**NEW**

PROGRAM PROPOSAL

WEBER STATE UNIVERSITY

**Submission Date: December 2, 13**

**Submitter Name and Phone: Thomas Bell, 626-7299**

**College: Applied Science and Technology**

**Department**: Network Technology and Business Multimedia

**Program Title: User Experience Design for Web and Mobile Minor**

**1. Complete Program Description**

User experience is a critical component of software and web design. User-centric design has allowed software engineers and front-end web developers to create user experiences that are both more sophisticated. This minor will address usability in several courses using current tools and technologies. The courses collected in this minor will complement major course offerings.

**2. Purpose of Degree**

*Summarize why the institution should offer this degree and the expected outcomes.*

Students who complete this minor will be more employable. Many positions listed for web developers and software engineers require user interface design. User experience isn’t a new field of study, but it is an area that has, over the past 30 years, become increasingly critical as a component of design. Commercial viability and human accessibility demand better interfaces. Software tools – especially those utilizing the web – have become more sophisticated and more usable themselves. Faculty in both Computer Science and Network Technology and Business Multimedia have been involved in software and web design for years – either through instruction, consulting, corporate affiliation, and/or research. We have addressed various facets of usability in many of our courses. This minor will bring focus to these facets in a manner that will support students seeking marketable skills in user experience design.

**3. Institutional Readiness**

All courses required for this program are already included in existing programs. This degree offering will strengthen lower-division education at Weber State. No new administrative or organizational structures are required.

**4. Faculty** We do not anticipate needing additional faculty for the first years the minor is offered. However, as the enrollment in the minor increases, Dean Ferro has stated that he will hire additional faculty as needed.

**5. Staff** No additional staff will be required to offer this program.

**6. Library and Information Resources** No additional library and information resources will be required to offer this program.

**7. Admission Requirements** Admission requirements are those required for the entire University. There are no additional requirements required for this program.

**8. Student Advisement** The NTM Department has an advisor assigned to advise existing minor. This person will advise students in this major.

**9. Justification for Graduation Standards and Number of Credits**

Graduation requirements are the same as for all minors, “The term “minor” refers to a collection of related courses that are a student’s secondary field of academic concentration or specialization while completing a bachelor degree. Minors may be completed with any bachelor degree. “ (from catalog)

Grade Requirements are the same for this minor as for all other programs in the NTM Department: A grade of “C-” or better in courses required for this major in addition to an overall of 2.50 or higher for all required specific major courses and a minimum cumulative GPA for all courses of 2.00.

The number of credits varies from 21-28, depending on selection of courses.

**10. External Review and Accreditation** n/a

**11. Projected Enrollment**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Year | Student Headcount | # of Faculty | Student-to-Faculty Ratio | Accred Req’d Ratio |
| 1 | 15 | 1.5 | 10 | n/a |
| 2 | 20 | 1.5 | 13.3 | n/a |
| 3 | 30 | 2 | 15 | n/a |
| 4 | 30 | 2 | 15 | n/a |
| 5 | 30 | 2 | 15 | n/a |

This minor program will be attractive to students in both CS and NTM. Currently there are at least 35 students who have declared the current Business/Multimedia minor as part of a BIS program. Some of these students will be interested in the new minor.

**12. Expansion of Existing Program** n/a

**Need**

**13. Program Need**

CS 4830, the User Experience, is a course that has been recently offered twice. Enrollment, interest, and employer demand has increased over the past two semesters. Employers from L3, Weber State, and the LDS Church have all expressed a need for employees with UX knowledge. The Utah State Office of Education has also mentioned that User Interface design is one of the “most prized skills that industry people look for.”

**14. Labor Market Demand**

Web developer jobs are expected to increase by 30%, according to the US Bureau of Labor Statistics. The title, Web Developer, includes much of what is required of UI/UX designers/developers.

[**http://www.bls.gov/oes/current/oes151134.htm#nat**](http://www.bls.gov/oes/current/oes151134.htm#nat) **Web Developers: d**esign, create, and modify Web sites. Analyze user needs to implement Web site content, graphics, performance, and capacity. May integrate Web sites with other computer applications. May convert written, graphic, audio, and video components to compatible Web formats by using software designed to facilitate the creation of Web and multimedia content. Excludes "Multimedia Artists and Animators" (27-1014).

In the state of Utah, web developer positions have the strongest employment outlook according to the Utah Occupational Report for Web Developers. The most recent report lists an increase of 3.4% annually in employment.

**15. Student Demand**

CS 4830 has been offered twice as a seminar-type course. In the NTM Department, BIS students have been seeking a program that emphasizes front-end web development. This minor would be appropriate for those students.

**16. Similar Programs** n/a

**17. Collaboration with and Impact on Other USHE Institutions** n/a

**18. Benefits**

This minor will provide students with a skill set that is immediately marketable. This minor complements several majors on campus and could motivate students to complete their degrees in a timely manner.

**19. Consistency with Institutional Mission**

This minor is consistent with the mission of the College of Applied Science and Technology.

