**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:** Anastasia Salter  
**PHONE:** 410-837-5223

**DEPARTMENT/DIVISION:** School of Information Arts and Technologies  
**DATE PREPARED:** 4/5/12

**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**

| Original Subject Code/Course Number: IDIA 616 |
| Original Course Title: Hypermedia Production |

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>2. Course Title</td>
<td>10. Program Requirements</td>
</tr>
<tr>
<td>3. Course Credits</td>
<td>11a. Undergraduate Specialization (24 credits or fewer)</td>
</tr>
<tr>
<td>4. Course Number</td>
<td>11b. Master's Specialization (12 credits or fewer)</td>
</tr>
<tr>
<td>5. Course Level</td>
<td>11c. Doctoral Specialization (18 credits or fewer)</td>
</tr>
<tr>
<td>6. Pre- and Co-Requisite</td>
<td>12. Minor (add or delete)</td>
</tr>
<tr>
<td>7. Course Description</td>
<td>13. Closed Site Program</td>
</tr>
<tr>
<td>8. New Course</td>
<td>14. Program Suspension</td>
</tr>
<tr>
<td>9. Deactivate Course</td>
<td>15. Program Reactivation</td>
</tr>
<tr>
<td>22. Other</td>
<td>16a. Certificate Program (UG/G) exclusively within existing degree program</td>
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<td></td>
<td>17. Off-Campus Delivery of Existing Programs</td>
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<td>19. Program Title Change</td>
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<td></td>
<td>20. Program Termination</td>
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<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)
## 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>
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<td>b. OTS</td>
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<td>c. University Relations</td>
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<td>d. Admissions</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>Deborah Yehl</td>
<td>April 12, 2012</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>Kathy Summers</td>
<td>4/12/12</td>
</tr>
<tr>
<td>D. Dean</td>
<td>David B. Peay</td>
<td>4/16/12</td>
</tr>
<tr>
<td>E. University Faculty Senate (Chair)</td>
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<tr>
<td>F. University Council (Chair)</td>
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</tr>
<tr>
<td>G. Provost and Senior Vice President for Academic Affairs</td>
<td>Beverly Schnelle</td>
<td>5/8/12</td>
</tr>
<tr>
<td>H. President</td>
<td></td>
<td></td>
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<td>I. Board of Regents (notification only)</td>
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<td>J. Board of Regents (approval)</td>
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<td></td>
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<tr>
<td>K. MHEC (notification only)</td>
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<tr>
<td>L. MHEC (approval)</td>
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<tr>
<td>M. Middle States Association notification required only if the University’s mission is changed by the action</td>
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</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.
See Course and Program Development Policy and Procedures (www.ubalt.edu/provost) for instructions.

SCHOOL: LAW  MSB  CAS  CPA
CONTACT NAME: Anastasia Salter  PHONE: 410-837-5223
DEPARTMENT/DIVISION: School of Information Arts and Technologies  DATE PREPARED: 4/5/12
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: IDIA 616
Original Course Title: Hypermedia Production

Select one or multiple actions from one of the lists below (review the list of necessary documents and signatures):
- 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. Program Requirements
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- 19. Program Title Change
- 20. Program Termination
- 21. New Degree Program
- 22. Other

For changes to existing courses:

OLD TITLE: Hypermedia Production
NEW TITLE: Designing for Mobile Web

<table>
<thead>
<tr>
<th>SUBJECT CODE/COURSE NO</th>
<th>IDIA 616</th>
<th>CREDITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>OLD TITLE</td>
<td>616</td>
<td>3</td>
</tr>
<tr>
<td>NEW TITLE</td>
<td>616</td>
<td>3</td>
</tr>
</tbody>
</table>
DESCRIBE THE REQUESTED COURSE/PROGRAM ACTION (additional pages may be attached if necessary):

The School of Science, Information Arts + Technologies proposes two changes to the current IDIA 616/Hypermedia Production.

1. Name change from "Hypermedia Production" to "Designing for Mobile Web"

2. Change the course description from:

IDIA 616: Hypermedia Production (3) Hands-on investigation of strategies and problem-solving techniques involved in the production of practical interactive publications. Students work intensively on a major electronic publishing project. Lab fee required. prerequisite: Passing Score on Hypermedia Proficiency Exam or a grade of "B" or better in PBDS 660.

