

From: [Steven M Carr](#)
To: [Decker Bradley Hains](#)
Cc: [Holly Blanks](#)
Subject: Curriculum Course Request Change Course CYCS 4710 - A-2020-CS-16; effective term: 202140
Date: Monday, October 12, 2020 10:55:45 AM

Please verify your data for New Curriculum Course Request for department: CS; college: A.
Go to the following URL to complete your worklist items: <https://bwfp1.cc.wmich.edu:7102/wfbprod>

Date of request: 12-OCT-2020

Request ID: A-2020-CS-16

College: A

Department: CS

Initiator name: Jason Johnson

Initiator email: jason.e.johnson@wmich.edu

Proposed effective term: 202140

Does course need General Education approval?: N

Will course be used in teacher education?: N

If 5000 level course, prerequisites apply to: U

Proposed course data:
Change Course CYCS 4710
Specific Course Change type selected: Title

1. Existing course prefix and number:
CYCS 4710

2. Proposed course title:
Core Cybersecurity with Security+

3. Existing Banner course title:
Security+

4. Proposed course title to be entered in Banner:
Core Cybersec with Security+

A. Please choose Yes or No to indicate if this class is a Teacher Education class:
No

B. Please choose the applicable class level:
Undergraduate

C. Please respond Yes if this is a current general education course and/or a course being submitted for the new WMU Essential Studies program. Please respond No if it is neither.

No

D. Explain briefly and clearly the proposed improvement.

Change the title of CYCS 4710 from Security+ to Core Cybersecurity with Security+.

E. Rationale. Give your reason(s) for the proposed improvement. (If your proposal includes prerequisites, justify those, too.)

The title for this course is causing some confusion with other institutions and prospective students. The class is based on a core of CompTIA Security+ content but expands upon that content in significant ways. While obtaining a CompTIA Security+ certification is part of the course, it is not its entirety. A student merely obtaining a Security+ certification or taking a class covering only the CompTIA Security+ material is not sufficient to transfer as credit for CYCS 4710. Students and instructors from other institutions, particularly community colleges, are assuming that such a class or certification would mean that they would not need to take this class because of the current title. This proposed change in title will differentiate CYCS 4710 from courses at other institutions that only cover CompTIA Security+ content without the extra content we provide, raising our course to a three-credit senior-level university course.

F. List the student learning outcomes for the proposed course or the revised or proposed major, minor, or concentration. These are the outcomes that the department will use for future assessments of the course or program.

Students will be able to:

- Explain threats, attacks, and vulnerabilities.
- Discuss security technologies and tools.
- Design secure network architecture.
- Explain identity and access management.
- Discuss risk management.
- Explain cryptography and PKI.
- Perform basic vulnerability analysis.
- Recommend and justify mitigation strategies.
- Classify threats by level of severity.

G. Describe how this curriculum change is a response to student learning assessment outcomes that are part of a departmental or college assessment plan or informal assessment activities.

N/A

H. Effect on other colleges, departments or programs. If consultation with others is required, attach evidence of consultation and support. If objections have been raised, document the resolution. Demonstrate that the program you propose is not a duplication of an existing one.

No effect on other colleges, departments, or programs.

I. Effect on your department's programs. Show how the proposed change fits with other departmental offerings.

No effect. This is just a change in title to mitigate confusion on the part of potential students.

J. Effects on enrolled students: are program conflicts avoided? Will your proposal make it easier or harder for students to meet graduation requirements? Can students complete the program in a reasonable time? Show that you have considered scheduling needs and demands on students' time. If a required course will be offered during summer only, provide a rationale.

There is no change to graduation requirements.

K. Student or external market demand. What is your anticipated student audience? What evidence of student or market demand or need exists? What is the estimated enrollment? What other factors make your proposal beneficial to students?

All undergraduate Cybersecurity students take this course. The title change will not change any requirements.

L. Effects on resources. Explain how your proposal would affect department and University resources, including faculty, equipment, space, technology, and library holdings. Tell how you will staff additions to the program. If more advising will be needed, how will you provide for it? How often will course(s) be offered? What will be the

initial one-time costs and the ongoing base-funding costs for the proposed program? (Attach additional pages, as necessary.)

There is no effect on resources.

M. With the change from General Education to WMU Essential Studies, this question is no longer used.

For courses requesting approval as a WMU Essential Studies course, a syllabus identifying the student learning outcomes and an action plan for assessing the student learning outcomes must be attached in the Banner Workflow system.

Not Applicable

N. (Undergraduate proposals only) Describe, in detail, how this curriculum change affects transfer articulation for Michigan community colleges. For course changes, include detail on necessary changes to transfer articulation from Michigan community college courses. For new majors or minors, describe transfer guidelines to be developed with Michigan community colleges. For revisions to majors or minors, describe necessary revisions to Michigan community college guidelines. Department chairs should seek assistance from college advising directors or from the admissions office in completing this section.

This change will not affect articulations.

O. Current catalog copy:

This course is intended to prepare students for entry-level cybersecurity careers, and to prepare them to test for the CompTIA Security+ exam. The CompTIA Security+ exam will certify the successful candidate has the knowledge and skills required to install and configure systems to secure applications, networks, and devices; perform threat analysis and respond with appropriate mitigation techniques; participate in risk mitigation activities; and operate with an awareness of applicable policies, laws, and regulations. The successful candidate will perform these tasks to support the principles of confidentiality, integrity, and availability.

P. Proposed catalog copy:

This course is intended to prepare students for entry-level cybersecurity careers, and to prepare them to test for the CompTIA Security+ exam. The CompTIA Security+ exam will certify the successful candidate has the knowledge and skills required to install and configure systems to secure applications, networks, and devices; perform threat analysis and respond with appropriate mitigation techniques; participate in risk mitigation activities; and operate with an awareness of applicable policies, laws, and regulations. The successful candidate will perform these tasks to support the principles of confidentiality, integrity, and availability.

Department Curriculum Chair approver: Jason Johnson

Department Curriculum Chair comment:

Date: 12-OCT-2020

Department approver: Steve Carr

Chair comment:

Date: 12-OCT-2020