

BACHELOR of Science in COMPUTER SCIENCE

College of Liberal Arts & Sciences

For students who entered the program starting Spring 2008

Total Credits Required: 122

NAME:	ID#:	DATE:
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FUNDAMENTAL LITERACIES: (13 - 19 credits)

Course No.	Title	Credit	Grade	Semester	Notes:
A	ENG-W 131	English Composition	(3 cr.)		A grade of C or better is required.
B		Critical Thinking	(3 cr.)		e.g., PHIL- P 105, P 110, P 150
C		Oral Communication	(3 cr.)		e.g., SPCH-S 121, S 223, S 324 (A grade of C or better is required.)
D		Visual Literary	(3 cr.)		e.g., INFO-I310, FINA A100, JOUR J210
E		Quantitative Reasoning	(3 cr.)		Satisfied by required Mathematics courses
F	COAS Q110	Information Literacy	(1 cr.)		Should be taken with ENG W131
G		Computer Literacy	(3 cr.)		Satisfied by required Computer Science courses

COMMON CORE (12 Credits) At least one of the following must be at the 300 level.

Course No.	Title	Credit	Grade	Semester	Notes:
A		The Natural World	(3 cr.)		N190 or N390, Satisfied by science requirements (BIOL, CHEM, GEOL, PHYS, ASTR)
B		Human Behavior & Social Institutions	(3 cr.)		B190 or B399 (POLS, PSY, SOC, etc.)
C		Literary and Intellectual Traditions	(3 cr.)		T190 or T390 (CMLT, ENG, FINA, HIST, PHIL, MUS, etc.)
D		Art, Aesthetics and Creativity	(3 cr.)		A190 or A399 (FINA, MUS, THTR, etc.)

CONTEMPORARY SOCIAL VALUES (8 Credits)

Course No.	Title	Credit	Grade	Semester	Notes:
A		Non-Western Cultures	(3 cr.)		(e.g., ANTH E105, POLS Y109)
B		Diversity in U.S. Society	(3 cr.)		(e.g., SOC S161, ENG L379, PSY P391)
C		Health and Wellness	(2 cr.)		(e.g., HPER N220, NURS B233)

For additional GEN-ED courses please see: www.iusb.edu/~lasi/campusgened.xls

LANGUAGE STUDIES (6 Credits)

Course No.	Title	Credit	Grade	Semester	Notes:
		(3 cr.)			Two semesters in a single language, or equivalent (e.g., three years of one foreign language in high school with at least a "C" average). (Chosen from Japanese, French, German, Chinese, Spanish)
		(3 cr.)			

PHYSICAL & LIFE SCIENCES (14 Credits)

Course No.	Title	Credit	Grade	Semester	Notes:
PHYS P303	Digital Electronics	(4 cr.)			Includes a laboratory component. (Required)
					Science credits taken from the following courses: 1) Physics: PHYS P201 General Physics 1 (5 cr.) PHYS P202 General Physics 2 (5 cr.) 2) Chemistry: CHEM C105 Principles of Chemistry I (3 cr.) CHEM C125 Experimental Chemistry I (2 cr.) CHEM C106 Principles of Chemistry II (3 cr.) CHEM C126 Experimental Chemistry II (2 cr.) 3) Biology: BIOL L101 Introduction to Biological Sciences I (5 cr.) BIOL L102 Introduction to Biological Sciences II (5 cr.) 4) Bioinformatics: INFO I400 Intro to Bioinformatics (3) BIOL 211 Molecular Biology (3) BIOL 311 Genetics (3)
					(Students are allowed to mix courses from the above disciplines)

MATHEMATICS (13 Credits) (A grade of C or better is required)

Course No.	Title	Credit	Grade	Semester	Notes:
MATH M215	Calculus I	(5 cr.)			Satisfies Gen Ed requirement for Quantitative Reasoning Fundamental Literacy E.
MATH M301	Applied Linear Algebra	(3 cr.)			
MATH M260	Probability	(3 cr.)			
MATH M261	Statistics	(2 cr.)			

COMPUTER SCIENCE (44 Credits) (A grade of C- or better is required for each course)

Course No.	Title	Credit	Grade	Semester	Notes:
C101	Computer Programming I	(4 cr.)			Prereq: MATH M014 or Placement Exam Level III. Test out is available.
C151	Multuser Operating Systems	(2 cr.)			Prereq: C101
C201	Computer Programming II	(4 cr.)			Prereq: C101
C243	Elementary Data Structures	(4 cr.)			Prereq: C201, MATH M125 or M115. Coreq: C151
C251	Found. of Digital Computing	(3 cr.)			Prereq: C243, M215
C308	System Analysis & Design	(4 cr.)			Prereq: C243
C311	Org. of Prog. Languages	(3 cr.)			Prereq: C243, C335
C335	Computer Structures	(4 cr.)			Prereq: C201
C435	Operating Systems & Computer Architecture	(4 cr.)			Prereq: C243, C335, plus 3 additional courses above the level of C201.
C455	Analysis of Algorithms	(3 cr.)			Prereq: C251
		(3 cr.)			Three additional computer science courses at 400 or 500 level. Consult your advisor.
		(3 cr.)			
		(3 cr.)			

OTHER REQUIRED COURSES

Course No.	Title	Credit	Grade	Semester	Notes:
INFO-202	Social Informatics	(3 cr.)			

GENERAL ELECTIVES (approximately 13 Credits)

Course No.	Title	Credit	Grade	Semester	Notes:

For further information, please contact: Department of Computer and Information Sciences, Northside 301A, 520-5521. **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: [IJ South Bend Bulletin](#).