FORM A
College of Business

PROPOSAL SUMMARY AND ROUTING FORM

Proposal Title: ISI Curriculum Clean-up

Initiating Unit or Individual: Jim Jones
Contact Person's Name: Jim Jones e-mail: JamesJones@ferris.edu phone: (231) 591-3148
Date or Term of Proposal Implementation: Fall 2011

☐ Group I - A – New degree/major or major, redirection of a current offering, or elimination of a degree, major or minor
☐ Group I - B – New minors or concentrations
☑ Group II - A – Minor curriculum clean-up and course changes
☑ Group II - B – New Course
☐ Group III - Certificates
☐ Group IV – Off-Campus Programs

<table>
<thead>
<tr>
<th>Group/Individual</th>
<th>Signature</th>
<th>Date</th>
<th>Vote/Action *</th>
</tr>
</thead>
<tbody>
<tr>
<td>Program Faculty</td>
<td></td>
<td>11/24/10</td>
<td></td>
</tr>
<tr>
<td>Department Faculty</td>
<td></td>
<td>11/30/10</td>
<td></td>
</tr>
<tr>
<td>Department Head</td>
<td></td>
<td>12/2/10</td>
<td></td>
</tr>
<tr>
<td>College Curriculum Committee</td>
<td></td>
<td>1/27/11</td>
<td></td>
</tr>
<tr>
<td>Dean</td>
<td></td>
<td>1/31/11</td>
<td></td>
</tr>
<tr>
<td>University Curriculum Committee</td>
<td></td>
<td>2/14/11</td>
<td>Support 9-0</td>
</tr>
<tr>
<td>Senate</td>
<td></td>
<td>2/28/11</td>
<td></td>
</tr>
<tr>
<td>Academic Affairs</td>
<td></td>
<td>3/2/11</td>
<td></td>
</tr>
</tbody>
</table>

* Support with Concerns or Not Support must include a list of specific concerns. Votes must be shown for faculty groups. See p. 24 for concerns.

To be completed by Academic Affairs

President (Date Approved) Board of Trustees (Date Approved) President's Council (Date Approved)
1. Proposal Summary

The Information Security and Intelligence B.S. degree was initially offered in Fall 2007, and is now offered on four campuses. Program documentation has been submitted for certification as a National Security Agency Center of Academic Excellence (NSA-CAE). An initial review by the NSA indicates that this program is one of a few nationally that maps to all six domain areas (letter attached). Successful certification by the NSA will provide a competitive advantage and distinctiveness for the program via access to internships, scholarships, grants, and partnerships. Additionally, the project management component of the program is being reviewed for certification by the Project Management Institute Global Accreditation Center (PMI-GAC). These certification efforts, combined with faculty experiences, student feedback, recent graduate feedback, the current and expected job market, administration guidance, and advisory board input suggest several changes to improve the program.

1. Strengthen the business component of the curriculum:
   a. Add MGMT 301 *Applied Management* to the required curriculum.
   b. Add MGMT 350 *Tools for Decision Making* to the required curriculum.
   c. Add MKTG 321 *Principles of Marketing* to the required curriculum.
2. Restructure and add concentrations to offer more flexibility while maintaining quality and relevance.
3. Remove PREL 240 *Public Relations* from the curriculum.
5. Move GISC 225 *Principles of Geographic Information Systems* from the core to an elective.
6. Modify the description of HSCJ 315 *Advanced Digital Forensics*.
   7a. Modify the title and description of HSCJ 210 *Digital Forensics* to HSCJ 210 *Introduction to Digital Forensics* and remove HSCJ210 from the ISI core (it is still used in the HS certificate and minor).
   7b. Create HSCJ 310 *Digital Forensics and Analysis* and add HSCJ310 to the ISI core.
   a. Add ISIN 312 to the core.
9. Add ISIN 390 *Special Topics in ISIN* to the core and offer the class annually.

Changes 7 and 8 are represented graphically below:
2. Summary of All Course Action Required*

a. Newly Created Courses to FSU

<table>
<thead>
<tr>
<th>Prefix</th>
<th>Number</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSCJ</td>
<td>310</td>
<td>Digital Forensics and Analysis</td>
</tr>
<tr>
<td>ISIN</td>
<td>312</td>
<td>Applications of Information Security</td>
</tr>
</tbody>
</table>

b. Courses to be Deleted From FSU Catalog:

<table>
<thead>
<tr>
<th>Prefix</th>
<th>Number</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISIN</td>
<td>330</td>
<td>Org Crime-Gang-Terrorist Org</td>
</tr>
</tbody>
</table>

c. Existing Course(s) to be Modified:

<table>
<thead>
<tr>
<th>Prefix</th>
<th>Number</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSCJ</td>
<td>210</td>
<td>Digital Forensics (see item e below)</td>
</tr>
<tr>
<td>HSCJ</td>
<td>202</td>
<td>Principles of Information Security</td>
</tr>
<tr>
<td>HSCJ</td>
<td>315</td>
<td>Advanced Digital Forensics</td>
</tr>
</tbody>
</table>

d. Addition of existing FSU courses to program

<table>
<thead>
<tr>
<th>Prefix</th>
<th>Number</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGMT</td>
<td>301</td>
<td>Applied Management</td>
</tr>
<tr>
<td>MGMT</td>
<td>350</td>
<td>Tools for Decision Making</td>
</tr>
<tr>
<td>MGMT</td>
<td>370</td>
<td>Quality-Operations Management</td>
</tr>
<tr>
<td>MKTG</td>
<td>321</td>
<td>Principles of Marketing</td>
</tr>
<tr>
<td>ACCT</td>
<td>202</td>
<td>Principles of Accounting 2</td>
</tr>
<tr>
<td>FINC</td>
<td>322</td>
<td>Financial Management 1</td>
</tr>
<tr>
<td>BLAW</td>
<td>321</td>
<td>Contracts and Sales</td>
</tr>
<tr>
<td>ISIN</td>
<td>390</td>
<td>Special Topics in ISIN</td>
</tr>
<tr>
<td>ISYS</td>
<td>316</td>
<td>Advanced Java Programming</td>
</tr>
<tr>
<td>ISYS</td>
<td>204</td>
<td>Introduction to Visual Basic</td>
</tr>
<tr>
<td>ISYS</td>
<td>304</td>
<td>Advanced Visual Basic Program</td>
</tr>
<tr>
<td>ECNS</td>
<td>115</td>
<td>Networks 1</td>
</tr>
<tr>
<td>ECNS</td>
<td>125</td>
<td>Networks 2</td>
</tr>
<tr>
<td>ECNS</td>
<td>215</td>
<td>Networks 3</td>
</tr>
<tr>
<td>ECNS</td>
<td>225</td>
<td>Networks 4</td>
</tr>
<tr>
<td>STQM</td>
<td>322</td>
<td>Inferential Statistics</td>
</tr>
<tr>
<td>PROJ</td>
<td>350</td>
<td>Project Schedule, Cost and Risk Management</td>
</tr>
<tr>
<td>PROJ</td>
<td>351</td>
<td>Project Communication, Team Building and Conflict Management</td>
</tr>
<tr>
<td>PROJ</td>
<td>420</td>
<td>Managing the Procurement Process and Preparing for the PMP</td>
</tr>
<tr>
<td>PROJ</td>
<td>320</td>
<td>Project Management**</td>
</tr>
</tbody>
</table>

** this is renamed ISYS411, addressed in a different proposal

e. Removal of existing FSU courses from program

<table>
<thead>
<tr>
<th>Prefix</th>
<th>Number</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PREL</td>
<td>240</td>
<td>Public Relations</td>
</tr>
<tr>
<td>HSCJ</td>
<td>210</td>
<td>Digital Forensics***</td>
</tr>
</tbody>
</table>

*** renamed and still used in the HSDFS certificate and minor as Intro to Digital Forensics

<table>
<thead>
<tr>
<th>Prefix</th>
<th>Number</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISYS</td>
<td>411</td>
<td>Project Management****</td>
</tr>
</tbody>
</table>

**** see note above about PROJ320
FORM B
CURRICULUM CONSULTATION FORM

To be completed by each department affected by the proposed change. new degree, new program, new minor, or new course. Potential duplication of coursework is reason for consultation.

