



2020-2021

CHEMISTRY GRADES 8-12 MAJOR, B.S.

Science & Health Department; School of Science, Health & Mathematics

Asbury is well known for the quality of its education programs, and science teachers are in demand. The Science and Health department offers majors leading to grades 8-12 certification in either Biology or Chemistry. Students interested in middle school certification choose two concentration areas, one of which can be Science.

To graduate must complete all major requirements, foundational requirements, and additional electives needed for 124 hour minimum degree requirement. This program may require more than 124 credits for a degree due to specific requirements.

MAJOR REQUIREMENTS (94)

| | | | | |
|------|-----|-----|------------------------------|--------|
| __ 3 | BIO | 201 | General Biology I | |
| __ 1 | BIO | 203 | General Biology Lab I | |
| __ 2 | BIO | 341 | Ethical Issues | |
| __ 3 | CHE | 121 | Gen College Chemistry I | |
| __ 3 | CHE | 122 | Gen College Chemistry II | |
| __ 1 | CHE | 123 | Gen College Chemistry Lab I | |
| __ 1 | CHE | 124 | Gen College Chemistry Lab II | |
| __ 4 | CHE | 201 | Organic Chemistry I | __ Lab |
| __ 4 | CHE | 202 | Organic Chemistry II | __ Lab |
| __ 4 | CHE | 321 | Analytical Chemistry | __ Lab |
| __ 1 | CHE | 399 | Intro to Chem Research | |
| __ 2 | CHE | 400 | Senior Research | |
| | | | | |
| __ 3 | ESC | 150 | Earth Science | |
| __ 1 | ESC | 151 | Earth Science Lab | |
| | | | | |
| __ 4 | MAT | 181 | Calculus I | __ Lab |
| __ 4 | MAT | 182 | Calculus II | __ Lab |
| | | | | |
| __ 4 | PHY | 201 | Intro Physics I | __ Lab |
| __ 4 | PHY | 202 | Intro Physics II | __ Lab |

Choose one:

| | | | | |
|------|-----|------|------------------------------|--------|
| __ 4 | BIO | 372+ | 374 Cell & Molecular Biology | |
| | CHE | 371 | Biochemistry | __ Lab |

Choose one:

| | | | | |
|------|-----|-----|-----------------------|--------|
| __ 4 | CHE | 421 | Physical Chemistry I | __ Lab |
| | CHE | 422 | Physical Chemistry II | __ Lab |

Complete Education Requirements:

| | | | |
|-------|----|-----|-------------------------------|
| __ 2 | ED | 200 | Intro to Education |
| __ 1 | ED | 201 | Struct Inquiry Clinical |
| __ 2 | ED | 220 | Tech for Education |
| __ 2 | ED | 230 | Human Growth/Development |
| __ 1 | ED | 301 | Guided Inquiry Clinical |
| __ 3 | ED | 320 | Exceptional Learner |
| __ 3 | ED | 385 | Read/Writ Across Curriculum |
| __ 1 | ED | 401 | Open Inquiry Clinical |
| __ 3 | ED | 405 | Learning/Performing Assess |
| __ 2 | ED | 410 | Classroom Management |
| __ 3 | ED | 420 | Secondary/P-12 Methods |
| __ 2 | ED | 428 | Interventions/Differentiation |
| __ 12 | ED | 499 | Student Teaching |

PLUS FOUNDATIONAL REQUIREMENTS (40)

(3 hours Math and 4 hours Science satisfied by required major courses; Foreign Language not required for B.S. CHEE majors. Degree becomes B.A. with completion of foreign language.)

Plus electives if needed for the 124 hour degree requirement