College of Science and Technology
Department of Biochemistry, Chemistry, Engineering and Physics

CHEMISTRY BA

Bloomsburg · LOCK HAVEN · MANSFIELD
COMMONWEALTH UNIVERSITY

Bachelor of Art (BA)

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
MATH160 Calculus I (General Education)	4	MATH170 Calculus 2	4
CHEM121 General Chemistry 1 (General Education)	4	CHEM122 General Chemistry 2 (General Education)	4
General Education Course	3	PHYS211 General Physics 1 (General Education)	4
General Education Course -- First Year Seminar	3	General Education Course	3
Semester Total	14	Semester Total	15

Second Year

Fall Courses	Credits	Spring Courses	Credits
CHEM281 Organic Chemistry 1	4	CHEM282 Organic Chemistry 2	4
PHYS212 General Physics 2	4	CHEM261 Inorganic Chemistry	4
General Education Course	3	General Education Course	3
Free Elective	3	Free Elective	3
General Education Course	3		
Semester Total	17	Semester Total	14

Third Year

Fall Courses	Credits	Spring Courses	Credits
CHEM341 Analytical Chemistry (Quantitative Analysis)	4	CHEM351 Biochemistry 1	4
CHEM371 Physical Chemistry 1	4	General Education Course	3
General Education Course	3	Free Elective	3
Free Elective	3	Free Elective	3
		Free Elective	2
Semester Total	14	Semester Total	15

Fourth Year

Fall Courses	Credits	Spring Courses	Credits
General Education Course	3	CHEM Research or Internship	1
Free Elective	3	General Education Course	3
Free Elective	3	Free Elective	3
Free Elective	3	Free Elective	3
Free Elective	3	Free Elective	3
		Free Elective	3
Semester Total	15	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

Fall 2023 Commonwealth Course Name

___ CHEM121 General Chemistry 1 (N) (4)
___ CHEM122 General Chemistry 2 (N) (4)
___ CHEM281 Organic Chemistry 1 (4)
___ CHEM282 Organic Chemistry 2 (4)
___ CHEM261 Inorganic Chemistry (4)
___ CHEM341 Quantitative Analysis (4)
___ CHEM371 Physical Chemistry 1 (4)
___ CHEM351 Biochemistry 1 (4)
___ MATH160 Calculus 1 (Q) (4)
___ MATH170 Calculus 2 (4)
___ PHYS211 General Physics 1 (N) (4)
___ PHYS212 General Physics 2 (4)

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)
    - FYS (U): FYS100 First Year Seminar
    - Writing (W):
    - Oral Comm. (O):
    - Quantitative (Q): MATH160 Calculus 1
    - History (H):
- Interconnections (9 credits)
    - Diversity (D):
    - Global Perspectives. (G):
    - D or G or Foreign Lang. (F):
- Citizenship & Responsibility
  (6 credits from at least two goals)
    - Goal 1: Citizenship (C):
    - Goal 2 Ethical Reasoning (E):
    - Goal 3: Crit. Reasoning (R):
- Natural World & Technologies (9 credits)
    - Natural World (N): CHEM121 General Chemistry 1
    - Natural World (N): CHEM122 General Chemistry 2
    - Technology (T): PHYS211 General Physics 1
- Creativity & Expression (6 credits)
    - Literature (L):
    - Arts (A) or Creativity (C):

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	☐ Online; ☒ In-person; ☐ Blended
Lock Haven	☐ Online; ☒ In-person; ☐ Blended
Mansfield	☐ Online; ☒ In-person; ☐ Blended
Clearfield	☐ Online; ☐ In-person; ☐ Blended