1. This completed form must be forwarded with the proposal to the chair/head of the department to be consulted.

2. The department must respond within 20 calendar days of receipt of this form to insure inclusion in the final proposal. The completed form is returned to the initiator and inserted into the proposal.

Failure to respond is interpreted as support for the proposal.

3. The Proposing Department must address any concerns raised by the department. This response will be in writing and be included in the proposal following the consultation form.

RE: ISI Curriculum Clean-up

Initiator(s): Jim Jones

Proposal Contact: Jim Jones Date Sent: 12/2/10

Department: COB - AFIS Campus Address: IRC 222

Responding Department: MKTG

Chair/Head/Coordinator: Mike Cooper Date Returned: 

Based upon department faculty review on (date), we

☐ Support the above proposal.
☐ Support the above proposal with the modifications and concerns listed below.
☐ Do not support the proposal for the reasons listed below.

Comment regarding the impact this proposal has on scheduling, room assignments, faculty load, and prerequisites for your department. Use additional pages, if necessary.

See attached.
Marketing Dept. modifications:

1. Remove reference to ACBSP from the Proposal Summary on Form A
   a. This program should be exempt from ACBSP as it has its own accreditation

2. Modifications to the checksheet
   a. Instead of Professional Component Courses call them Business Courses
   b. Shorten the list of 9 concentrations on the bottom
   c. Instead of stating “discuss with advisor” under Concentration section state “Advisor Approval Required”
FORM B
CURRICULUM CONSULTATION FORM

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1. This completed form must be forwarded with the proposal to the chair/head of the department to be consulted.

2. The department must respond within 20 calendar days of receipt of this form to insure inclusion in the final proposal. The completed form is returned to the initiator and inserted into the proposal.

   Failure to respond is interpreted as support for the proposal.

3. The Proposing Department must address any concerns raised by the department. This response will be in writing and be included in the proposal following the consultation form.

RE: ISI Curriculum Clean-up

Initiator(s): Jim Jones

Proposal Contact: Jim Jones  Date Sent: 12/2/10

Department: COB - AFIS  Campus Address: IRC 222

Responding Department: MGMT

Chair/Head/Coordinator: David Steenstra  Date Returned: 12-9-10

Based upon department faculty review on 12-7-10, we

☐ Support the above proposal.
☐ Support the above proposal with the modifications and concerns listed below.
☐ Do not support the proposal for the reasons listed below.

Comment regarding the impact this proposal has on scheduling, room assignments, faculty load, and prerequisites for your department. Use additional pages if necessary.

- 18  Yes; 1 yes with concerns; 2 abstain

We had a full department meeting on Tuesday, Dec. 7, 2010. We had a full department meeting on Tuesday, Dec. 7, 2010. We had a full department meeting on Tuesday, Dec. 7, 2010.

Greg Zozulin. The department faculty were satisfied with the discussion.
FORM B
CURRICULUM CONSULTATION FORM

To be completed by each department affected by the proposed change, new degree, new program, new minor, or new course. Potential duplication of coursework is reason for consultation.

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2. The department must respond within 20 calendar days of receipt of this form to insure inclusion in the final proposal. The completed form is returned to the initiator and inserted into the proposal.

   Failure to respond is interpreted as support for the proposal.

3. The Proposing Department must address any concerns raised by the department. This response will be in writing and be included in the proposal following the consultation form.

RE: ISI Curriculum Clean-up

Initiator(s): Jim Jones
Proposal Contact: Jim Jones  Date Sent: 12/2/10
Department: COB - AFIS  Campus Address: IRC 222

Responding Department: CNS
Chair/Head/Coordinator: Murry Stocking  Date Returned: Dec 21, 2010

Based upon department faculty review on Dec 17, 2010, we

☐ Support the above proposal.  All  Ye
☐ Support the above proposal with the modifications and concerns listed below.
☐ Do not support the proposal for the reasons listed below.

Comment regarding the impact this proposal has on scheduling, room assignments, faculty load, and prerequisites for your department. Use additional pages, if necessary.
FORM B
CURRICULUM CONSULTATION FORM

To be completed by each department affected by the proposed change, new degree, new program, new minor, or new course. Potential duplication of coursework is reason for consultation.

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2. The department must respond within 20 calendar days of receipt of this form to insure inclusion in the final proposal. The completed form is returned to the initiator and inserted into the proposal.
   
   Failure to respond is interpreted as support for the proposal.

3. The Proposing Department must address any concerns raised by the department. This response will be in writing and be included in the proposal following the consultation form.

RE: ISI Curriculum Clean-up

Initiator(s): Jim Jones
Proposal Contact: Jim Jones Date Sent: 12/2/10
Department: COB - AFIS Campus Address: IRC 222

Responding Department: Surveying Engineering
Chair/Head/Coordinator: Sayed Hashimi Date Returned: 12/10/10

Based upon department faculty review on (date), we

X Support the above proposal.
☐ Support the above proposal with the modifications and concerns listed below.
☐ Do not support the proposal for the reasons listed below.

Comment regarding the impact this proposal has on scheduling, room assignments, faculty load, and prerequisites for your department. Use additional pages, if necessary.

We would welcome those students who would choose GISc 225 or other courses within the GIS Certificate. Seemingly, the knowledge of Geographic Information Systems (GIS) could play a vital role in ISI careers.

S. Hashimi
FORM C

FLITE SERVICES CONSULTATION FORM

To be completed by the liaison librarian and approved by the Dean of FLITE. All returned forms should be included in the proposal. FLITE must respond within 20 calendar days of receipt of this form to insure that the form is included in the final proposal.

FAILURE TO RESPOND IS CONSIDERED AS SUPPORT OF THE CHANGE.

RE: ISI Curriculum Clean-up

Projected number of students per year affected by proposed change: 100

Initiator(s): Jim Jones
Proposal Contact: Jim Jones Date Sent: 12/2/10
Department: COB - AFIS Campus Address: IRC 222
(Please print)

Liaison Librarian Signature: David Scott Date: 12-2-10
Dean of FLITE Signature: Date Returned: 12-2-10

Based upon our review on 12-2-10 (date), FLITE concludes that:

☐ Library resources to support the proposed curriculum change are currently available.

☐ Additional Library resources are needed but can be obtained from current funds.

☐ Support, but significant additional Library funds/resources are required in the amount of $__________.

☐ Does not support the proposal for reasons listed below.

