

BIOMEDICAL SCIENCES (MEDICAL LAB SCIENCE)

Bachelor of Science (BS)

This degree map is based on the 2023-24 Academic Catalog and is subject to change. Students should meet with their academic advisor each semester and use Degree Works to monitor their individual progress toward degree completion. The time it takes to earn a degree will vary based on several factors including summer/winter enrollment, dual enrollment and number of courses successfully completed each semester. We recommend taking a minimum of 15 credits each fall and spring semester.

Sample 4-Year Plan

First Year			
Fall Courses	Credits	Spring Courses	Credits
BIOL 110 Principles of Biology 1	4	BIOL180 A&P I	4
General Education	3	CHEM 121 General Chemistry 1	4
General Education	3	General Education	3
First Year Seminar	3	General Education	3
Semester Total	13	Semester Total	14
Second Year			
Fall Courses	Credits	Spring Courses	Credits
BIOL 181 A&P 2	4	BIOL 211 Cell Biology	4
CHEM 122 General Chemistry 2	4	CHEM 231 Condensed Organic Chemistry	4
STAT 141 Intro to Stats	3	General Education	3
General Education	3	General Education	3
General Education	3		
Semester Total	17	Semester Total	13
Third Year			
Fall Courses	Credits	Spring Courses	Credits
CHEM 351 Biochemistry	4	BIOL 443 Molecular Biology	3
BIOL 340 Microbiology	4	General Education	3
BIOL 446 Immunology	3	General Education	3
General Education	3	Free Elective	3
Free Elective	3	Free Elective	3
Semester Total	17	Semester Total	16
Fourth Year			
Fall Courses	Credits	Spring Courses	Credits
MedTech 401 Clinical Microbiology	6	MedTech 404 Clinical Immunohematology	6
MedTech 405 Clinical Immunology/Serology	2	MedTech 402 Clinical Hematology/Coagulation	6
MedTech 403 Clinical Chemistry	6	MedTech 406 Clinical Seminar	4
Semester Total	14	Semester Total	16

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

Biology Core Requirements (26 credits)

- ___ BIOL 110 Principles of Biology 1 (4)
- ___ BIOL 180 Anatomy and Physiology 1 (4)
- ___ BIOL 181 Anatomy and Physiology 2 (4)
- ___ BIOL 211 Cell Biology (4)
- ___ BIOL 340 Microbiology (4)
- ___ BIOL 443 Molecular Biology (3)
- ___ BIOL 446 *Immunology (3)

***Students seeking employment in New York State are encouraged to complete BIOL 447 Immunology Laboratory (available on the Mansfield campus only)**

Related Core Requirements (19 credits)

- ___ CHEM 121 General Chemistry 1 (4)
- ___ CHEM 122 General Chemistry 2 (4)
- ___ CHEM 231 Condensed Organic Chemistry (4)
- ___ CHEM 351 Biochemistry 1 (4)
- ___ STAT 141 Intro to Stats (3)

ELECTIVE COURSES FOR THE MAJOR

Credits from a NAACLS accredited MLS program (30 Credits)

- ___ MEDTECH 401 Clinical Microbiology (6-10)
- ___ MEDTECH 402 Clinical Hematology/Coagulation (6-10)
- ___ MEDTECH 403 Clinical Chemistry (6-10)
- ___ MEDTECH 404 Clinical Immunohematology (3-6)
- ___ MEDTECH 405 Clinical Immunology/Serology (2-4)
- ___ MEDTECH 406 Clinical Seminar (1-6)

General Education Requirements

(45 credits)

Note: Some requirements may be fulfilled by coursework in your major program including directed Gen Ed courses noted below

- Foundations (15 credits)
 - STAT Introduction to Statistics 141 (3)
- Interconnections (9 credits)
- Citizenship & Responsibility (6 credits from at least two goals)
- Natural World & Technologies (9 credits)
 - BIOL 110 Principles of Biology 1 (4)
 - BIOL 180 Anatomy and Physiology 1 (4)
 - CHEM 121 General Chemistry 1 (4)
- Creativity & Expression (6 credits)

Degree Requirements

All students must obtain a minimum of 120 credits, complete all General Education requirements, and all requirements for the selected major. Meet with your advisor and consult Degree Works to monitor your progress and for all graduation requirements.

A minimum GPA of 2.0 in the major and overall are required.

Campus Locations

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

Revised April, 2023