

UNIVERSITY OF MICHIGAN
College of Engineering
Curriculum Committee Meeting
Tuesday, November 26, 2024

Attending: Achilleas Anastasopoulos, Yavuz Bozer, Xudong Fan, Chris Fidkowski, Anouck Girard, Saadet Albayrak Guralp, Elizabeth Holm, Amir Kamil, Leena Lalwani, Megan Langille, Ryan Latimer, Xiaogan Liang, Frank Marsik, Radoslaw Michalowski, Nolgi Oquendo-Colon, Yulin Pan, Kevin Pipe, Eric Rutherford, Elyse Vigiletti, Won Sik Yang

Support Staff: Mercedes Carmona, Betsy Dodge, Matthew Faunce

Call to Order: 1:34 PM

Adjourned: 2:27 PM

Agenda:

1. Approval of 10.15.2024 Meeting Minutes – Page 3 - **APPROVED**
2. New Dual Degree Program with Ross School of Business – Informational Item
 - a. This new dual degree program with CoE and Ross will allow UM to be competitive against other universities, leverage the preeminence of Ross, CoE and UM at large, as well as developing an exceptional learning experience for students in Business and Engineering in meeting the demand to learn this skill set.
 - b. CoE is the largest dual degree program involved with Ross representing 75-80 active dual degree students, half of these are dual with Computer Science, followed by Data Science and IOE. Average duration for dual degree is 8.6 terms with 50% of students finishing in 8 terms, but students need a lot of credits at least 170+. In a Fall 2023 Survey, students are willing to take Spring/Summer courses to graduate in 4 years.
 - c. The Design Principles for this program include 8 semesters + one semester sequence for a total of 150 credits for BBA and CS Degree, currently both degrees require 170 credits. There will be an admissions process in both units/schools and seek curricular efficiencies while upholding core requirements. Equitable access to all participants, such as a student coming in with no AP Credits versus another student coming in with 33 AP credits and/or other transfer credit. All other engineering degrees must fit into the adjustments made to the BBA for the CS Degree.
 - i. Curriculum Adjustments for the BBA are as follows:
 1. Combine Humanities and Social Sciences into one category, include ECON 101 + ECON 102 towards requirement.
 - a. Required 11 hours of combine category and aligns better with CoE Requirements.
 2. Increase to 21 shared credits as currently only 15 of the 62 business credits can be shared/overlapped with another major.
 3. Accept 4.0 credits of specific course in each CoE Major that combine business topics toward business credits.
 - a. Example for CS Major would be EECS 485. Moves Ross towards majority of other majors on campus.
 4. Develop a shared Capstone experience.
 5. All CoE Degrees to have ENGR 100 meet the First Year Writing Requirements for Ross. Also, cross-listed Capstone requirement.
 6. Specific degrees will need to make adjustments to fit the proposal.
 - a. Example of CS Core filled by Ross Core, such as TCHNCLCM 300 met with BCOM 250 and BCOM 350 or EECS 496 met with a combination of ACCS 301, BL 300, MO 300 and STRATEGY 390 concepts. 10 credits of Flexible Technical Electives can be fulfilled with a select list of Ross courses.
 - d. There will be dedicated advisors for students, a faculty director, and co-curricular activities, such as Spring Break Tech/Business treks, Alumni mentoring, program interactions with industry leaders, and cohort gatherings. Large donor support and engineering alumni are very excited and supportive of this new dual degree.