Comment regarding the impact this proposal will have on library resources, collection development, programs, etc. Use additional pages if necessary.
FORM A: CURRENT CHECKSHEET

Ferris State University - College of Business
BACHELOR OF SCIENCE DEGREE IN INFORMATION SECURITY & INTELLIGENCE
120 Credits Required

NAME: ________________________________  ID#: ________________________________

<table>
<thead>
<tr>
<th>REQUIRED</th>
<th>COURSE TITLE - PREREQUISITES SHOWN IN BRACKETS ( )</th>
<th>S.H.</th>
<th>GRADE</th>
</tr>
</thead>
</table>

**General Education Requirements (40-41 hours)**

**COMMUNICATION COMPETENCE - 12 Credits Required**
Consult the Ferris website: [www.ferris.edu/htmls/academics/gened/bsstream.html](http://www.ferris.edu/htmls/academics/gened/bsstream.html) for level approved courses.

<table>
<thead>
<tr>
<th>COMM 105 or 121 or 201</th>
<th>Interpersonal Communication</th>
<th>Public Presentation Practice</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 150</td>
<td>English 1 (ENGL 074 w/C- or better or 14+ ACT or 370 &gt; SAT)</td>
<td></td>
</tr>
<tr>
<td>ENGL 250</td>
<td>English 2 (ENGL 150 w/C- or better)</td>
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<tr>
<td>ENGL 311 or 321 or 325</td>
<td>Advanced Technical Writing (ENGL 250 or ENGL 211 w/C or better)</td>
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<td></td>
<td>Advanced Composition (ENGL 250 or ENGL 211 w/C or better)</td>
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</tr>
<tr>
<td></td>
<td>Advanced Business Writing (ENGL 250 or ENGL 211 w/C or better)</td>
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</tbody>
</table>

**SCIENTIFIC UNDERSTANDING - 7 to 8 Credits Required**
Consult the Ferris website: [www.ferris.edu/htmls/academics/gened/scicourses.html](http://www.ferris.edu/htmls/academics/gened/scicourses.html) for approved courses.

<table>
<thead>
<tr>
<th>Scientific Understanding w/ lab</th>
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</thead>
<tbody>
<tr>
<td>4</td>
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</table>

<table>
<thead>
<tr>
<th>Scientific Understanding Elective (lab or non-lab)</th>
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</thead>
<tbody>
<tr>
<td>3 or 4</td>
</tr>
</tbody>
</table>

**QUANTITATIVE SKILLS - 3 Credits Required**
Consult the Ferris website: [www.ferris.edu/htmls/academics/gened/bsquant.html](http://www.ferris.edu/htmls/academics/gened/bsquant.html) for approved courses.

<table>
<thead>
<tr>
<th>MATH 115</th>
<th>Intermediate Algebra (Undergraduate level MATH 110 Minimum Grade of C- or ACT Math 19 or SAT Mathematics (old) 460 or Algebra 1 - Supplemental Math 16 or Algebra 2 - Supplemental Math 1 or SAT1 Math 460)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>If MATH ACT is 24 or higher, substitute a general education elective.</td>
</tr>
</tbody>
</table>

**CULTURAL ENRICHMENT - 9 Credits Required**
Consult the Ferris website: [www.ferris.edu/htmls/academics/gened/cultcourses.html](http://www.ferris.edu/htmls/academics/gened/cultcourses.html) for approved courses.

<table>
<thead>
<tr>
<th>Cultural Enrichment Elective (Foreign Language Recommended)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Cultural Enrichment Elective (200 level or above)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
</tr>
</tbody>
</table>

**SOCIAL AWARENESS - 9 Credits Required**
Consult the Ferris website: [www.ferris.edu/htmls/academics/gened/soccourses.html](http://www.ferris.edu/htmls/academics/gened/soccourses.html) for level approved courses

<table>
<thead>
<tr>
<th>Social Awareness Elective</th>
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<tbody>
<tr>
<td>3</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Social Awareness Elective (200 level or above)</th>
</tr>
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<tbody>
<tr>
<td>3</td>
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</tbody>
</table>

**NOTICE REGARDING WITHDRAWAL, RE-ADMISSION AND INTERRUPTION OF STUDIES**

Students who return to the university after an interrupted enrollment (not including summer semester) must normally meet the requirements of the curriculum which are in effect at the time of their return, not the requirements which were in effect when they were originally admitted.

* Race/Ethnicity/Gender may be satisfied by some Social Awareness courses. Consult with your advisor.

** Global Consciousness elective satisfied by foreign language requirement.

Advising Notes:
Global consciousness requirement satisfied by ____________________________
Race/ethnicity/gender requirement satisfied by ____________________________
FSUS requirement satisfied by ____________________________

NOTE: A 2.00 cumulative GPA is required in the major, concentration and overall for completion of the Information Security and Intelligence degree.
Ferris State University - College of Business  
BACHELOR OF SCIENCE DEGREE IN INFORMATION SECURITY & INTELLIGENCE

<table>
<thead>
<tr>
<th>REQUIRED</th>
<th>COURSE TITLE - PREREQUISITES SHOWN IN BRACKETS ()</th>
<th>S.H.</th>
<th>GRADE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Major Core and Concentration Requirements (79 - 80 hours)</td>
<td></td>
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</tr>
<tr>
<td>INFORMATION SECURITY AND INTELLIGENCE MAJOR COURSES - 54 Credits Required</td>
<td></td>
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<tr>
<td>STQM 260 Introduction to Statistics - (MATH 115, 116, 120, 126, 130, 132 or 135 w/C- or better or 24 ACT or 560 SAT)</td>
<td>3</td>
<td></td>
<td></td>
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<tr>
<td>STQM 270 Introduction to Data Mining (STQM 260 w/C- or better)</td>
<td>3</td>
<td></td>
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<tr>
<td>STQM 360 Risk Analysis and Strategy (STQM260 w/C- or better)</td>
<td>3</td>
<td></td>
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<tr>
<td>ISIN 200 All Things Digital (None)</td>
<td>3</td>
<td></td>
<td></td>
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<tr>
<td>HSCJ 202 Principles of Information Security (None)</td>
<td>3</td>
<td></td>
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<tr>
<td>HSCJ 210 Computer Forensics &amp; Incident Response (HSCJ 202)</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ISYS 200 Database Design &amp; Implementation (ISYS 105 or demonstrated competence)</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACCT 201 Principles of Accounting (MATH 110 w/C- or better or ACT 19 or SAT 460)</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GISG 225 Principles of Geographic Information Systems (None)</td>
<td>3</td>
<td></td>
<td></td>
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<tr>
<td>PVEL 240 Public Relations (ENGL 150)</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ISIN 300 Link &amp; Visual Analysis (None)</td>
<td>3</td>
<td></td>
<td></td>
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<tr>
<td>ISIN 301 Data and Intelligence Competitive Theory (ISIN 220 and ISYS 200)</td>
<td>3</td>
<td></td>
<td></td>
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<tr>
<td>HSCJ 317 Fraud Examination (None)</td>
<td>3</td>
<td></td>
<td></td>
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<tr>
<td>ISIN 330 Organizational Planning and Security Measures (None)</td>
<td>3</td>
<td></td>
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<tr>
<td>ISYS 411 Project Management (senior status)</td>
<td>3</td>
<td></td>
<td></td>
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<tr>
<td>ISIN 428 Legal &amp; Ethical Issues (None)</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ISIN 491 Internship (None)</td>
<td>3</td>
<td></td>
<td></td>
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<tr>
<td>ISIN 499 Capstone Experience (Senior Standing)</td>
<td>3</td>
<td></td>
<td></td>
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<tr>
<td><strong>Total Major Credits Required</strong></td>
<td>54</td>
<td></td>
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</table>

