


# Master of Science - Cybersecurity

2 Graduate Program Change 2021-22

## I. General Information

The faculty member originating this proposal is to complete sections I and II.

TURN ON help text before starting this proposal by clicking  in the top right corner of the heading. You will need to turn on help text again after any actions that refresh the page including after saving proposals, importing information, or running impact reports.

IMPORT curriculum data from the Catalog by clicking  in the top left corner.

**Do not make any changes to any information until the proposal has been launched in Step 4.**

Department (s) (if Dual or Interdisciplinary please add all departments)\*

IDGP - Cybersecurity

Degree/ Certificate Name\* Master of Science - Cybersecurity

Plan Code

Degree Type\*

Master of Science

Program Type\*

Master's

## II. Program Changes

FILL IN ONLY fields required marked with an \* after importing data. You will not be able to launch the proposal without completing required fields. Do not make proposed changes to the information that was imported until after the proposal has been launched in Step 4. Changes will only be tracked after the proposal is launched

Are you changing admission requirements?\*  Yes  No

Are you changing course requirements?\*  Yes  No

Are you changing degree completion requirements?\*  Yes  No

Are you changing the primary instructional mode?\*  Yes  No

Are you changing program learning objectives?\*  Yes  No

Are you changing the culminating experience?\*  Yes  No




If yes, describe changes to learning objectives:

**Provide a Brief Summary of Proposed Changes** Addition of a new course to the required core - CSEC 706

**Provide a rationale for each proposed change** After discussion with industry partners and advisory board, it was determined that the program needed more content, for all students, on the management and administrative/soft-skills and thus an additional course is being proposed to fill this identified gap.

**Do not make any changes to any information until the proposal has been launched in Step 4.**

Follow these steps to change the program curriculum:

1. Click on  "View Curriculum Schema." Edit existing cores or click 'Add Core' and name your core (please use a comparable degree program in the current graduate catalog as a template). Edit or add any descriptive text (do not add courses until Step 2). Descriptive text is generally used in the following cores: Plan Description, Plan Admission Requirements, Plan Requirements, Plan Graduation Requirements.
2. There are two options for adding courses (see Step 3 to remove courses): "Add Course" and "Import Course." For courses already in the catalog, click on "Import Course" and find the courses needed. For new classes going through a Curriculog Approval Process click on "Add Course"-- a box will open asking you for the Prefix, Course Number and Course Title.
3. Click on  "View Curriculum Schema." Click on the area/header of the program where you would like to add courses. When you click on "Add Courses" it will bring up the list of courses available from Step 2. Select the courses you wish to add. For removing courses click on the  and proceed.

After you have launched proposal, update prospective curriculum here\*

## Plan Description

Currently, there is a demand at the local, state, region and national level for individuals to be trained in the knowledge of computers, networks, and risk and security management. Students will be trained in technical and managerial aspects of cybersecurity. For more information about your program, including your graduate program handbook and learning outcomes, please visit the Degree Directory.

## Plan Admission Requirements

Application deadlines Applications available on the UNLV Graduate College website. Undergraduate degree in a technology program (i.e., CS, IS, Security, Engineering, etc.) Applicants with satisfactory scores on the general aptitude portion (50th percentile or higher) of the Graduate Record Examination (GRE) will be considered for admission. Official transcript of all university-level education Two letters of recommendation concerning the potential for success in the graduate program Statement of purpose explaining interest in the program Minimum GPA and further requirements for all domestic and international applicants available at the Graduate College Admission and Registration Requirements page (LINK) Individuals with deficiencies in their undergraduate background may be required to enroll in selected additional courses to satisfy the M.S. degree requirements. Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

## Plan Requirements

Total Credits Required: 30

## Course Requirements

## Required Courses – Credits: 21

CSEC 700 Security Operations	3
CSEC 701 Secure Communication Protocols	3
CSEC 702 Security Data Analytics	3
CSEC 703 Cyber Physical Systems Security	3
CSEC 704 Human Factors in Cybersecurity	3
CSEC 705 Enterprise Security Administration	3
[Before]CSEC 706	3

## Elective Courses – Credits: 6

Complete 6 credits of advisor-approved electives, 3 of which must come from a CSEC course.

CSEC 721 Modern Cryptography	3
CSEC 722 Trusted Software Systems	3
CSEC 723 Cybercrime and Cyberterrorism	3
CSEC 724 IT Forensics and Incident Response	3
[After] CSEC 731 Cybersecurity in the Hospitality Industry CSEC 732 Cybersecurity in the Healthcare Industry CSEC 733 Cybersecurity in the Financial Industry CSEC 750 Special Topics CSEC 755 Independent Study	
CSEC 735 Information Warfare	3
CSEC 780 Internship	1-3

## Capstone Course - Credits: 3

CSEC 790 Cybersecurity Capstone	3
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## Degree Requirements

Overall GPA of 3.00 Successful completion of culminating experience (i.e., CSEC 790 Capstone course)  
Complete all required courses with a grade of B or higher

## Plan Graduation Requirements

The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.

The [Degrees Directory](#) provides current and consistent degree information. Submission of this form indicates acknowledgment and understanding that every department is responsible creating and maintaining accurate and updated program information on the UNLV Degrees Directory.

If the changes included on this form impact the program handbook attach the updated handbook before submitting this form. If you need a Word version of the most recent handbook please email [GradCurriculum@unlv.edu](mailto:GradCurriculum@unlv.edu).

If new courses are added as placeholders within this proposal, new courses must be created using a Course Create form simultaneously to the process of this proposal.

