Institute of Emerging Health Professions

Perfusion
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Mission Statement

The mission of the Center for Perfusion and Extracorporeal Technology is to train competent, focused and highly-skilled perfusion technicians. Using evidence-based medicine, the program will produce students ready for board examinations and prepare graduates to perform the duties and responsibilities of a cardiovascular perfusionist in a variety of clinical settings.

Program Goals

- Establish and maintain a high quality perfusion program supported by clinical and didactic excellence
- Utilized both traditional and state-of-the-art technologies to effectively educate perfusion students
- Graduate students who will provide superior patient care with the utmost ethical standards
- Provide a nurturing, educational environment that affords students with the opportunity to develop and grow as competent health care providers
- Cultivate a learning environment that will assist students in becoming a certified cardiovascular perfusionist (CCP) by successfully passing the American Board of Cardiovascular Perfusion (ABCP) examinations

Clerical Support

- The School of Perfusion will utilize the Program Director and IEHP staff and administrative support until the fiscal year begins in July of 2016. We are budgeted for 0.2 FTE Program Coordinator support staff for the Program to begin in July 2016. There will be further support by a Clinical Coordinator to begin in September 2016.

Classroom Space

Didactic classes will be help in one of the many classrooms at Jefferson. Classrooms over 25 seats have permanent podium PC setups with ceiling mounted projectors or wall mounted large monitors. Smaller classrooms are supported with laptops and mobile projectors. Each of these configurations includes the option for faculty to record their lectures so they’re available for student review.

The Dr. and Mrs. Robert D. Rector University Clinical Skills & Simulation Center is housed on the third and fourth floors of Jefferson’s Hamilton Building. Every simulated lab space has lecture rooms with full range of audio/visual capabilities. The labs include surgical suites, exam rooms, critical care areas, a med-surg ward, mock apartments, and an acute care ward. The perfusion
program will store and utilize their equipment in the simulation center: perfusion simulator, perfusion heart and lung machine, and a heater/cooler. All of this capital equipment will be available to other training programs including Jefferson anesthesiology residents

Personnel Chart

Charles Pollack, MD, Assoc Provost, Director IEHP

Brian Schwartz, CCP, RN, MBA, Program Director

Rohinton Morris, MD, Medical Director

Mark Napoli, CCP, Clinical Coordinator

Instructional and Clinical Faculty:

− George Haynes, MS, Physiology/Pharmacology Instructor
− Debra Priore, PA-C, MHS, CV Anatomy/Pathophysiology Instructor
− Robert Layton, CCP, LP, Clinical Faculty
− Joseph Leo, CCP, LP, Clinical Faculty
− Mark Napoli, CCP, LP, Clinical Coordinator, Clinical Faculty
− Amy Tropea, CCP, Clinical Faculty
− Meghan Walsh, CCP, LP, Clinical Faculty
− Rachael Woods, CCP, LP, Clinical Faculty
− Charles Yarnell, CCP, LP, Clinical Faculty

Instructor Loads

The Perfusion Program will be predominantly run by the 0.3 FTE Program Director, Brian Schwartz. Mr. Schwartz will teach 7 credits in fall of year 1 and 4 credits in spring of year 1. We intent to hire experienced Adjunct Faculty, listed above as Instructional Faculty for the remaining didactic course work.

• Program Director will coordinate and teach:

  o Perfusion Technology I (4 credits, fall year 1)
• Medical Ethics (3 credits, to be offered online, fall year 1)

• Perfusion Technology II (4 credits, spring tear 1)

• Debra Priore, PA-C, MHS
  
  • Cardiovascular Anatomy (1 credit, fall year 1)
  
  • Pathophysiology (3 credits, spring year 1)

• George Haynes, MS

  • Human Physiology I (4 credits, fall year 1)

  • Pharmacology I (3 credits, fall year 1)*

  • Human Physiology II (4 credits, spring year 1)

  • Pharmacology II (3 credits, spring year 1)*

    * Mr. Haynes will teach Pharmacology I & II during year 1 of the program, after which Jefferson will hire an alternate instructor

• Clinical Applications I-VII

  • Above mentioned clinical instructors will proctor students during clinical rotations.

