead organizations and systems to act on those insights. Essentially they are data translators who can bridge the divide with expertise in both analytics and health care. The mantra of population health intelligence is turning data into insight and action.

**Where do population health intelligence graduates work?**
Graduates work closely with clinicians, health system leaders, the pharmaceutical and biotechnology industry and healthcare payers.

**Program Audiences**
The population health intelligence program is intended for
- Experienced health professionals seeking additional skills in data analytics or looking to use data-driven, actionable evidence for health outcomes improvement
- Professionals working within:
  - Healthcare settings
  - Healthcare plans or management companies
  - Academic organizations
  - Community organizations
  - Public/government entities
  - Healthcare-related professional organizations and trade associations
  - Pharmaceutical or biotechnology industries
  - Healthcare business consulting organizations
  - Healthcare program administration
  - Any organization involved in the delivery, organization and/or financing of health care

**Program Overview**
- The Graduate Certificate in Population Health Intelligence requires the completion of 18 credits or 6 courses, all of which can be applied towards the MS-PHI degree.
- The MS-PHI requires completion of 39 credits, including a Capstone Project.
- The Capstone Project enables students to apply concepts, methods and theories to actual problems in real settings.
- All courses are offered asynchronously online using best practices and interactive learning and are taught by practitioner faculty with years of experience and recognized expertise.
- Classes are offered across three 14-week sessions per year that begin in September and end in July.
- Full-time students can complete the program in one to two years. Part-time students can complete the program in two to four years.
- The program will officially start in January 2018.

**Program Skills**
Through coursework, the MS-PHI degree program emphasizes:
- Application of data visualization techniques that contribute to effective presentations and population health management dashboards
- Management and leadership skills to support data-driven decision-making
• Development of strategies for identifying and integrating disparate, non-health and population-level data into clinical decision-making

**Admissions Considerations and Prerequisites**

- Earned baccalaureate degree with approximate GPA of 3.0
- One of the following:
  - Competitive score on the GRE or other graduate entrance examination
  - Graduate degree or at least 9 credits of earned graduate coursework with a grade of “B” or higher

**Application Requirements**

- Completion of online application form
- Payment of application fee
- Official transcripts from all graduate and undergraduate institutions attended (international students need to submit WES or ECE course by course evaluation)
- Submission of TOEFL or IELTS scores, if applicable
- GRE or equivalent, if applicable
- Two letters of recommendation
- Personal essay

Eligible candidates will be invited for a phone interview.

**MS-PHI Curriculum**

- U.S. Healthcare Organization & Delivery
- Introduction to Health Data Acquisition & Management
- Essentials of Population Health
- Fundamentals of Health Statistics
- Epidemiology & Evidence for Outcomes Research
- Data Science I
- Specialized Data Topics
- Organizational Development & Change in Health Care
- Data Presentation Architecture
- Implementation Science
- Capstone Seminar
- Capstone Project
- Electives (choose 1)
  - Data Science II
  - Analytics Leadership & Administration

For more information, contact Jefferson College of Population Health at 215-503-5305 or check the population health intelligence program website at Jefferson.edu/PopulationHealth.

Applicants should be directed to explore.jefferson.edu for more information.

**Population Health Sciences**

The Jefferson College of Population Health offers a **Doctor of Philosophy in Population Health Sciences (PhD)**. Students must choose one of four specializations: **Health Policy, Healthcare Quality and Safety, Applied Health Economics and Outcomes Research and Health Behavior Science.**
Why is there a need for a degree in population health sciences?
The population health sciences degree is a research-focused doctoral program that prepares academic and industry leaders with global vision to understand, analyze and apply knowledge about the determinants of health.

What do population health sciences professionals do?
PhD graduates analyze the determinants of health and develop, implement and evaluate health interventions, and health policies and systems that improve the health and quality of life of populations.

Where do population health sciences graduates work?
The PhD program prepares leaders to be scholars, researchers, educators and practitioners in core aspects of population health.

