

## Current curriculum Mathematics and Physics (Material Science Concentration)

<b>Courses in the Revised Curriculum for Mathematics and Physics (Material Science Concentration) Effective Fall 2018</b>
First Year Experiences I; FYE 101 (1)
First Year Experiences II; FYE 102 (1)
Freshman Composition I; ENG 101 (3)
Freshman Composition II; ENG 102 (3)
Calculus I; MATH 153 (3)
Calculus II; MATH 154 (3)
Principles of Biology I; BIOL 113 (3) & BIOL 115 L (1)
General Physics I; PHYS 153 (3) & PHYS 153 L (1)
General Physics II; PHYS 154 (3) & PHYS 154 L (1)
World History ; HIST 103 (3)
<b>3</b> Hours of Humanities from the list of courses available*
<b>3</b> Hours of Humanities from the list of courses available*
<b>3</b> Hours of Social sciences from the list of courses available*
<b>3</b> Hours of Social sciences from the list of courses available*
<b>3</b> Hours of Fine & Performing Arts from the list available*
Computer Science I (CS 110) (3)
Computer Science II; CS 120 (3)
General Education Testing; GET 300 (0)
Data Structures and Algorithm Analysis (CS 236) (3)
General Chem. I; CHEM 111 (3) & CHEM 113 L (1)
Calculus III; MATH 201 (3)
Probability and Statistics I; MATH 273 (3)
Linear Algebra; MATH 309 (3)
Differential Equations; MATH 403 (3)
Modern Physics; PHYS 219 (3)
Modern Physics Lab I; PHYS 219L (1)
Thermodynamics; PHYS 304 (3)
Mechanics I; PHYS 305 (3)
Electromagnetic Theory I; PHYS 403 (3)
General Chemistry II; CHEM 112 (3)
General Chemistry II Lab; CHEM 114 (1)
Organic Chem. I; CHEM 223 (3) & CHEM 225 L (1)
Strength of Materials; ETC 306 (3)
Drafting Design Engineering Technology Lab; DET 309 (1)
Advanced Laboratory, PHYS 401 (2)
Optics; PHYS 222 (3)
Electronics; PHYS 350 (3)
Electronic Properties of Materials; PHYS 400 (3)
Quantum Mechanics I; PHYS 410 (3)
Projects in Physics I; PHYS 423 (3)
<b>Nine (9) hours of major Electives from Deductive Mathematics; MATH 202 (3), Mechanics II; PHYS 306 (3), Ethics in Scientific Research; BIOL 407 (3), Engineering Materials &amp; Processing; ETC 202 (2) with an additional one hour lab; Numerical Methods; MATH 421 (3), Electromagnetic Theory II; PHYS 404 (3). In addition, 300 or higher level engineering technology and computer science courses can be taken with the permission of the Department.</b>
<b>TOTAL: 120 Hours</b>

**\* SPECIFIC COURSES AVAILABLE IN GENERAL EDUCATION COURSE-LIST**