

CS - 722 - Advanced Machine Learning

2 Graduate Course Create 2021-22

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*

Computer Science

Prefix:*

CS

Number:* 722

Is a new Prefix being suggested? Yes No

Suggested Prefix

Long Course Name:* Advanced Machine Learning

Short Course Name* Advanced Machine Learning

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 the theoretical frameworks of advanced machine learning algorithms and techniques based on a probabilistic approach with a focus on the derivation, implementation, and evaluation of such models

implementation, and evaluation of such models.

First Term Course Offered*

Spring 2021

Explanation for Course Create*

This is an advanced level machine learning course that will be offered to students who complete the introductory machine learning course (CS622).

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 previously as an Experimental (X) course?

Yes No

If yes, X-Course Prefix

X-Course Code

Program(s) impacted by this new course*

Master of Science in Computer Science

Doctor of Philosophy in Computer Science

Substantive changes will necessitate a Program Change form be submitted.

Detail the changes to the program catalog entry required due to the creation of this course.*

This course will be available as an elective for Computer Science MSc and PhD students, but it doesn't require a specific change to the catalog entries of Master of Science in Computer Science or Doctor of Philosophy in Computer Science programs.

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
 S/U
 S/F
 Thesis/Dissertation

Is this a Special Topics course?*

Yes No

Sub-topic(s)

Are topics repeatable?

Yes No

If yes, number of credits

Prerequisites

B grade or above on CS 489 or CS 689 - topic: intro to machine learning

Corequisites

Does this course have any non-credit components?

Yes No

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
- In Person
- 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 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 November 14, 2019


Result of vote (Number of yes/no/abstention votes) 14/0/1

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

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 6/30/2020

Result of vote (Number of 3/0/0

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 CS - 722 - Advanced Machine Learning

Curriculog	9/11/2020 3:56 pm Reply
Graduate Curriculum has approved this proposal on Graduate Course Review Committee.	
Curriculog	9/9/2020 1:54 pm Reply
James Navalta has approved this proposal on behalf of Graduate Course Review Committee. See Graduate Course Review Committee 09-09-2020 for more information.	
Ruth Garay	8/26/2020 10:24 am Reply
first term offered needs to be updated. Will there be a minimum grade earned required for the prerequisites?	
Curriculog	7/13/2020 8:52 am Reply
Mohamed Trabia has approved this proposal on School/College Associate Dean for Graduate Studies/ Dean.	
Melissa Morris	7/7/2020 7:19 am Reply
unanimously approved by they college committee	
Curriculog	7/7/2020 7:19 am Reply
Melissa Morris has approved this proposal on School/College Committee.	
Curriculog	6/24/2020 4:30 pm Reply
CS Chair has approved this proposal on Department Chair.	
Curriculog	6/17/2020 11:03 am Reply
Computer Science Graduate Coordinator has approved this proposal on Graduate Coordinator.	
Curriculog	6/10/2020 8:50 am Reply
Graduate Curriculum has approved this proposal on Technical Review.	
Curriculog	6/9/2020 10:00 pm Reply
Fatma Nasoz has approved this proposal on Originator.	

Curriculog

6/9/2020 9:58 pm [Reply](#)

Fatma Nasoz has approved this proposal on Originator.

Graduate Curriculum

6/8/2020 9:41 am [2 Replies](#) | [Reply](#)

- Please attach syllabus. Please include provost minimum syllabus requirements.
- Please adjust description for higher objectivity. e.g. " The main objective of this course is to teach the theoretical frameworks" can be "Explores theoretical frameworks..."

for assistance please contact gradcurriculum@unlv.edu

Fatma Nasoz

6/9/2020 9:26 pm

I had attached the syllabus. I'll do it again.

Fatma Nasoz

6/9/2020 9:58 pm

It looks like the system's "Upload File" functionality has a glitch when using with Chrome. It allows for choosing the file, but clicking the "Upload" button does nothing. That's what must have happened last time. I was finally able to upload it with Firefox.

Curriculog

6/8/2020 9:41 am [Reply](#)

Graduate Curriculum has rejected this proposal on Technical Review.

Fatma Nasoz

6/4/2020 9:28 pm [Reply](#)

Approve

Curriculog

6/4/2020 9:28 pm [Reply](#)

Fatma Nasoz has approved this proposal on Originator.

Curriculog

6/4/2020 9:16 pm [Reply](#)

Fatma Nasoz has launched this proposal.