Course Name: **Advanced User Interface Design**   
Course Prefix:  **CS**

Course Number:  **3645**  
Submission Date: **November 18, 2013**College:  **College of Applied Science and Technology**  
Department: **Network Technology and Business Multimedia**  
From Term:  **Fall 2014**

**Substantive - New Course**

**New/Revised Course Information:**

Subject: **CS**

Course Number: **3645**

Course Title: **Advanced User Interface Design**

Abbreviated Course Title (Limited to 30 characters):  **Advanced UI Design**

Course Type: **LEL - Regular class with incorporated lab**

Credit Hours: **3**

Contact Hours:

* + - Lecture: **45**
    - Lab:
    - Other:

Grading Mode: **Standard Letter**

Repeat Information:  **0**  
*(Limit=number of times course can be repeated for credit.  Leave at 0 if course cannot be repeated for additional credit).* Prerequisites/Co-requisites (also list these at the end of the course description):

This course is/will be: **a required course in a major program**

Course description (exactly as it will appear in the catalog, including prerequisites):

**Students will learn the elements of user interface design as it applies to front-end web development and software engineering. Students will identify best practices in user interface design. The following topics will be covered: wire-framing, color palettes, typography, information architecture, contrast, uniformity, and responsive design techniques. Using current technologies and tools, students will wireframe, design, and program effective interfaces. Prerequisite: NTM 2335, NTM 2532 or CS 1400, or permission from instructor.**

Justification for the new course or for changes to an existing course. (Note: Justification should emphasize academic rationale for the change or new course. This is particularly important for courses requesting upper-division status.)

**The role of a front-end web developer or software engineer is now multifaceted. Along with being able to program a software application or functional website, students must be able to create a user interface that has a consistent and effective design that will engage users. Programming jobs require the ability to create visually appealing user interfaces. With the knowledge obtained in this course, students will be able to translate wireframes and mockups into code to create compelling user interfaces. With a solid understanding of user interface best practices, students will be better prepared for industry jobs.**

INFORMATION PAGE  
for substantive proposals only

1. Did this course receive unanimous approval within the Department?  **Yes**

If not, what are the major concerns raised by the opponents?

2. If this is a new course proposal, could you achieve the desired results by revising an existing course within your department or by requiring an existing course in another department? Explain. **There is no existing course on campus that provides user interface best practices geared towards software engineers and front-end web developers.**

3. If this is a new course proposal, how will the proposed course differ from similar offerings by other departments? Comment on any subject overlap between this course and topics generally taught by other departments, even if no similar courses are currently offered by the other departments. Explain any effects that this proposal will have on program requirements or enrollments in other departments. Please forward letters (email communication is sufficient) from all departments that you have identified above stating their support or opposition to the proposed course.

**Typography, color theory, and wire-framing are presently not covered together in a semester-long course. These topics are covered at length and are the sole topic of other courses. However, many of these topics are discussed with an emphasis on their history and origin. These courses have prerequisites making it difficult for NTM/CS students to take. In NTM 3645 –Advanced User Interface, greater focus will be placed on how these principles can be used together to create an effective well-designed user interface of either a software application or website.**

4. Is this course required for certification/accreditation of a program?  **No**

5. For course proposals, attach a copy of the course syllabus to the form your are submitting to the Faculty Senate office. The syllabus should be sufficiently detailed so that committees can determine that the course is at the appropriate level and matches the description. There should be an indication of the amount and type of outside activity required in the course (projects, research papers, homework, etc.). Please mail a signed approval page to the Faculty Senate Office, MA 210J, MC 1033.