• Perfusion Basic Science Review (2 credits)

  • Instructor will be determined in Year 1
Clinical Instruction Plan

- Perfusion Clinical Instructors, location, and responsibilities

<table>
<thead>
<tr>
<th>Perfusion Clinical Instructors</th>
<th>Location</th>
<th>Responsibilities</th>
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</thead>
<tbody>
<tr>
<td>Brian Schwartz</td>
<td>Thomas Jefferson University Hospital</td>
<td>Program Director/Clinical and Didactic Instructor</td>
</tr>
<tr>
<td>Amy Tropea</td>
<td>Thomas Jefferson University Hospital/Abington Memorial Hospital</td>
<td>Clinical Instructor</td>
</tr>
<tr>
<td>Mark Napoli</td>
<td>Thomas Jefferson University Hospital/Abington Memorial Hospital</td>
<td>Clinical Coordinator/Clinical Instructors</td>
</tr>
<tr>
<td>Charles Yarnell</td>
<td>Thomas Jefferson University Hospital/Abington Memorial Hospital</td>
<td>Clinical Instructor</td>
</tr>
<tr>
<td>Bob Layton</td>
<td>Abington Memorial Hospital</td>
<td>Clinical Instructor</td>
</tr>
<tr>
<td>Rachael Woods</td>
<td>Thomas Jefferson University Hospital/Abington Memorial Hospital</td>
<td>Clinical Instructor</td>
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<td>Megan Walsh</td>
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<td>Clinical Instructor</td>
</tr>
<tr>
<td>Joseph Leo</td>
<td>Thomas Jefferson University Hospital/Abington Memorial Hospital</td>
<td>Clinical Instructor</td>
</tr>
</tbody>
</table>

- The initial clinical affiliates for the School of Perfusion at Thomas Jefferson University will be as follows:
  - Thomas Jefferson University: Philadelphia, PA
  - Abington Memorial Hospital: Abington, PA
• The academic calendar for the School of Perfusion at Thomas Jefferson University will commence the first week of September 2016 and run continuously through May 2018. Students will be introduced into the operating room starting October 1, 2016 and be responsible for being in surgery three (3) times a week during their first year. Once students complete their first year at TJU’s School of Perfusion, they will be responsible for being in the operating room five (5) days a week.

• In order for students to be successful during their clinical rotations, the following courses will aid in their clinical growth:
  o Perfusion Technology
  o CV Anatomy
  o Human Physiology
  o Pharmacology
## Curriculum

<table>
<thead>
<tr>
<th>Fall Semester - Year 1</th>
<th>Credit Hours</th>
<th>Course Number</th>
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<tbody>
<tr>
<td>Perfusion Technology I</td>
<td>4</td>
<td>PER 500</td>
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<tr>
<td>Human Physiology</td>
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<td>PER 510</td>
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<tr>
<td>Cardiovascular Anatomy</td>
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<td>PER 520</td>
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<td>Clinical Application Perfusion</td>
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<td>PER 690</td>
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<td>Total Credit Hours for Fall Semester</td>
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<table>
<thead>
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<th>Spring I Semester - Year 1</th>
<th>Credit Hours</th>
<th>Course Number</th>
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<tr>
<td>Perfusion Technology II</td>
<td>4</td>
<td>PER 600</td>
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<tr>
<td>General Pharmacology</td>
<td>3</td>
<td>PR 522</td>
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<tr>
<td>Pathophysiology</td>
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<td>PER 540</td>
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<tr>
<td>Clinical Application Perfusion</td>
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<th>Credit Hours</th>
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<td>Clinical Pharmacology</td>
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<tr>
<td>Human Physiology</td>
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<td>PER 610</td>
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<td>Applications of ECMO &amp; VAD</td>
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<td>PER 640</td>
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<td>Clinical Application in Perfusion</td>
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<td>Total Credit Hours for Spring II</td>
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<th>Summer Semester - Year 1</th>
<th>Credit Hours</th>
<th>Course Number</th>
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<tbody>
<tr>
<td>Clinical Application in Perfusion</td>
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<td>PER 690</td>
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<tr>
<td>Clinical Application in Perfusion</td>
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<td>PER 690</td>
</tr>
<tr>
<td>Clinical Application in Perfusion</td>
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<td>PER 690</td>
</tr>
<tr>
<td>Total Credit Hours for Summer Semester</td>
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<table>
<thead>
<tr>
<th>Fall Semester - Year 2</th>
<th>Credit Hours</th>
<th>Course Number</th>
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<tbody>
<tr>
<td>Clinical Application in Perfusion</td>
<td>12</td>
<td>PER 690</td>
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<tr>
<td>Total Credit Hours for Fall Semester</td>
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<table>
<thead>
<tr>
<th>Spring Semester - Year 2</th>
<th>Credit Hours</th>
<th>Course Number</th>
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<tbody>
<tr>
<td>Clinical Application in Perfusion</td>
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<td>PER 690</td>
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<tr>
<td>Perfusion Basic Science Review</td>
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<td></td>
</tr>
<tr>
<td>Total Credit Hours for Spring Semester</td>
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Grading Scale

