Submitted by: Michael Lapke

Date Prepared: 10/06/2015

Department/Discipline(s) and Course Number(s): College of Business / MIST 444

Course Title: Ethical Hacking

Type of change (check all applicable):
Number* X Title  X  Credits_____ Description  X  Prerequisites  X  Deletion_____ Cross list** ______
* This course number must be approved by the Office of the Registrar before the proposal is submitted.
** To cross list courses between departments/colleges, there should be two cover sheets submitted with the proposal – one by the chair of each department with signatures from the relevant College Curriculum Committee Chair.

Effective Date: FALL Semester, Year ______ Fall 2016

Current Catalog Entry
CIST 444 – Ethical Hacking and Malware Analysis (3)
Prerequisite: CIST 440 or equivalent. This course introduces students to penetration testing methods that can be used in an ethical hacking situation. Students learn in interactive environments where they scan, test, hack and secure their own systems, and gain experience with essential security systems. Topics include perimeter defenses, scanning and attacking students’ networks, escalating privileges, and steps to secure a system. Students learn about intrusion detection, policy malware, DoS and DDoS attacks, buffer overflows and virus creation.

Proposed Catalog Entry
MIST 444 – Ethical Hacking (3) Prerequisite: MIST 411 or equivalent. This course introduces students to penetration testing methods that can be used in an ethical hacking situation. Students learn in interactive environments where they scan, test, hack and secure their own systems, and gain experience with essential security systems. Topics include perimeter defenses, scanning and attacking students’ networks, escalating privileges, and steps to secure a system. Students learn about intrusion detection, policy malware, DoS and DDoS attacks, and buffer overflows. Previously taught as CIST 444. (Credit is not awarded for both MIST 444 and MMIS 544.)

JUSTIFICATION (including impact on majors, minors, concentrations, and general education courses within the University curriculum; attach additional pages if required)

The course number is being changed to keep the course number consistent with other Management Information Systems course numbers in the university (MIST). The course title has been changed, as “malware creation” is a topic that is not directly related to the core topic. That phrase was removed. The original prerequisite, CIST 440, is not being offered anymore so that was replaced with MIST 411 or equivalent. There was a minor tweak to the course description to take out “virus creation” as again, that is a topic that is not directly related to the core topic.

TRANSITION PLAN (describe how will students who are in Catalogs where the course is required for a major be accommodated; attach additional pages if required)

This course is not currently required for any major.

Approvals

Department Chair  Ken Machande  Date: October 26, 2015

College Curriculum Chair  Lance Gentry  Date: October 26, 2015

Expedited course changes are posted for a 10-class day comment period. If no comments are raised during that time, the proposal becomes final. All expedited proposals approved in this way will be noted on the UCC web site.

If comments are raised, the proposal may be reviewed by the UCC and then approved or it may be returned to the CCC for additional deliberation (as required).