Document N: Course and Program Development:

IMPACT AND APPROVAL SIGNATURES

See Course and Program Development Policy and Procedures (www.ubalt.edu/provost) for instructions.

SCHOOL: LAW MSB CAS CPA

CONTACT NAME: Debra L. Stanley PHONE: 410 832 6082

DEPARTMENT/DIVISION: School of Criminal Justice DATE PREPARED: 11/14/12

PROPOSED SEMESTER OF IMPLEMENTATION: fall spring YEAR: 2013

TYPE OF ACTION: add (new) deactivate modify other

LEVEL OF ACTION: noncredit undergraduate graduate other

ACTION BEING REQUESTED (select one category, either Course Actions or Program Actions):

- COURSE ACTIONS
- PROGRAM ACTIONS

Original Subject Code/Course Number:
FSCS 630

Original Program Title:

Original Course Title:
Introduction to Cryptanalysis

Select one or multiple actions from one of the lists below (review the list of necessary documents and signatures):

<table>
<thead>
<tr>
<th>COURSE ACTIONS</th>
<th>PROGRAM ACTIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Experimental Course</td>
<td>10. Program Requirements</td>
</tr>
<tr>
<td>✓ 2. Course Title</td>
<td>11a. Undergraduate Specialization (24 credits or fewer)</td>
</tr>
<tr>
<td>3. Course Credits</td>
<td>11b. Master’s Specialization (12 credits or fewer)</td>
</tr>
<tr>
<td>4. Course Number</td>
<td>11c. Doctoral Specialization (18 credits or fewer)</td>
</tr>
<tr>
<td>5. Course Level</td>
<td>12. Minor (add or delete)</td>
</tr>
<tr>
<td>6. Pre- and Co-Requisite</td>
<td>13. Closed Site Program</td>
</tr>
<tr>
<td>✓ 7. Course Description</td>
<td>14. Program Suspension</td>
</tr>
<tr>
<td>8. New Course</td>
<td>15. Program Reactivation</td>
</tr>
<tr>
<td>9. Deactivate Course</td>
<td>16a. Certificate Program (UG/G) exclusively within existing degree program</td>
</tr>
<tr>
<td>22. Other</td>
<td>16b. Certificate Program (UG/G) outside of or across degree programs (12 or more credits)</td>
</tr>
<tr>
<td></td>
<td>17. Off-Campus Delivery of Existing Programs</td>
</tr>
<tr>
<td></td>
<td>18a. Undergraduate Concentration (exceeds 24 credits)</td>
</tr>
<tr>
<td></td>
<td>18b. Master’s Concentration (exceeds 12 credits)</td>
</tr>
<tr>
<td></td>
<td>18c. Doctoral Concentration (exceeds 18 credits)</td>
</tr>
<tr>
<td></td>
<td>19. Program Title Change</td>
</tr>
<tr>
<td></td>
<td>20. Program Termination</td>
</tr>
<tr>
<td></td>
<td>21. New Degree Program</td>
</tr>
<tr>
<td></td>
<td>22. Other</td>
</tr>
</tbody>
</table>

ADDITIONAL DOCUMENTATION (check all appropriate boxes of documents included; review the list of necessary documents):

- summary proposal (O)  course definition document (P)  full five-page MHEC proposal (Q)
- financial tables (MHEC) (R)  other documents as may be required by MHEC/USM (S)  other (T)

Summer 2010
## IMPACT REVIEW (review the list of necessary signatures):

<table>
<thead>
<tr>
<th>Impacted Entity</th>
<th>Signature</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. Library</td>
<td></td>
<td></td>
</tr>
<tr>
<td>b. OTS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>c. University Relations</td>
<td></td>
<td></td>
</tr>
<tr>
<td>d. Admissions</td>
<td></td>
<td></td>
</tr>
<tr>
<td>e. Records</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- a. Library
  - no impact
  - impact statement attached
- b. OTS
  - no impact
  - impact statement attached
- c. University Relations
  - no impact
  - impact statement attached
- d. Admissions
  - no impact
  - impact statement attached
- e. Records
  - no impact
  - impact statement attached

## APPROVAL SEQUENCE (review the list of necessary signatures):

<table>
<thead>
<tr>
<th>Approval Level</th>
<th>Signature</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Department/Division (Chair)</td>
<td>\textit{Demar E. Stanley}</td>
<td>3/10/15</td>
</tr>
<tr>
<td>B. General Education (for No. 7, 8)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>C. Final Faculty Review Body Within Each School (Chair)</td>
<td>\textit{Wealthy B. Jones}</td>
<td>3/10/15</td>
</tr>
<tr>
<td>D. Dean</td>
<td>\textit{Cheryl M. Brown}</td>
<td>3/13/15</td>
</tr>
<tr>
<td>E. University Faculty Senate (Chair)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>F. University Council (Chair) \footnote{University Council review (for recommendation to the president or back to the provost) shall be limited to curricular or academic policy issues that may potentially affect the University's mission and strategic planning, or have a significant impact on the generation or allocation of its financial resources.}</td>
<td></td>
<td></td>
</tr>
<tr>
<td>G. Provost and Senior Vice President for Academic Affairs</td>
<td>\textit{Mr. F. N.}</td>
<td>4/7/15</td>
</tr>
<tr>
<td>H. President</td>
<td></td>
<td></td>
</tr>
<tr>
<td>I. Board of Regents (notification only)</td>
<td></td>
<td></td>
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<tr>
<td>J. Board of Regents (approval)</td>
<td></td>
<td></td>
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<tr>
<td>K. MHEC (notification only)</td>
<td></td>
<td></td>
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<tr>
<td>L. MHEC (approval)</td>
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<tr>
<td>M. Middle States Association notification</td>
<td>Required only if the University's mission is changed by the action</td>
<td></td>
</tr>
</tbody>
</table>
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CONTACT NAME: Debra L. Stanley PHONE: 410 832 6082