IEHP uses the following grading scale in all graded courses; rounding is permitted, with partial numbers .5 and higher rounded up to the next whole number and partial numbers of .4 and lower rounded down to the previous whole number:

A+ 98-100
A 93-97
A- 90-92
B+ 87-89
B 83-86
B- 80-82
C 73-76
C+ 77-79
C- 70-72
D 63-66
D+ 67-69
D- 60-62
F below 60

Grading System

At the close of an academic term, each instructor assigns a letter grade indicating the quality of a student’s work in the course.

Students who complete an authorized withdrawal by the deadline published in the Academic Calendar receive a grade of W. After the deadline, a student who Instructor/Institute permission required; no credit awarded. Awarded for successful completion of a challenge

Courses for which a student has the designation P, W or I and grades for transferred courses are not included in the computation of the grade point average.
Grades are part of the student’s permanent record. Once submitted and entered on the student’s transcript, no changes will be made to this record, with the exception of entering the final grade to replace an “I” or correcting an inappropriate grade (refer to Change of Grade).

ACADEMIC INTEGRITY POLICY

The Administration and Faculty of IHEP believe that academic integrity is one of the most important values and behaviors that should be practiced by students during their academic and clinical education. Integrity and honesty are especially valued in the healthcare professions because accurate diagnosis and treatment of patients are greatly dependent upon a health practitioner’s honest and capable assessment of symptoms and diagnostic tests. This assessment can be rendered only by the practitioner who has “real” knowledge obtained as a student who answered test questions independently, thereby identifying and correcting mistakes. The successful practitioner can communicate important diagnostic and therapeutic information in writing because as a student, such skills were developed and/or enhanced by completing writing assignments independently. The practitioner who was dishonest in his or her educational pursuits is at great risk for making diagnostic and therapeutic mistakes and such errors can mean that someone’s health care is mismanaged.

Because we are committed to educating practitioners who provide the highest quality of health care, the administration and faculty are equally committed to mandating and enforcing the practice of academic integrity by all students. The following policy on academic integrity defines dishonesty and describes the procedures for responding to charges of academic dishonesty in the Institute.

Grievance Policy
For student grievances other than grades or dismissal due to unsafe clinical performance, students are encouraged to address the problem at the point closest to the issue. In Jefferson Institute of Emerging Health Professions, the student is encouraged to attempt to resolve the dispute directly with the faculty or staff member. If dissatisfied with the outcome, the student may meet with the appropriate Program Director, then the appropriate Associate Director, who will attempt to mediate the situation. If the student is still dissatisfied with the outcome, he/she may meet with the Institute Director. The Director is the final authority in hearing student grievances. All parties are encouraged to address the issue promptly in writing (with three (3) class days whenever possible) so that resolution of the grievance should require no more than three weeks.

