

Career Opportunities

Students pursuing a degree in Chemistry will be prepared for a variety of career options, including:

- Agriculture
- Biotechnology
- Environmental protection
- Fundamental or applied research
- Science policy
- Science writing
- Chemical Engineering

Learning Outcomes

With the knowledge students gain from their Chemistry studies, ODU graduates will be able to:

- Demonstrate knowledge of and mathematical proficiency in the core concepts of chemistry
- Know and practice the scientific method of iterative observation, hypothesis generation and experimentation
- Practice excellent technique in laboratory manipulations required for common chemistry experiments and comprehensive training in chemical safety
- Understand chemistry's interplay with other fields in integrated science
- Be prepared for a career in chemistry or graduate studies in the chemical sciences

Chemical Engineering and Materials Science Engineering 3+2 Four-Year Sample Plan

Year 1-Fall ENG 110 CORE 179 CHM 109 MTH 240	Year 2-Fall CORE 279 – Social Science CHM 231 PHY 219 MTH 242 HST	Year 3-Fall CORE 379 – PHL CHM 359 LNG 242 Literature CHM 439	Year 4-Fall MAT 509 CME 311 CME 312 MEE 312L
Year 1-Spring ENG 111 CHM 110 MTH 241 THL BIO 201	Year 2-Spring CHM 232 PHY 220 Art/Music/Theatre MTH 243 PHL 279	Year 3-Spring CHM 360 CHM 451 CHM 479 Social Science	Year 4-Spring MAT 502 CME 281 EGR 201 CHEM or BIO Elective
Year 1-Summer Elective (if needed)	Year 2-Summer Elective (if Needed)		

View course descriptions at ohiodominican.edu/Chemistry

Program Requirements

Core Courses (38 credits):

- BIO 201 General Biology: Cells, Genetics, and Evolution
- CHM 109 General Chemistry I
- CHM 110 General Chemistry II
- CHM 229 Organic Chemistry I
- CHM 230 Organic Chemistry II
- CHM 359 Analytical Chemistry
- CHM 360 Instrumental Methods of Analysis
- CHM 439 Thermodynamics and Kinetics
- CHM 451 Biochemistry
- CHM 479 Quantum Mechanics and Spectroscopy
- MTH 240 Calculus I
- MTH 241 Calculus II
- PHY 219 General Physics I
- PHY 220 General Physics II

Department Contact

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