CHOOSE ONE OF THE FOLLOWING CONCENTRATIONS or approved minor

<table>
<thead>
<tr>
<th>DIGITAL FORENSICS CONCENTRATION - 15 Credits Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSCJ 315 Advanced Computer Forensics (HSCJ 210)</td>
</tr>
<tr>
<td>ISYS 216 Intro to Java Programming (ISYS 110, MATH 115 w/C or better or ACT 24 or SAT 560)</td>
</tr>
<tr>
<td>ISYS 277 Linux Network Administration (ISYS 105 or demonstrated competence)</td>
</tr>
<tr>
<td>ISYS 325 Networking Essentials (ISYS 105 or demonstrated competence)</td>
</tr>
<tr>
<td>ISYS 371 Advanced Database Design &amp; Implementation (ISYS 200 and ISYS 216)</td>
</tr>
<tr>
<td><strong>Total Credits Required for Concentration</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>NATIONAL SECURITY CONCENTRATION - 14 Credits Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISIN 350 Organizational Planning and Security Measures (HSCJ 202)</td>
</tr>
<tr>
<td>Directed elective in security</td>
</tr>
<tr>
<td>2nd year competence in a foreign language</td>
</tr>
<tr>
<td><strong>Total Credits Required for Concentration</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>INTELLIGENCE: GIS AND DATA MINING CONCENTRATION - 12 Credits Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>GISG 262 Geographic Information Systems 2 (GISG 225)</td>
</tr>
<tr>
<td>GISG 382 Geographic Information Systems Data Analysis &amp; Specialization (GISG 282)</td>
</tr>
<tr>
<td>STQM 342 Data Mining Tools (STQM 270)</td>
</tr>
<tr>
<td>STQM 380 Data Mining Processes (STQM 342 w/C-or better)</td>
</tr>
<tr>
<td><strong>Total Credits Required for Concentration</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>DIRECTED ELECTIVES 10 - 14 Credits Required (to total 120 credits) DISCUSS WITH ADVISOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>300-400 level classes may be needed to fulfill the 40 credit 300-400 level requirements in this degree</td>
</tr>
</tbody>
</table>

**NOTE:** A 2.00 cumulative GPA is required in the major, concentration and overall for completion of the Information Security and Intelligence degree.

Effective Summer 2010

ISI Checksheet- Big Rapids-revised 5-19-2013
**Ferris State University - College of Business**

**BACHELOR OF SCIENCE DEGREE IN INFORMATION SECURITY & INTELLIGENCE**

**240 Credit Hours Required**

### COMMUNICATION COMPETENCE - 12 Credits Required

<table>
<thead>
<tr>
<th>COURSE TITLE</th>
<th>C.R.</th>
<th>EQUV</th>
<th>GRADE</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACT 1</td>
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<tr>
<td>ENGL 1</td>
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<td>ENGL 4</td>
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### SCIENTIFIC UNDERSTANDING - 7 to 8 Credits Required

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<td>SCIENCE 2</td>
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<tr>
<td>SCIENCE 3</td>
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### QUANTITATIVE SKILLS - 3 Credits Required

<table>
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<tbody>
<tr>
<td>MATH 115</td>
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### CULTURAL ENRICHMENT - 9 Credits Required

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<th>GRADE</th>
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<td>CULTURAL 3</td>
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</tr>
<tr>
<td>CULTURAL 4</td>
<td>3</td>
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</tr>
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</table>

### SOCIAL AWARENESS - 9 Credits Required

<table>
<thead>
<tr>
<th>COURSE TITLE</th>
<th>C.R.</th>
<th>EQUV</th>
<th>GRADE</th>
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</thead>
<tbody>
<tr>
<td>SOCIAL 1</td>
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<tr>
<td>SOCIAL 2</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>SOCIAL 3</td>
<td>3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### NOTICE REGARDING WITHDRAWAL, RE-ADMISSION AND INTERRUPTION OF STUDIES

Students who return to the university after an interrupted enrollment (not including summer semester) must normally meet the requirements of the curriculum which are in effect at the time of their return, not the requirements which were in effect when they were originally admitted.

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**Effective Fall 2011**

**TOTAL CREDIT HOURS REQUIRED: 120**

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**Effective Fall 2011**

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**Revised 02-10-2011**
COURSE INFORMATION FORM

Course Identification

Prefix: HSCJ   Number: 202   Title: Introduction to Information Security

Course Description:
Students explore the foundations of information security from both historical and emerging perspectives. Topics include critical characteristics of information, attacks, defenses, risk, physical security, disaster recovery, business continuity planning, incident response, cryptography, and malware.

3 credit hours. Prerequisites: None

Course Outcomes and Assessment:
Upon completing this course, students will be able to:
1. Identify and describe Information Security concepts.
   • Assessment: Objective testing, case study analysis, and/or project assessment.
2. Identify and describe the threats to information.
   • Assessment: Objective testing, case study analysis, and/or project assessment.
3. Identify and describe the capabilities of tools, techniques, and technology as it relates to Information Security.
   • Assessment: Objective testing, case study analysis, and/or project assessment.
4. Investigate, assess, and summarize the various approaches to measuring, mitigating, and responding to information security risks.
   • Assessment: Objective testing, case study analysis, and/or project assessment.

Course Outline including Time Allocation:
1. Information Security Concepts. (30%)
   • Definition of Information Security
   • Important events and precedents
   • Professional standards and organizations
   • Definitional importance and dilemmas - What is computer/cyber crime?
2. Threats to information. (20%)
   • Victimization – types and new forms or victimization, disincentives to report, etc.
   • Criminal tools and techniques
   • Computer use by international organized crime and other “abusive” groups
   • What is truly threatening (and for whom) versus what is popular/easy to enforce?
3. Capabilities of tools, techniques, and technology. (20%)
   • Use/ability of technology
   • The history and role of technology in crime
4. Measuring, mitigating, and responding to information security risks. (30%)
   • Measuring risk
   • Mitigating risk
   • Responding to risk
COURSE INFORMATION FORM

Course Identification

Prefix: ISIN       Number: 312       Title: Applications of Information Security

Course Description:
Students apply the tools and concepts of information security to mitigate and respond to risks. The theory and operation of information security tools and techniques are discussed, and students design and test their application in a variety of scenarios. Topics include software-, hardware-, host-, and network-based solutions.

3 credit hours. Prerequisites: HSCJ 202, ISIN 200

Course Outcomes and Assessment:
Upon completing this course, students will be able to:
1. Understand software-based information security tools and techniques.
   - Assessment: Objective testing and/or project assessment.
2. Understand hardware-based information security tools and techniques.
   - Assessment: Objective testing and/or project assessment.
3. Apply host-based information security tools and techniques (software and hardware).
   - Assessment: Objective testing and/or project assessment.
4. Apply network-based information security tools and techniques (software and hardware).
   - Assessment: Objective testing and/or project assessment.

