

# CS - 772 - Software Architecture

## 2 Graduate Course Change 2022-23

### I. General Information

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

Before starting this form, please review graduate curriculum website on policies and processes: <https://www.unlv.edu/graduatecollege/curriculum>

Click "**validate and launch proposal**" **button below.** Once the pop-up window comes up and displays an error message, click on the "show me" button (on the pop-up). This will highlight in red the required fields of this form. Fill in **ONLY** the red (required) fields.

With all red fields completed, click on the "**validate and launch proposal**" **button** again to launch the proposal. The pop-up this time should not display an error, and will display instead a "**launch proposal**" **button.** Click on the "**launch proposal**" **button** to launch.

**After launch, please fill in all remaining fields in the form to reflect your intended changes.**

Department:\*

Computer Science

Current Prefix:\*

CS

Current Number:\* 772

Long Course Name:\* Software Architecture

New Long Course Name (if name change): Empirical Software Engineering

Short Course Name 25 chars. limit (leave blank if not changing course name): Empirical SW Engineering

- Summary of Proposed Changes (please check boxes for each change):\***
- Prefix
  - Course Number
  - Name
  - Description
  - Credits/Grading
  - PreReqs/CoReqs
  - Instructional Mode
  - Cross-listing / Combination
  - Other changes (e.g. Service Learning, Fees, ...)

**Describe the changes and the rationale for each change:\*** Update course to better reflect more current software engineering techniques. Includes title and description. Clarify prerequisites to drop unrelated courses.

**Effective Term and Year:\***

## Changing the Catalog Description:

- avoid the use of the words *student*, *course*, and *covers*.
- incomplete sentences are ok.
- avoid repeating the course title.
- use of an active voice, e.g. explores, investigates,...
- 50 words limit.

**Catalog Description 50 words limit (read guidelines above):\*** Survey of modern empirical and data science methods used in the field of software engineering, including repository mining, statistical procedures for analyzing experimental data, and the design of empirical studies.

**Is this course a culminating experience?\***  Yes  No

**If Yes, to which programs?**

## IMPACT REPORT

- Run an Impact Report** by clicking on "run impact report" at the top of this form.
- Copy & Paste** the entire impact report into the box below.
- Please comment on the results of the impact report in the comments box below.

**Impact Report (copy and paste here):\***

# Impact Report for CS 772

There are no results for this report.

**Comments on Impact Report (or add "no impact" if applicable):\*** No impact

## Program Changes Needed?

If program changes are needed as a result of this course change, **a separate program change proposal must be submitted.**

Please describe below your plan for program changes related to this proposal.

QUESTIONS? contact [gradcurriculum@unlv.edu](mailto:gradcurriculum@unlv.edu)

**Please describe your plan for program changes, if any, as a result of this proposed course change:\*** No program changes needed.

## CROSS-LISTING OR COMBINING COURSES

300- or 400-level courses may be cross-listed with 500-level courses; 400-level courses may also be cross-listed to 600-level courses. Courses that are at the 700 level and above may not be cross-listed with undergraduate courses.

- Select one of the options:\***
- Same As= e.g. Undergraduate: same content and same career (UG/UG). Graduate: Same/similar course content and same career (Grad/Grad)
  - Cross-listing= Cross-listed courses contain the same or similar content and may be in different programs (e.g. WMST 621 & SOC 621) or different careers (e.g. BIOL 467 & BIOL 667 or PSC 722 & PHIL 728)
  - Not Cross-Listed or Same As  Not changing crosslisting

**List cross-listing courses (or type "none" or "no changes"):**\* none

## CROSS-LISTING RATIONALE

Please answer the following questions in the "rationale" field below:

What aspect of graduate preparation is met via this course that goes beyond the undergraduate program?

What common aspects are offered in the cross-listings and what grad level pieces are not?

What would be beneficial in offering the cross-listed courses from a graduate education perspective?