**Degrees Directory Program Entry\***  Check this box to acknowledge the above statement.

**Changes will be applicable to\***


- Current Students
- New Students
- Both Current and New Students

**If applicable to current students, changes are**  Mandatory  Optional

**Effective Date\***

4. LAUNCH proposal by clicking  in the top left corner.

5. After launching the proposal, make all changes and fill in all additional fields.

6. Finish the launch of your proposal by clicking the icon  located in the Proposal Toolbox on left side at top. Make your decision, comment is optional, and click on "Make decision".

You can check the status of the proposal by clicking  in Proposal Toolbox to verify that the proposal has gone to the next step.


### III. Department Vote Information

**Note:** This section is to be filled out by the Department Chair on behalf of the committee.

(The role has been assigned to the corresponding person on this step. If incorrect, please notify [GradCurriculum@unlv.edu](mailto:GradCurriculum@unlv.edu))

1. Review the proposal. Discuss and make appropriate revisions.

2. Fill in vote information.

3. Then go to the proposal toolbox at the top right side. Click on  and select the corresponding decision for the committee. This will enable the proposal to go to the next person on the workflow.

You can check the status of the proposal by clicking  in Proposal Toolbox to verify that the proposal has gone to the next step.

**If Dual or Interdisciplinary:** add votes from all departments/colleges involved

(e.g. "Dpt A: .... / Dpt. B ....")

**Date faculty voted on proposal** Oct 20, 2020


**Result of vote** 6 yes, 0 no, 0 abstention

**Manner of vote** Email

## IV. Unit Vote Information

Note: This section is to be filled out by the College Committee Chair on behalf of the committee.

(The role has been assigned to the corresponding person on this step. If incorrect, please notify [GradCurriculum@unlv.edu](mailto:GradCurriculum@unlv.edu))

1. Review the proposal. Discuss and make appropriate revisions.
2. Fill in vote information.
3. Then go to the proposal toolbox at the top right side. Click on  and select the corresponding decision for the committee. This will enable the proposal to go to the next person on the workflow.

You can check the status of the proposal by clicking  in Proposal Toolbox to verify that the proposal has gone to the next step.

If Dual or Interdisciplinary: add votes from all departments/colleges involved

(e.g. "College A: .... / College B ....")

**Date faculty voted on proposal** 10/26/2020

**Result of vote** 2 yes, 0 no, 0 abstentions

**Manner of vote** email-Engineering & Business

## V. Processing Notes (Graduate College/Registrar Use Only)

**Program Alerts (E.g. This program is no longer accepting applications)**

**PS Processing Notes**

**PS Processing Date**

**Initials**



**Aalog Processing Notes**

**Aalog Processing Date**

**Initials**

## Comments for Master of Science - Cybersecurity

### Curriculog

11/3/2020 3:15 pm [Reply](#)

Emily Lin has approved this proposal on Graduate College Dean.

### Curriculog

11/3/2020 2:59 pm [Reply](#)

Graduate Curriculum has approved this proposal on Graduate Programs Committee.

### Curriculog

11/3/2020 2:25 pm [Reply](#)

Gregory Moody has approved this proposal on behalf of Graduate Programs Committee. See [Graduate Programs Committee Agenda - Nov 3, 2020](#) for more information.

### Curriculog

10/26/2020 11:58 am [Reply](#)

Emily Lin has approved this proposal on School/College Associate Dean/ Dean.

### Curriculog

10/26/2020 11:57 am [Reply](#)

Emily Lin has approved this proposal on School/College Committee.

### Curriculog

10/26/2020 11:45 am [Reply](#)

Chin-Chun Hsu has approved this proposal on School/College Committee.

### Curriculog

10/26/2020 10:24 am [Reply](#)

Mohamed Trabia has approved this proposal on School/College Committee.

### Curriculog

10/26/2020 9:37 am [Reply](#)

Svstem Administrator Graduate Curriculum has restarted the School/College

Committee step as a result of participants being added to or removed from the step.

**Curriculog**

10/26/2020 9:37 am [Reply](#)

System Administrator Graduate Curriculum has restarted the School/College Committee step as a result of participants being added to or removed from the step.

**Curriculog**

10/23/2020 9:03 am [Reply](#)

Mohamed Trabia was added to the IDGP Cybersecurity Graduate College/School curriculum committee role.

**Curriculog**

10/23/2020 9:00 am [Reply](#)

Chin-Chun Hsu was added to the IDGP Cybersecurity Graduate College/School curriculum committee role.

**Curriculog**

10/20/2020 12:32 pm [Reply](#)

Gregory Moody has approved this proposal on Department Chair.

**Curriculog**

10/20/2020 12:32 pm [Reply](#)

Gregory Moody has approved this proposal on Graduate Coordinator.

**Curriculog**

10/15/2020 10:43 am [Reply](#)

Graduate Curriculum has approved this proposal on Technical Review.

**Curriculog**

10/6/2020 12:35 pm [Reply](#)

Gregory Moody has approved this proposal on Originator.

**Curriculog**

10/5/2020 8:40 pm [Reply](#)

Gregory Moody has launched this proposal.

## Curriculog

10/5/2020 4:18 pm [Reply](#)

**Gregory Moody imported from the map 2021-2022 Working Graduate Catalog into the following proposal fields: I. General Information: Degree/ Certificate Name, I. General Information: Degree Type, I. General Information: Program Type, II. Program Changes: After you have launched proposal, update prospective curriculum here.**