

- BIO 123: Biology I (F)
- BIO 124: Biology II (S)
- BIO 222: Cell & Molecular Biology (F)
- BIO 223: Genetics (S)
- BIO 325: Microbiology (F)
- CHM 415: General Biochemistry (S)
- CHM 416: Chemistry of Metabolism (S)
- CHM 417: Lab Studies in Biochemistry (S)

**Senior
Capstone:**

- CHM 422 (S)

Biochemistry Track

BIO 123	CHM 415
BIO 124	CHM 416
BIO 222	CHM 417
BIO 223	
BIO 325	

Allied Chemistry Courses

- | | |
|---|--|
| <input type="checkbox"/> MTH 222: Calculus I | 4 additional hours may
be selected from 300
and 400 level courses. |
| <input type="checkbox"/> MTH 223: Calculus II | |
| <input type="checkbox"/> PHY 101: General Physics | |
| <input type="checkbox"/> PHY 102: General Physics | |

Courses must be completed before CHM 307.

Foundational Chemistry Courses

Required:

- | | |
|---|---|
| <input type="checkbox"/> CHM 111: General Chemistry (F) | <input type="checkbox"/> CHM 305: Quantitative Analysis (F) |
| <input type="checkbox"/> CHM 112: General Chemistry (S) | <input type="checkbox"/> CHM 307: Physical Chemistry |
| <input type="checkbox"/> CHM 201: Organic Chemistry | |
| <input type="checkbox"/> CHM 202: Organic Chemistry | |

- CHM 308: Physical Chemistry
- CHM 370: Internship (with permission)
- CHM 404: Instrumental Analysis (S)
- CHM 405: Advanced Water Analysis (S)
- CHM 408: General Biochemistry (S)
- CHM 409: Independent Study
- CHM 411: Inorganic Chemistry
- CHM 412: Lab Studies in Organic Chemistry
- CHM 413: Advanced Topics in Chemistry
- CHM 415: General Biochemistry
- CHM 416: Chemistry of Metabolism
- CHM 417: Lab Studies in Biochemistry (S)
- CHM 475: Honors Course

Chemistry at Heidelberg College
(70 semester hours)
Biochemistry Track

Legend:

- (F) = Course offered Fall only
- (S) = Course offered Spring only

Sample Curriculum—Chemistry, Biochemistry Track**

First Year

Fall Semester

FYE 100 First Year Experience Seminar	3
CHM 111 General Chemistry	4
MTH 222 Calculus I	3
BIO 123 Biology I	4
General Education or Electives	2

Total 16 hrs.

Spring Semester

ENG 101 English Composition	3
CHM 112 General Chemistry	4
MTH 223 Calculus II	3
BIO 124 Biology II	4
General Education or Electives	1

Total 15 hrs.

Second Year

Fall Semester

CHM 201 Organic Chemistry	4
PHY 101 General Physics	4
BIO 222 Cell and Molecular Biology	4
COM 100 Oral Communication	3

Total 15 hrs.

Spring Semester

CHM 202 Organic Chemistry	4
PHY 102 General Physics	4
BIO 223 Genetics	4
General Education or Electives	3

Total 15 hrs.

Third Year

Fall Semester

CHM 305 Quantitative Analysis	4
CHM 307 Physical Chemistry (jwo)	4
General Education or Electives	7

Total 15 hrs.

Spring Semester

CHM 308 Physical Chemistry	4
CHM 404 Instrumental Analysis	4
CHM 415 General Biochemistry	3
CHM 417 Laboratory Studies in Biochemistry 1	
General Education or Electives	3

Total 15 hrs.

Fourth Year

Fall Semester

BIO 325 Microbiology	4
COR 300 Exploring the Liberal Arts	3
General Education or Electives	8

Total 15 hrs.

Spring Semester

CHM 422 Seminar	1
CHM 416 Chemistry of Metabolism	3
General Education or Electives	11

Total 15 hrs.

Need proficiency in math (place into MTH 121) before taking CHM 111.

CHM 307 offered fall of odd years; CHM 308 spring of even years

Students need an additional 4 hours of CHM

**Subject to change. Please consult department for current information. For more detailed program requirements see the college catalog.

For more information about Chemistry, Biochemistry Track, contact:

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