- e. The proposed governance structure is that any changes to the BBA Degree are subject to the Ross Faculty Approval. The Faculty Direction will rotate between Ross and Engineering for 3-year terms and engineering will hold the position first to help broaden interest. Shared courses will be reviewed by the joint faculty committee with an equal number of members from Ross and CoE with a yearly rotation to break any tied vote.
- f. The timeline to implement these new changes are Academic Year 25-26 will have applications open as a separate joint application. Fall 2026 will be when the first cohort starts.
- g. CEE and IOE question past partnership with Ross not always being onboard with CoE and how that is different for this new dual degree program.
 - i. Kevin states there is a new Ross Dean that is working closely with the new CoE Dean. There is recognition of past problems between Ross and CoE that with the new stronger partnership there is confidence that this will be a better future moving forward for both Ross and CoE.
- h. IOE brings up issues of capacity as in the past students were not accommodated, tuition issues and how this looks for both Ross and CoE, and admissions for what school/unit is making the decision to admit students for this program.
 - i. On the student's application, there will be a checkbox for the school/unit for the student. As mentioned in the slides, there will be an admissions process in both units/schools and seek curricular efficiencies while upholding core requirements. There is an agreement with Ross and CoE on cohort size and a priority for students to be enrolled in the courses needed for their degree requirements. Tuition is split 50/50 between Ross and CoE and a budget plan worked out for the dual degree as this was the first item discussed between both units/schools.
- i. MATSCIE is concerned with double counting courses that need to be accommodated for each CoE department. For example, CS does not need to be ABET accredited, but other departments that need to be ABET accredited have significantly less flexibility with the courses offered. Small departments such as MATSCIE and NERS only offer courses once a year, so there is not a lot of schedule flexibility.
 - i. Kevin says that IOE is ABET accredited and can accommodate students and courses currently with the dual degree program. Students may need to take another semester with departments that are ABET accredited, but there is a current advisor that is working with IOE and CS to establish schedules and is willing to work with any department that may need assistance with scheduling issues. Sample schedules would need to be developed for this dual degree program, which students can then reach out to an academic advisor to look at broadly at all requirements and figure out the best route for student scheduling. If any department wants the contact for this dedicated advisor, Kevin is happy to provide this to any department that may need it.

CARF SUMMARIES

PAGE	SUBJECT	COURSE #	ACTION	SUMMARY	EFFECTIVE TERM	MIN. GRADE REQ. FOR ENF. PREPREQ	Is Course on LSA Course Guide?	APPROVED	NOTES & REVISIONS	TABLED
5	CEE	850	NEW		FT 2025	NO	NO	CONDITIONAL APPROVAL	Department to review the Course Description and prerequisite (undergraduate vs graduate students for course). The CoE RO will follow up with Page 3 Contact Hours for the course.	
14	CEE	975	NEW		FT 2025	NO	NO	CONDITIONAL APPROVAL	Department to review the Course Description and Repeatability for number of repeatable credits, and prerequisites for graduate standing (undergraduate vs graduate students for course).	
17	CSE	592	MOD	Change to Credit Exclusions.	WT 2025	NO	YES	APPROVED		

UNIVERSITY OF MICHIGAN
College of Engineering
Curriculum Committee Meeting
Tuesday, October 15, 2024

Attending: Varun Agrawal, Sarah Barbrow, Yavuz Bozer, Xudong Fan, Chris Fidkowski, Anouck Girard, Saadet Albayrak Guralp, Elizabeth Holm, Amir Kamil, Pei-Chung Ku, Ryan Latimer, Xiaogan Liang, Frank Marsik, Ryan McBride, Radoslaw Michalowski, Nolgi Oquendo-Colon, Yulin Pan, Eric Rutherford, Elyse Vigiletti, Won Sik Yang

Support Staff: Mercedes Carmona, Betsy Dodge, Matthew Faunce

Call to Order: 1:35 PM

Adjourned: 2:17 PM

Agenda:

1. Approval of 10.1.2024 Meeting Minutes – Page 3 - **APPROVED**
2. Revised CoE Grade Grievance Policy – Action Item – Page 6 - **APPROVED**
 - a. The agreed upon deadline information of 30 days was given to the CoE Grade Grievance Policy and nothing more, as it was suggested to keep the policy short and minimal revisions to be made.
 - b. EECS-CSE points out an adjustment to be made to the revised beginning sentence from “This initial inquiry...” to “The initial inquiry...”.
 - i. Members agreed on this change for the revised policy.
 - c. CEE says that the information is redundant for the Grade Grievance Procedure and Student Grievances.
 - i. CC Chair asks if the CCC can make a change to the section for Student Grievances.
 1. CoE RO says that yes, the CCC can make change to this section within the policy.
 - ii. CLaSP suggests changing order of grievances within the policy starting with Student Grievances and then Grade Grievances Procedure.
 1. EECS-CSE says that the grade grievances occur more frequently and should be listed first within the policy. Also notes, that both processes are different from one another. Suggestion of updating the title for “Student Grievances” to “Non-Grade Student Grievances”.
 - a. Members agreed on this change for the revised policy.
 - d. CoE CC members voted unanimously to approve this revised policy with the two changes needing to be made which were discussed during the meeting. The proposal will appear at the December CoE Faculty meeting.
3. Proposal for NERS Minor – Action Item – Page 12 – **APPROVED**
 - a. Students are eligible for this minor if they declare a major other than NERS and have a good academic standing of a minimum 2.0 GPA. Effective term of Fall 2025. Minimum of 16 credits broken down as the following:
 - i. Required Core Course – NERS 250
 - ii. Foundation Course (must select one or more) – NERS 311, NERS 421, NERS 471, NERS 484
 - iii. Electives – Remaining credits to reach 16 credit minimum – Any NERS 300 level and above courses and/or PHYSICS 405
 - b. EECS-CSE asks what are the prerequisites of these courses and/or minors and do students need background in NERS to pursue this minor?
 - i. NERS Presenter says the Optional Specialization Areas breaks down the different areas in which students can pursue the NERS minor and the courses associated the most with Fission Systems, Nuclear Materials, Radiation Measurements & Applications, and Plasma Science & Engineering. If a student does not want to pursue one of these areas, they are to complete the Minimum Program Requirements listed.
 - c. CoE CC members voted unanimously to approve this minor proposal. The proposal will appear at the December CoE Faculty meeting.

