



# B.S. Informatics

For students starting at IUB Summer 2019-Spring 2020

### IUB General Education Common Ground

#### Foundations

- English Composition (EC) 3
- Mathematical Modeling (MM) 3

#### Breadth of Inquiry

- Arts & Humanities (A&H) 6
- Social & Historical (S&H) 6
- Natural & Mathematical Sciences (N&M) 5-6

#### World Languages (WL) & Cultures (WC) 6

### Additional School Requirements

#### English Composition with a C or higher

- ENG-W 131, W170, CMLT-C 110 (all are EC)

#### Finite Math with a C or higher

- MATH-M 118, A118, S118, V118, D116-D117 (all are MM)

#### Statistics

- See Bulletin for approved list

#### Intensive writing with a C or higher

- One College-approved Intensive Writing course (Must be taken at IUB)

#### Ethics

- One approved Ethics course in addition to 2 A&H

#### Natural & Mathematical Sciences (May be CASE N&M)

- 8-9 credits of N&M courses, excluding INFO-I 101 Finite (N&M), and Statistics.

### English Composition and Intensive Writing (6 credits)

ENG-W 131, ENG-W 170, or CMLT-C 110

(EC; C or higher required to fulfill School requirement)

\_\_\_\_\_ Intensive Writing (Must be taken at IUB)

(see advisor for approved list; C or higher required)

### Math Modeling/Quantitative & Analytical Skills (6 credits)

MATH-M 118, A118, S118, V118, D116-D117

(MM; C or higher required to fulfill School requirement)

\_\_\_\_\_ Statistics (see Bulletin for approved list)

### Arts & Humanities and Social & Historical (12 credits)

Select at least two courses for at least 6 credits from each area

Arts & Humanities (A&H)

\_\_\_\_\_

Social & Historical (S&H)

\_\_\_\_\_

### Ethics (3 credits) PHIL-P140, PHIL-P242, PHIL-P340, REL-R170 or

INFO-I 453 (Courses taken to fulfill Ethics requirement do not double-

count as A&H.) INFO I 453 will double count for an Informatics

Advanced or Informatics Elective course.

\_\_\_\_\_

### Natural & Mathematical Sciences (8-9 credits)

Three courses (three credits each) or two courses where one is a 5-credit course with a lab component and the other is a 3-credit course. INFO-I 101 and Finite may not double-count toward this requirement. To fulfill Common Ground N&M, at least one course must be a natural science (indicated by an asterisk in Common Ground N&M course list).

\_\_\_\_\_

\_\_\_\_\_

### World Languages and Cultures (3-14 credits) choose one of the following options:

1. Language Study: Two world language courses (same language) at the second year level, or equivalent proficiency (WL)
2. World Cultures: Two approved World Cultures courses (WC)
3. International Experience: An approved study abroad program for at least 6 weeks and 6 credit hours outside of the US (WL/WC)

\_\_\_\_\_

<https://gened.indiana.edu/index.html>

### Strongly recommended, but not required (1 credit hour):

INFO-Y 100 Our academic/career advisors will help students explore the fields of Informatics and Computer Science, and the multiple careers available to students majoring in these fields. Students will engage in activities that help them to identify their personalities, values and interests and identify how they impact their academic and career choices. Ultimately, they will evaluate their personal, academic, and career goals, and cultivate their Personal Development Plan.

- ✓ You must receive a grade of C- or higher in all major, cognate, and minor courses, and a C or higher in Intensive Writing. A grade of C or higher is required in INFO-I 101 and ENG-W 131 for admission to the School of Informatics and Computing, and Engineering. A 2.00 cumulative GPA is also required for admission to the School.
- ✓ Please note that many courses have prerequisite requirements. It is the student's responsibility to fulfill these requirements.
- ✓ These requirements are for informational purposes only and subject to revision. Refer to the SICE Undergraduate Bulletin for detailed information on these requirements and official graduation requirements.

**Informatics Major** (Minimum grade of C- in all Informatics core courses, electives, capstone, and cognate courses)

**Informatics Core Courses (26 credits)**

INFO	I/H101	Introduction to Informatics (C or higher required)	4
INFO	I201	Mathematical Foundations of Informatics (P: INFO-I101; MATH-M118)	4
INFO	I202	Social Informatics (P: INFO-I101)	3
INFO	I210	Information Infrastructure I (P: INFO-I201)	4
INFO	I211	Information Infrastructure II (P: INFO-I210)	4
INFO	I300	Human-Computer Interaction (P: INFO-I202) (Must be taken at IUB)	3
INFO	I308	Information Representation (P: INFO-I 101, I201, and I210 or CSCI-C 211) (Must be taken at IUB)	3
INFO	Y395	Career Development for Informatics Majors (Must be taken at IUB)	1

**Advanced Informatics Courses (6 credits)**

Two courses at the 300 level or higher in INFO or CSCI-C. Courses required by the core or taken to fulfill cognate requirements do not double-count here. Consult your advisor, AAR, or the appropriate Bulletin for the approved list of courses to fulfill this requirement.

---



---

**Informatics Electives (6 credits)**

Two courses at the 300 level or higher from INFO, CSCI, or an approved outside area. Consult your advisor, AAR, or Bulletin for approved courses outside of Informatics. Courses required by the core or taken to fulfill cognate requirements do not double-count here.

---



---

**Capstone: select one of the following options (6 credits)**

INFO	I494-495	Design and Development of Information Systems	3-3
INFO	I492-493	Senior Thesis (P: Senior Standing)- Approval Required	3-3
INFO	I491	Capstone Internship- Approval Required	6

**Cognate (15-18 credits)**

Cognate: \_\_\_\_\_

---



---



---



---



---



---