

# Physics/Math Double Major (B.S.) Sample Course Planner

Fall 2015

## FRESHMAN

<i>Fall</i>			<i>Spring</i>		
<u>Course</u>	<u>Title</u>	<u>Credits</u>	<u>Course</u>	<u>Title</u>	<u>Credits</u>
PHYS 171	Introductory Projects in Physics	1	PHYS 251	University Physics I	4
UNIV 189	Skills for Academic Success	1	PHYS 251L	University Physics I Lab	1
MATH 165	Calculus I	4	PHYS 251R	University Physics I Recitation	1
CHEM 150	Principles of Chemistry I	3	MATH 166	Calculus II	4
CHEM 160	Principles of Chemistry I Lab	1	CHEM 151	Principles of Chemistry II	3
ENGL 110*	College Composition I	3	CHEM 161	Principles of Chemistry II Lab	1
ENGL 120**	College Composition II	3	COMM 110	Fundamentals of Public Speaking	3
	Wellness Elective	2	Total		17
Total		18			

\*Credit automatically granted if you earn a "C" in ENGL 120.

\*\*Can enroll in ENGL 120 if ACT English score  $\geq 18$ .

## SOPHOMORE

<i>Fall</i>			<i>Spring</i>		
<u>Course</u>	<u>Title</u>	<u>Credits</u>	<u>Course</u>	<u>Title</u>	<u>Credits</u>
PHYS 252	University Physics II	4	PHYS 350	Modern Physics I	3
PHYS 252L	University Physics II Lab	1	MATH 266	Intro to Differential Equations	3
PHYS 252R	University Physics II Recitation	1	MATH 429	Linear Algebra	3
MATH 265	Calculus III	4	CSCI 160	Computer Science I	4
MATH 270	Intro to Abstract Math	3		Humanities/Fine Arts Elective	3
	Humanities/Fine Arts Elective <sup>a</sup>	3		Social/Behavioral Science Elective	3
Total		16	Total		19

## JUNIOR

<i>Fall (Odd Years)</i>			<i>Spring (Even Years)</i>		
<u>Course</u>	<u>Title</u>	<u>Credits</u>	<u>Course</u>	<u>Title</u>	<u>Credits</u>
PHYS 360	Modern Physics II	3	PHYS 370	Intro to Computational Physics	3
PHYS 455	Classical Mechanics	3	PHYS 486	Quantum Mechanics II	3
PHYS 485	Quantum Mechanics I	3	ENGL 324	Writing in the Sciences	3
MATH 420	Abstract Algebra I	3	MATH 421/451	Abstract Algebra II or Real Analysis II	3
MATH 450	Real Analysis I	3		Social/Behavioral Science Elective	3
Total		15	Total		15

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## **SENIOR**

<i>Fall (Even Years)</i>			<i>Spring (Odd Years)</i>		
<u>Course</u>	<u>Title</u>	<u>Credits</u>	<u>Course</u>	<u>Title</u>	<u>Credits</u>
PHYS 361	Electromagnetic Theory	3	PHYS 489	Physics Projects	3
PHYS 462	Heat & Thermodynamics	3	PHYS 463	Statistical Mechanics (Elective)	3
PHYS	Physics Elective	3	PHYS	Physics Elective	3
MATH 4XX	Math Elective	3	MATH 4XX	Math Elective	3
	Humanities/Fine Arts Elective <sup>b</sup>	3	MATH 491	Seminar	2
Total		15		Social/Behavioral Science Elective <sup>b</sup>	3
			Total		17
			Course Planner Credit Total		132
			Minimum Credits Required for Graduation		122

<sup>a</sup>Of the Humanities/Fine Arts and Social/Behavioral Science electives, 3 credits must be classified as Cultural Diversity, and 3 credits must be classified as Global Perspectives.

<sup>b</sup>The College of Science & Mathematics requires an additional 6 credits in Humanities/Fine Arts or Social/Behavioral Sciences for the B.S. degree.