



# NORTHEASTERN STATE UNIVERSITY

*College of Science & Health Professions*

## 2020 – 2021 Cell and Molecular Biology

### First Year – Freshman

Fall Semester	Spring Semester
MATH 1513* College Algebra	CHEM 1123* General Chemistry I
BIOL 1013* Intro Biology I	CHEM 1131* General Chemistry I Lab
BIOL 1011* Intro Biology I Lab	BIOL 1023 Intro Biology II
ENGL 1113* Freshman Comp I	BIOL 1021 Intro Biology II Lab
Life Skills, 3 hours*	ENGL 1213* Freshman Comp II
UNIV 1003* University Strategies	Communications, 3 hours*
<b>Total Hours 16</b>	<b>Total Hours 14</b>

### Second Year – Sophomore

Fall Semester	Spring Semester
CHEM 1223 General Chemistry II	BIOL 3124 Cell Biology
CHEM 1231 General Chemistry II Lab	BIOL 3224 Microbiology
BIOL 3114 Genetics	CHEM 3123 Organic Chemistry I
POLS 1113* American Federal Government	CHEM 3131 Organic Chemistry I Lab
H ED 1113 Personal Health or NUTR 1653 Basic Nutrition	MATH 3513 Statistical Methods
HIST 1483 or 1493* American History	
<b>Total Hours 17</b>	<b>Total Hours 15</b>

### Third Year – Junior

Fall Semester	Spring Semester
BIOL 4543 Molecular Biology	BIOL 4103 Developmental Biology
CHEM 3223 Organic Chemistry II	Research in Biology or Experimental Design, 2 hours
CHEM 3231 Organic Chemistry II Lab	CHEM 4214 Biochemistry
PHYS 1114 General Physics I	PHYS 1214 General Physics II
Humanities, 3 hours*	Social Sciences, 3 hours*
<b>Total Hours 14</b>	<b>Total Hours 16</b>

### Fourth Year – Senior

Fall Semester	Spring Semester
BIOL 4232 Molecular and Cellular Biology Lab	BIOL 4621 Senior Seminar
Global Perspectives, 3 hours*	BIOL 4242 Trends and Issues in Molecular Biology
Biology elective, 4 hours	Biology elective, 4 hours
Free electives, 3 hours	BIOL 4354 Immunology
Humanities, 3 hours*	Free electives, 6 hours
<b>Total Hours 15</b>	<b>Total Hours 17</b>

### Total Degree Plan Hours 124

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