



# NORTHEASTERN STATE UNIVERSITY

*College of Science & Health Professions*

## 2016 – 2017 Applied Physics

### First Year – Freshman

<b>Fall Semester (even)</b>	<b>Spring Semester (odd)</b>
ENGL 1113* Freshman Comp I	ENGL 1213* Freshman Comp II
MATH 2614 Calculus I	MATH 2624 Calculus II
CS 2014 Computer Science I	PHYS 2115 Engineering Physics I
UNIV 1003* University Strategies	CS 2163 Computer Science II
<b>Total Hours 14</b>	<b>Total Hours 15</b>

### Second Year – Sophomore

<b>Fall Semester (odd)</b>	<b>Spring Semester (even)</b>
MATH 2633 Calculus III	PHYS 3103 Mathematical Methods in Physics
PHYS 2215 Engineering Physics II	PHYS 3213 Modern Physics
HIST 1483 or 1493* American History	POLS 1113* American Federal Government
Free Electives, 2 hours	Life Skills Elective, 3 hours*
COMM 1113* Fundamentals of Communication	Free Electives, 3 hours
<b>Total Hours 16</b>	<b>Total Hours 15</b>

### Third Year – Junior

<b>Fall Semester</b>	<b>Spring Semester</b>
PHYS 3613 Optical Instrumentation (even) OR PHYS 3004 Scientific Computation (odd)	PHYS 3413 Thermodynamics and Statistical Mechanics (odd) OR PHYS 4114 Electricity and Magnetism (even)
PHYS 3113 Mechanics (even) OR PHYS 3714 Electronics (odd)	PHYS 4323 Physics for Engineers (odd) OR PHYS 4503 Advanced Physics Lab (even)
Guided Major Elective: PHYS 4254 Quantum Mechanics (even) OR Social Sciences, 3 hours* (odd)	Biological Science, 3 hours*
Humanities, 3 hours*	Humanities, 3 hours*
Global Perspectives Elective, 3 hours*	Free Electives, 4 hours
<b>Total Hours 15-18</b>	<b>Total Hours 16-17</b>

### Fourth Year – Senior

<b>Fall Semester</b>	<b>Spring Semester</b>
PHYS 3613 Optical Instrumentation (even) OR PHYS 3004 Scientific Computation (odd)	PHYS 3413 Thermodynamics and Statistical Mechanics (odd) OR PHYS 4114 Electricity and Magnetism (even)
PHYS 3113 Mechanics (even) OR PHYS 3714 Electronics (odd)	PHYS 4323 Physics for Engineers (odd) OR PHYS 4503 Advanced Physics Lab (even)
PHYS 4901 Research in Physics	Guided Major Elective: PHYS 3623 Wave Optics (even) OR Humanities, 3 hours* (odd)
H ED 1113 Personal Health or NUTR 1653 Basic Nutr.	PHYS 4350 Senior Seminar, 1 hour
Guided Major Elective: PHYS 4254 Quantum Mechanics (even) OR Social Sciences, 3 hours* (odd)	PHYS 4901 Research in Physics
Free electives, 2 hours*	Free electives, 3 hours
<b>Total Hours 15-18</b>	<b>Total Hours 14-15</b>

**Total Degree Plan Hours 124**

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

04/12/2018