

CSEC - 721 - Modern Cryptography

2 Graduate Course Create 2020-21

I. Course Information

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

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.

FILL IN ONLY fields required marked with an *. You will not be able to launch the proposal without completing the required fields.

Department*

IDGP - Cybersecurity

Prefix:*

CSEC

Number:* 721

Is a new Prefix being suggested? Yes No

Suggested Prefix CSEC

Long Course Name:* Modern Cryptography

Short Course Name* Cryptography

Tip: 25 characters max. for short name (abbreviations are acceptable if needed)

Tips

avoid the use of the words *student*, *course*, and *covers*
incomplete sentences are ok
avoid repeating the course title
(50 words max)

Catalog Description*

Explores core principles of modern cryptography. Focus on private-key cryptography, extensive treatment of private-key encryption, message authentication codes, and hash functions, including: RC4, DES, and AES. Investigation of provable constructions of stream ciphers and block ciphers from lower-level primitives, public-key cryptography, basic number theory, and major standardized public-key encryption schemes.

First Term Course Offered*

Spring 2021

Explanation for Course Create*

Required to offer the new MS Cybersecurity program

Note: the multiple modes of study selected refer to potential different/independent versions of this course.

Are you adding a Service-Learning designation to this course?*

Yes No

If the Service-Learning designation is being added to this course:

A syllabus in Word or PDF format must accompany this form.

Graduate syllabi must meet the minimum criteria as required by the Provost's office (See Semester Memo under Executive Vice President and Provost Policies and Forms www.unlv.edu/policies). Graduate courses that are linked to undergraduate courses (300/500 and 400/600 level joint courses) must clearly state in the syllabus how the class experience and expectations are different for graduate students, what additional requirements students enrolled in the graduate level course must fulfill, and how the grading scale will be applied to graduate students.

Please attach a current syllabus by navigating to the Proposal Toolbox and clicking  in the top right corner.

Information about Service-Learning is available [here](#). Faculty can visit the [faculty Service-Learning page](#) as well as the [UNLV Guide for Service Learning](#) for additional information.

If adding Service-Learning designation, syllabus is attached

Attached

II. Catalog Information**Will this be an experimental (x) course?***

Yes No

Has this course number been used

Yes No

previously as an
Experimental (X)
course?

If yes, X-Course
Prefix

X-Course Code

Program(s)
impacted by this
new course* MS Cybersecurity

Tip (note): A Program Change form will need to be submitted to add the new course into a program.

Detail the changes
to the program
catalog entry
required due to the
creation of this
course.* This is being proposed in conjunction with the new degree proposal

Fixed/Variable
Credits* Fixed Variable

If fixed, enter number of credits. If variable, enter minimum and maximum credits (E.g., 1-3)

Number of Credits 3

Course is
Repeatable* Yes
 No

If yes, the
maximum number
of credits that may
be earned is

Grading System* Letter Grade
 Thesis/Dissertation

Is this a Special
Topics course?* Yes No

Sub-topic(s)

Are topics
repeatable? Yes No

If yes, number of
credits

Prerequisites Admission into MS Cybersecurity program or by consent of the Cybersecurity Director.

Corequisites

Does this course
have any non-credit Yes No

components?

If yes, indicate component(s)

- Clinical
- Discussion
- Field Studies
- Independent Study
- Internship
- Laboratory
- Lecture
- Practicum
- Research
- Seminar
- Supervision
- Thesis Research

Will this course be listed as the 'same as' another course?*

- Yes No

If yes, list the course

Indicate the instructional modes that should be available for scheduling*

- In Person Supplemental Web
- Field Study
- Hybrid
- Independent Study
- Television
- Web-based
- Web-based w/ on/off campus meeting

III. Evaluation of Library Resources

A. This section is completed by the faculty member originating this proposal—indicate library resources that will be needed to support this course

Will this course creation require changes to library resources?*

- Yes No

Please indicate library resources that will be needed to support students taking this course*

- Core journals
- Core books (not required texts)
- Electronic resources (e.g., databases, videos, media, etc.)


