

# PRE-MEDICAL SCIENCES STUDIES CERTIFICATE

This degree map is based on the 2023-24 Academic Catalog and is subject to change. These suggestions will change depending on the goals of the student and the target professional schools. Students should meet with their academic advisor each semester and use Degree Works to monitor their individual progress toward certificate completion. The time it takes to earn a certificate will vary based on several factors including summer/winter enrollment, dual enrollment and number of courses successfully completed each semester.

## Sample 4-Year Plan

| First Year                      |         |  |         |
|---------------------------------|---------|--|---------|
| Fall Courses                    | Credits | Spring Courses                         | Credits |
| MATH150 Essentials of Calculus  | 3       | BIOL211 Cell Biology                   | 4       |
| CHEM121 General Chemistry 1     | 4       | CHEM122 General Chemistry 2            | 4       |
| BIOL110 Principles of Biology 1 | 4       | PHYS208 Intro Physics 1                | 4       |
| PSYC100 Intro to Psychology     | 3       |  |         |
|                                 |         |  |         |
| Semester Total                  | 14      | Semester Total                         | 12      |
| Second Year                     |         |  |         |
| Fall Courses                    | Credits | Spring Courses                         | Credits |
| BIOL340 Microbiology            | 4       | BIOL209 Genetics                       | 3       |
| CHEM281 Organic Chemistry 1     | 4       | CHEM282 Organic Chemistry 2            | 4       |
| SOCI101 Intro Sociology         | 3       | PMSS300 Pre-Medical Sciences Seminar   | 1       |
| PHYS209 Intro Physics 2         | 4       |  |         |
|                                 |         |  |         |
| Semester Total                  | 15      | Semester Total                         | 8       |
| Third Year                      |         |  |         |
| Fall Courses                    | Credits | Spring Courses                         | Credits |
| CHEM351 Biochemistry 1          | 4       | Take admissions exam.                  |         |
|                                 |         | Submit professional school application |         |
|                                 |         |  |         |
|                                 |         |  |         |
| Semester Total                  | 4       | Semester Total                         | 0       |

### Winter/Summer College - Optional

While not required, Winter and Summer sessions are offered each year and may help you stay on track or get ahead. You may take up to seven (7) credits during Winter College and up to 14 credits during Summer College.

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## Curriculum Checklist

### Fall 2023 Commonwealth Course Name

- \_\_\_ BIOL110 Principles Biology 1 (4) **MDPVO**
- \_\_\_ CHEM121 General Chemistry 1 (4) **MDPVO**
- \_\_\_ CHEM122 General Chemistry 2 (4) **MDPVO**
- \_\_\_ CHEM281 Organic Chemistry 1 (4) **MDPVO**
- \_\_\_ CHEM282 Organic Chemistry 2 (4) **MDPVO**
- \_\_\_ CHEM351 Biochemistry 1 (4) **MDPVO**
- \_\_\_ PMSS300 Pre-Medical Sciences Studies Seminar (1) **MDPVO**
- \_\_\_ PSYC100 Intro to Psychology (3) **MDPVO**
- \_\_\_ SOCI101 Intro to Sociology (3) **MDPVO**

### Fall 2023 Commonwealth Elective Courses

#### *Physics Electives (choose one path)*

- \_\_\_ PHYS208 Intro Physics 1 (4)
- \_\_\_ PHYS209 Intro Physics 2 (4)
- \_\_\_ PHYS211 General Physics 1 (4)
- \_\_\_ PHYS212 General Physics 2 (4)

#### *Math Electives (choose one)*

- \_\_\_ MATH150 Essentials of Calculus (3) **M**
- \_\_\_ MATH160 Calculus 1 (4) **M**
- \_\_\_ STAT141 Statistics (3) **DPO**

#### *Biology Electives (choose three)*

- \_\_\_ BIOL209 Genetics (3) **MD**
- \_\_\_ BIOL211 Cell Biology (4) **MD**
- \_\_\_ BIOL315 Comparative Vertebrate Anatomy (3) **D**
- \_\_\_ BIOL340 Microbiology (4) **MD**
- \_\_\_ BIOL443 Molecular Biology (3)
- \_\_\_ BIOL446 Immunology (4)
- \_\_\_ BIOL474 Human Physiology (4) **D**

#### *Strongly Recommended (Not Required)*

- \_\_\_ Research or Independent Study (1)
- \_\_\_ BIOL180 Anatomy and Physiology 1 (4) **PO**
- \_\_\_ BIOL181 Anatomy and Physiology 2 (4) **PO**

## Certificate Requirements

These cover the common requirements with specific advisement notes for schools in medicine (**M**), dentistry(**D**), pharmacy(**P**), veterinary(**V**), and optometry(**O**).

All students must complete all requirements for the certificate. Meet with your advisor and consult Degree Works to monitor your progress and for all requirements.

*A minimum GPA of 3.2 in the major and overall are required.*

*A grade of C or better in all required courses.*

## Campus Locations

- |                   |  |
|-------------------|--|
| <b>Bloomsburg</b> | <input type="checkbox"/> Online; <input checked="" type="checkbox"/> In-person; <input type="checkbox"/> Blended |
| <b>Lock Haven</b> | <input type="checkbox"/> Online; <input checked="" type="checkbox"/> In-person; <input type="checkbox"/> Blended |
| <b>Mansfield</b>  | <input type="checkbox"/> Online; <input checked="" type="checkbox"/> In-person; <input type="checkbox"/> Blended |
| <b>Clearfield</b> | <input type="checkbox"/> Online; <input type="checkbox"/> In-person; <input type="checkbox"/> Blended            |