CARF SUMMARIES

PAGE	SUBJECT	COURSE #	ACTION	SUMMARY	EFFECTIVE TERM	MIN. GRADE REQ. FOR ENF. PREPREQ	Is Course on LSA Course Guide?	APPROVED	NOTES & REVISIONS	TABLED
17	ECS	542	MOD	Change to Course Description and Course Credit Type.	WT 2025	NO	YES	APPROVED		
20	ECS	542	MOD	Change to Advisory and Enforced Prerequisites.	FT 2025	C	YES	APPROVED		
23	IOE	837	MOD	Change to Full Term Credit Hours.	WT 2025	NO	YES	APPROVED	Update CARF with Course Description changes. Review Course Title with department.	
26	NAVARCH	470	MOD	Change to Course Components.	FT 2025	NO	YES	APPROVED	Cross-listed with MFG 470.	
29	NERS	250	MOD	Change to Enforced Prerequisite.	WT 2026	C	YES	APPROVED		
32	NERS	311	MOD	Change to Advisory Prerequisite.	FT 2026	C	YES	APPROVED		
35	NERS	441	MOD	Change to Enforced Prerequisite.	FT 2027	C	YES	APPROVED		
38	NERS	484	MOD	Change to Enforced Prerequisite.	FT 2026	C	YES	APPROVED	Cross-listed with BIOMEDE 484.	



Course Approval Request Form

Office of the Registrar, University of Michigan

1210 LSA Building
500 S. State Street
Ann Arbor, MI 48109-1382
Phone: 734.763.2113
Fax: 734.936.3148
ro.curriculum@umich.edu
ro.umich.edu

CHECK APPROPRIATE BOXES FOR ALL CHANGES

Action Requested

- New Course
- Modification of Existing Course
- Deletion of Existing Course

Date of Submission: 2024-09-10
Effective Term: Fall 2025

<input checked="" type="checkbox"/>	Course Offered <input checked="" type="checkbox"/> Indefinitely <input type="checkbox"/> One term only	RO USE ONLY Date Received: Date Completed: Completed By:
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CURRENT LISTING

REQUESTED LISTING

<input checked="" type="checkbox"/>	Dept (Home): Subject: Catalog:	Dept (Home): Civil & Environmental Engin Subject: CEE Catalog: 850	
<input type="checkbox"/>	<input type="checkbox"/> Course is Cross-Listed with Other Departments		
	Department	Subject	Catalog Number
<input checked="" type="checkbox"/>	Course Title (full title)	Course Title (full title) Next-Generation Transportation Systems Seminar	
<input checked="" type="checkbox"/>	Abbreviated Title (20 char)	Abbreviated Title (20 char) Transpo Sys Seminar	
<input checked="" type="checkbox"/>	Course Description (Please limit to 80 words and attach separate sheet if necessary) Presentation and discussion of selected topics related to transportation systems engineering. Student participation and guest lectures.		
<input checked="" type="checkbox"/>	Full Term Credit Hours		
	Undergraduate Min: 1	Graduate Min: 1	Undergraduate Min:
<input checked="" type="checkbox"/>	Undergraduate Max: 1		
	Graduate Max: 1	Undergraduate Max:	Graduate Max:
<input checked="" type="checkbox"/>	Course Credit Type Undergraduate Student, Rackham Graduate Student, Non-Rackham Graduate Student		
<input checked="" type="checkbox"/>	Repeatability		
	<input checked="" type="checkbox"/> Course is Repeatable for Credit	<input type="checkbox"/> Course is Y graded	
Maximum number of repeatable credits: 2		<input type="checkbox"/> Can be taken more than once in the same term	

