

BIOCHEMISTRY Bachelor of Science

School of Mathematics, Science & Engineering

The Bachelor of Science degree in Biochemistry is designed to give students **Program Overview** a strong foundation in the chemical and biological sciences providing for employment or future study in a variety of specialized areas. This degree is the recommended for students pursuing a career in biotechnology, medical research, pharmaceutical chemistry, or the health professions. The biochemistry degree prepares students for a variety of career and **Career Opportunities** professional opportunities including: Biochemical Research • Drug Development • Forensics Biotechnology Environmental Science · Health Professions including: Food Quality Control Medicine Intellectual Property Law Pharmacy Education • Dentistry Faculty members in the Department of Chemistry have a strong commitment Faculty 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 Dr. Rafael Adrian Contact University of the Incarnate Word 4301 Broadway, CPO 311 San Antonio, TX 78209 adrian@uiwtx.edu Website www.uiw.edu/chemistry continued on reverse side SISTERS OF CHARITYO

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

Hrs.

Freshman Year: Fall	Hrs.	Freshman Year: Spring
CHEM 1301 Chemical Principles I	3	CHEM 1302 Chemical Principles II
BIOL 1402 Unity of Life and Lab	4	CHEM 1203L General Chemistry Lab
DWHP 1200 Dimension of Wellness	2	BIOL 1403 Evolution, Ecology, and Biodiversity
ENGL 1311 Composition I	3	MATH 1311 Pre-Calculus
HIST 13XX	3	ENGL 1312 Composition II
PEHP 11XX	1	
Total hours	16	Total hours
Sophomore Year: Fall		Sophomore Year: Spring
CHEM 2311 Organic Chemistry I	3	CHEM 2312 Organic Chemistry II
CHEM 2111 Organic Chemistry I Lab	1	CHEM 2112 Organic Chemistry II Lab
MATH 2312 Calculus I	3	MATH 2313 Calculus II
ENGL 2310 World Literature Studies	3	RELS/PHIL 33XX
PHIL 1381 Introduction to Philosophy	3	Modern Language I
RELS 13XX	3	Fine Arts Core
Total hours	16	Total hours
Junior Year: Fall		Junior Year: Spring
CHEM 4351 Biochemistry I	3	CHEM 3421/L Quant. Analysis & Lab
CHEM 4151 Biochemistry Lab	1	CHEM 4352 Biochemistry II
BIOL 34XX (4 credits from: 3411, 3461 or 3471)	4	BIOL 34XX (4 credits from: 3411, 3461 or 3471)
PHYS 2305 Physics I	3	PHYS 2306 Physics II
PHYS 2103 Physics I Lab	1	PHYS 2106 Physics II Lab
Modern Language II	3	
Total hours	15	Total hours
Senior Year: Fall		Senior Year: Spring
CHEM4431/L Physical Chemistry I & Lab	4	CHEM 34XX, CHEM 44XX or BIOL 34XX
CHEM 4260 Chemistry Research	2	Elective (upper division)
Social Science Core	3	Elective
Elective	3	Elective
Elective (upper division)	3	Elective
Total Hours	15	Total Hours
Core Curriculum - To Major - To	tal Hours tal Hours	s 43 s 81

Degree - Total Hours 124