Program Audiences
The population health sciences doctoral program is intended for
- Health professionals working within healthcare settings, healthcare plans or management companies, academic organizations, community organizations and public/government entities
- Healthcare program administrators
- Health Information Technology (HIT) professionals working in provider and payer systems
- Individuals working in healthcare-related professional organizations and trade associations
- Professionals who work in an organization involved in the delivery, administration and/or financing of health care or who are seeking to change fields within the healthcare system
- Pharmaceutical, biotechnology and device industry professionals working in outcomes research, product reimbursement, medical communications, new product development, biostatistics, regulatory and medical science liaison field operations

Program Overview
- The PhD in Population Health Sciences requires a minimum of 62 credits, including the competency examination, dissertation proposal and dissertation.
- The program is an onsite program with some online classes. Onsite classes are offered at the Center City campus of Thomas Jefferson University.
- We offer evening classes to accommodate both full-time students and working adults.
- Classes are offered across three 14-week sessions per year that begin in September and end in July.
- Students can complete the program in four to eight years
- Students can begin the program in September or January.

Program Skills
Through coursework, the PhD in Population Health Sciences program emphasizes:
- Formulation of population health research questions that are informed by relevant theoretical and conceptual models; systematic reviews of the literature; valid, reliable and generalizable data; and stakeholder needs
- Application of appropriate design and analytic methods to clarify associations between variables and to identify causal inferences
- Communication skills so that findings and implications of population health science research can be appropriately disseminated to academic, professional and lay audiences

Admissions Considerations and Prerequisites
- Earned master’s degree in an appropriate field of study
• Earned undergraduate degree with approximate GPA of 3.3
• Competitive score on the GRE or other graduate entrance examination (must be less than five years old and in the 50th percentile)
• Competency in basic statistics demonstrated by one of the following:
  o Graduate coursework in basic statistics with a grade of “B” or higher
  o Passing score on JCPH basic statistics qualifying test or other non-credit exam
• Graduate coursework in research methods
• Three to five years of work experience
• *AHEOR and HQS Specializations only:* Competency in medical terminology demonstrated by clinical background, previous coursework/training or a passing score on the JCPH medical terminology qualifying test

**Application Requirements**
• Completion of online application form
• Payment of application fee
• Official transcripts from all graduate and undergraduate institutions attended (international students need to submit WES or ECE course by course evaluation)
• Submission of TOEFL or IELTS scores, if applicable
• GRE scores
• Three letters of recommendation
• Personal essay

Eligible candidates will be invited for a phone interview.

**PhD in Population Health Sciences Curriculum**
• Core Coursework in Methods (12 credits)
  o Advanced Public Health Statistics
  o Advanced Epidemiology
  o Advanced Statistics & Multi-Level Modeling
  o Evaluative & Outcomes Research & Design (HQS, Health Policy and Health Behavior Science) or Econometric & Observational Methods (AHEOR)
• Core Coursework in Population Health Fundamentals (16 credits)
  o U.S. Healthcare Organization & Delivery
  o Essentials of Population Health
  o Health Economics
  o Social & Behavioral Foundations of Public Health
  o Bioethics
  o Teaching & Learning Seminar
• Integrative and Mentored Research (7 credits)
  o Integrative Research Seminar
  o Mentored Research Experience
• Specialization Coursework (15 credits)
  o Health Policy
    ▪ Comparative Health Systems
    ▪ U.S. Healthcare Financing & Reimbursement
    ▪ Health Law & Regulatory Issues
    ▪ Health Policy: Analysis & Advocacy
    ▪ Organization Development & Change in Health Care
  o HQS
    ▪ Organization Development & Change in Health Care
The Jefferson College of Population Health offers a Graduate Certificate in Public Health and a Master of Public Health (MPH).

**What is public health?**
Public health is an interdisciplinary field of study and practice with two primary goals—to prevent illness, disease, and injury; and to promote and protect human health. Public health achieves these goals while supporting human rights and respecting the dignity of the individual.

**What do public health professionals do?**
Public health professionals track disease outbreaks, conduct community health assessments, plan public health education programs, develop public health policies to reduce adverse environmental exposures, advocate for government policy changes to increase public access to preventive health services, and direct campaigns to prevent infectious disease or reduce risk factors that encourage chronic conditions. Many public health professionals are dually trained in such disciplines as nursing, law, medicine, social work, pharmacy and psychology. Dual training allows professionals to apply the public health lens in a variety of settings.
Where do public health professionals work?
Public health professionals work in state and local public health departments or health centers, non-governmental health organizations (NGOs), schools and universities, professional health agencies, health insurance companies, hospitals and clinical settings as well as businesses such as the pharmaceutical industry. They also engage in public health research and work internationally in global health environments.

