

# Bachelor of Science in Informatics

## Department of Computer and Information Sciences

### Indiana University South Bend

## Requirements

### FUNDAMENTAL LITERACIES (19 Credits)

- A) ENG-W 131 English Composition. A grade of C or better is required.
- B) Critical Thinking, e.g., PHIL- P 105 or P 110
- C) Oral Communication , e.g., SPCH-S 121
- D) Visual Literary, e.g., INFO-I310, FINA-A 100, JOUR-J 210
- E) Quantitative Reasoning. Satisfied by required Mathematics courses.
- F) COAS-Q 110 Information Literacy (1 cr.) Should be taken with ENG-W 131.
- G) Computer Literacy. Satisfied by required Computer Science courses.

### COMMON CORE (12 Credits). At least one course must be at 300 level.

- A) The Natural World: N190 or N390.
- B) Human Behavior & Social Institutions: B190 or B399.
- C) Literary and Intellectual Traditions: T190 or T390.
- D) Art, Aesthetics and Creativity: A190 or A399.

### CONTEMPORARY SOCIAL VALUES (8 Credits)

- A) Non-Western Cultures, e.g., ANTH-E 105, POLS-Y 109.
- B) Diversity in U.S. Society, e.g., SOC-S 161, ENG-L 379, PSY-P 391.
- C) Health and Wellness, e.g., HPER-N 220 (2 cr.)

### LANGUAGE STUDIES (6 Credits)

Two semesters in a single language, or equivalent, chosen from Japanese, French, German, Chinese, Spanish.

### PHYSICAL & LIFE SCIENCES (13 Credits). Courses in at least two different sciences must be taken.

- A) N190 or N390 (3 cr.) Natural World N190 or N390. Satisfied by completing the Common Core requirement A.
- B) Electives chosen from astronomy, biology, chemistry, geology, and physics. (10 cr.)

### MATHEMATICS (6 Credits). A grade of C or better in each course is required.

- A) MATH-M 118 Finite Mathematics (3 cr.)
- B) 300 level Statistics approved by the informatics director (3 cr.) (e.g. MATH K300, SOC-S 351)

### INFORMATICS (34 Credits). A grade of C- or better in each course is required. At least 22 of the 34 credits must be taken within Indiana University.

Thirty-four credit hours in Informatics, to be satisfied with the following core and elective courses:

#### Core:

- INFO-I 101 Introduction to Informatics (4 cr.)
- INFO-I 201 Mathematical Foundations of Informatics (4 cr.) or CSCI-C 251
- INFO-I 202 Social Informatics
- INFO-I 210 Information Infrastructure I (4 cr.) or CSCI-C 101
- INFO-I 211 Information Infrastructure II (4 cr.) or CSCI-C 201
- INFO-I 308 Information Representation (3 cr.)

Two of the following four courses:

- INFO-I 300 Human-Computer Interaction (3 cr.)
- INFO-I 303 Organizational Informatics (3 cr.)
- INFO-I 310 Multimedia Arts and Technology (3 cr.)
- INFO-I 320 Distributed Systems and Collaborative Computing (3 cr.)

One of the following capstone options:

- INFO-I 450/I451 Design & Development of an Information System
- INFO-I 460/461 Thesis / Senior Project

**Electives:** at least 6 credits chosen from Informatics electives (300 level or higher).

**COGNATE AREA (15-18 Credits).** The student must take 5 to 6 courses in cognate area of interest chosen with the consent of their advisor and the director of informatics.

**GENERAL ELECTIVES (approximately 12 Credits)**

## Informatics at IUSB?

- ◆ Informatics is the study of the science and application of information technology to various disciplines. This cross-disciplinary program is distinct from computer science and information systems. Those programs cover the theory of a particular discipline in depth. Informatics covers a breadth of issues in various disciplines including the social and ethical issues facing our information society.

Any student who wishes to major or minor in Informatics should contact the director of Informatics as soon as possible to arrange for academic advising.

## What is the job outlook?

- ◆ There are excellent employment opportunities for our graduates. Almost every student and every alumnus of our program is gainfully employed. In our region, the average starting salary for our graduates is currently in the mid 40's. Nationally, salaries range from low 40's to upper 70's.

## Why IUSB?

- ◆ IUSB is the only public institution in the region (60 miles radius) equipped to offer quality undergraduate and graduate programs in computing.
- ◆ Our class sizes average around 20 students, and almost never exceeding 30.
- ◆ We have 10 full time faculty with Ph.D. degrees in computer science or closely related areas.
- ◆ The typical salary for our new graduates in the region is approximately \$40,000 to \$52,000.

## Contact Information:

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