

CSS - 2752 - Information Assurance

04. UG Course Modification (No Special Designation)

Due Dates and Resources

If you have questions or need assistance in filling out this proposal form, you may contact the [Office of Curriculum](#).

Deadlines for curriculum can be found:

[Curriculum SharePoint Curriculum Website Procedural Calendar](#)

On your Curriculog dashboard under 'My Upcoming Events'

In order to meet the deadline, this proposal must be on the *Nonsubstantive, Substantive Colleg/School, OR Substantive University Level Review* step on or before the listed due date. Which step will depend on the changes being made.

Resources for curriculum can be found:

Originator How-To Guide
[Curriculum SharePoint](#)

This form **SHOULD** be used for the following:

Modification of a course **without** a special designation (General Studies, Service Learning, Multicultural, or Senior Experience).

This form **SHOULD NOT** be used for the following:

Modifying a course with a special designation (General Studies, Service Learning, Multicultural, or Senior Experience).
Creating a new course with or without a special designation (General Studies, Service Learning, Multicultural, or Senior Experience).
Creating or modifying a graduate course.

Directions for Form

General Instructions and Information

You may collapse individual sections of this form by clicking the arrow or "V" icon to the right of the section title.

All fields that are marked with an asterisk (*) are required.

Each section may have additional directions attached. Please follow instructions. Proposals that are incomplete or filled out incorrectly will be returned to the originator.

INSTRUCTIONS FOR MODIFYING AN EXISTING COURSE

Import the course you wish to modify.

Fill out Part I of the form.

Carefully follow the instructions on selecting the level of review your proposal requires.
Incorrect review selection will require a resubmission of the proposal.

LAUNCH the proposal.

Fill out Part II to indicate all the modifications you make to the course.

Modify any course fields in Part III as needed.

Modification Note: DO NOT MAKE CHANGES TO YOUR COURSE INFORMATION (PART III) UNTIL AFTER YOU LAUNCH THE PROPOSAL in order to track changes. Failure to use the track changes feature may cause a delay or denial of your proposal.

If you modify additional fields not already indicated in Part II, please make sure you add them to the modification list.

Approve the proposal.

Use the checkmark icon on the right of the screen to approve the proposal.

Part I: Department and Originator Information (Fill out BEFORE launching the proposal)

If you are changing course ownership, please list both departments and if applicable, both college/schools.

College/School:*

College of Health and Applied Sciences

Department:*

Name of Proposal Originator* Steve Beaty

Email of Proposal Originator* beatys@msudenver.edu

Justification and Resource Implication for Curriculum Proposal:*

We believe the existing prerequisite is not appropriate. The contents of CS1030 or CS1050 may better prepare students for this course.

Related Curriculum Proposals:*

N/A

Impact Report Results:*

Impact Report for CSS 2752

Source: 2022-2023 Undergraduate Catalog	
Prerequisite(s):	CSS 3751 - Application Security
	CSS 3752 - Computer Forensics
Programs	Computer Security Minor
	Cybersecurity Major, B.S.
Source: MSU Denver Curriculum Database	
Banner Enforced Prerequisite(s):	CSS 3751 - Application Security
	CSS 3752 - Computer Forensics
Prerequisite(s):	CSS 3751 - Application Security
	CSS 3752 - Computer Forensics

Course Modification Level Review

The modification level review question will determine the workflow of this proposal, so it is important you select the correct one. Please consult [this document](#) carefully and select your choice. If you select a level of review that does not include the changes you make to the course, this proposal will be denied and you will have to resubmit a new proposal. If you are unsure which level of review you need to select, please contact the Curriculum Staff [here](#).

Course Modification Level Review Selection:* Nonsubstantive Substantive College/School Substantive University

According to the Undergraduate Curriculum Manual, it is the responsibility of both the originator as well as each level of review to consider potential overlap and curriculum conflict. Any potential overlap or conflict with existing curriculum should be reviewed, and the impacted department(s) should be requested to provide a letter of notification or support, depending on the circumstances. Attach documentation that supports affected Departments were notified and/or provided support of the proposed changes in the Proposal Toolbox by clicking on the paperclip icon on the right side of the form.

Please Confirm That: I, the originator of this proposal, have completed the necessary due diligence to review this proposal for any potential overlap and/or conflict with existing curriculum. Any departments identified as having potential overlap and/or conflicts have been contacted and a letter of notification and/or a letter of support has been obtained.

