**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**

<table>
<thead>
<tr>
<th>Original Subject Code/Course Number:</th>
<th>Original Program Title:</th>
</tr>
</thead>
<tbody>
<tr>
<td>FSCS 635</td>
<td></td>
</tr>
</tbody>
</table>

**Original Course Title:** Image Analysis

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

**COURSE ACTIONS**
- 1. Experimental Course
- 2. Course Title
- 3. Course Credits
- 4. Course Number
- 5. Course Level
- 6. Pre- and Co-Requisite
- 7. Course Description
- ✓ 8. New Course
- 9. Deactivate Course
- 10. Other

**PROGRAM ACTIONS**
- 10. Program Requirements
- 11a. Undergraduate Specialization (24 credits or fewer)
- 11b. Master's Specialization (12 credits or fewer)
- 11c. Doctoral Specialization (18 credits or fewer)
- 12. Minor (add or delete)
- 13. Closed Site Program
- 14. Program Suspension
- 15. Program Reactivation
- 16a. Certificate Program (UG/G) exclusively within existing degree program
- 16b. Certificate Program (UG/G) outside of or across degree programs (12 or more credits)
- 17. Off-Campus Delivery of Existing Programs
- 18a. Undergraduate Concentration (exceeds 24 credits)
- 18b. Master's Concentration (exceeds 12 credits)
- 18c. Doctoral Concentration (exceeds 18 credits)
- 19. Program Title Change
- 20. Program Termination
- 21. New Degree Program
- 22. Other

**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)
### Impact Review

**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>
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<tr>
<td>b. OTS</td>
<td></td>
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<tr>
<td>c. University Relations</td>
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<tr>
<td>d. Admissions</td>
<td></td>
<td></td>
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<tr>
<td>e. Records</td>
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</tbody>
</table>

**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>D. Jschenegy</td>
<td>11/19/12</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>C. Jabenef</td>
<td>11/27/12</td>
</tr>
<tr>
<td>D. Dean</td>
<td>Laura A. Wilson-Grady</td>
<td>11/27/12</td>
</tr>
<tr>
<td>E. University Faculty Senate (Chair)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>F. University Council (Chair)¹</td>
<td></td>
<td></td>
</tr>
<tr>
<td>G. Provost and Senior Vice President for Academic Affairs</td>
<td>M. Jschenegy</td>
<td>2/20/2013</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>
</tr>
<tr>
<td>J. Board of Regents (approval)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>K. MHEC (notification only)</td>
<td></td>
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<tr>
<td>L. MHEC (approval)</td>
<td></td>
<td></td>
</tr>
<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>

¹ 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.
Document O: Course and Program Development: SUMMARY PROPOSAL

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

**SCHOOL:**
- LAW
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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 635

**Original Course Title:**
- Image Analysis

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

### COURSE ACTIONS
1. Experimental Course
2. Course Title
3. Course Credits
4. Course Number
5. Course Level
6. Pre- and Co-Requisite
7. Course Description
8. New Course
9. Deactivate Course
10. Other

### PROGRAM ACTIONS
10. Program Requirements
11a. Undergraduate Specialization (24 credits or fewer)
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18c. Doctoral Concentration (exceeds 18 credits)
19. Program Title Change
20. Program Termination
21. New Degree Program
22. Other

**For changes to existing courses:**

<table>
<thead>
<tr>
<th>OLD TITLE</th>
<th>SUBJECT CODE/COURSE NO.</th>
<th>CREDITS</th>
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<tr>
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<table>
<thead>
<tr>
<th>NEW TITLE</th>
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</table>
DESCRIBE THE REQUESTED COURSE/PROGRAM ACTION (additional pages may be attached if necessary):

Request approval of this new course as a specialization course for the M.S. in Forensic Science High Technology Crime.

SET FORTH THE RATIONALE FOR THIS PROPOSAL:

This course is a specialization course for the Cryptanalysis track in the MSFS degree.

Course description - Examines the effective manipulation of digital images from digital photographs and videotapes. Discusses identification of authenticity and detection of manipulation in addition to detection of fraud and other criminal activity in these digital media. Prerequisite FSCS 630
1. DATE PREPARED 11/16/2012

2. PREPARED BY
Debra L. Stanley, Ph.D. and Charles Tumosa, Ph.D.

3. DEPARTMENT/DIVISION School of Criminal Justice

4. COURSE NUMBER(S) with SUBJECT CODE(S) FSCS 635

5. COURSE TITLE Image Analysis

6. CREDIT HOURS 3 credits

7. CATALOG DESCRIPTION Examines the effective manipulation of digital images from digital photographs and videotapes. Discusses identification of authenticity and detection of manipulation in addition to detection of fraud and other criminal activity in these digital media.

8. PREREQUISITES FSCS 630

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

Summer 2010
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 Select adjunct professors employed by SJA

13. CONTENT OUTLINE

- Theory of Image Analysis
- Conversion techniques for digital and analog systems
- Application and techniques of Image Analysis
- Appropriate ethical considerations and law

14. LEARNING GOALS At the completion of the course students will be able to –

- Understand the production of digital (and analog) images
- Understand the theory behind image manipulation
- Understand the techniques of image manipulation

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, preferably 10

19. LAB FEES (if applicable) $65

Summer 2010