College of Liberal Arts & Sciences

BACHELOR of Science in COMPUTER SCIENCE

Total Credits Required: 122

A. COMPOSITION (3 Credits)
   ______  ____ W131  Elementary Composition (3 cr.)

B. FOREIGN LANGUAGE (6 Credits)
   ______  ____ Course: ______   (Completion of two introductory courses in a
   ______  ____ Course: ______   single foreign language, or equivalent)

C. FOREIGN LANGUAGE / BUSINESS OPTIONS (6 - 15 Credits)

   OPTION 1:
   ______  ____ A201 Introduction to Accounting I (3 cr.) OR A311
   ______  ____ A202 Introduction to Accounting II (3 cr.) OR A312
   ______  ____ Course: ______
   ______  ____ Course: ______
   ______  ____ Course: ______

   Three additional courses to be taken from at least 2 other departments in Business & Economics. K201 &
   E270 are excluded from the list of 5 courses. Economics courses simultaneously fulfill this requirement and
   a requirement in Social & Behavioral Sciences.

   OPTION 2:
   ______  ____ Course: ______   Two courses at the second year level in
   ______  ____ Course: ______   a foreign language

   OPTION 3:
   ______  ____ Course: ______   Two courses at the first year level in
   ______  ____ Course: ______   a second foreign language

D. ARTS & HUMANITIES (12 Credits) (4 courses/3 areas)
   ______  ____ Course: ______   AREA A:  Fine Arts, Journalism, Music M174,
   ______  ____ Course: ______   Speech (except S160),
   ______  ____ Course: ______   Telecommunications, Theatre
   ______  ____ Course: ______   AREA B:  English (except W130, W131),
   ______  ____ Course: ______   Foreign Languages (advanced,
   ______  ____ Course: ______   literary)
   ______  ____ Course: ______   AREA C:  History, Philosophy, Religious
   ______  ____ Course: ______   Studies

E. SOCIAL & BEHAVIORAL SCIENCES (12 Credits) (4 courses/2 areas; not more than
   2 courses in any one area)
   ______  ____ Course: ______   AREA A:  Economics, Geography, Political
   ______  ____ Course: ______   Science
   ______  ____ Course: ______   AREA B:  Psychology
   ______  ____ Course: ______   AREA C:  Sociology, Anthropology, Linguistics
F. PHYSICAL & LIFE SCIENCES (13 Credits)

Course: _______ 13 credit hours, including 1 course with a laboratory component, selected from at least two disciplines: Astronomy, Biology, Chemistry, Geology, and Physics (Physics P302 or P303 recommended)

G. MATHEMATICS (13 Credits)

M208 (3cr.) or M215 (5cr.) Analytical Geometry & Calculus I
M209 (3cr.) or M216 (5cr.) Analytical Geometry & Calculus II
M301 Applied Linear Algebra (3 cr.)
Probability and Statistics (4 cr.) Approved by the Department of CS

H. COMPUTER SCIENCE (44 Credits)

C101 Computer Programming I (4 cr.)
C151 Multiuser Operating Systems (2 cr.)
C201 Computer Programming II (4 cr.)
C243 Elementary Data Structures (4 cr.)
C251 Foundations of Digital Computing (3 cr.)
C308 System Analysis & Design (4 cr.)
C311 Organization of Programming Languages (4 cr.)
C335 Computer Structures (4 cr.)
C435 Operating Systems & Computer Architecture (4 cr.)
C455 Analysis of Algorithms (4 cr.)

Three additional computer science courses at or above the 300 level. Mathematics course M471 may be counted here as computer science courses.

ELECTIVES:

Possible program of departmental courses for computer science majors.

<table>
<thead>
<tr>
<th>FIRST YEAR</th>
<th>SECOND YEAR</th>
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<tbody>
<tr>
<td>CSCI C101 (4)</td>
<td>CSCI C201 (4)</td>
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<tr>
<td>MATH M208 (3)</td>
<td>CSCI C151</td>
</tr>
<tr>
<td>MATH M209 (3)</td>
<td>CSCI C243 (4)</td>
</tr>
<tr>
<td>CSCI C251 (3)</td>
<td>CSCI Y398 (3)</td>
</tr>
<tr>
<td>CSCI C308 (4)</td>
<td>One computer science elective each semester.</td>
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For further information, please contact: Department of Computer and Information Sciences, Northside 301A, 237-6521. Please visit us on the World Wide Web at www.cs.iusb.edu

Any student who intends to major in computer science should contact the chairperson of the Department of Computer and Information Sciences as soon as possible.

Please refer to: IUSB Bulletin 2003-2004