Student Clinical Work
Because patient well-being is a major concern of the Institute and University, it is necessary that certain actions be taken when a student’s clinical practice poses a potential threat to
patient health, welfare or safety. Therefore, students are subject to the Institute’s specific regulations governing clinical practice and may be placed on probation by the Institute and/or recommended for dismissal from the Institute for unsafe clinical behavior as defined by the Institute.

Health Policies
Thomas Jefferson University, Jefferson Institute of Emerging Health Professions requires that all students meet their outstanding health requirements 30 days prior to matriculation. This includes immunizations and PPD. In order for students to enter the clinical area, they need to upload the appropriate documentation of completed health requirements to their Complio (American Date Bank) account or make arrangements with University Health Services to ensure that these requirements are met. There will be NO exceptions granted to this policy.
Admissions

Continuous Enrollment

A student matriculated in a certificate or degree program of the Institute must maintain continuous enrollment each term until completion of the program, or must request a leave of absence from study by completing the Student Status Change Form. The leave must be approved by the Director of Academic and Student Services (see Leave of Absence under CHANGE OF STUDENT STATUS).

Foreign Students

Foreign national students who hold an F-1 visa are required to be continuously enrolled in order to maintain lawful immigration status in the United States.

Failure to Complete a Course

Under serious circumstances (i.e., documented illness), a student who has not completed all requirements of a course may be given the grade of I (Incomplete) after consultation of the instructor with the Director or Academic and Student Services (DASS) and approval of the Office of the Director. The grade automatically becomes an F if the student does not complete and submit required work and a grade is submitted within four weeks of the date of the last official class of the course.

Satisfactory Academic Standing

Master’s Degree and Certificate Students

To remain in good academic standing, students enrolled in a master’s degree or certificate program must maintain a minimum cumulative grade point average of 3.0 and have earned a grade of B- in no more than two courses if they are enrolled in a master’s degree program and in no more than one course if they are enrolled in a certificate program. Failure to maintain a cumulative grade point average of 3.0 and/or the receipt of more than two grades of B- or lower in a master’s degree program or failure to maintain a cumulative grade point average of 3.0 and/or the receipt of more than one grade of B- or lower in a certificate program may result in repeating a course, dismissal from the program/Institute, or academic probation.

Academic Probation and Dismissal

Students enrolled in a master’s or certificate program who do not maintain a minimum cumulative grade point average of 3.0 and students enrolled in a doctoral program who do not maintain a minimum cumulative grade point average of 3.3 will be placed on Institute academic probation for at least one term. At the end of the probationary period:
1. The student achieves the minimum cumulative grade point average and is reinstated in good standing, or

2. Students enrolled in the Institute who earn more than two grades of B- or lower in a Master’s degree program or more than one grade of B- or lower in a doctoral or certificate program are automatically placed on academic probation. Students in this situation must repeat one or more of the courses in question and achieve a grade of B or higher in the retaken course(s) so that no more than two courses in the master’s degree program and no more than one course in a doctoral or certificate program have earned a grade of B-. Failure to receive a grade of B in the retaken course(s) will result in dismissal from the program/School.

Actions related to Institute academic probation and dismissal must be reviewed by both the School Committee on Student Affairs and the Office of the Director before action can be taken.

Any student dismissed from or required to withdraw from the Institute because of poor academic achievement and subsequently readmitted to the Institute must achieve a term grade point average of 3.00 (master’s and certificate programs) or 3.3 (doctoral program) for the term in which he or she was readmitted. If the student fails to do so, he or she will be dismissed from the program and/or Institute. Furthermore, if such a student has a cumulative grade point average of less than the minimum stipulated at the end of the term in which he or she was readmitted, he or she must raise the cumulative grade point average to the minimum by the end of the following term or be dismissed from the program and/or Institute.

**Repeating a Course**

A student who receives a grade of C+ or lower in any course required for the student’s degree or certificate program must repeat the course for which the grade of C+ or lower was received.

