

CHEMISTRY GUIDED PATHWAY

Earn an Associate of Science in the Physical Science/ Chemistry Pathway from Central Piedmont Community College and transfer to Winthrop University to earn your Bachelor of Science in Chemistry. Students majoring in Chemistry can select one of five programs of study to tailor their curricula to meet their long-term professional objectives. Those programs are chemistry, biochemistry, forensic chemistry, health and chemical sciences, and pre-engineering. Students major in chemistry to pursue industrial or graduate opportunities in medicine, environmental science, computational molecular modeling, forensics, plastics, chemistry, textiles, health sciences, materials science, energy production, biotechnology, chemical engineering, pharmaceutical sciences, ceramics, environmental engineering, or toxicology.

10/24

| TERM 1 at Central Piedmont | | |
|---|-----------|---|
| Course | | √ |
| ENG 111: Writing and Inquiry | 3 | |
| ACA 122: College Transfer Success | 1 | |
| CHEM 151: General Chemistry I | 4 | |
| MAT 171: Precalculus Algebra | 4 | |
| HIS 111: World Civilizations, HIS 112: World Civilizations II, HIS 131: American History I, or HIS 132: American History II | 3 | |
| Total credits: | 15 | |

| TERM 2 at Central Piedmont | | |
|--|-----------|---|
| Course | | √ |
| ENG 112: Writing and Research in the Disciplines | 3 | |
| CHM 152: General Chemistry II | 4 | |
| MAT 172: Precalculus Trigonometry | 4 | |
| COM 231: Public Speaking | 3 | |
| | | |
| | | |
| Total credits: | 14 | |

| TERM 3 at Central Piedmont | | |
|-------------------------------|-----------|---|
| Course | | √ |
| MAT 271: Calculus I | 4 | |
| Behavioral/Social Science | 3 | |
| MAT 272: Calculus II | 4 | |
| PSY 150: General Psychology | 3 | |
| Art 114: Art History Survey I | 3 | |
| | | |
| | | |
| Total credits: | 17 | |

| TERM 4 at Central Piedmont | | |
|--|-----------|---|
| Course | | √ |
| PHY 151: College Physics I or PHY 251: General Physics I | 4 | |
| Humanities/Fine Arts | 3 | |
| POL 120: American Gov't | 3 | |
| BIO 275: Microbiology | 4 | |
| Language Elective | 3 | |
| | | |
| Total credits: | 17 | |

| TERM 5 at Winthrop University | | |
|--|-----------|---|
| Course | | √ |
| CHEM 301: Organic Chemistry I | 4 | |
| CHEM 305: Chemical Hygiene and Safety | 1 | |
| CHEM 491: Department Seminar | 0 | |
| HXCT: Human Experience/ Critical Reading, Writing and Thinking | 3 | |
| Math/Science Elective >299 | 4 | |
| Total credits: | 12 | |

| TERM 6 at Winthrop University | | |
|---|-----------|---|
| Course | | √ |
| CHEM 302 & 304: Organic Chemistry II with lab | 4 | |
| CHEM 312, 313 & 314: Introductory Chemometrics, Quantitative Analysis & Lab | 5 | |
| CHEM 492: Department Seminars | 0 | |
| Technology | 3 | |
| | | |
| Total credits: | 12 | |

| TERM 7 at Winthrop University | | |
|---|-----------|---|
| Course | | √ |
| CHEM 407 & 409: Physical Chemistry I with Lab | 4 | |
| CHEM 493: Department Seminar | 0 | |
| Math/Science Elective >299 | 4 | |
| CHEM 551: Research | 3 | |
| Physical Activity | 1 | |
| | | |
| Total credits: | 12 | |

| TERM 8 at Winthrop University | | |
|--|-----------|---|
| Course | | √ |
| CHEM 408 & 410: Physical Chemistry II with Lab | 4 | |
| CHEM 494: Department Seminar | 0 | |
| CHEM 495: Senior Seminar in Chemistry | 1 | |
| CHEM 552: Research | 3 | |
| Math/Science elective >299 | 4 | |
| | | |
| Total credits: | 12 | |