**PROGRAM CHANGES**

WEBER STATE UNIVERSITY

**Submission Date: December 12, 2014**

**Submitter Name: Allyson D. Saunders**

**College: College of Applied Science and Technology (COAST)**

**Department**: Network Technology and Business Multimedia

**Program Title:** Network Management Technology (BS Degree)

Check all that apply:

\_X\_\_New course(s) required for major, minor, emphasis, or concentration.

\_X\_\_Modified course(s) required for major, minor, emphasis, or concentration.

\_X\_\_Credit hour change(s) required for major, minor, emphasis, or concentration.

\_X\_\_Credit hour change(s) for a course which is required for the major, minor, emphasis, or concentration.

\_\_\_\_Attribute change(s) for any course.

\_\_\_\_Program name change.

\_X\_\_Deletion of required course(s).

\_\_\_\_Program mode of delivery/format change (Graduate Programs ONLY)

\_\_\_\_Other changes (specify) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**JUSTIFICATION:**

After discussion with advisory committee members at the fall meeting, the committee recommended changes to the Network Management Technology major including adding an additional security course taught at the senior level, aligning curriculum with Salt Lake Community College AAS degree, offering an entry-level networking course, consolidating curriculum, and adding a computational course. The changes made to this degree (BS/AAS/minor) are necessary for the following reasons:

1. *Security:* Although security is an essential element in all networking courses, a need exists for a senior-level security vulnerabilities and attack prevention course. This course (CS 4740) was taught in CS as part of their networking degree, which is no longer being offered. That course will now be part of the Network Management Technology degree. Both CS and NTM departments are under the School of Computing.
2. *Alignment:* The Linux Systems Administration course is moving to the AAS degree, which aligns with the AAS degree at Salt Lake Community College. Since NTM will be offering the Network Management Technology BS degree to SLCC students, this change works well for both institutions. NTM 3710 and NTM 3715 (formerly NTM 2710 and NTM 2730) are being moved to upper-division courses again to better align with SLCC. Both these courses (NTM 3710 and NTM 3715) have 2000 level courses as prerequisites. Also, NTM 3715 (formerly NTM 2730) will be changed to a 2-credit course with hands-on labs.
3. *Entry-level Networking Course*: NTM 2720 is being deleted and a significant portion of that course content will move to the new freshman-level course (NTM 1300.) Students need a course in the major, and the content of this course works well for that level. Consequently, to avoid confusion, NTM 2730 is being deleted; and NTM 1300 is being added.
4. *Consolidating Curriculum*: Because of new technology, the content of NTM 4700 (Data Network Design, 3 credits) and NTM 4710 (Traffic Technology & Voice Network Design, 3 credits) can be consolidated into one data and voice networking design course (NTM 4700) as a 4-credit option.
5. *Computation*: To assist students to meet the computational needs of NTM 4700, this course is being added to the curriculum. It is also required for accreditation, which is a goal of the major.

Copy the present program from the current catalog and add the required changes (exactly as you wish them to appear in the catalog). Use strikeout (~~strikeout~~) when deleting items in the program and highlight (highlight) when adding items. If multiple changes are being proposed, please provide a summary.

**Major Course Requirements for BS Degree**

*To be taken in addition to the requirements for the* [*Network Management Technology (AAS)*](http://catalog.weber.edu/preview_program.php?catoid=7&poid=2596)*.*

**Specific Major Courses Required (~~40~~  44 credit hours)**

* [~~NTM 3200 - Linux Systems Administration~~](http://catalog.weber.edu/preview_program.php?catoid=7&poid=2597&returnto=1229)**~~Credits:~~****~~(3)~~**
* [NTM 3300 - Advanced LAN Security Management](http://catalog.weber.edu/preview_program.php?catoid=7&poid=2597&returnto=1229) **Credits:** **(3)**
* [NTM 3310 - Network Server Administration](http://catalog.weber.edu/preview_program.php?catoid=7&poid=2597&returnto=1229) **Credits:** **(3)**
* [NTM 3532 - Web Development](http://catalog.weber.edu/preview_program.php?catoid=7&poid=2597&returnto=1229) **Credits:** **(3)**
* [NTM 3550 - Supervising Information Technology](http://catalog.weber.edu/preview_program.php?catoid=7&poid=2597&returnto=1229) **Credits:** **(3)**
* **NTM 3710 – Switching & Transmission Network Systems Management (3)**
* **NTM 3715 – Transmission Network Applications (2)**
* [NTM 3720 - Advanced Transport Media](http://catalog.weber.edu/preview_program.php?catoid=7&poid=2597&returnto=1229) **Credits:** **(3)**
* [NTM 3730 - Cyber Policy and Ethics](http://catalog.weber.edu/preview_program.php?catoid=7&poid=2597&returnto=1229) **Credits:** **(3)**
* [NTM 4700 - Data and Voice Network Design](http://catalog.weber.edu/preview_program.php?catoid=7&poid=2597&returnto=1229) **Credits:** **~~(3~~) (4)**
* [~~NTM 4710 - Traffic Technology & Voice Network Design~~](http://catalog.weber.edu/preview_program.php?catoid=7&poid=2597&returnto=1229)**~~Credits:~~****~~(3)~~**
* **CS 4740 – Security Vulnerabilities and Attack Prevention (4)**
* [NTM 4760 - Network/Telecommunications Internship](http://catalog.weber.edu/preview_program.php?catoid=7&poid=2597&returnto=1229) **Credits:** **(3)**
* [NTM 4790 - Network/Telecommunications Senior Project](http://catalog.weber.edu/preview_program.php?catoid=7&poid=2597&returnto=1229) **Credits:** **(2)**
* [CS 3030 - Scripting Languages](http://catalog.weber.edu/preview_program.php?catoid=7&poid=2597&returnto=1229) **Credits:** **(4)**
* [CS 3705 - Protocol Analysis](http://catalog.weber.edu/preview_program.php?catoid=7&poid=2597&returnto=1229) **Credits:** **(4)**

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.

**INFORMATION PAGE**

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

Explain any effects this program change 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**.

The Computer Science CS 4740 course will be included in the BS degree. Please see attached letter of support from Dr. Brian Rague, CS and School of Computing Department Chair.

Indicate the number of credit hoursfor course work within the program. (Do not include credit hours for General Education, Diversity, or other courses unless those courses fulfill requirements within the proposed program.)

The credit hour requirement for the BS degree is 44.

Indicate the number of credit hours for course work within the current program. (Do not include credit hours for General Education, Diversity, or other courses unless those courses fulfill requirements within the current program.) \_40\_

**Graduate Programs only**: Describe any proposed changes in the instructional mode of delivery or course format that are program-wide in nature or that affect more than one-third of the course taught in the program (e. g. changing from in-class to online instruction).