**Cross-listing or Combining Rationale:** N/A

## Service Learning Designation

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

Yes  No

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

An accessible 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 <https://www.unlv.edu/policies/current-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 accessible syllabus by navigating to the “attach a file” icon at the right of this form.

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, an accessible syllabus is attached:

Attached

## II. Course Change Information

### Prefix and Number Change

Current Prefix and/or Number: CS 772

New Prefix and/or Number: CS 772

### Credit change

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 Repeatability

Can students repeat this course?  Yes  No

If yes, insert maximum credits students can earn (blank=unlimited):

## Grading Change

Grading System:  Letter Grade  
 S/U  
 S/F (will count towards GPA)  
 S/X/F for Thesis/Dissertation

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
- Dissertation Research

## Requisite Change (if any)

Graduate standing is the default prerequisite for all graduate-level courses.

Prerequisites: Consent of Instructor

The passing grade for prerequisite courses is assumed as B- unless stated otherwise. Please indicate a different passing grade for this course prerequisites if applicable:

Corequisites - course(s) that must be taken N/A

**concurrently:**

**Is this course change connected to differential fees?\***  Yes  No

**If yes, explain:**

**Indicate the instructional modes that should be available for scheduling:**  In Person Supplemental Web  Field Study  Hybrid  Independent Study  Web-based  Web-based w/ on/off campus meeting  Other

**If other instructional mode, please describe and explain:**

### **"Notes" information**

Previous catalogs offered a field called "notes" with some course information. This "notes" section is being eliminated. Any information in that section will not be displayed in future catalogs.

**Notes:**

**Acknowledgement:\***  I acknowledge that notes will not appear in the new catalog

## **III. Evaluation of Library Resources**

Indicate library resources that will be needed as a result of changes to this course (if applicable).

**Will this course change require changes to library resources?\***  Yes  No

**Core Journals:**

**Core Books:**

**Electronic Resources:**



**\*This section is completed by the librarian\***


**Level of support the Library can provide:**

**Library Comments:**

## READY TO SUBMIT?

After making all your intended changes, please follow these steps:

1. Finish the launch of your proposal by clicking the decisions icon  located to the right of the form. This will display a new decision/approval field on the top right.
2. Click on "approve", add an optional comment if necessary, and then click on the "Make My Decision" button at the bottom to move the proposal forward to the next step. You will see a notification indicating that the proposal has moved forward. You will not be able to edit after moving the proposal forward.
3. Please note that it is your responsibility as the proposer to see that the proposal is reviewed and receives all necessary approvals. Please be encouraged to reach out to reviewers on each step, if necessary.
4. You can check the status of the proposal by clicking on the workflow status icon  to verify that the proposal has gone to the next step.


The workflow status icon  will also show you the current step of the proposal at any given time, and who are the reviewers at that step.


QUESTIONS? contact [gradcurriculum@unlv.edu](mailto:gradcurriculum@unlv.edu)

### IV. Department Vote Information

Note: This section is to be filled out by the Department Chair on behalf of the department 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 in the fields below, along with the approval.
3. Then approve/reject by clicking the decisions icon  located to the right of the form. This will display a new decision/approval field on the top right. Click on "approve", add an optional comment if necessary, and then click on the "Make My Decision" button at the bottom to move the proposal forward to the next step. You will see a notification indicating that the proposal has moved forward. You will not be able to edit after moving the proposal forward.

The workflow status icon  will also show you the current step of the proposal at any given time, and who are the reviewers at that step.

If there were any modifications to the proposal, please enter them in the comments box below:

**Comments:**

**Date faculty voted on proposal:**

**Result of vote (Number of yes/no/abstention votes):**

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


## V. College Vote Information

Note: This section is to be filled out by the Academic Associate Dean on behalf of the college/school 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 in the fields below, along with the approval.

