Physics/Computer Science Double Major (B.S.) Sample Course Planner

Fall 2014

FRESHMAN

Fall

Course	Title	Credits
PHYS 171	Introductory Projects in Physics	1
UNIV 189	Skills for Academic Success	1
MATH 165	Calculus I	4
CSCI 160	Computer Science I	4
ENGL 110*	College Composition I	3
ENGL 120**	College Composition II	3
	Wellness Elective	2
Total		18

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

**Can enroll in ENGL 120 if ACT English score ≥ 18.

Spring

Course	Title	Credits
PHYS 251	University Physics I	4
PHYS 251L	University Physics I Lab	1
PHYS 251R	University Physics I Recitation	1
MATH 166	Calculus II	4
CSCI 161	Computer Science II	4
COMM 110	Fundamentals of Public Speaking	3
Total		17

SOPHOMORE

Fall

Course	Title	Credits
PHYS 252	University Physics II	4
PHYS 252L	University Physics II Lab	1
PHYS 252R	University Physics II Recitation	1
MATH 265	Calculus III	4
CSCI 213	Modern Software Development	3
CSCI 222	Discrete Mathematics	3
Total		16

Spring

Course	Title	Credits
PHYS 350	Modern Physics I	3
MATH 266	Intro to Differential Equations	3
MATH 129	Basic Linear Algebra	2
CSCI 336	Theoretical Computer Science	3
	Humanities/Fine Arts Elective[a]	3
	Social/Behavioral Science Elective	3
Total		17

JUNIOR

Fall (Even Years)

Course	Title	Credits
PHYS 360	Modern Physics II	3
PHYS 361	Electromagnetic Theory	3
PHYS 462	Heat & Thermodynamics	3
CSCI 366	Database Systems	3
	Humanities/Fine Arts Elective	3
Total		15

Spring (Odd Years)

Course	Title	Credits
PHYS 370	Intro to Computational Physics	3
PHYS 463	Statistical Mechanics (Elective)	3
ENGL 324	Writing in the Sciences	3
CSCI 372	Comparative Prog. Languages	3
CSCI 374	Computer Organization/Architecture	3
Total		15

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SENIOR

Fall (Odd Years)

Course	Title	Credits
PHYS 455	Classical Mechanics	3
PHYS 485	Quantum Mechanics I	3
PHYS	Physics Elective	3
CSCI 474	Operating Systems Concepts	3
CSCI 4XX	Computer Science Elective	3
	Social/Behavioral Science Elective	3
Total		18

Spring (Even Years)

Course	Title	Credits
PHYS 489	Physics Projects (or CSCI 445)	3
PHYS 486	Quantum Mechanics II	3
CSCI 467	Algorithm Analysis	3
CSCI 313/4XX	Computer Science Elective	3
	Humanities/Fine Arts Elective[b]	3
	Social/Behavioral Science Elective[b]	3
Total		18

Course Planner Credit Total	134
Minimum Credits Required for Graduation	122

[a]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.

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