



NORTHEASTERN STATE UNIVERSITY

College of Science & Health Professions

2020 – 2021 Applied Physics

First Year – Freshman

Fall Semester	Spring Semester
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
Total Hours 14	Total Hours 15

Second Year – Sophomore

Fall Semester	Spring Semester
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
Communications, 3 hours*	Life Skills elective, 3 hours*
Free Elective, 3 hours	Free Elective, 3 hours
Total Hours 17	Total Hours 15

Third Year – Junior

Fall Semester	Spring Semester
PHYS 3613 Optical Instrumentation (even) OR PHYS 3004 Scientific Computation (odd)	PHYS 3413 Thermal Physics (odd) OR PHYS 4114 Electrodynamics (even)
PHYS 3113 Mechanics (even) OR PHYS 3714 Electronics (odd)	PHYS 4323 Physics for Engineers (odd) OR PHYS 4503 Advanced Physics Lab (even)
Social Sciences elective, 3 hours	Biological Science, 3 hours*
Humanities, 3 hours*	Humanities, 3 hours*
Global Perspectives Elective, 3 hours*	Free Elective, 3 hours
Total Hours 15-17	Total Hours 15-16

Fourth Year – Senior

Fall Semester	Spring Semester
PHYS 3613 Optical Instrumentation (even) OR PHYS 3004 Scientific Computation (odd)	PHYS 3413 Thermal Physics (odd) OR PHYS 4114 Electrodynamics (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	Applied Physics elective, 3 hours
H ED 1113 Personal Health or NUTR 1653 Basic Nutrition	PHYS 4350 Senior Seminar, 1 hour
Applied Physics elective, 3 hours	PHYS 4901 Research in Physics
Free elective, 3 hours	Free elective, 3 hours
Total Hours 16-18	Total Hours 14-15

Total Degree Plan Hours 124

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

04/16/2020