To

IDIA 616: Designing for Mobile Web (3) Hands-on application and site development for the mobile web. Students will learn current programming languages and development environments for the latest mobile devices and work intensively on a major mobile design project. Lab fee required. prerequisite: Passing Score on Hypermedia Proficiency Exam or a grade of "B" or better in PBDS 660.

SET FORTH THE RATIONALE FOR THIS PROPOSAL:

1. Name Change: Centering this course on mobile development will also allow it to better coexist alongside other course in the graduate programs, as given the convergence of technologies on HTML5 and JavaScript it is no longer immediately apparent what the distinguishing factors between "Interactive Multimedia", "Hypermedia Production", and "Dynamic Websites" might be. Changing the name gives both students and their potential employers a better sense of the learning goals and applications.

2. Course Description Change: In the past, Hypermedia Production has served as a follow-up for students who have passed the Hypermedia Proficiency Exam or taken a first course in HTML and CSS. It was intended to cover more advanced web development skills. However, terms such as "hypermedia" and "interactive publications" are both out of date and too broad to indicate to students the skills developed. The central technology used in Hypermedia Production, AJAX, is out of date and no longer appropriate to industry needs. While the central goals of applied development and advanced information design remain pertinent, refocusing the course on the mobile web (the primary point of access to online information for many users) will both allow for a clearer skill set to be developed throughout the semester and give the course a direction for meeting the needs of students preparing for jobs in web 2.0 and beyond.
1. DATE PREPARED: April 9, 2012

2. PREPARED BY: Anastasia Salter

3. DEPARTMENT/DIVISION: School for Information Arts & Technologies

4. COURSE NUMBER(S) with SUBJECT CODE(S) IDIA 616

5. COURSE TITLE: Designing for Mobile Web

6. CREDIT HOURS: 3

7. CATALOG DESCRIPTION: IDIA 616: Designing for Mobile Web (3) Hands-on application and site development for the mobile web. Students will learn current programming languages and development environments for the latest mobile devices and work intensively on a major mobile design project. Lab fee required. prerequisite: Passing Score on Hypermedia Proficiency Exam or a grade of "B" or better in PSDS 660.

8. PREREQUISITES

None See #7

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

Elective for Interaction Design and Information Architecture program

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

NA

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

Summer 2010
12. FACULTY QUALIFIED TO TEACH COURSE:
Dr. Anastasia Salter; Dr. Bridget Blodgett, Aaron Oldenburg, Dr. Kathryn Summers

13. CONTENT OUTLINE:

Foundations of Mobile Web
- Current major platforms (iOS, Android, Windows Phone, etc)
- Native versus web-based development technologies
- Mobile interface and design challenges

Introduction to Mobile Development
- Foundations of scripting language
- Programming with chosen development tool
- Program Organization and Pseudocode

Mobile Design Patterns
- Gestures and the touch interface
- Testing and usability on mobile devices
- Constraints and opportunities of diverse screen resolutions

Advanced Mobile Development
- Menus and navigation on mobile
- Combining scripting, structure and stylesheets
- Building basic interactive elements

Solutions and Prototyping
- Analyzing large-scale mobile design challenges
- Information architecture across platforms
- From wireframe to prototype

Developing and Completing Mobile Applications
- Peer assessment of mobile projects
- Individually chosen project-based learning
- Development for real world problem solving

14. LEARNING GOALS:
By the end of this course, students should be able to:
- Explain and analyze the shifting structures of mobile interfaces
- Analyze and create design patterns for the mobile web
- Build functional applications using a mobile development tool
- Develop solutions to challenges in cross-platform development
- Design prototypes of mobile solutions to information architecture problems

15. ASSESSMENT STRATEGIES: Students will develop small projects or prototypes at every stage, and integrate their new skills to produce a functional application in the chosen mobile development tool as a final project. Projects will be assessed both for development skills and for understanding of usability and interface.

16. SUGGESTED TEXT(S) and MATERIALS (e.g. textbooks, equipment, software, etc., that students must purchase)
Dutson, Phillip. Teach Yourself jQuery Mobile in 24 Hours. Pearson 2012.

Summer 2010
17. SPECIAL GRADING OPTIONS (if applicable)
NA

18. SUGGESTED CLASS SIZE: 20

19. LAB FEES (if applicable)
$45

Summer 2010