Course Outline including Time Allocation:
1. Software-based tools and techniques (20%)
   - Survey of tools and techniques
   - Theory of tools and techniques
2. Hardware-based tools and techniques (20%)
   - Survey of tools and techniques
   - Theory of tools and techniques
3. Host-based tools and techniques (30%)
   - Applications and testing
4. Network-based tools and techniques (30%)
   - Applications and testing
COURSE INFORMATION FORM

Course Identification

Prefix: HSCJ  Number: 210  Title: Introduction to Digital Forensics

Course Description:
Students learn the fundamentals of digital evidence collection and basic analysis. Emphasis is on the process and techniques for digital evidence collection, and basic analysis techniques are presented. Students will utilize various digital forensic tools and techniques for collection and analysis of digital evidence.

3 credit hours. Prerequisites: HSCJ 202.

Course Outcomes and Assessment:
Upon completing this course, students will be able to:
1. Understand how digital devices and media operate.
   a. Assessment: Objective testing and/or project assessment.
2. Identify and describe the role of computer technology in digital forensics.
   a. Assessment: Objective testing, case study analysis, and/or project assessment.
3. Identify and describe the capabilities of digital forensic tools
   a. Assessment: Objective testing, case study analysis, and/or project assessment.
4. Describe and utilize digital forensic tools for evidence collection.
   a. Assessment: Objective testing, demonstration, and/or project assessment.
5. Describe and utilize digital forensic tools for evidence analysis.
   a. Assessment: Objective testing, demonstration, and/or project assessment.

Course Outline including Time Allocation:

1. Digital devices and media (25%)
   • Overview of computer technology
   • The use of computer technology in computer crime
   • Crime scene procedures
2. The role of computer technology in digital forensics. (15%)
   • Overview of computer technology
   • The use of computer technology in computer crime
   • Crime scene procedures
3. Digital forensic tools. (20%)
   • Types and capabilities
   • Procedures and protocols
   • Utilization
4. Digital evidence collection. (25%)
   • What constitutes evidence
   • Preserving evidence
   • Collecting evidence
5. Digital evidence analysis. (15%)
   • Types of analysis
   • Basic analysis tasks
   • Developing a case and presenting digital evidence
COURSE INFORMATION FORM

Course Identification

Prefix: HSCJ    Number: 310    Title: Digital Forensics and Analysis

Course Description:
Students learn the fundamentals of digital evidence collection and analysis. Emphasis is on both the collection of digital evidence and on common analysis tasks. Students will utilize various digital forensic tools and techniques for collection and analysis of digital evidence.

3 credit hours. Prerequisites: HSCJ 202.

Course Outcomes and Assessment:
Upon completing this course, students will be able to:
1. Identify and describe the role of computer technology in digital forensics.
   b. Assessment: Objective testing, case study analysis, and/or project assessment.
2. Identify and describe the capabilities of digital forensic tools.
   c. Assessment: Objective testing, case study analysis, and/or project assessment.
3. Describe and utilize digital forensic tools for evidence collection.
   d. Assessment: Objective testing, case study analysis, demonstration, and/or project assessment.
4. Describe and utilize digital forensic tools for evidence analysis.
   e. Assessment: Objective testing, case study analysis, demonstration, and/or project assessment.

Course Outline including Time Allocation:
1. The role of computer technology in digital forensics. (20%)
   • Overview of computer technology
   • The use of computer technology in computer crime
   • Crime scene procedures
2. Digital forensic tools. (25%)
   • Types and capabilities
   • Procedures and protocols
   • Utilization
3. Digital evidence collection. (20%)
   • What constitutes evidence
   • Preserving evidence
   • Collecting evidence
4. Digital evidence analysis. (35%)
   • Types of analysis
   • Common analysis tasks
   • Developing a case and presenting digital evidence
COURSE INFORMATION FORM

Course Identification

Prefix: HSCJ       Number: 315       Title: Advanced Digital Forensics

Course Description:
Students explore advanced digital forensic techniques and develop skills to deal with situations requiring a sophisticated response. Emerging and next generation computer technologies and threats, as well as proactive security measures and threat prevention will also be investigated. Students will utilize several digital forensic tools and techniques for collection, analysis, and incident processing.

3 credit hours. Prerequisites: HSCJ 310.

Course Outcomes and Assessment:
Upon completing this course, students will be able to:
1. Identify and describe emerging computer technologies and the threats they pose. 
   Assessment: Objective testing, case study analysis, and/or project assessment.
2. Develop skills for creating proactive security measures. 
   Assessment: Objective testing, case study analysis, and/or project assessment.
3. Describe and utilize digital forensic tools for collection and analysis of non-standard situations. 
   Assessment: Objective testing, case study analysis, demonstration, and/or project assessment.
4. Develop skills for digital incident processing. 
   Assessment: Objective testing, case study analysis, demonstration, and/or project assessment.

Course Outline including Time Allocation:
1. Emerging computer technologies and threats. (20%)
   • Research techniques
   • The use of computer technology in computer crime
   • Threats to security
2. Proactive security measures. (20%)
   • Circumstances requiring non-standard response
   • Techniques for dealing with non-standard situations
3. Collection and analysis of digital evidence in non-standard situations. (40%)
   • Use of non-invasive forensic analysis tools
   • Procedures and protocols
   • Chain of possession
4. Incident processing. (20%)
   • Acquisition of digital evidence
   • Preserving digital evidence
   • Analysis of digital evidence
   • Reporting of digital evidence

16
MODIFY COURSE
Course Data Entry Form
Modify Course
Rev. 07/23/07

I. ACTION TO BE TAKEN: MODIFY AN EXISTING COURSE
Notes:
1. Complete all parts of Sections I and II; complete only those items in Section III that represent changes.
2. If either prefix or number is being changed, use ‘Delete Course’ and ‘Create New Course’ forms rather than this form.

a. List the changes to be made (See Proposed Changes a through p below): d.m.p

b. Term Effective (6 digit code only): 201108 Examples: 200801(Spring), 200805(Summer), 200808(Fall)
Note: The first four digits indicate year, the next two digits indicate month in which term begins.

II. CURRENT: Include information that is in the current course database.

a. Course Prefix
   HSC

b. Number
   202

2. Enter Contact Hours per week in boxes.
   LECTure 3 LAB INDependent Study – Check (x) 
   Practicum: 
   Seminar: 

d. Course Title: Principles of Info Security

III. PROPOSED CHANGES: Complete only those boxes that represent proposed changes identified in Section I. Leave all other spaces blank.

a. Course Prefix

b. Number

3. Enter Contact Hours per week in boxes.
   LECTure LAB INDependent Study – Check (x) 
   Practicum: 
   Seminar: 

d. Course Title: Intro to Information Security (Limit to 30 characters/spaces.)

e. College Code: f. Department Code: 

Credit Hours: Check (x) type and enter maximum and minimum hours in boxes.

g. Type: □ Variable □ Fixed h. Maximum Credit Hours □ i. Minimum Credit Hours □

j. May Be Repeated for Added Credit: Check (x) □ Yes □ No

k. Levels: Check (x) □ Undergraduate □ Graduate □ Professional

l. Grade Method: Check (x) □ Normal Grading □ Credit/No Credit only (Pass/Fail)

m. CATALOG DESCRIPTION – Limit to 75 words – PLEASE BE CONCISE.
   Students explore the foundations of information security from both historical and emerging perspectives. Topics include critical characteristics of information, attacks, defenses, risk, physical security, disaster recovery, business continuity planning, incident response, cryptography, and malware.

n. Term(s) Offered: (See instructions for listing.) o. Max. Section Enrollment:

p. Prerequisites/Co-requisites/Restrictions: Limited to 100 spaces. None

UCC Chair Signature/Date: 2/14/11
Academic Affairs Approval Signature/Date: 3/2/11

To be completed by Academic Affairs Office: - Standard & Measures Coding and General Education Code
□ Basic Skill (BS) □ General Education (GE) □ Occupational Education (OC) □ G.E. Codes

Office of the Registrar use ONLY
I. ACTION TO BE TAKEN: CREATE A NEW COURSE

Notes
1. Complete each item in Section I and Section II.
2. If this course is to be used as a prerequisite for other university courses, Form Fs that reflect the prerequisite change must be submitted for those courses as well.

