Chemistry & Biochemistry MAJOR MAP

Possible Programs of Study:

	1ST YEAR	2ND YEAR	3RD YEAR	4TH OR FINAL Y
COURSEWORK & MILESTONES (core courses, requirements, electives)	Primary focus on college introductory science cultural experience via calculus and chemistry.	Engagement in mainstream mid-level college science courses in physics, organic chemistry, and quantitative analysis. Development of lab skills; increased understanding of chemical hygiene and safety culture practiced widely throughout industry through completion of course in this area.	Engagement in mainstream upper-level college science courses in physical chemistry, biochemistry, inorganic chemistry, and analytical chemistry. Continued development of laboratory skills; increased understanding of chemical hygiene and safety culture practiced widely throughout industry.	Complete advanced in work in chemistry. Complete senior semin
RELEVANT				
EXPERIENCE (clubs, jobs, volunteering, research, internships)	Students starting in CHEM105 have opportunity to pursue General Chemistry laboratory honors research experiences in spring. Possible summer research or internship experience for students who have taken Organic Chemistry.	Conduct 6-10 weeks of paid full-time research during the summer or use chemistry laboratory experience to leverage internship in industry in area of professional interest.	Conduct 6-10 weeks of paid full- time research during the summer at Winthrop, a national lab, or a major research center. Opportunity also to use hand-on chemistry laboratory experience to leverage internship in industry in area of professional interest.	Conduct year-long sen project overseen by a t faculty committee.
COMMUNITY				
CONNECTION (conferences, student gov't, associations)	Opportunity to participate in Winthrop's professional chemistry association that is a recognized Student Chapter of the American Chemical Society (SAACS). The American Chemical Society is the world's largest science association.	Visit with faculty, meet with students, and join an active research group. Attend all monthly chemistry seminars given by outside scientists from academia, government or industry.	Attend all monthly chemistry seminars given by outside scientists from academia, government or industry. Present your research at intra-and extramural conferences, networking with attendees.	Opportunity to assume positions instudent orga Present your research a extramural conferences with attendees.
GLOBAL THINKING (study abroad, travel, 3rd year exchange)	Attend Winthrop cultural events focusing on other cultures or on international issues.	Consider Study Abroad options, especially short-term, Winthrop faculty- led programs. Students wishing to study abroad for a semester should start planning early with their advisors.	Consider volunteering at a community organization or agency where you can practice your second language skills or learn more about people from other cultures.	Consider volunteering a organization or agency practice your second la or learn more about peo cultures.
LIFE AFTER GRADUATION (career or grad school prep)	Review the chemistry curriculum and general education requirements and learn about specific degree tracks. Consult with your academic advisor to review program requirements and long-	Consider adding a minor in another field such as biology, mathematics, or physics. Meet with your advisor to check progress to degree	Prepare for any required tests for graduate or professional school (e.g., GRE, MCAT). Consider visiting schools of interest.	Complete applications schools, professional he resumes for industrial p
	term goals, and develop a 4-year plan.		Investigate potential jobs/employers.	





at a community where you can anguage skills cople from other

to graduate ealth schools, or positions.

AFTER GRADUATION

CAREERS OF INTEREST

With a degree in chemistry or biochemistry you may consider careers as a:

Chemical or biochemical scientist/ researcher Doctoral health professional (Physician, dentist, veterinarian, pharmacist, physical therapist) Forensic scientist Engineer Science teacher Technical salesperson Patent/intellectual property lawyer Scientific/technical writer

SKILLS & QUALIFICATIONS I MIGHT NEED INCLUDE:

Research and/or internship experience relevant to career plans Ability to work in teams Analytical and problem-solving skills Communication skills