Post Baccalaureate Pre-Medical Certificate

The *Post Baccalaureate Pre-Medical Certificate Program* is a career-changing opportunity afforded to students by Montana State University through the Health Professions Advising office. As a 'career-changing' program, students accepted into this program have earned a non-science bachelor's degree and have often been employed prior to deciding to pursue a career in medicine or health care. The *Certificate* program was approved in 2005 as a 'career-changing' program and the first students matriculated in May 2006.

The program is about 12-15 months (~4 semesters) in length when enrolled in classes full-time (12 credits or more per semester) and when it is started in the summer. Students are encouraged to begin during summer session but can start during any academic semester.

Director

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Certificate of Completion

Certificate of Completion is awarded to students who complete a minimum of 30 credits to fulfill the certificate curriculum requirements and at least 20 of those credits at Montana State University.

Students will need to submit and have approved a Graduation application (https://www.montana.edu/registrar/onlineappugcert.html) completed through the registrar's office, the Certificate will be included on the student's transcript.

How to Apply

1. Application for the Post Baccalaureate Pre-Medical Certificate can be found online through MSU Undergraduate Admissions (https://www.msuadmissions.org/application/).
2. Competency in math, as defined by MSU Math Level 4 or successful completion of College Algebra within the last 5 years, is highly recommend at the time of course registration and matriculation. Courses in Chemistry, Statistics, and Math require this as a pre-requisite. Therefore, students without this level of math will need additional semesters before beginning the required curriculum. It is also recommended that you have 2 semesters of college writing prior to beginning the program.

Program Specifics

While at MSU students complete professional school pre-requisites and prepare for a competitive application.

- Curriculum typically consists of 1 year each of biology, general chemistry, organic chemistry, physics and a semester of biochemistry. Additional courses such as statistics, calculus, psychology, and sociology may be recommended depending on undergraduate coursework completed. Curriculum is established based on students educational goals and professional program course pre-requisites.
- Courses are taken at the undergraduate level and with the undergraduate students.
- Students are encouraged to participate in a semester-long application preparation process (Prep2Apply).

Students can apply to professional school at the end of the *Certificate* program and; therefore, experience at least one glide year. We encourage students to consider the 1-year Master of Science in Health Sciences (http://catalog.montana.edu/graduate/interdisciplinary-other-programs/ms-health-sciences/) program during the glide year to further enhance their academic foundation prior to professional school matriculation.

Curriculum Requirements:

Required Courses

CHMY 141 & CHMY 142	College Chemistry I and College Chemistry I Lab	4
CHMY 143 & CHMY 144	College Chemistry II and College Chemistry II Lab	4
Take 7 credits from this list:		
BIOB 160	Principles of Living Systems	4
BIOB 260	Cellular and Molecular Biology	5
BIOB 375	General Genetics	3
BIOM 250	Microbiology for Health Sciences: Infectious Diseases	3
BIOM 251	Microbiology for Health Sciences Lab	1
BIOM 360	General Microbiology	5
BIOH 320	Biomedical Genetics	3
Electives - Take 15 credits from this list:		
BIOH 201	Human Anatomy and Physiology I	5
BIOH 211	Human Anatomy and Physiology II	4
BIOH 303	Global Diseases and Health Disparities	3
BIOH 323	Human Developmental Biology	4
BIOH 409	Advanced Human Torso Anatomy	4
BIOH 411	Advanced Human Anatomy	4
BIOB 410	Immunology	3
CHMY 211	Elements of Organic Chemistry	4
CHMY 212	Elements of Organic Chemistry Lab	1
CHMY 321	Organic Chemistry I	3
CHMY 322	Organic Chemistry I Lab	1
CHMY 323	Organic Chemistry II	3
CHMY 324	Organic Chemistry II Lab	1
BCH 380	Biochemistry	4
BCH 381	Biochemistry Lab	1
BCH 441	Biochemistry of Macromolecules	3
BCH 442	Metabolic Regulation	3
STAT 216Q	Introduction to Statistics	3
PHSX 205	College Physics I	4
PHSX 207	College Physics II	4
PSYX 230	Developmental Psychology	3
PSYX 333	Psychology of Aging	3
PSYX 340	Abnormal Psychology	3
PSYX 350	Physiological Psychology	3

KIN 320	Exercise Physiology	4
Total Credits		**30**