DEPARTMENT/DIVISION: School of Criminal Justice DATE PREPARED: 11/14/12

PROPOSED SEMESTER OF IMPLEMENTATION: fall spring YEAR: 2013

ACTION BEING REQUESTED (select one category, either Course Actions or Program Actions):

- COURSE ACTIONS
- PROGRAM ACTIONS

Original Subject Code/Course Number: FSCS 630
Original Program Title:
Original Course Title: Introduction to Cryptanalysis

Select one or multiple actions from one of the lists below (review the list of necessary documents and signatures):

- Course Actions
- Program Actions

For changes to existing courses:
OLD TITLE Introduction to Cryptanalysis
NEW TITLE Security Analysis and Introduction to Cryptography

SUBJECT CODE/COURSE NO. FSCS 630 CREDITS 3
SUBJECT CODE/COURSE NO. FSCS 630 CREDITS 3

Summer 2010
DESCRIBE THE REQUESTED COURSE/PROGRAM ACTION (additional pages may be attached if necessary):

Request course title change and course description. This course is a core course for the M.S. in Forensic Science High Technology Crime Program.

SET FORTH THE RATIONALE FOR THIS PROPOSAL:

This course is a core course for the MSFS degree, the current course focus does not fit into the program. The material in the current course is designed for more of a Information Technology course, rather than a forensic science course in high technology. The new course description captures the scope of cryptography and the need for encryption, coding, and information security in a digital environment.

Revised Course description - Provides the historical basis for ciphers and encryption techniques and examines the use of codes and decryption techniques in government and commercial applications. Reviews the responsibilities of a Security Analyst, including recognizing breaches of security, controlling further risk, and identifying methods for gathering forensic evidence.
DOCUMEN P: COURSE DEFINITION
See Course and Program Development Policy and Procedures (http://www.ubalt.edu/template.cfm?page=257) for instructions.

2. DATE APPROVED: Debra Stanley

3. DEPARTMENT/DIVISION School of Criminal Justice

4. COURSE NUMBER(S) with SUBJECT CODE(S) FSCS 630

5. COURSE TITLE Introduction to Cryptography

6. CREDIT HOURS 3 credits

7. CATALOG DESCRIPTION

Provides the historical basis for ciphers and encryption techniques and examines the use of codes and decryption techniques in government and commercial applications. Reviews the responsibilities of a Security Analyst, including recognizing breaches of security, controlling further risk, and identifying methods for gathering forensic evidence.

8. PREREQUISITES none

9. COURSE PURPOSE (how the course is to be used in the curriculum; e.g., required for the major, elective, etc.) required for the major in MSFS – High Technology Crime

10. GENERAL EDUCATION AREA (if applicable; e.g., social sciences, humanities, mathematics, etc.) n/a

11. COURSE TYPE/COMPONENT (clinical, continuance, discussion, field studies, independent study, laboratory, lecture, practicum, research, seminar, supervision, thesis research, tutorial or workshop; this must match PeopleSoft 9.0 coding, so check with your dean's office if you are unsure of the correct entry) lecture and computer laboratory

12. FACULTY QUALIFIED TO TEACH COURSE Berry Grant and Dr. Ebrima Ceesay (adjunct faculty member)

13. CONTENT OUTLINE

- Identify methods and processes used to assess risk and establish security
  o Specialized software and tools used to encrypt and decrypt computers will be used to
    Analyze case scenarios of security breaches
- Recognize the diverse levels of security required based on type of information and risk
- Understand the historical foundations for ciphers and encryption techniques as applied in business, government, and commercial environments
- Explore decryption techniques used in business and government environments
- Analyze breaches of security
- Identify how to control further risk
- Understand the Legal and Ethical issues
- Describe protocols for investigating security breaches
- Demonstrate ability to implement investigative techniques for gathering forensic evidence and

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14. LEARNING GOALS At the completion of the course students will be able to—
   • Understand and recognize the origins of cryptography
   • Understand the theory behind codes and encryption
   • Understand the techniques for decryption of codes

15. ASSESSMENT STRATEGIES The learning goals will be assessed through student papers and projects in addition to routine examinations.

16. SUGGESTED TEXT(S) and MATERIALS (e.g. textbooks, equipment, software, etc., that students must purchase)

   Miscellaneous textbooks, possible software.

17. SPECIAL GRADING OPTIONS (if applicable) none

18. SUGGESTED CLASS SIZE maximum 20

19. LAB FEES (if applicable) $65