Critically needed journals for this subject area: Core journals are covered by MIS and CS journals

Core books needed:

Electronic Resources:

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

4. 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.

B. This section is completed by the librarian.

Level of support the Library can provide

Library Comments

IV. Syllabus

A syllabus in Word or PDF format must accompany this form.

Graduate syllabi must meet the minimum criteria as required by the Provost's office (See Semester Memo under Executive Vice President and Provost Policies and Forms www.unlv.edu/policies). Graduate courses that are linked to undergraduate courses (300/500 and 400/600 level joint courses) must clearly state in the syllabus how the class experience and expectations are different for graduate students, what additional requirements students enrolled in the graduate level course must fulfill, and how the grading scale will be applied to graduate students.

Attachments List


Please attach any required files by navigating to the Proposal Toolbox and clicking  in the top right corner.

Attached syllabus* Attached

V. 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)

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.

Date faculty voted on proposal April 8, 2020


Result of vote (Number of yes/no/abstention votes) 6/0/0

Manner of vote (online, in-person, etc.) Email

VI. 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)

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.

Date faculty voted on proposal 4/9/2020

Result of vote (Number of 2-0-0 Approval- Engineering and Business

yes/no/abstention
votes)

Manner of vote online
(online, in-person,
etc.)

VIII. Processing Notes (Graduate College/Registrar Use Only)

PS Processing Notes

PS Processing Date

Initials

Aalog Processing
Notes

Aalog Processing
Date

Initials

Comments for CSEC - 721 - Modern Cryptography

Curriculog	5/13/2020 2:31 pm Reply
Emily Lin has approved this proposal on Graduate College Dean.	
Curriculog	5/11/2020 11:56 am Reply
Graduate Curriculum has approved this proposal on Graduate Course Review Committee.	
Curriculog	5/11/2020 8:27 am Reply
James Navalta has approved this proposal on behalf of Graduate Course Review Committee. See Graduate Course Review Committee 05-06-2020 for more information.	
Curriculog	4/9/2020 2:06 pm Reply
Emily Lin has approved this proposal on School/College Associate Dean for Graduate Studies/ Dean.	
Curriculog	4/9/2020 2:06 pm Reply
Emily Lin has approved this proposal on School/College Committee.	
Curriculog	4/8/2020 5:16 pm Reply
Gregory Moody has approved this proposal on Department Chair.	
Curriculog	4/8/2020 5:16 pm Reply
Gregory Moody has approved this proposal on Graduate Coordinator.	
Curriculog	3/29/2020 0:08 am Reply
This proposal has passed its deadline and has been approved.	
Curriculog	3/25/2020 10:25 am Reply
Graduate Curriculum has approved this proposal on Technical Review.	
Curriculog	3/24/2020 6:17 pm Reply
Gregory Moody has approved this proposal on Originator.	

Gregory Moody

3/24/2020 6:17 pm [Reply](#)

same as others.

Curriculog

3/24/2020 6:17 pm [Reply](#)

Gregory Moody has relaunched this proposal.

Graduate Curriculum

3/12/2020 10:30 am [Reply](#)

- Please review suggestive revised description. If satisfactory, no action needs to be taken, simply approve the proposal once again (after all points resolved). Otherwise please re-edit and approve with comments.

- Please include updated minimum provost requirements to syllabus (attached)

- Please review mode of instruction to select only the mode that will effectively be employed. (if independent versions of the course are planned, please add this information into the explanation field)

For help and assistance please contact gradcurriculum@unlv.edu

Curriculog

3/12/2020 10:30 am [Reply](#)

Graduate Curriculum has rejected this proposal on Technical Review.

Curriculog

3/9/2020 5:07 pm [Reply](#)

Gregory Moody has approved this proposal on Originator.

Curriculog

2/3/2020 12:16 pm [Reply](#)

Gregory Moody has launched this proposal.