



NORTHEASTERN STATE UNIVERSITY

College of Science & Health Professions

2018 – 2019 Chemistry – Biochemistry

First Year – Freshman

Fall Semester	Spring Semester
ENGL 1113* Freshman Comp I	ENGL 1213* Freshman Comp II
BIOL 1013* Introductory Biology I	CHEM 1123* General Chemistry I
BIOL 1011* Introductory Biology I Lab	CHEM 1131* General Chemistry I Lab
HIST 1483 or 1493* American History	Communications, 3 hours*
MATH 1513* College Algebra	POLS 1113* American Federal Government
UNIV 1003* University Strategies	H ED 1113 Personal Health or NUTR 1653 Basic Nutr.
Total Hours 16	Total Hours 16

Second Year – Sophomore

Fall Semester	Spring Semester
CHEM 1223 General Chemistry II	CHEM 3123 Organic Chemistry I
CHEM 1231 General Chemistry II Lab	CHEM 3132 Organic Chemistry I Lab
MATH 3513 Statistical Methods	BIOL 3124 Cell Biology
Social and Behavioral Sciences, 3 hours*	Humanities elective, 3 hours*
Humanities elective, 3 hours*	Elective for minor, 3 hours
Life Skills Elective, 3 hours*	
Total Hours 16	Total Hours 15

Third Year – Junior

Fall Semester	Spring Semester
CHEM 3223 Organic Chemistry II	CHEM 4214 Biochemistry
CHEM 3232 Organic Chemistry II Lab	CHEM 4221 Biochemistry Lab
CHEM 3315 Quantitative Analysis	PHYS 2115 Engineering Physics I
MATH 2614 Calculus I	Elective for minor, 3 hours
	Calculus II or Free Elective, 4 hours
Total Hours 14	Total Hours 17

Fourth Year – Senior

Fall Semester	Spring Semester
CHEM 4524 Physical Chemistry I or CHEM 4313 Biophysical Chemistry, 3-4 hrs	Free Electives, 2 hours
CHEM 4412 Research in Chemistry I	CHEM 4911 Chemistry Seminar
CHEM 4723 Advanced Biochemistry	CHEM Advanced Elective, 3 hours
Electives for minor, 6-7 hours	Global Perspectives Elective, 3 hours*
	Electives for minor, 6 hours
Total Hours 15	Total Hours 15

Total Degree Plan Hours 124

*General Education Requirement. **See current catalog "General Requirements" for selection.

03/15/2018