3. Then approve/reject by clicking the decisions icon  located to the right of the form. This will display a new decision/approval field on the top right. Click on "approve", add an optional comment if necessary, and then click on the "Make My Decision" button at the bottom to move the proposal forward to the next step. You will see a notification indicating that the proposal has moved forward. You will not be able to edit after moving the proposal forward.

The workflow status icon  will also show you the current step of the proposal at any given time, and who are the reviewers at that step.

**Date faculty voted on proposal:** 1/21/2022

**Result of vote (Number of yes/no/abstention votes):** 3/0/0

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

## VI. Graduate College and Registrar Use Only

**PS Processing Notes:** Remove the prerequisites from the course description in MyUNLV.  
CIP: 11.0701 Computer Science



**PS Processing Date:**

**Initials:**

**Aalog Processing  
Notes:**

**Aalog Processing  
Date:**

**Initials:**

## Comments for CS - 772 - Software Architecture

<b>Curriculog</b>	2/22/2022 10:58 am <a href="#">Reply</a>
Graduate Curriculum has approved this proposal on Grad Curriculum Implementation / Follow Up.	
<b>Curriculog</b>	2/17/2022 3:09 pm <a href="#">Reply</a>
Emily Lin has approved this proposal on Graduate College Dean.	
<b>Curriculog</b>	2/17/2022 2:08 pm <a href="#">Reply</a>
Graduate Curriculum has approved this proposal on Graduate Course Review Committee.	
<b>Curriculog</b>	2/16/2022 1:55 pm <a href="#">Reply</a>
James Navalta has approved this proposal on behalf of Graduate Course Review Committee. See <a href="#">Graduate Course Review Committee 02-09-2022</a> for more information.	
<b>Curriculog</b>	1/28/2022 8:37 am <a href="#">Reply</a>
Mohamed Trabia has approved this proposal on School/College Associate Dean/ Dean.	
<b>Melissa Morris</b>	1/24/2022 8:27 am <a href="#">Reply</a>
3/4 of the committee voted to approve this proposal 1 member did not reply to request for review and vote	
<b>Curriculog</b>	1/24/2022 8:27 am <a href="#">Reply</a>
Melissa Morris has approved this proposal on School/College Committee.	
<b>Curriculog</b>	12/8/2021 2:59 pm <a href="#">Reply</a>
CS Chair has approved this proposal on Department Chair.	
<b>Curriculog</b>	12/6/2021 6:39 pm <a href="#">Reply</a>
Computer Science Graduate Coordinator has approved this proposal on Graduate Coordinator.	
<b>Curriculog</b>	11/30/2021 2:17 pm <a href="#">Reply</a>
Graduate Curriculum has approved this proposal on Technical Review.	

**Curriculog**11/30/2021 11:44 am [Reply](#)

Edward Jorgensen has approved this proposal on Originator.

**Graduate Curriculum**11/30/2021 8:40 am [Reply](#)

- please review prerequisites to remove undergrad course. Undergrad courses cannot be prerequisites for grad. Please consider "instructor consent" in case you wish to verify undergraduate qualifications of students enrolling.

for assistance please contact [gradcurriculum@unlv.edu](mailto:gradcurriculum@unlv.edu)

**Curriculog**11/30/2021 8:40 am [Reply](#)

Graduate Curriculum has rejected this proposal on Technical Review.

**Curriculog**11/23/2021 11:15 am [Reply](#)

Edward Jorgensen has approved this proposal on Originator.

**Curriculog**11/23/2021 11:15 am [Reply](#)

Edward Jorgensen has launched this proposal.

**Curriculog**11/23/2021 9:11 am [Reply](#)

Edward Jorgensen imported from the map 2022-2023 - Working Graduate Catalog into the following proposal fields: I.General Information: Department:, I.General Information: Current Prefix:, I.General Information: Current Number:, I.General Information: Long Course Name:, I.General Information: Catalog Description 50 words limit (read guidelines above); II. Course Change Information: Prerequisites:, II. Course Change Information: Corequisites - course(s) that must be taken concurrently;, II. Course Change Information: Notes:.