

B.S. Dual Major for Computer Science and Physics

Revision of June 23, 2008

This degree program requires 134 SH of credit and students must be in Division A

The College of Computer and Information Science and the Department of Physics reserve the right to modify the curriculum described in this document or the individual courses as necessary in the future.

Computer Science (37 SH: 8 @ 4 SH, 5 @ 1 SH)	Physics (34 SH: 8 @ 4 SH, 2 @ 1 SH)
<i>Computer Science Required Courses (33 SH)</i>	<i>Physics Required Courses (28 SH)</i>
CS U200 Discrete Structures & CS U201 (0 SH)	PHY U161 Physics 1 & PHY U162 (1 SH)
CS U211 Fund of Computer Science 1 & CS U212 (1 SH)	PHY U165 Physics 2 & PHY U166 (1 SH)
CS U213 Fund of Computer Science 2 & CS U214 (1 SH)	PHY U371 Electronics & PHY U372 (0 SH)
CS U221 CS/IS Overview 1 (1 SH)	PHY U303 Modern Physics
CS U222 CS/IS Overview 2 (1 SH)	PHY U305 Thermodynamics & Statistical Mechanics
CS U370 Object-Oriented Design	PHY U600 Advanced Physics Laboratory 1
CS U390 Theory of Computation	PHY U602 Electricity & Magnetism 1
CS U670 Software Development	
CS U690 Algorithms & Data	<i>Physics Electives (4 SH)</i>
CS U600 Senior Seminar (1 SH)	PHY Uxxx Elective
	<i>Physics Elective: PHY U400 or higher</i>
<i>Computer Science Elective Courses (4 SH)</i>	
CS Elective	Mathematics/Integrative Courses (20 SH: 5 @ 4 SH)
<i>CS elective: CS U380 or higher, or IS U535 or IS U570</i>	MTH U241 Calculus 1
	MTH U242 Calculus 2
English (8 SH: 2 @ 4 SH)	MTH U341 Calculus 3
ENG U111 College Writing	MTH U345 Ordinary Differential Equations
ENG U302 Adv Writing in the Technical Professions	MTH U525 Applied Analysis
<i>With permission, may substitute ENG U301 for ENG U302</i>	
	<i>See also CS U200 Discrete Structures</i>
A&S Core Requirements (20 SH: 5 @ 4 SH)	<i>See also PHL U215 Symbolic Logic</i>
Category II: Methods of Inquiry	
<i>Choose PHL U215 Symbolic Logic</i>	
<i>Choose one from Arts, Humanities, or Social World</i>	
Category III: Diversity	
<i>Choose one</i>	
Category IV: Historical, Ethical, Aesthetic	
<i>Choose one</i>	
Category V: Analysis	
<i>Choose SOC U528 Computers and Society</i>	
<i>Students may not fulfill any Core Requirements by taking courses in science or mathematics.</i>	
General Electives (16 SH: 4 @ 4 SH)	
Elective 1	
Elective 2	
Elective 3	
Elective 4	
<i>The Core curriculum courses and general electives must be consistent with the policy on general electives articulated by the College of Computer and Information Science in the Student Guidebook and on the college web site.</i>	