Term Effective (6 digit code only): 201108 Examples: 200801(Spring), 200805(Summer), 200808(Fall)
Note: The first four digits indicate year, the next two digits indicate month in which term begins.

II. PROPOSED FOR NEW COURSE: Complete all sections a through r. See manual for clarification.

a. Course Prefix
   ISIN

b. Number
   312

c. Enter Contact Hours per week in boxes.
   LEcTure 3 LAB INDependent Study – Check (x)☐ Practicum: ☐ Seminar: ☐

d. Course Title: Applications of Info Security
   (Limit to 30 characters/spaces.)

e. College Code BU
f. Department Code AFIS
Credit Hours: Check (x) type and enter maximum and minimum hours in boxes.

g. Type: ☐ Variable ☑ Fixed
h. Minimum Credit Hours 3
i. Maximum Credit Hours 3

j. May Be Repeated for Added Credit: Check (x) ☐ Yes ☑ No

k. Levels: Check (x) ☑ Undergraduate ☐ Graduate ☐ Professional

l. Grade Method: Check (x) ☑ Normal Grading ☐ Credit/No Credit only (Pass/Fail)

m. Does proposed new course replace an equivalent course? Check (x) ☐ Yes ☑ No

n. Equivalent course: Prefix ☐ Number ☐ See instructions on Replacement courses.

o. CATALOG DESCRIPTION – Limit to 75 words – PLEASE BE CONCISE.
   Students apply the tools and concepts of information security to mitigate and respond to risks. The theory and operation of information security tools and techniques are discussed, and students design and test their application in a variety of scenarios. Topics include software-, hardware-, host-, and network-based solutions.
   p. Term(s) Offered: ☐ (See instructions for listing.) q. Max. Section Enrollment: 20

r. Prerequisites/Co-requisites/Restrictions: (If none, leave blank.) Limited to 100 spaces. HSCJ202, ISIN200.
I. ACTION TO BE TAKEN: MODIFY AN EXISTING COURSE
   Notes:
   3. Complete all parts of Sections I and II; complete only those items in Section III that represent changes.
   4. If either prefix or number is being changed, use 'Delete Course' and 'Create New Course' forms rather than this form.
   a. List the changes to be made (See Proposed Changes a through p below):  
   b. Term Effective (6 digit code only): 201108  
   Examples: 200801(Spring), 200805(Summer), 200808(Fall)
   Note: The first four digits indicate year, the next two digits indicate month in which term begins.

II. CURRENT: Include information that is in the current course database.
   a. Course Prefix  
   b. Number  
   c. Enter Contact Hours per week in boxes.
   HSCJ 210  
   LECTure □ LAB □ INDependent Study – Check (x) □ Practicum: □ Seminar: □  
   d. Course Title: Digital Forensics

III. PROPOSED CHANGES: Complete only those boxes that represent proposed changes identified in Section I.
   Leave all other spaces blank.
   a. Course Prefix  
   b. Number  
   c. Enter Contact Hours per week in boxes.
   LECTure □ LAB □ INDependent Study – Check (x) □ Practicum: □ Seminar: □  
   d. Course Title: Intro to Digital Forensics  
   (Limit to 30 characters/spaces.)
   e. College Code: □  
   f. Department Code: □  
   Credit Hours: Check (x) type and enter maximum and minimum hours in boxes.
   g. Type: □ Variable □ Fixed  
   h. Maximum Credit Hours  
   i. Minimum Credit Hours  
   j. May Be Repeated for Added Credit: Check (x) □ Yes □ No  
   k. Levels: Check (x) □ Undergraduate □ Graduate □ Professional
   l. Grade Method: Check (x) □ Normal Grading □ Credit/No Credit only (Pass/Fail)
   m. CATALOG DESCRIPTION – Limit to 75 words – PLEASE BE CONCISE.
   Students learn the fundamentals of digital evidence collection and basic analysis. Emphasis is on the
   process and techniques for digital evidence collection, and basic analysis techniques are presented.
   Students will utilize various digital forensic tools and techniques for collection and analysis of digital
   evidence.
   n. Term(s) Offered: □ (See instructions for listing)  
   o. Max. Section Enrollment: □  
   p. Prerequisites/Co-requisites/Restrictions: Limited to 100 spaces. □  

UCO Chair Signature/Date: 2/14/11
Academic Affairs Approval Signature/Date: 3/23/11

To be completed by Academic Affairs Office: - Standard & Measures Coding and General Education Code
□ Basic Skill (BS) □ General Education (GE) □ Occupational Education (OC) □ G.E. Codes

Office of the Registrar use ONLY
CREATE NEW COURSE
Course Data Entry Form
FORM F
Create New Course
Rev. 07/23/07

I. ACTION TO BE TAKEN: CREATE A NEW COURSE
   Notes
   3. Complete each item in Section I and Section II.
   4. If this course is to be used as a prerequisite for other university courses, Form Fs that reflect the prerequisite change must be submitted for those courses as well.

   Term Effective (6 digit code only): 201108  Examples: 200801(Spring), 200805(Summer), 200808(Fall)
   Note: The first four digits indicate year, the next two digits indicate month in which term begins.

II. PROPOSED FOR NEW COURSE: Complete all sections a through r. See manual for clarification.

   a. Course Prefix          b. Number          c. Enter Contact Hours per week in boxes.
      HSCJ                310          LECTure □   LAB □   INDependent Study – Check (x) □
                                        Practicum: □   Seminar: □

   d. Course Title: Digital Forensics and Analysis  (Limit to 30 characters/spaces)

   e. College Code: AFIS
   f. Department Code: AFIS
   g. Type: □ Variable   ■ Fixed
   h. Minimum Credit Hours 3  i. Maximum Credit Hours 3

   j. May Be Repeated for Added Credit: Check (x) □ Yes  □ No

   k. Levels: Check (x) □ Undergraduate  □ Graduate  □ Professional

   l. Grade Method: Check (x) □ Normal Grading  □ Credit/No Credit only (Pass/Fail)

   m. Does proposed new course replace an equivalent course? Check (x) □ Yes  □ No

   n. Equivalent course: Prefix     Number  See instructions on Replacement courses.

   o. CATALOG DESCRIPTION – Limit to 75 words – PLEASE BE CONCISE.
      Students learn the fundamentals of digital evidence collection and analysis. Emphasis is on both the collection of digital evidence and on common analysis tasks. Students will utilize various digital forensic tools and techniques for collection and analysis of digital evidence.

