

# PREMEDICAL SCIENCES, CERTIFICATE

Requirements for an undergraduate certificate may be completed at any campus location offering the specified courses for the certificate.

## Program Description

Non-degree program designed for academically talented, highly motivated individuals who do not have a science background. In 15-24 months students can complete science coursework required to apply for admission to medical, dental, optometry, veterinary science, podiatry, physical therapy, physician assistant or other allied health schools. Program consists of 40-42 credits of science courses.

## What is Premedical Sciences?

Premedical Sciences is a certificate program for college graduates who do not have an undergraduate science background and want to strengthen their application to a health-related professional school by pursuing coursework in biology, chemistry, and physics.

## You Might Like This Program If...

- You already hold a bachelor's degree.
- You need additional science coursework to be a competitive applicant to a medical, dental, optometry, veterinary, podiatry, physical therapy, physician assistant, or other health care education program.

## Program Requirements

To earn an undergraduate certificate in Premedical Sciences, a minimum of 42 credits is required.

Code	Title	Credits
<b>Prescribed Courses</b>		
BIOL 110	Biology: Basic Concepts and Biodiversity	4
BIOL 141	Introduction to Human Physiology	3
BIOL 142	Physiology Laboratory	1
BIOL 230W	Biology: Molecules and Cells	4
CHEM 110	Chemical Principles I	3
CHEM 111	Experimental Chemistry I	1
CHEM 112	Chemical Principles II	3
CHEM 113	Experimental Chemistry II	1
CHEM 210	Organic Chemistry I	3
CHEM 212	Organic Chemistry II	3
CHEM 213	Laboratory in Organic Chemistry	2
PHYS 250	Introductory Physics I	4
PHYS 251	Introductory Physics II	4
SC 201	Medical Professions	1
In addition to previous courses, health professions related courses selected in consultation with an adviser.		3-5

Prerequisites Required.

## Certificate Learning Objectives

- **Preparation for Further Study:** Provide students without a science background the course work required to apply for admission to

medical, dental, optometry, veterinary science, podiatry, physical therapy, physician assistant, or other allied health schools.

## Academic Advising

The objectives of the university's academic advising program are to help advisees identify and achieve their academic goals, to promote their intellectual discovery, and to encourage students to take advantage of both in-and out-of class educational opportunities in order that they become self-directed learners and decision makers.

Both advisers and advisees share responsibility for making the advising relationship succeed. By encouraging their advisees to become engaged in their education, to meet their educational goals, and to develop the habit of learning, advisers assume a significant educational role. The advisee's unit of enrollment will provide each advisee with a primary academic adviser, the information needed to plan the chosen program of study, and referrals to other specialized resources.

READ SENATE POLICY 32-00: ADVISING POLICY (<https://senate.psu.edu/policies-and-rules-for-undergraduate-students/32-00-advising-policy/>)

## Erie

**Todd Cook, Ph.D.**

Assistant Professor of Biology

160 Nick

Erie, PA 16563

814-898-6292

tdc15@psu.edu

## Career Paths

Demonstrating success in foundational and advanced undergraduate scientific coursework can help you strengthen your health-related professional school application and potentially increase your chances of being placed in the university and program of your choice

## Careers

Employment in the health care sector is expected to grow much faster than the average for all occupations, adding about 2.3 million new jobs through 2026.

MORE INFORMATION ABOUT POTENTIAL CAREER OPTIONS FOR GRADUATES WITH A CERTIFICATE IN PREMEDICAL SCIENCES (<https://behrend.psu.edu/school-of-science/academic-programs-1/certificate-programs/premedical-certificate/>)

## Opportunities for Graduate Studies

The School of Science has an active health professions committee that assists certificate students in their professional-school search.

MORE INFORMATION ABOUT OPPORTUNITIES FOR GRADUATE STUDIES (<https://behrend.psu.edu/school-of-science/academic-programs-1/certificate-programs/premedical-certificate/>)

## Professional Resources

- American Medical Student Association (<https://www.amsa.org/>)
- Student National Medical Association (<https://snma.org>)

## Contact

### Erie

SCHOOL OF SCIENCE

1 Prischak  
4205 College Drive  
Erie, PA 16563  
814-898-6105  
behrend-science@psu.edu

<https://behrend.psu.edu/school-of-science> (<https://behrend.psu.edu/school-of-science/>)