

Updated 6/16/2017

FRESHMAN			SOPHOMORE			JUNIOR			SENIOR			
Fall	Winter	Spring	Fall	Winter	Spring	Fall	Winter	Spring	Fall	Winter	Spring	
	<i>General Physics IA</i> <b>PHYS 141 (4)<sup>2</sup></b> (MATH 141 w/min C- & MATH 142 or 182 <sup>1</sup> )	<i>General Physics II</i> <b>PHYS 132 (4)<sup>2</sup></b> (PHYS 131 or 141 or HNRS 131) [B3/B4]	<i>General Physics III</i> <b>PHYS 133 (4)<sup>2</sup></b> (PHYS 131, 141, or HNRS 131; MATH 142. Recom: MATH 241)	<i>Modern Physics I</i> <b>PHYS 211 (4)</b> (PHYS 132 and 133 and MATH 241)	<i>Modern Physics II</i> <b>PHYS 212 (4)</b> (PHYS 211)	<i>Classical Mechanics I</i> <b>PHYS 302 (4)</b> (PHYS 131 or 141; MATH 241; MATH 242 or 244)	<i>Thermal Physics</i> <b>PHYS 301 (4)</b> (PHYS 211)	<i>Quantum Mechanics I</i> <b>PHYS 405 (4)</b> (PHYS 212; 302; 322; MATH 241; & MATH 242 or 244)	<i>Electromagnetic Fields &amp; Waves I</i> <b>PHYS 408 (4)</b> (PHYS 133 and MATH 304)	<b>Technical Elective (4)<sup>4</sup></b> *	<b>Technical Elective (4)<sup>4</sup></b> *	
<i>Calculus I</i> <b>MATH 141 (4)<sup>1</sup></b> * [B1]	<i>Calculus II</i> <b>MATH 142 (4)<sup>1</sup></b> (MATH 141 w/min C-) [B1]	<i>Calculus III</i> <b>MATH 143 (4)<sup>1</sup></b> (MATH 142 w/min C-)	<i>Calculus IV</i> <b>MATH 241 (4)</b> (MATH 143)	<i>Linear Analysis I</i> <b>MATH 244 (4)</b> (MATH 143)	<i>Linear Analysis II</i> <b>MATH 344(4)</b> (MATH 206 & 242, or 241 & 244)	<i>Vibrations and Waves</i> <b>PHYS 322 (3)</b> (PHYS 132; and MATH 242 or 244. Recom: MATH 344)	<i>Quantum Physics Laboratory II</i> <b>PHYS 341 (2)</b> (PHYS 340)	<i>Vector Analysis</i> <b>MATH 304 (4)</b> (MATH 206 or 244, and MATH 241)	<i>Senior Project I</i> <b>PHYS 461 (2)</b> <b>OR</b> <b>PHYS 463 (2)</b> (Instructor Consent)	<i>Senior Project II</i> <b>PHYS 462 (2)</b> <b>OR</b> <b>PHYS 464 (2)</b> (Instructor Consent)	<b>Technical Elective (4)<sup>4</sup></b> *	
<i>Gen Chem for Physical Science &amp; Engineering I</i> <b>CHEM 124 (4)<sup>2</sup></b> *	<i>Gen Chem for Physical Science &amp; Engineering II</i> <b>CHEM 125 (4)<sup>2</sup></b> (CHEM 124)	<b>GE (4)</b> **	<b>GE (4)</b> **	<i>Experimental Physics</i> <b>PHYS 206 (4)</b> (PHYS 133 and MATH 143)	<i>Physics on the Computer</i> <b>PHYS 202 (4)</b> (PHYS 133; and MATH 241 or 244)	<i>Quantum Physics Laboratory I</i> <b>PHYS 340 (2)</b> (PHYS 206; PHYS 212; & one: PHYS 202, CSC 101, 231, or 234)	<b>Technical Elective (4)<sup>4</sup></b> *	<b>Technical Elective (3)<sup>4</sup></b> *	<b>Technical Elective (2)<sup>4</sup></b> *			
<i>Expository Writing ENGL 133/134 (4)**</i> [A1] Can be taken anytime during Freshman Year			<b>GE (4)</b> **	<b>GE (4)</b> **	<b>GE (4)</b> **	<b>GE (4)</b> **	<b>GE (4)</b> **	<b>GE (4)</b> **	<b>GE (4)</b> **	<b>GE (4)</b> **	<b>GE (4)</b> **	
<i>Oral Communication COMS 101/102 (4)**</i> [A2] Can be taken anytime during Freshman Year										<b>Free Elective (4)<sup>3</sup></b>	<b>Free Elective (4)<sup>3</sup></b>	
<b>GE (4)</b> **	<i>Reasoning, Argumentation, &amp; Writing [A3]</i> <b>COMS 126; COMS/ENGL 145; ENGL 148; PHIL 126 (4)**</b> (Completion of GE A1 with a C- or better) Can be taken anytime between Winter of Freshman and Winter of Sophomore Years.					<b>Graduation Writing Requirement GWR*</b> (Students can attempt to fulfill the requirement after 90 earned units; students should complete the requirement before senior year)						
16	16	16	16	16	16	16	13	14	15	12	14	12-16
										<b>TOTAL:</b>	<b>180</b>	

**Notes:**

**MOST GENERAL EDUCATION COURSES CAN BE TAKEN IN ANY ORDER AS LONG AS PREREQUISITES ARE MET**

\* Refer to current catalog for prerequisites.

\*\* One course from each of the following GE areas must be completed: A1, A2, A3, B2, C1, C2, C3, C4, C1-C5 elective, D1, D2, D3, D4, D5 and F.

C4, D5 and F should be taken only after Junior standing is reached (90 units).

Refer to online catalog for GE course selection, United States Cultural Pluralism (USCP) and Graduation Writing Requirement (GWR).

USCP requirement can be satisfied by some (but not all) courses within GE categories: C3, C4, D1, D3, D4, D5 or F.

† Course can be taken previously or concurrently.


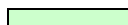

<sup>1</sup> Calculus workshops (Math 151, 152, 153) are recommended for elective credit. They require concurrent enrollment in the associated section of Calculus.

<sup>2</sup> Supplemental Workshops (SCM 150) recommended in your first year. These courses will count for elective credit.

<sup>3</sup> 8 total units of elective credit required for the major. Electives can be taken at anytime. MATH 151 & SCM 150 workshops recommended.

<sup>4</sup> Complete 21 units of Advanced Physics Electives. Select 9 units of PHYS 300 or 400 level electives. Select an additional 12 units of 300-400 courses from the following prefixes: PHYS/ASTR/GEOL/MATH/STAT/CSC with at least 2 courses from PHYS 323, 342, 357, 417, 422, 423, 452; ASTR 444 and at least 1 course from PHYS 424 or MATH 418. Total combined elective credit in PHYS 400, PHYS 404, ASTR 400, ASTR 404, GEOL 400, and GEOL 404 limited to 8 units, with a maximum of 2 units per quarter.

**Legend:**

<i>Course Title</i>		<b>Major (112)</b>
<b>Course # (Units)</b>		<b>General Ed. (60)</b>
<i>(Prerequisite)</i>		<b>Free Electives (8)</b>
[GE Area]		