Program Audiences
The Jefferson College of Population Health’s public health program is intended for recent college graduates with majors in natural or social sciences; students currently enrolled in a medical, nursing or law degree program who wish to earn an additional degree in public health; practicing health professionals working in government, community health organizations, healthcare settings, health insurance companies, the pharmaceutical industry, and academic institutions; and students planning to pursue a career in the healthcare arena following public health training.

Program Overview
- The Graduate Certificate in Public Health requires the completion of 18 credits or 6 courses. All courses can be applied towards the MPH.
- The MPH degree program requires completion of 45 credits, including a clerkship (applied practice experience) and Capstone (integrative learning experience) Project or exam.
- The MPH is a competency-based degree program accredited through the Council of Education for Public Health (CEPH), which ensures that the program meets rigorous educational standards.
- The public health clerkship (applied practice experience) is a semester-long community experience with a public health-related organization that can be completed locally, elsewhere in the United States, or abroad.
- The program stresses competencies in five key public health areas – health behavior and social sciences; biostatistics; environmental health sciences, epidemiology; and health policy and management.
- The curriculum also emphasizes certain skills, such as leadership, systems thinking, health communication, and cultural humility and competency.
- Classes are offered across three sessions per year that begin in September and end in June. Fall and spring terms are 14 weeks long. The summer session is 11 weeks long.
- Full-time students generally complete the program in 16 – 20 months. Part-time students can complete the program in 24 – 48 months. Students in the accelerated program (MPH LEAP Program) can complete the degree in one academic year (10 months).
- Students enrolled in a Jefferson joint degree program (MD/MPH; JD/MPH; MSS/MPH; DO/MPH, PharmD/MPH) can complete coursework in one year with the Capstone Project completed in a subsequent year.
- We offer daytime and evening classes to accommodate both full-time students and working adults. Classes are offered at the Center City campus of Thomas Jefferson University.
- Students can begin the program in September or January.

Admissions Considerations
- Earned baccalaureate degree with approximate GPA of 3.0
- One of the following:
  - Competitive score on the GRE or other graduate entrance examination
  - Graduate degree or at least 9 credits of earned graduate coursework with grade of “B” or higher
  - Current enrollment in a graduate clinical program (e.g., MD, MSN)
GPA of 3.3 or higher and specified coursework with grade of “B” or higher from a Jefferson-affiliated college or university

- Competency in basic statistics (recommended)
- Previous professional or volunteer experience in a community health setting

Application Requirements

- Completion of online application form
- Payment of application fee
- Official transcripts from all graduate and undergraduate institutions attended (international students need to submit WES or ECE course by course evaluation)
- Submission of TOEFL or IELTS scores, if applicable
- GRE or equivalent, if applicable
- Three letters of recommendation
- Personal statement

Eligible candidates will be invited for an in person or phone interview.

MPH Curriculum

- Introduction to Public Health
- Behavioral & Social Foundations of Public Health
- Fundamentals of Health Statistics
- Fundamentals of Epidemiology
- U.S. Healthcare Organization & Delivery
- Health Research Methods
- Fundamentals of Environmental Health
- Public Health Policy & Advocacy
- Program Planning, Implementation & Evaluation Part 1
- Program Planning, Implementation & Evaluation Part 2
- Clerkship
- Capstone Seminar & Project or Integrative Seminar
- Electives (choose 3)
  - Advanced Public Health Statistics
  - Qualitative Research Methods
  - Advanced Epidemiology
  - Dimensions of Global Health
  - Cultural Humility & Competence
  - Health Communication & Social Marketing
  - Advanced Social & Behavioral Theories & Interventions
  - Geographic Information Systems (GIS) Mapping
  - Human Rights of Refugees, Immigrants & the Internally Displaced

For more information, contact Jefferson College of Population Health at 215-503-5305 or check the Public Health program website at http://www.jefferson.edu/university/population-health/degrees-programs/public-health.html

Applicants should be directed to explore.jefferson.edu for more information.