



CHEMISTRY

Bachelor of Science

School of Mathematics, Science & Engineering

Program Overview

The Bachelor of Science in Chemistry degree is designed to give students a strong foundation in the chemical sciences providing for employment or future study in a variety of specialized areas. This degree is the recommended for students pursuing a career in chemical research, industry, or the health professions.

Career Opportunities

The chemistry degree prepares students for a variety of career and professional opportunities including:

- Chemical Research
- Energy Resources
- Biotechnology
- Environmental Science
- Intellectual Property Law
- Education
- Polymer and Organic Synthesis
- Forensics
- Quality Assurance
- Material Science
- Health Professions including:
 - Medicine
 - Pharmacy
 - Dentistry

Faculty

Faculty members in the Department of Chemistry have a strong commitment to undergraduate education. Faculty teach a full range of courses in their specialty areas including analytical, organic, inorganic, physical chemistry, and biochemistry. They are dedicated to developing students with a strong foundation in chemistry through coursework and research.

Rafael Adrian - Baylor University, Ph.D., Associate Professor
Alakananda Chaudhuri - Jadvpur University, Ph.D., Professor
Julian Davis - University of Texas at Austin, Ph.D., Associate Professor
Robert Garner - Ohio State University, Ph.D., Assistant Professor
Edward Gonzalez - University of Texas at Austin, Ph.D., Associate Professor
S. Bin Kong - University of Florida, Ph.D., Professor
Betsy Leverett - Purdue University, Ph.D., Assistant Professor
Brian McBurnett - University of Texas at Austin, Ph.D., Professor
John Stankus - Stanford University, Ph.D., Associate Professor
Dr. Rachell Booth, Associate Professor

Contact

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Website

www.uiw.edu/chemistry

Bachelor of Science in Chemistry
SCHOOL OF MATH, SCIENCE & ENGINEERING
2015-2017

Freshman Year: Fall		Hrs.
CHEM 1301 Chemical Principles I		3
BIOL 1402 Unity of Life and lab		4
DWHP 1200 Dimensions of Wellness		2
ENGL 1311 Composition I		3
Fine Arts Core		3
Total hours		15
Sophomore Year: Fall		
CHEM 2311 Organic Chemistry I		3
CHEM 2111 Organic Chemistry I Lab		1
MATH 2312 Calculus I		3
ENGL 2310 World Literature Studies		3
PHIL 1381 Introduction to Philosophy		3
Modern Language I		3
Total hours		16
Junior Year: Fall		
CHEM 3421/L Quant. Analysis & Lab		4
PHYS 2305 Physics I		3
PHYS 2105 Physics I Lab		1
Elective (upper division)		4
Social Science Core		3
Total hours		15
Senior Year: Fall		
CHEM 4431/L Physical Chem. I & Lab		4
CHEM 4351 Biochemistry I		3
CHEM 4151 Biochemistry I Lab		1
CHEM 33XX or 43XX		3
Elective		3
Total hours		14

Freshman Year: Spring		Hrs.
CHEM 1302 Chemical Principles II		3
CHEM 1203L General Chemistry Lab		2
MATH 1311 Pre-Calculus		3
ENGL 1312 Composition II		3
RELS 1305, 1315, 1325, 1335 or 1327H		3
Total hours		14
Sophomore Year: Spring		
CHEM 2312 Organic Chemistry II		3
CHEM 2112 Organic Chemistry II Lab		1
MATH 2313 Calculus II		3
RELS/PHIL 33XX		3
Modern Language II		3
PEHP 11XX		1
Total hours		14
Junior Year: Spring		
CHEM3441/L Inorganic Chemistry and Lab		4
CHEM4260 Chemistry Research		2
PHYS 2306 Physics II		3
PHYS 2106 Physics II Lab		1
Elective		3
HIST 13XX		3
Total hours		16
Senior Year: Spring		
CHEM 4422/L Instrument Analysis & Lab		4
CHEM 4432/L Physical Chem. II & Lab		4
Elective		3
Elective		3
Elective		3
Total hours		17

Core Curriculum - Total Hours 43
Major - Total Hours 78
Degree - Total Hours 121