

Perfusion Technology, Certificate

Requirements

The undergraduate Certificate in Perfusion Technology requires 70 s.h. of credit. Students must maintain a grade-point average of at least 2.00 in work for the certificate. The certificate is a 20-month program that spans over five semesters. The program is accredited by the Commission on Accreditation of Allied Health Education Programs upon the recommendation of the Accreditation Committee for Perfusion Education (AC-PE). Students are awarded the certificate upon successful completion of the program making them eligible to take the American Board of Cardiovascular Perfusion certification exam.

Three to five students are accepted annually and begin the program the fall semester. During the first two semesters of the program, students pursue a core curriculum that provides a solid scientific base while the second year (three semesters) is reserved for the completion of an independent research project, clinical training in the operation of the heart-lung machine, and learning ancillary procedures such as blood salvaging, circulatory support, and artificial hearts.

The Certificate in Perfusion Technology requires the following work.

Course #	Title	Hours
PERF:4161	Instrumentation in Perfusion Technology	3
PERF:4162	Pathophysiology of Perfusion Technology	5
PERF:4163	Clinical Experience I	2
PERF:4164	Clinical Experience II	3
PERF:4165	Clinical Experience III	12
PERF:4166	Clinical Experience IV	12
PERF:4167	Perfusion Seminar (taken five times for 1 s.h. each)	5
PERF:4168	Research in Perfusion (taken four times for 1 s.h. each)	4
PERF:4169	Clinical Experience V	12
PERF:4170	Principle and Practice of Perfusion Technology	6
PERF:4171	Devices in Perfusion Technology	3
PATH:8133	Introduction to Human Pathology for Graduate Students	3
Total Hours		70

Prerequisites

The following coursework is required before admission to the certificate program:

- baccalaureate degree;
- chemistry, including biochemistry or organic chemistry (9 s.h.);
- human anatomy and physiology (7 s.h.);

- physics (4 s.h.);
- precalculus (5 s.h.) or calculus; and
- statistics (3 s.h.).