From Weber State catalog: *The vision of the College of Applied Science & Technology is to be the leader in the State in technology and technology related programs through service to our students and the businesses and industries in our region. The mission of the College is to serve the citizens of Northern Utah and the State of Utah by:*

* *Preparing students for employment upon graduation and ensuring that they are productive, accountable and responsible individuals able to function effectively in today’s workplace.*
* *Engaging in scholarly activities which expand the technological education our students receive and provide a service to business and industry.*
* *Utilizing the College’s resources and faculty expertise to benefit students, business, industry, education, government and society in general.*

***The College Mission Statement:*** *The primary goal of the College of Applied Science and Technology is to implement the mission of Weber State University and to prepare students for employment upon graduation by ensuring that they are productive, accountable, and responsible individuals able to function effectively in today’s workplace. This goal is achieved by developing in students a cohesive, solid theoretical foundation bolstered by practical, hands-on experiences. The learning environment is further enhanced by extensive contact between faculty and students both in and out of the classroom. In addition, the liberal education component present in all programs equips students for lifelong learning in a changing world.*

**Program and Student Assessment**

*Program assessment and performance standards information, which is required for Regents’ review, will serve as information only during University Curriculum Committee review.*

**20. Program Assessment**

The courses in this minor and the minor itself will be assessed in the annual program assessment reports measuring outcomes in the NTM Department.

**21. Expected Standards of Performance**

The standard of performance for this minor are the same as major requirements set by the NTM Department – “A grade of C- or better in courses required in addition to an overall GPA of 2.50 or higher for all required courses and a minimum cumulative GPA for all courses of 2.00.

Assessment measures will be those currently in place for the annual program assessment reports measuring outcomes for the NTM Department.

**Program Curriculum**

**22. All Program Courses**

*List all courses, including new courses, to be offered in the proposed program by prefix, number, title, and credit hours.*

|  |  |  |
| --- | --- | --- |
| **Course Prefix & Number** | **Title** | **Credit Hours** |
| NTM 2335 | Intro to User Interface Design for Web and Mobile | 3 |
| NTM 2533 **or** NTM 3535 | Image Editing SolutionsCreating Computer Illustrations | 33 |
| CS 2400 | Project Management  | 3 |
| NTM 2532 **or**CS 1400 and CS 2350 | Web Design and UsabilityFundamentals of Programming andWeb Development | 344 |
| NTM 2334 andNTM 3534 **or**CS 1410 andCS 2450 | Web AnimationAdvanced Web AnimationObject-Oriented ProgrammingSoftware Engineering | 3344 |
| NTM 3645 | Advanced User Interface Design | 3 |
|  | **Total Number of Credits** | 21-28 |

**23. New Courses to be Added in the Next Five Years**

n/a**INFORMATION PAGE**

Did this program proposal receive unanimous approval within the Department? \_\_yes\_\_ If not, what are the major concerns raised by the opponents?

Explain how this program will differ from similar offerings by other departments. Also explain any effects this proposal will have on program requirements or enrollments in other departments including the Bachelor of Integrated Studies Program. In the case of similar offerings or affected programs, **you should include letters from the departments in question stating their support or opposition to the proposed program**.

**A Master’s Degree program** must have a **minimum of 30 credit hours with a maximum of 36 credit hours**.

**A Bachelor** of Arts, Bachelor of Science, Bachelor of Fine Arts, Bachelor of Music, or Bachelor of Integrated Studies must have a **minimum of 120 credit hours with a program maximum of 126 hours** (This is a state system-wide requirement). Exceptions for the maximum number of program hours are allowed if accreditation issues require a set number of courses within a given program, i.e. Dental Hygiene, Nursing, Radiology**.**

**An Associate of Arts or an Associate of Science must have a minimum of 60 credit hours with a program maximum of 63 credit hours**. **An Associate of Applied Science must have a minimum of 63 credit hours with a program maximum of 69 credit hours.**

**Major programs that require a minor will consist of not fewer than 30 credits and not more than 48** credits in the major field. **Major programs that do not require a minor** shall consist of **not more than 63 credits in the major field.**

**A minor is a program** of study generally selected to complement and strengthen a student’s major and/or enrich the student’s overall educational program. **A minor consists of not fewer than 15 credits**. Courses that are used to satisfy the general education requirements can be used as part of the minimum number of hours needed for the minor requirements, unless prohibited by a particular college or department.

**Indicate the number of credit hours** for course work within the proposed program. (Do not include credit hours for General Education, SI, Diversity, or other courses unless those courses fulfill requirements within the proposed program.) \_\_\_21-28\_\_\_\_\_\_\_\_\_

**After the appropriate Approvals, Email the electronic file (Microsoft Word .docx) to bstockberger @weber.edu You may scan the Approval Page with the Signatures and email it, send a hard copy to MC 1033 through campus mail or bring to the Faculty Senate Office MA210J. Send all supporting documents pertaining to your proposal.APPROVAL PAGE**

For User Experience Design for Web and Mobile Minor ( Program Title)

 The WSU Library has adequate information resources to support this proposal.

\_\_\_\_\_ Currently, the WSU Library does not have adequate information resources to support this program. However, if this proposal is approved, a Library bibliographer will work closely with departmental faculty to acquire the information resources needed. Funding for the new resources will come from the Library’s budget.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ WSU Librarian/Date (Must be signed by the Library)

Approval Sequence:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Department Chair/Date (& BIS Director if applicable)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

College Curriculum Committee/Date

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Program Director or ATE Director (if applicable)/Date

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Dean of College/Date

|  |
| --- |
| Programs leading to secondary undergraduate teacher certification must be approved by the University Council on Teacher Education before being submitted to the Curriculum Committee.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ University Council on Teacher Education/Date  |

|  |
| --- |
| Master’s programs must be reviewed by the University Graduate Council **before** being submitted to the Curriculum Committee. I have read the proposal and discussed it with the program director .\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_University Graduate Council Representative/Date |

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ University Curriculum Committee/Date

Passed by Faculty Senate \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Effective Semester\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_