

Perfusion Technology, Certificate

Website: <https://perfusion.medicine.uiowa.edu/>

Requirements

The undergraduate Certificate in Perfusion Technology requires 70 s.h. of credit. Students must maintain a minimum cumulative grade-point average (GPA) of 2.30 in work for the certificate. The program is a 21-month curriculum spanning five semesters.

The program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP) upon the recommendation of the Accreditation Committee for Perfusion Education (AC-PE). Upon successful completion of the program, students are awarded the certificate and are eligible to sit for the American Board of Cardiovascular Perfusion (ABCP) certification examination.

Programs designed to lead to professional licensure are subject to federal regulations regarding informational disclosures. Please see Professional Licensure Disclosures by Program for further information.

Each year, three to five students are admitted, with enrollment beginning in the fall semester. During the first two semesters, students complete a core curriculum that provides a strong scientific foundation. The remaining three semesters focus on an independent research project, clinical training in cardiopulmonary bypass (heart-lung machine) operation, and instruction in ancillary perfusion procedures, including blood salvage, circulatory support, and artificial heart technologies.

The Certificate in Perfusion Technology requires the following coursework.

Course #	Title	Hours
PERF:4180	Cardiovascular Anatomy for Perfusion	2
PERF:4181	Advanced Perfusion Practice Experience I	6
PERF:4182	Advanced Perfusion Practice Experience II	6
PERF:4183	Advanced Perfusion Practice Experience III	6
PERF:4184	Advanced Perfusion Practice Experience IV	6
PERF:4185	Advanced Perfusion Practice Experience V	6
PERF:4186	Advanced Perfusion Practice Experience VI	6
PERF:4187	Devices in Perfusion	2
PERF:4188	Instrumentation in Perfusion	4
PERF:4189	Introductory Perfusion Practice Experience I	2
PERF:4190	Introductory Perfusion Practice Experience II	2
PERF:4191	Pathophysiology for Perfusion I	2

PERF:4192	Pathophysiology for Perfusion II	2
PERF:4193	Perfusion Seminar I	1
PERF:4194	Perfusion Seminar II	1
PERF:4195	Perfusion Seminar III	1
PERF:4196	Perfusion Seminar IV	1
PERF:4197	Perfusion Seminar V	1
PERF:4198	Pharmacology for Perfusion I	2
PERF:4199	Pharmacology for Perfusion II	2
PERF:4200	Principles and Practice of Perfusion	4
PERF:4201	Research in Perfusion I	1
PERF:4202	Research in Perfusion II	1
PERF:4203	Research in Perfusion III	1
PERF:4204	Research in Perfusion IV	1
PERF:4205	Research in Perfusion V	1

Total Hours **70**

Admission

Admission to the program is determined by the Admissions Committee through a comprehensive review of each applicant. Decisions are based on academic performance, including grade-point average (GPA); professional background and experience; the strength and relevance of letters of recommendation; the application essay; and interview performance.

For information about the application process and required materials, see the Admissions section on the Perfusion Education Program website.

Applications must be submitted by November 1 for consideration for the following year's cohort.

Prerequisites

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

Requirements	Hours
Baccalaureate degree	
Anatomy (must include 1 s.h. of lab)	4
Biology (introduction or human biology); must include 1 s.h. of lab	8
Chemistry (must include 2 s.h. of lab)	8
Mathematics (waived if complete a college calculus course)	4
Physics (must include 1 s.h. of lab)	4
Physiology (must include 1 s.h. of lab)	4
Statistics	3