

BS Computer Science – Information Systems Concentration (Effective Fall 2011)

This is an unofficial description of degree requirements. For official audit see the Registrar's website.

The Information Systems Concentration allows for an emphasis on business and management.

Computer Science Core:	Credits
CS1000: Explorations in Computing	1
CS1121: Introduction to Programming I and CS1122: Introduction to Programming II OR CS1131: Accelerated Introduction to Programming	5/6
CS1141: C for Java Programmers	2
CS2311: Discrete Structures	3
CS2321: Data Structures	3
CS3000: Ethical and Social Aspects of Computing	2
CS3141: Team Software Project	3
CS3311: Formal Models of Computation	3
CS3331: Concurrent Computing	3
CS3411: Systems Programming	3
CS3421: Computer Organization	4
CS4121: Programming Languages	3
CS4321: Introduction to Algorithms	3
CS4421: Database Systems	3
CS4711: Software Processes and Management	3
CS4xxx: (may be satisfied by CS4099)	3/4
Technical Electives: (<i>credits for the Technical Elective and CS4xxx must total 9+ credits</i>)	5-6

Technical Elective choices are found on the CS Advising web page.

Computer Science Subtotal: 53+

Business Core:

ACC2000: Accounting I	3
ACC2100: Accounting II	3
MIS2000: IS/IT Management	3
MGT3000: Organizational Behavior	3

Select one of the following six courses:

OSM3000: Operations and Supply Chain Management	3
OSM3100: Quality Management	3
MGT3650: Intellectual Property Management	3
MGT4600: Management of Technology and Innovation	3
MGT4700: Human Resource Management	3
MGT4800: Ecological Sustainability and Organizations	3

Business Subtotal: 18

Mathematics Core:

MA1135/1160/1161: Calculus for Life Sciences/Calculus with Technology I 4/5
MA2720: Statistical Methods 4

Mathematics Subtotal: 8+

HU3120: Technical and Scientific Communication 3

Lab Science Courses: (see STEM list for options) 8+

Note: Both lab and lecture components of a science are required for the science to count toward this requirement.

General Education Core:

UN1001: Perspectives 3

UN1002: World Cultures 4

or

UN1003 (World Cultures Activities) and 2 sequential language courses

(one of the two language classes will be used as a HASS elective)

UN2001: Composition 3

UN2002: Institutions 3

HASS Requirements:

SS Elective (SS3510, SS3511, SS3520, SS3530, SS3630, SS3640, SS3800, SS3801, SS3810, or HU3701) 3

HASS Elective (3000 or higher) 3

HASS Electives (1000 or higher) 9

Co-curricular Activities: (see Co-curricular list on the Registrar's website) (3 units)

General Education and HASS subtotal: 28

Free Electives: 5+

The purpose of these electives are to provide students with the opportunity to choose courses related to their own personal interests. These courses can be used to enhance the students education in computing or broaden their education in other areas.

Total Credits for graduation: 123