

CS - 622 - Introduction to 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:* 622

Is a new Prefix being suggested? Yes No

Suggested Prefix

Long Course Name:* Introduction to Machine Learning

Short Course Name* Intro Machine Learning

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 various machine learning algorithms for regression, classification, clustering and ensemble learning, including application of machine learning techniques to solve challenging problems in various fields. Crosslisted with CS 422.

First Term Course Offered*

Fall 2021

Explanation for Course Create*

The course "Foundations of Machine Learning", a core course of Artificial Intelligence (AI), will introduce current edge of machine learning techniques to undergraduate students. The course number "CS622" is aligned with UNR.

The cross listing between CS422 and CS622 enables seniors and first year's graduate students to learn machine learning. CS422 and CS622 will have different grading policy for evaluation.

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*

Computer Science

Potentially, other science and engineering programs for interdisciplinary studies

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.*

None

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
 Thesis/Dissertation

Is this a Special Topics course?*

Yes No

Sub-topic(s)

Are topics repeatable?

Yes No

If yes, number of credits

Prerequisites

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
 - 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 3/25/2021


Result of vote (Number of yes/no/abstention votes) 10/0/4

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

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 12/18/2020

Result of vote 4/0/0
(Number of
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 04/12/2021

Initials EJ

Aalog Processing Notes

**Aalog Processing
Date** 04/12/2021

Initials EJ

Comments for CS - 622 - Introduction to Machine Learning

Curriculog	4/12/2021 10:33 am Reply
This proposal has been completed.	
Curriculog	4/12/2021 10:33 am Reply
REG Curriculum has approved this proposal on Implementation: Catalog and PeopleSoft.	
Curriculog	4/5/2021 8:26 am Reply
Emily Lin has approved this proposal on Graduate College Dean.	
Curriculog	4/2/2021 10:34 am Reply
James Navalta has approved this proposal on behalf of Graduate Course Review Committee. See Graduate Course Review Committee 3-24-2021 for more information.	
Graduate Curriculum	4/2/2021 8:54 am Reply
Name changed back to "introduction" exceptionally - not a UNLV catalog standard going forward - graduate courses would ideally not be labelled as introductions.	
Curriculog	4/2/2021 8:48 am Reply
Graduate Curriculum has approved this proposal on Graduate Course Review Committee.	
Curriculog	12/18/2020 9:11 pm Reply
Mohamed Trabia has approved this proposal on School/College Associate Dean for Graduate Studies/ Dean.	
Melissa Morris	12/18/2020 2:36 pm Reply
Unanimously approve by College Curriculum Committee	
Curriculog	12/18/2020 2:36 pm Reply
Melissa Morris has approved this proposal on School/College Committee.	
Curriculog	12/7/2020 5:26 pm Reply
CS Chair has approved this proposal on Department Chair.	

Curriculog

12/5/2020 12:04 pm [Reply](#)

Computer Science Graduate Coordinator has approved this proposal on Graduate Coordinator.

Curriculog

12/1/2020 2:19 pm [Reply](#)

Graduate Curriculum has approved this proposal on Technical Review.

MINGON KANG

11/25/2020 9:23 am [Reply](#)

- I clarified the different grading policy in the syllabus:

For CS 622, graduate students will be given extra tasks:

- extra presentation in the class,
- individual project rather than group projects given to undergraduate students for CS 422,
- additional task on homework assignments,
- additional exam questions.

- I added about cross list between CS622 and CS422 in "Explanation for Course Create"

Curriculog

11/25/2020 9:23 am [Reply](#)

MINGON KANG has approved this proposal on Originator.

Graduate Curriculum

10/27/2020 9:15 am [Reply](#)

- Please highlight in syllabus the differences between the undergraduate and graduate components of the crosslisted course (e.g. assignments, grading, expectations).

- Please add details about the crosslisting into the "explanation for course create" field.

Curriculog

10/27/2020 9:15 am [Reply](#)

Graduate Curriculum has rejected this proposal on Technical Review.

MINGON KANG

10/22/2020 3:32 pm [Reply](#)

The topics are modified to align with UNR's CS622. Its 622 was approved a few months ago but there is no relationship between its 622 and cs 622.

Curriculog

10/22/2020 3:32 pm [Reply](#)

MINGON KANG has approved this proposal on Originator.

Ruth Garay

9/17/2020 10:01 am [Reply](#)

CS 422 points as being crosslisted with CS 622 - Intro to Machine Learning however, I don't see it on this proposal as being cross-listed to CS 422

don't see it on this proposal as being cross listed to CS 422.

Ruth Garay

9/17/2020 9:28 am [1 Reply](#) | [Reply](#)

CS 622 - Programming for Data Analytics II is still active in PS. I see the ITE 622 - Programming for Data Analytics II course create became effective Fall 2020. This proposal cannot be approved without another proposal to delete CS 622 - Programming for Data Analytics II.

Ruth Garay

9/17/2020 4:37 pm

Please disregard this message. I was able to identify there is no error in PS. No deletion proposal required.

Graduate Curriculum

9/1/2020 9:35 am [Reply](#)

- please also remove terms "students will learn" -
- please see suggestive description below.

Graduate Curriculum

9/1/2020 9:34 am [Reply](#)

- Please adjust description for higher objectivity. e.g. " Explores various machine learning algorithms for regression, classification, clustering and ensemble learning, including application of machine learning techniques to solve challenging problems in various fields."

- One suggestion is to simply remove the terms "this course covers" and use the suggestive description above.

for assistance please contact gradcurriculum@unlv.edu

Curriculog

9/1/2020 9:34 am [Reply](#)

Graduate Curriculum has rejected this proposal on Technical Review.

Curriculog

8/31/2020 2:54 pm [Reply](#)

MINGON KANG has approved this proposal on Originator.

Graduate Curriculum

8/24/2020 11:34 am [Reply](#)

Note: on description, please avoid terms such as "this course," and "students" - following course description guidelines.

Graduate Curriculum

8/24/2020 11:30 am [Reply](#)

- Please adjust description for higher objectivity. e.g. " Explores various machine learning algorithms for regression, classification, clustering and ensemble learning, including application of machine learning techniques to solve challenging problems in various fields."

for assistance please contact gradcurriculum@unlv.edu

Curriculog

8/24/2020 11:30 am [Reply](#)

Graduate Curriculum has rejected this proposal on Technical Review.

Curriculog

8/19/2020 12:11 pm [Reply](#)

MINGON KANG has approved this proposal on Originator.

Graduate Curriculum

6/10/2020 8:38 am [Reply](#)

- Please adjust description for higher objectivity. e.g. " Explores various machine learning algorithms for regression, classification, clustering and ensemble learning, including application of machine learning techniques to solve challenging problems in various fields."

for assistance please contact gradcurriculum@unlv.edu

Curriculog

6/10/2020 8:38 am [Reply](#)

Graduate Curriculum has rejected this proposal on Technical Review.

Curriculog

6/9/2020 10:33 am [Reply](#)

MINGON KANG has approved this proposal on Originator.

Curriculog

6/9/2020 10:32 am [Reply](#)

MINGON KANG has launched this proposal.