	Subject:	Catalog:				
<input checked="" type="checkbox"/>	Grading Basis <input checked="" type="checkbox"/> Graded (A – E) <input type="checkbox"/> Credit/No Credit <input type="checkbox"/> Satisfactory/Unsatisfactory <input type="checkbox"/> Pass/Fail <input type="checkbox"/> Business Administration Grading <input type="checkbox"/> Not for Credit <input type="checkbox"/> Not for Degree Credit <input type="checkbox"/> Degree Credit Only				Add Consent <input type="checkbox"/> Department Consent <input type="checkbox"/> Instructor Consent <input checked="" type="checkbox"/> No Consent	Drop Consent <input type="checkbox"/> Department Consent <input type="checkbox"/> Instructor Consent <input checked="" type="checkbox"/> No Consent

	CURRENT LISTING	REQUESTED LISTING
<input type="checkbox"/>	Advisory Prerequisite (254 char)	Advisory Prerequisite (254 char)
<input type="checkbox"/>	Enforced Prerequisite (254 char) Minimum grade requirement:	Enforced Prerequisite (254 char) Minimum grade requirement:
<input type="checkbox"/>	Credit Exclusions	Credit Exclusions
<input checked="" type="checkbox"/>	Course Components <input type="checkbox"/> Lecture <input checked="" type="checkbox"/> Seminar <input type="checkbox"/> Recitation <input type="checkbox"/> Lab <input type="checkbox"/> Discussion <input type="checkbox"/> Independent Study	Graded Component <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
		Terms Typically Offered <input checked="" type="checkbox"/> Fall <input checked="" type="checkbox"/> Winter <input type="checkbox"/> Spring <input type="checkbox"/> Summer <input type="checkbox"/> Spring/Summer
Cognizant Faculty Member Name: Neda Masoud		Cognizant Faculty Member Title: Assoc Professor

SIGNATURES ARE REQUIRED FROM ALL DEPARTMENTS INVOLVED (Please Print AND Sign Name)

Contact Person: Lynn Shock Email: lshock@umich.edu Phone: 734-764-4106

CoE Curriculum Committee Representative:	<i>Radoslaw Michalowski</i>	Print: Radoslaw Michalowski	Date:
CoE Curriculum Committee Chair:		Print:	Date:
Home Department Chair:	<i>Yafeng Yin</i>	Print: Yafeng Yin	Date:
Cross-Listed Department Chair:		Print:	Date:
Cross-Listed Department Chair:		Print:	Date:
Cross-Listed Department Chair:		Print:	Date:

DEPARTMENTAL/COLLEGE USE ONLY

Current:**Requested:**Course DescriptionCourse Description

Presentation and discussion of selected topics related to transportation systems engineering. Student participation and guest lectures.

Class LengthClass Length

Full term

Contact hours (lecture):Contact hours (lecture):Contact hours (recitation)Contact hours (recitation)Contact hours (lab)Contact hours (lab)**Additional Info:**Submitted by:

Home dept

Describe how this course fits with the degree requirements:Special resources of facilities required for this course:Supporting statement:

The Transportation group in CEE has established a seminar series since the Fall 2017. The seminar is an integral part of transportation engineering graduate education, exposing students to recent research advances and case histories of actual projects. Presentations will be made by our own researchers as well as invited guests from academia and practicing engineers. A discussion and question/answer session will follow each presentation.

CEE 501 850 — Next Generation Transportation Systems Seminar

Winter 2024

Instructor:	Neda Masoud, 2124 GG Brown, nmasoud@umich.edu
Class Time:	12:00-1:00 pm Thurs
Class Location	2029 GGB (for in-person seminars) https://umich.zoom.us/j/94540824945 (passcode: NGTS, for virtual seminars)
Texts:	There is no required text. Reading material will be shared for each seminar.
Website:	https://canvas.it.umich.edu/
Prereqs:	N/A
Grading:	Class participation: 10%, Reports: 90%. 90%+ (A), 80%-90% (B), 70%-80% (C), 60%-70% (D), 60%- (F).