   p. Term(s) Offered: □ (See instructions for listing.)
   q. Max. Section Enrollment: 20

   r. Prerequisites/Co-requisites/Restrictions: (If none, leave blank.) Limited to 100 spaces. HSCJ202

   UCC Chair Signature/Date:  2/4/11  Academic Affairs Approval Signature/Date:  3/12/11

To be completed by Academic Affairs Office: - Standard & Measures Coding and General Education Code
   □ Basic Skill (BS) □ General Education (GE) □ Occupational Education (OC) G.E. Codes

Office of the Registrar use ONLY
Date Rec'd:    Date Completed:    Entered:  SCACRSE  SCADETL  SCARRES  SCAPREQ  

20
I. ACTION TO BE TAKEN: MODIFY AN EXISTING COURSE
Notes:
1. Complete all parts of Sections I and II; complete only those items in Section III that represent changes.
2. If either prefix or number is being changed, use 'Delete Course' and 'Create New Course' forms rather than this form.

a. List the changes to be made (See Proposed Changes a through p below): [ ]

b. Term Effective (6 digit code only): 201108 Examples: 200801(Spring), 200805(Summer), 200808(Fall)
Note: The first four digits indicate year, the next two digits indicate month in which term begins.

II. CURRENT: Include information that is in the current course database.
   a. Course Prefix: HSCJ  
   b. Number: 315  
   c. Enter Contact Hours per week in boxes.
       Lecture: [ ]  
       Lab: [ ]  
       Independent Study – Check (x) [ ]  
       Practicum: [ ]  
       Seminar: [ ]
   d. Course Title: Advanced Digital Forensics

III. PROPOSED CHANGES: Complete only those boxes that represent proposed changes identified in Section I.
Leave all other spaces blank.
   a. Course Prefix:  
   b. Number:  
   c. Enter Contact Hours per week in boxes.
       Lecture: [ ]  
       Lab: [ ]  
       Independent Study – Check (x) [ ]  
       Practicum: [ ]  
       Seminar: [ ]
   d. Course Title: [ ] (Limit to 30 characters/spaces.)
   e. College Code:  
   f. Department Code:  

Credit Hours: Check (x) type and enter maximum and minimum hours in boxes.

   g. Type: [ ] Variable  [ ] Fixed  
   h. Maximum Credit Hours:  
   i. Minimum Credit Hours:  

j. May Be Repeated for Added Credit: Check (x) [ ] Yes  [ ] No

k. Levels: Check (x) [ ] Undergraduate  [ ] Graduate  [ ] Professional

l. Grade Method: Check (x) [ ] Normal Grading  [ ] Credit/No Credit only (Pass/Fail)

m. CATALOG DESCRIPTION – Limit to 75 words – PLEASE BE CONCISE.
Students explore advanced digital forensic techniques and develop skills to deal with situations requiring a sophisticated response. Emerging and next generation computer technologies and threats, as well as proactive security measures and threat prevention will also be investigated. Students will utilize several digital forensic tools and techniques for collection, analysis, and incident processing.

n. Term(s) Offered:  
   (See instructions for listing.)  
   o. Max. Section Enrollment:  

p. Prerequisites/Co-requisites/Restrictions: Limited to 100 spaces. HSCJ310

UCC Chair Signature/Date:  
Academic Affairs Approval Signature/Date:  

To be completed by Academic Affairs Office: - Standard & Measures Coding and General Education Code
   ☑ Basic Skill (BS)  ☑ General Education (GE)  ☑ Occupational Education (OC)  ☑ G.E. Codes

Office of the Registrar use ONLY

new
I. ACTION TO BE TAKEN: DELETE COURSE FROM CATALOG.

Note: Complete each section.

The course described below will be moved to inactive status.

a. Term Effective: Term F Year 2011 See instructions

II. CURRENT COURSE TO BE DELETED FROM THE ACTIVE STATUS:

Include the information that is in the current course database.

a. Course Prefix [SIN]
b. Number 330

c. Enter Contact Hours per week in boxes
   LECTure B LAB INDependent Study – Check (x) □
   Practicum: □ Seminar: □

d. Full Course Title: Org Crime-Gang-Terrorist Org

UCC Chair Signature/Date: [Signature] 7/14/11

Academic Affairs Approval Signature/Date: [Signature] 9/21/11

Office of the Registrar use ONLY

Date Rec’d: ___ Date Completed: ___ Entered: SCACRSE _ SCADETL _ SCARRES _ SCAPREQ _
Suggested Course Plans by Concentration

Transfer students (i.e., students who have already met the GenEd requirements) will follow one of the course plans below, but the 3-4 GenEd courses scheduled in Year 3 will be moved to Year 1 or 2, and the 3-4 ISI program courses scheduled for Year 2 will be moved to Year 3 (replacing the GenEd courses listed in Year 3 in the plans below).

For part-time students, the advisor should develop a modified course plan based on the appropriate course plan below.

(continued)
CONCERNS WITH THE ISI CURRICULUM PROPOSAL
AFIS Faculty
November 30, 2010

Faculty Meeting:
At the called department meeting on 11/30/2010, 9 of 16 faculty members expressed concerns about the ISI curriculum modification proposal through their votes. From another perspective, 12 of 16 faculty supported the proposal. The actual vote was: 7 support; 5 support with concerns; and, 4 not support. The 4 faculty who voted “not support” were primarily concerned that allowing one program to not include the 10 course COB core might encourage other programs to follow with similar proposals of their own. One faculty member did state that the proposal could weaken the overall curriculum impact that the core has on undergraduate business education.

Concerns were expressed by a number of faculty that the COB Core Curriculum Committee should have been consulted for an opinion on a change of this magnitude. Since the current COB core was approved by all faculty some time ago, they also believe that a proper process would have included discussions with all faculty before deviating from the agreed upon core courses in a specific program.

Faculty Concerns in Writing:
Dr. Hal Palmer
*The new proposal by the ISI faculty seems to be an excellent degree program, filling the need for information systems security professionals, and meeting a number of accrediting boards’ requirements. I do have a concern however, relating to the elimination of several of the current classes in the business core. I realize that elements of the program have been mapped to the common professional component of the ACBSP accreditation requirements, but the precedent the new program sets is disturbing, especially the elimination of the capstone course, BUSN 499.

If the program is approved by the college, there may be justification for other programs to change their curriculum, based on the same criteria used by the ISI group. This could become a positive action for the College of Business as a whole. Each program establishing a series of courses that meet the professional component, however such a course of action would be quite disruptive to the college, and I believe quite expensive in the long run.

As stated earlier it is just a concern and not a reason to oppose the proposal."

Dr. Amy Buse
First, I believe the ISI degree is well balanced between the technical and business aspects, and I am not challenging the fact that the program meets the CPC for ACBSP. My concerns stem from the concept of distinguishing between “different” business degrees within the College of Business. Different in the sense of what actual business classes the student is required to take for the degree. Does every degree that wants to be called a business degree from the College of Business at Ferris State University have to take the same business core? We as a college have not wrestled with this question. In my 16 years at Ferris the answer to those questions has been yes. However, if a degree meets the CPC for accreditation purposes, and meets the skill set industry expects graduates of the program to have when entering the work force, maybe it is time to visit the issue surrounding the business core and a business degree. I do not believe that the College of Business has thought about how to handle the difference between degrees that meet the CPC and degrees that take the College of Business core, and I think this will lead to confusion on the part of the consumer (both students and employers). I believe it is important for us to have the conversation and I hope this degree sparks the conversation.