Part II: Course Modification Information

Reminder: This form CANNOT be used to change courses with special designations (Multicultural, Service Learning, Senior Experience, General Studies). If you submit a course with special designation(s) with this form, it will be denied and you will need to resubmit.

Please select from the below list all of the course modifications you are making. Please do not make changes to fields you do not specify are being modified and make sure to list ALL fields that you modify.

Specify ALL course modifications:

Banner Enforced prerequisites, corequisites, pre/corequisites

Minimum passing grade Banner enforced prerequisites, corequisites, pre/corequisites

Prerequisites, corequisites, pre/corequisites

If the course modification includes changing prefixes, is it a new prefix? Yes No N/A

Reminder: DO NOT MAKE CHANGES TO YOUR COURSE INFORMATION (PART III) UNTIL AFTER YOU LAUNCH THE PROPOSAL in order to track changes. Failure to use the track changes feature may cause a delay or denial of your proposal.

If you modify additional fields not already indicated, please make sure you add them to the modification list.

Part III: Course Information

Prefix:*

CSS

Course Number:* 2752

Course Title:* Information Assurance

Transcript/Banner Course Title:* Information Assurance

Course Type:*

Computer Science Studies

CIP Code: 11.9999

Part III: Course Information, continued

Please check all that apply from the selections below. You may select more than one option if applicable.

- Check All that Apply:*
- Required for Major
 - Required for Minor
 - Required for Concentration
 - Required for Certificate
 - Elective
 - Specified Elective

To receive Title IV financial aid funds, all institutions of higher education must comply with the federal definition of a credit hour. The Higher Learning Commission requires institutions to maintain policies and procedures for verifying compliance with this definition.

Federal Credit Hour Definition: A credit hour is an amount of work represented in intended learning outcomes and verified by evidence of student achievement that is an institutionally-established equivalency that reasonably approximates not less than:

(1) one hour of classroom or direct faculty instruction and a minimum of two hours of out-of-class student work each week for approximately fifteen weeks for one semester or trimester hour of credit, or ten to twelve weeks for one quarter hour of credit, or the equivalent amount of work over a different amount of time; or (2) at least an equivalent amount of work as required in paragraph (1) of this definition for other activities as established by an institution, including laboratory work, internships, practica, studio work, and other academic work leading toward to the award of credit hours. 34CFR 600.2 (11/1/2010)

Credits:* 3

Distribution of Credits:* (3 + 0)

Schedule Type(s):*

Lecture

Grade Mode(s):*

Letter

Pass/Fail

Face-to-Face or Equivalent Hours per course

Consult Appendix B and C of the [Curriculum Manual](#) to determine the hours for the course

Lecture: 45

Lab:

Internship:

Practicum:

Other Hours:

Additional Student 90
Work Hours:

Please answer yes or no to the below questions. If you answer yes to any of the questions, please fill out the related field on the right.

A specified repeatable course is a course that allows a student to repeat the course either in its entirety or for a certain identified total number of credit hours. If you decide to make your course repeatable, please specify either how many times a student can repeat the course for credit, or for the total number of credits they can receive.

Is this course a specified repeatable course?*

No
 Yes

If yes, indicate specified repeatable number of credits and/or repeats allowed:

Is this course a variable topics umbrella course?*

No
 Yes

If yes, indicate variable topic number of credits and/or repeats available:

A crosslisting is when a course is made available under additional prefixes for students in other programs.

An equivalency is when two courses are coded in Banner to be equal to each other.

Generally equivalencies are used when an old, archived course is needed to be equal to a new course. Crosslistings are used for all active courses. Supporting documentation should be included to demonstrate approval for crosslistings.

Are there course equivalencies?*

No
 Yes

If yes, list all equivalent courses in alphabetical order:

Are there course crosslistings?*

No
 Yes

If yes, list all crosslistings in alphabetical order:

Registration Restrictions

Program:

Major:

Level:

Class:

Student Attribute:

The following fields will allow you to attach prerequisites, corequisites, or prerequisites or corequisites to your course. Please specify if you want and of these prerequisites, corequisites, or prerequisites or corequisites Banner enforced.

Banner enforcement means that the requirement will be enforced when the student attempts to register for a course. If you do not Banner enforce the requirement, the system will not check the student's record for the requirement to be met.

Please also indicate the minimum passing grade.

