

## INDIANA UNIVERSITY Request for a New Academic Program

**Campus:** East

**Proposed Type (minor, certificate, etc.) and Title of Program:** Minor in Informatics

**Proposed Date of Implementation:** Spring 2007

### **I. Why is the program needed? (Rationale)**

Community employers are increasingly expecting job applicants and employees skills beyond basic computer literacy. The undergraduate minor allows a student majoring in another subject to get appropriate training in informatics, and at the same time obtains a kind of “external” certification as someone who knows how to apply informatics tools to that subject area. This is a transitional program with a goal of building to a bachelor degree program at IU East. This is inline with the strategic focus of IU East becoming an upper level degree bachelor degree and selected masters granting institution.

### **II. List major topics or curriculum of the program.**

The undergraduate minor in informatics requires students to take three lower division informatics courses and two upper division courses. A total of two courses must be taken at IU East to receive the minor. Students are required to take the following core courses:

- INFO I101 Introduction to Informatics (4 cr.) (Spring 2007 and every semester after)<sup>1</sup>
- INFO I210 Information Infrastructure I (4 cr.) (crosslisted with CSCI C201 or replacement Fall 2007)
- INFO I211 Information Infrastructure II (4 cr.) (crosslisted with CSCI C202 or replacement Spring 2008)

Students are also required to take two courses from the following list or other courses approved by your minor advisor. At least one course must be three-hundred level or above.

- INFO I201 Math Foundations of Informatics (4 cr.) or MATH M393 (3 cr)
- INFO I202 Social Informatics (3 cr.) (Fall 2007, 2008)
- BIOL T201 Bioinformatics (3 cr)
- IIM I300 Foundations and Principles of MIS (3 cr.) (offered every fall & spring, most summer semesters)
- IIM I380 Data Communications in MIS (3 cr.) (offered every 2 years)
- IIM I340 Database Systems (3 cr.) (offered every year)
- BUS S310 Systems Analysis and Design (3 cr.) (offered every 2 years)
- INFO I320 Distributed Systems and Collaborative Computing (3 cr.) (spring 2008)
- INFO I400 Topics in Informatics (3 cr.) (planning phase)
- PSY P450 Human Factors (3 cr) (fall 2007)

### **III. List the major student outcomes (or set of performance-based standards) for the proposed program.**

---

<sup>1</sup> This course meets the campus computer literacy requirement.

\*This course meets the campus computer literacy requirement.

- Able to develop software applications in a modern high-level programming language.
- Able to reason about social, ethical and legal aspects of information technology.

**IV. Explain how student outcomes will be assessed (course-embedded assessment, graduate follow-up, employer survey, standardized tests, etc.).**

- Course embedded assessment using (CATS) classroom assessment techniques.
- Course assessment materials will be used to summarize program assessment.

**V. Describe the student population to be served.**

All students benefit: Transfer students who have some of the requirements could fulfill the minor requirements; IVY Tech students who have completed a computer related degree could easily achieve this minor; this minor supports most degrees at IU East. It provides certification for the application of informatics tools to students' subject areas.

**VI. How does the program complement the campus or department mission?**

The Minor serves as a basis for the baccalaureate degree in Informatics. It provides another option for our campus and enhances many academic disciplines by increasing enrollment in courses that are cognate based. In this way it accomplishes an option for students without adding overload to the faculty. The minor serves as an option for most academic programs, excluding a major degree in Informatics.

**VII. Describe the relationship to existing programs within Indiana University.**

The minor supports the Informatics system degree for Indiana University. It is a flexible minor that could be used to support any academic major programs.

**VIII. List and indicate the resources required to implement the proposed program.**

**Indicate sources, e.g. reallocation or any new resources such as personnel, library holdings, equipment, etc.**

No additional resources are required. Currently the Campus Library has access to online resources such as Books 24X7, Library, Information Science & Technology Abstracts and Emerald Online which provide a variety of informatics resources and research. The institution provides access to equipment students could use as resources for their coursework.

**IX. Describe any innovative features of the program (e.g. involvement with local or regional agencies, offices, etc., cooperative efforts with other institutions, etc.).**