My Concerns/Comments:
The ISI program is already an existing program within the College of Business that does not contain the COB core courses. This program was originally conceived by the initiating COB faculty as a potential program in CPTS three years ago, and it was approved without going through the normal process starting in the College of Business. It became a COB program when it was coded as a main campus offering at its outset and it has been part of the COB for that entire time. The program is now in its fourth year with 125 enrolled majors.

My concerns as department head and COB ACBSP accreditation co-champion are as follows:
• By not using the COB core courses, a rigorous assessment of the mapped ISI courses to the Common Professional Competencies (CPC) will be critical for maintaining ACBSP accreditation.
• Precedence will be set that could lead to other COB programs deciding not to use the entire list of COB core courses, which could exacerbate the efforts required to document conformance to ACBSP standards.
• There was no discussion with the COB core committee or non-AFIS faculty to solicit input on the impacts of continuing to not use all of the COB core courses in the ISI program. There was only a brief discussion with the chair of this committee, Matt Pinter. Mr. Pinter indicated to me in a conversation on the day after the department meeting that not using the core could be problematic and that process should be followed in any case.

While it is true that the ISI program could be exempted from the ACBSP accreditation as was done with the Graphic Design program, it is not a good precedent to follow for our accreditation. The ISI advisory board said they wanted students with financial analysis and decision-making skills as a minimum in addition to technical knowledge.

Epilogue:
A new development in which the ISI program has just received acknowledgement from the National Security Agency may make these concerns moot! This program is the only of its kind in the country that has mapped its courses to all six NSA educational standards in information assurance (IA). Four-year colleges and graduate-level universities are eligible to apply to be designated as a National Center of Academic Excellence in IA Education. Each applicant must pass a rigorous review, demonstrating its commitment to academic excellence in IA education. During the application process, applicants are evaluated against stringent criteria. And, the courses mapped were those in the proposal. Changing the course lineup may necessitate remapping to the NSA standards. The next step is for Ferris to apply to become a Center of Excellence in Information Assurance.

This designation as a Center of Excellence will entitle ISI students to apply for competitive $12,000 renewable grants for tuition. This certification of the program will also bring national recognition, more student scholarship opportunities, and possible international recognition.

While I have expressed concerns partially to support the majority of the faculty members who have expressed concerns, I support the proposal with my stated concerns and wish to emphasize that the ISI program is an outstanding academic offering with outstanding faculty.

Jim woolen, Department Head
Accountancy, Finance & Information Systems
Response to: CONCERNS WITH THE ISI CURRICULUM PROPOSAL

In response to concerns about whether the ISI program, as a CoB program under ACBSP, should require the common Business Core classes, we have removed any reference to ACBSP from this proposal. The ISI program will be likely be handled as an exception to the CoB ACBSP accreditation package.
Dr. Barbara Ciaramitaro  
College of Business  
Ferris State University  
119 S. Slate Street  
Big Rapids, MI 49307

Dr. Ciaramitaro,

The Information Assurance Courseware Evaluation (IACE) Program has evaluated your certification application and validated that Ferris State University’s courseware meets all of the elements of the Committee on National Security Systems (CNSS) National Training Standards for:

Information Systems Security (INFOSEC) Professionals, NSTISSI No. 4011

Senior Systems Managers, CNSSI No. 4012

System Administrators (SA), CNSSI No. 4013 Entry Level

Information Systems Security Officers, CNSSI No. 4014 Entry Level

Systems Certifiers, NSTISSI No. 4015

Risk Analysts, CNSSI No. 4016 Entry Level

You will receive recognition and an official certificate during the June 2011 CNSS Ceremony, which will be held at the 15th Colloquium for Information Systems Security Education (CISSE). This certificate, signed by the CNSS Chair, will be valid through June 2016.

The IACE Program provides consistency in training and education for the information assurance skills that are critical to our nation. We appreciate your participation in this program, and look forward to seeing you in June.

Lynn Hathaway

Lynn Hathaway
IACE Program Manager
Hi Paula
Please note these changes and forward this email on to the UCC.
Thanks.
Leonard

Jim Jones wrote:
> Leonard,
> Thanks for the review and comments. I spoke with Mitzi and made changes to the ISI proposal (as well as related changes to the HSDSF proposal). Because the scans are degrading, I have attached PDFs of only the changed pages for each. I tried to note all changes made in red. In summary:
> ISI:
> HSCJ 315 remains numbered 315 (pages 21 and 22 should be removed from the proposal)
> Add existing ISIN 390 to Form A
> Checksheet corrected for ISIN 300 Link and Visual Analysis
> Removed pre-req from Checksheet for HSCJ 202 Introduction to Information Security
> Added concentration classes to Form A
>
> HSDSF:
> HSCJ 315 (not HSCJ 415) - Form A, checksheets, and course plans
>
> Thanks for your help. Normally, I would attend the UCC meeting to answer any questions, but I'm already committed to be in Traverse City to meet with NMC advisors that day. We are trying to arrange for Barbara C. to attend the UCC meeting.
>
> --
> James Jones, Ph.D.
> Associate Professor
> Ferris State University
> (c) 231-944-8020
> (o) 231-591-3148
> (e) JamesJones@ferris.edu

-------- Original Message --------
To: Jim Jones (jim@secure99.net)
From: Leonard Johnson (Leonard_Johnson@ferris.edu)
Subject: ISI Curriculum Clean-up
Date: 2/8/2011 1:16:50p

Hi Jim

The UCC met yesterday and briefly discussed your proposal. However, before we can continue our discussion, there are several minor revisions that will
require your attention. Please meet with (or contact by phone), Mitzi Day in the records office and go through the proposal with her.

Also, there seem to be several "concentrations" included in the proposal, that have not yet been through the curricular process to be formally adopted. Mitzi can help you identify those which might need to be added to the proposal for adoption.

Please contact Anita Fagerman or me should you have any questions!

Thanks.

Leonard

Leonard R. Johnson, Ph.D
Professor of Education and Chair,
Strategic Planning and Resources Council
University Curriculum Committee
Ferris State University
1349 Cramer Circle
Big Rapids, Michigan 49307
(231) 591-2134
http://www.ferris.edu/education/education

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Previous Attachment :HSDF-CertificateCleanup_20110210_ChangedPagesOnly.pdf

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:ISI-CourseCleanup_20110210_ChangedPagesOnly.pdf

Previous Attachment
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Please contact Anita Fagerman or me should you have any questions!

Thanks.

Leonard

Leonard R. Johnson, Ph.D
Professor of Education and Chair,
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Curriculum Proposal
Paula L Hadley-Kennedy, Elise M Gramza,
David Nicol, Jim Woolen, Cheryl K
Maureen Milzarski to: Cluchey, Mitzi A Day, Kathy L Fisher,
Adam J Forbes, Bruce E Gilchrist, Jennifer
Hegenauer, Kathryn A. Lake
Cc: Laine Mitchell, ArticulationStudentAssistant

Attached is the approved paperwork for the following: ISI Curriculum Cleanup

Scan001.PDF