

**Computer Science: Bachelor of Arts (261BA)  
For Students Entering in Fall 2008 or Spring 2009**

Revision of June 25, 2008

*This degree program requires 134 SH of credit*

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

<b>Computer Science</b>
<b>49 or 50 SH: 11 @ 4 SH, 5 or 6 @ 1 SH</b>
<i>Required Computer Science Courses (44 or 45 SH)</i>
CS U200 Discrete Structures & CS U201 [0 SH]
CS U211 Fund of Computer Science 1 & CS U212 [1 SH]
CS U213 Fund of Computer Science 2 & CS U214 [1 SH]
CS U221 CS/IS Overview 1 [1 SH]
CS U222 CS/IS Overview 2 [1 SH]
or
CS U223 CS/IS Co-op Preparation [1 SH]
CS U290 Logic and Computation & CS U291 [1 SH]
CS U370 Object-Oriented Design
CS U380 Computer Organization
CS U390 Theory of Computation
CS U480 Systems & Networks
CS U670 Software Development
CS U690 Algorithms & Data
CS U600 Senior Seminar [1 SH]
CS Elective ( <i>Capstone 4SH</i> )
<i>The CS Elective must be a CS course that satisfies the university Capstone Requirement.</i>
<b>Mathematics (12 SH: 3 or 4 @ 4 SH)</b>
MTH U241 Calculus 1
MTH U242 Calculus 2
MTH U481 Probability and Statistics
<b>Computer Science or Mathematics (4 SH: 1 @ 4 SH)</b>
CS Elective or MTH Elective
<i>CS elective: CS U400 or higher, IS U535 or IS U570</i>
<i>MTH elective: 4 SH course U301 – U581</i>
<b>English (8 SH: 2 @ 4 SH)</b>
ENG U111 College Writing
ENG U302 Adv Writing in the Technical Professions
<i>With permission, may substitute ENG U301 for ENG U302</i>
<b>General Requirement (4 SH: 1 @ 4 SH)</b>
SOC U528 Computers & Society
<b>General Electives (40 SH: 10 @ 4 SH) See notes to the right.</b>
Elective 1: Level 1 in the Arts Core
Elective 2: Level 1 in the Humanities Core
Elective 3: Level 1 in the Social Sciences Core
Elective 4
Elective 5
Elective 6
Elective 7
Elective 8
Elective 9
Elective 10

<b>Science (5 SH: 1 @ 4 SH, 1 @ 1 SH)</b>
<i>Science 1 &amp; Science Lab 1 [1 SH]</i>
<i>Choose a science and its lab from the options below.</i>
<i>For Biology, take:</i>
BIO U111 General Biology 1 & U112
<i>For Chemistry, take one of the following:</i>
CHM U101 Gen Chemistry for Health Sci & U102 & U103
CHM U151 Gen Chemistry for Engineers & U152 & U153
<i>For Earth &amp; Environmental Sciences, take one of the following:</i>
ENV U200 Dynamic Earth & U201
ENV U220 History of Earth & Life & U221
<i>For Physics, take one of the following:</i>
PHY U145 Physics for Life Sciences 1 & U146
PHY U151 Physics for Engineering 1 & U152 & U153
PHY U161 Physics 1 & U162
<b>Foreign Language (12 SH: 3 @ 4 SH)</b>
Introductory Language 1
Introductory Language 2
A "Linked Language" course
<i>The Introductory Language courses should be a pair of courses, U101-U102, in one of the following:</i>
<i>ASL: American Sign Language or LN*</i>
<i>where * stands for A(Arabic), C(Chinese), F(French), G(German), E(Greek), H(Hebrew), I(Italian), J(Japanese), R(Russian), or S(Spanish).</i>
<i>A Linked Language course is either:</i>
<i>1. A course in the same language as the introductory pair at the level U301 or higher.</i>
<i>2. A course whose subject matter strongly focuses upon some aspect of the culture, history, or society of a part of the world where the language studied at the introductory level is spoken. The College of Arts and Sciences will publish and maintain the list of approved linked language courses.</i>
<b>Notes on General Electives</b>
<i>The general electives must be consistent with the policy on general electives articulated by the College of Computer and Information Science on the college web site.</i>
<i>3 of the general electives must be used to satisfy:</i>
<i>Level 1 Arts Core</i>
<i>Level 1 Humanities Core</i>
<i>Level 1 Social Sciences Core</i>
<i>The Comparative Cultures Requirement must be satisfied. If this is done by taking a course then this must also be one of the general electives.</i>