**NEW, REVISED, OR DELETED PROGRAM COVER SHEET**
**2006-2007**
**University Curriculum Committee**
**Undergraduate Programs (Majors, Minors, Sequences)**

DEPARTMENT/SCHOOL  School of Information Technology     DATE  September 15, 2006

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A.     **Proposed Action:** (more than one item may be checked if a revision).

_____         New Major         CIPS CODE _____ (obtain from Planning, Policy Studies and Info Systems)

_____         New Minor         CIPS CODE _____ (obtain from Planning, Policy Studies and Info Systems)

___X____         New Sequence

_____         Change in requirements for major

_____         Change in requirements for minor

_____         Change in requirements for sequence

_____         Other program revisions

_____         More than 50% of courses in this program are distance education.

_____         Program deletion

B.     **Summary of proposed action** (see Part A), including title and exact *Undergraduate Catalog* copy for a new or altered program. (See *Catalog* and Program Checklist for format and examples.) Provide a summary of the revisions in addition to the exact current *Catalog* copy.

   Addition of a new "Information Assurance and Security" sequence for the B.S. in Information Systems major.

C.     **Routing and action summary:**

| 1. _____ _____ | 4. _____ _____ |
|---|---|
| Department/School Curriculum Committee Chair    Date Approved | College Dean                                    Date Approved |
| 2. _____ _____ | 5. _____ |
| Department Chair/School Director    Date Approved | Teacher Education Council Chair if appropriate    Date Approved |
| | (10 copies to the Dean of the College of Education) |
| 3. _____ _____ | 6. _____ _____ |
| College Committee Chair    Date Approved | University Curriculum Committee Chair    Date Approved |
| | (8 copies to UCC Secretary, Moulton 108A) |

Submit 8 copies of **NEW** Undergraduate proposals to University Curriculum Committee
Submit 8 copies of **REVISED** Undergraduate proposals to University Curriculum Committee
All new and deleted programs (majors, minors, sequences) are routed by the U.C.C. to the Academic Senate.  **The Senate rules mandate electronic submission (in MS Word or HTML format) of all materials for Web site posting.**
3/05

1. **Institution:**     **Illinois State University**
2. **Responsible School:**  School of Information Technology
3. **Program Title:**    B. S. in Information Systems, Information
   Assurance and Security Sequence
4. **Proposed Date of Initiation:** Fall 2007

5. **Current and Proposed Catalog Copy**
 (Changes noted in boldface)

| Current Catalog Copy | Proposed Catalog Copy |
| --- | --- |
| MAJOR IN INFORMATION SYSTEMS | |
| The Information Systems (IS) Major is designed to prepare professionals in Information Systems including such areas as systems analysis and design and software engineering. This degree focuses on the use of computer technology and information management methods to solve business problems. This requires an understanding of both the organizational context of the problem and the technologies, methodologies, and tools typically utilized. There are two sequences within this program: the Systems Development/ Analyst Sequence and the Web Application Development Sequence. The Analyst sequence provides breadth and depth in analysis and design techniques preparing students to work in a variety of information technology environments, while the Web sequence emphasizes the development of Web/Internet-based business information systems. The Information Systems program is accredited by the Computing Accreditation Commission (CAC) of the Accreditation Board for Engineering and Technology (ABET). | The Information Systems (IS) Major is designed to prepare professionals in Information Systems including such areas as systems analysis and design and software engineering. This degree focuses on the use of computer technology and information management methods to solve business problems. This requires an understanding of both the organizational context of the problem and the technologies, methodologies, and tools typically utilized. There are **three** sequences within this program: the Systems Development/ Analyst Sequence, the Web Application Development Sequence, **and the Information Assurance and Security Sequence.** The Analyst sequence provides breadth and depth in analysis and design techniques preparing students to work in a variety of information technology environments, while the Web sequence emphasizes the development of Web/Internet-based business information systems. **The Information Assurance and Security sequence is designed to give students the knowledge and tools necessary for protecting information and information systems.** The Information Systems program is accredited by the Computing Accreditation Commission (CAC) of the Accreditation Board for Engineering and Technology (ABET). |
| | **Information Assurance and Security Sequence:** |
| | **The Information Assurance and Security sequence is designed to give students the knowledge and tools necessary for protecting information and information systems. The sequence provides education for protecting the confidentiality, availability, and integrity of information using technology, people, and policy** |

| | Information Technology courses: (45 hours): | | |
|---|---|---|---|
| | **Information Technology core (10 hrs):**<br>— ITK 160, 177, 261. | | |
| | **Practical Experience (7 hours):**<br>— ITK 191.<br>— 1 of 3 options<br>  — 6 hours of ITK 398, or<br>  — 3 hours of ITK 391 and 3 hours<br>    of ITK 398, or<br>  — 3 hours of ITK 391 and 1 of ITK<br>    353, 368, 373, 380 (if not used to<br>    satisfy other requirements).<br>. | | |
| | **Other ITK course requirements (28 hours):**<br>— ITK 178, 254, 350, 351, 363, 375,<br>   377, 378.<br>— 1 of: ITK 353, 368, 373, 380. | | |
| | **Supporting requirements (33 hours):** | | |
| | **Mathematics and Statistics (11 hours):**<br>— MAT 120 or 145, 160.<br>— 1 statistics course, e.g. MQM 100;<br>   ECO/GEO/POS/PSY 138. | | |
| | **Communication and Organization (22 hours):**<br>— COM 223; ACC 131; ECO 105;<br>   MQM 220.<br>— 1 of: COM 202, 227; ENG 249.<br>— 2 of: ACC 132, FIL 185, FIL 240,<br>   MKT 230, ECO 225 or 239 or 245. | | |

**Summary of Changes**

1. A third sequence in Information Assurance and Security has been added to the Information Systems undergraduate major.

2. A new course is proposed for the sequence. The new course, ITK 350, Fundamentals of Information Assurance and Security has been submitted along with the ITK graduate program revisions.

**Rationale**

    The importance of computer security and information assurance has grown dramatically over the past decade. While these topics are discussed in several courses within the ITK programs, a more focused and specialized coverage is needed in today's environment. This program will provide that coverage at the undergraduate level.

**Consequences of Proposed Changes**

1. Expected impact of proposal on existing campus programs:

   This sequence will provide the approximately 180 ITK Information Systems majors with a third choice for a sequence, causing some shifting from the other two sequences.   This sequence will not impact other existing campus programs.

2. Expected curricular changes:

   One new course, ITK 350, Introduction to Information Assurance and Security, will be implemented.  Sections of ITK 350 will be offered once a year during the fall semester.

3. Library resources:

   Milner Library has been contacted regarding this proposal.  No additional library resources are needed.

4. Staffing arrangements:

   Careful scheduling of ITK faculty will be required, however no new faculty are needed to implement the proposed change.

5. Funding needs:

   No new funding will be required to implement the proposed change