Prerequisite(s): CS 1030 OR CS 1050

Banner Enforced Prerequisite(s): CS 1030 OR CS 1050

Minimum Passing Grade for Banner Enforced Prerequisite(s): C- or T

Corequisite(s):

Banner Enforced Corequisite(s):

Prerequisite(s) or Corequisite(s):

Banner Enforced Prerequisite(s) or Corequisite(s):

Minimum Passing Grade for Banner Enforced Prerequisite(s) or Corequisite(s):

Catalog Course Description:*

This course takes a broad, practical view of security - including people, policies and procedures, and technology. While Information Assurance (IA) encompasses the various technologies, it puts them in the context of an organization's overall strategy. It applies risk management techniques to cybersecurity risks. It includes addressing data both at rest and in transit. IA looks at many aspects of an organization's functioning including its legal, regulatory, and national security aspects.

The note field DOES show up in the course listing in the university catalog. A note should be made in specific instances where additional information about a course needs to be conveyed to students. The most common reasons for adding a note are:

The course is crosslisted Example: *(Note: Credit will be granted for only one prefix.)*

Variable credit courses Example: *(Note: Variable Credit)*

A course is repeatable Example: *(Note: This course may be repeated up to 3 times under different topics)* OR *(Note: This course is repeatable for a maximum of six semester hours)*

If a student cannot take two courses and earn credit for both Example: *(Note: Students cannot earn credit for XXX1234 and XXX2345)*

Note:

Lab Fees:

Field Trips:

Part III: Course Information, continued

The following section is the course content. You must adhere to the following format for each section:

Required reading: Please list materials in preferred citation style (eg. MLA, APA, etc.).

List each material in this format. If there are multiple material please format them in a bullet or list style

Specific Measurable Student Behavioral Learning Objectives: 1, a, i, ii, etc.

Detailed Outline of Course Content or Outline of Field Experience/Internship: I, A, 1, a, etc.

Evaluation of Student Performance: 1, a, i, ii, etc.

You must use the numbering list feature within the toolbar above each field. Right click on a number in the list and select "Numbered List Properties" to change the numbering style to adhere to the above formatting requirements.

Reminder: DO NOT MAKE CHANGES TO YOUR COURSE INFORMATION (PART III) UNTIL AFTER YOU LAUNCH THE PROPOSAL in order to track changes. Failure to use the track changes feature may cause a delay or denial of your proposal.

If you modify additional fields not already indicated, please make sure you add them to the

modification list.

Required reading and other materials will be equivalent to:*

Vacca, J. R. (2013). *Computer and Information Security Handbook*, Second Edition, ISBN-13: 978-0123943972

Specific, Measurable Student Behavioral Learning Objectives:*

Upon completion of this course the student should be able to:

1. Assemble an organization's IA plan based on their specific business and environment.
2. Assess an organization's controls.
3. Audit the physical security of an installation.
4. Compose guidelines for gathering forensic evidence.
5. Evaluate national security policies and directives for applicability.
6. Organize a Public Key Infrastructure that mirrors an organization's structure.

**Detailed Outline of
Course Content
(Major Topics and
Subtopics) or Outline
of Field
Experience/Internship ***

1. Regulatory and standards compliance.
 1. Auditing.
2. Mission continuity.
 1. Physical controls.
 2. Redundancy.
 3. Disaster recovery.
 4. Response.
 5. Recovery.
3. Technical controls.
 1. Host.
 2. Network.
4. Administrative controls.
 1. Policies.
 2. Procedures.
5. Introduction to computer forensics.
 1. Types of devices.
 2. Gathering of evidence.
 3. Chain of control.
6. Enterprise security.
 1. On-site resources.
 2. Mobile resources.
 3. Remote work.
7. Clandestine channels and emissions security.
 1. Storage tracking.
 2. Network monitoring.
8. Security analysis.
 1. Use of related standards.
9. Security models and formal techniques.
10. National policies for information assurance.
 1. FIPS.
 2. FISMA.
 3. HIPAA.

11. Public Key Infrastructure.

1. Digital certificates.

1. Creation.
2. Distribution.
3. Validation.
4. Revocation.

12. Best practices.

**Evaluation of Student
Performance:***

1. Required: a midterm and final exam and four papers.
2. Optional: quizzes, participation, classwork, homework, projects.

Academic Affairs and Registrar's Office Use Only

Notes

Curriculum and Reporting Specialist added prerequisite, corequisites, and pre/corequisites and minimum grade to specify all course modifications field. Also corrected CIP code.

This course modification will be effective for the University 2023-2024 Undergraduate Catalog and will be reflected in Banner beginning in Fall 2023.

Form updated July 2022