A student who receives a grade of B- in more than two courses in a master’s degree program or in more than one course in a doctoral or certificate program must repeat one of the courses for which the grade of B- was received and earn a minimum grade of B or higher in the retaken course.

Whenever a course is repeated, no additional hours attempted will accrue, and the latter grade replaces the previous grade in computing the grade point average and in assignment of academic credit. Both grades, however, remain a part of the student’s permanent academic record.

**Change of Grade**

To change a student’s grade of I (incomplete) or to correct a grade, the instructor must complete and sign a Grade Change Form, available in the University Office of the Registrar. A
student who believes that he/she has received an inappropriate grade should contact the instructor. If the outcome is not satisfactory to the student, further review may be pursued with the Director. A change of grade can be made within four weeks from the last day of the course.

**Attendance Regulations**

Attendance/participation is expected in all classes for which a student is registered. The instructor determines attendance/participation requirements for each course. These requirements shall be clearly outlined in the syllabus for the course.

STUDENTS WHO HAVE AN OUTSTANDING TUITION BALANCE ARE NOT PERMITTED TO ATTEND/PARTICIPATE IN CLASSES.

**Non-Degree Student Status**

Space permitting, students who do not wish to earn a degree or certificate may earn a maximum of nine (9) credits as a non-matriculated student. Students wishing to take more than nine (9) credits must enroll in a certificate or degree program. Students enrolling in a course without matriculation must meet all Institute, program and course prerequisite requirements and obtain approval through the Institute Office prior to registration.

**Transfer of Credits**

Grades for courses for which transfer of credits is approved are not recorded on the student’s transcript and are not used to compute the grade point average.

**Master’s and Certificate Programs**

Students may transfer a maximum of nine (9) graduate credits to a certificate or master’s degree program from another accredited institution of higher education.

Credits previously applied to an undergraduate degree will not be considered for transfer. 

Credits with a grade of B or higher previously applied to another graduate degree may be considered for transfer, but the student must take elective credits of equal number in their place to maintain the total number of credits required for the degree.

A student wishing to transfer credits for a graduate course with a grade of B or higher earned at another accredited institution should submit a written request to the Director accompanied by
a course description and a syllabus. An official transcript from the outside institution should be obtained if not already included in the student’s academic file.

Upon review with the Program Director, if necessary, will notify the student if the course is acceptable for transfer credit.

Transcripts

The University does not issue paper transcripts at the end of each term. At the end of each term, each student should review their transcript online at Banner web (banner.jefferson.edu).

A fee of $5 per transcript will be charged for each official transcript issued. All transcript requests must be in writing: a Transcript Request Form can be obtained from the University Office of the Registrar, or the request may be made in a signed letter or facsimile (fax). The School reserves the right to withhold transcripts from students under certain circumstances, such as defaulting on a loan or having outstanding financial obligations to the University.

An official transcript, printed on security paper, is identified by the raised seal of Thomas Jefferson University and the signature of the University Director of Student Records. Alteration or forgery of such a document is a criminal offense. The Family Educational Rights and Privacy Act of 1974 prohibits release of academic information to a third party without the student’s written consent. Upon receipt of the written request by the student and the payment of the fee, the transcript may be released to the third party. If the third party requires the student to submit an official transcript with other materials, the transcript is stamped “Issued to Student,” is enclosed in a sealed envelope with the signature of the Director of Student Records across the sealed flap, and is then given to the student to submit to the third party.
Application

Apply to the Perfusion and Extracorporeal Technology Certificate program using the Jefferson Online Application:


Application Priority deadline: June 15, 2016
Interview Timeline: June - July 3, 2016

The application fee is $25.00. The fee is non-refundable.
Student Life

The Office of Student Affairs offers support to students in a variety of ways. Academic Support Services and the Student Writing Center offer workshops and one-on-one consultations to help guide students through their academic career. Students needing accommodations can contact us to facilitate the Disability Accommodations process. The office also provides policy guidance to students, including the Grade Appeal process, the Judicial Board process, or a Title IX complaint. Here’s the link:

http://www.jefferson.edu/university/academic-affairs/schools/student-affairs.html