



# NORTHEASTERN STATE UNIVERSITY

College of Science & Health Professions

## 2018 – 2019 Chemistry – Professional

### 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
MATH 1513* College Algebra	Communications elective, 3 hours*
UNIV 1003* University Strategies	POLS 1113* American Federal Government
HIST 1483 or 1493* American History	H ED 1113* Personal Health or NUTR 1653 Basic Nutr.
<b>Total Hours 16</b>	<b>Total Hours 16</b>

### 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	MATH 2614 Calculus I
Humanities elective, 3 hours*	Humanities elective, 3 hours*
Global Perspectives Elective, 3 hours*	Social and Behavioral Science elective, 3 hours*
Life Skills Elective, 3 hours*	
<b>Total Hours 16</b>	<b>Total Hours 15</b>

### Third Year – Junior

Fall Semester	Spring Semester
CHEM 3315 Quantitative Analysis	CHEM 4214 Biochemistry
CHEM 3223 Organic Chemistry II	PHYS 2115 Engineering Physics I
CHEM 3232 Organic Chemistry II Lab	CHEM 4221 Biochem Lab or CHEM 3421 Inorg Chem Lab
CHEM 3413 Inorganic Chemistry (offered in odd years) or Free Elective, 3 hours	Upper Division Chemistry Elective, 3 hours
MATH 2624 Calculus II	Free elective, 2 hours
<b>Total Hours 17</b>	<b>Total Hours 15</b>

### Fourth Year – Senior

Fall Semester	Spring Semester
CHEM 4524 Physical Chemistry I	CHEM 4624 Physical Chemistry II
PHYS 2215 Engineering Physics II	CHEM 4714 Instrumental Analysis
CHEM 4412 Research in Chemistry I	CHEM 4911 Chemistry Seminar I
CHEM 3413 Inorganic Chemistry (offered in odd years) or Free Elective, 3 hours	Free electives, 6 hours
<b>Total Hours 14</b>	<b>Total Hours 15</b>

### Total Degree Plan Hours 124

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