Course Description: This seminar series is an integral part of transportation engineering education, providing exposure to recent research advances and case histories of actual projects. The presentations will be delivered by our researchers and invited guests from academia and practicing engineers. After each presentation, there will be a discussion and question/answer session.

Reports: After each seminar, students are required to submit a report. The report should not exceed one page. It should include the following:

- Student's summary of the talk: This should be your summary of the talk, and not a replication the abstract shared with you
- Important takeaways: Make a list (in bullet points) of your important takeaways from the talk
- Future research directions: Make a list (in bullet points) of future research directions. Again, this should not simply be a repeat of future research directions provided by the speaker, but rather your opinion on future research directions.

The report for each talk should be submitted on Canvas under Assignments in PDF format. Each report will be due one week after the seminar.

Attendance and Expectations:

- Class attendance is mandatory. Each uninformed absence leads to 0.5 point deduction to the attendance grade.
- Cell phone use during class is strictly prohibited, and all cell phones should be silent during class.
- A significant part of engineering is written communication. Heavy emphasis will be placed on the clarity, organization and readability of your reports. The assignments and reports must be neatly presented. All information extracted from external references (journals, books, etc.) must have appropriate notation and bibliographic citations. Assistance from other students or instructors must be properly acknowledged as a parenthetical note and a proper bibliographic citation.

Honor Code: All students are required to be acquainted with and adhere to the standards outlined in the Engineering Honor Code.

Late homework submission policy:

- Up to 24 hours after the deadline: graded out of 90
- Up to 48 hours after the deadline: graded out of 70
- After 48 hours after the deadline: Not graded

Date	Speaker	Modality (in person/online)
01/11/2024	TRB	
01/18/2024	Jacob Yan	Virtual
01/25/2024	Rael Al Kontar	In person
02/01/2024	Saif Benjaafar	In person
02/08/2024	Peter Savolainen	In person
02/15/2024	Ali Zockaie	In person
02/22/2024	Khandker Nurul Habib	Virtual
02/29/2024	Break	
03/07/2024	Zhiwei Chen	Virtual
03/14/2024	Cathy Wu	In person
03/21/2024	Shan Bao	In person
03/28/2024	Walter Guo	Virtual
04/04/2024	Alireza Ermagun	Virtual
04/11/2024	Ali Hajbabaie	Virtual
04/18/2024	Srini Peeta	In person

University of Michigan

Winter 2024 Instructor Report

CEE 501-850: Special Topics CEE

Neda Masoud

3 out of 6 students responded to this evaluation.

Responses to University-wide questions about the course:

	SA	A	N	D	SD	N/A	Your Median	School/College Median	Univ-Wide Median
This course advanced my understanding of the subject matter. (Q1631)	1	1	1	0	0	0	4.0	4.4	4.5
My interest in the subject has increased because of this course. (Q1632)	1	1	1	0	0	0	4.0	4.2	4.2
I knew what was expected of me in this course.(Q1633)	2	0	1	0	0	0	4.8	4.4	4.6
I had a strong desire to take this course.(Q4)	2	0	1	0	0	0	4.8	4.0	4.1
As compared with other courses of equal credit, the workload for this course was (SA=Much Lighter, A=Lighter, N=Typical, D=Heavier, SD=Much Heavier). (Q891)	0	1	2	0	0	0	3.3	2.9	3.0

Responses to University-wide questions about the instructor:

	SA	A	N	D	SD	N/A	Your Median	School/College Median	Univ-Wide Median
Neda Masoud seemed well prepared for class meetings.(Q230)	2	0	1	0	0	0	4.8	4.7	4.8
Neda Masoud explained material clearly.(Q199)	2	0	1	0	0	0	4.8	4.6	4.7
Neda Masoud treated students with respect.(Q217)	2	0	1	0	0	0	4.8	4.8	4.8

Responses to questions about the course:

	SA	A	N	D	SD	N/A	Your Median
Overall, this was an excellent course. (Q1)	2	0	1	0	0	0	4.8
I increased my ability to formulate, and solve engineering problems. (Q23)	1	1	1	0	0	0	4.0
I gained a good understanding of concepts/principles in this field. (Q121)	1	1	1	0	0	0	4.0
Work requirements and grading system were clear from the beginning. (Q232)	2	0	1	0	0	0	4.8
Examinations covered the important aspects of the course. (Q356)	2	0	1	0	0	0	4.8
Exams were reasonable in length and difficulty. (Q360)	2	0	1	0	0	0	4.8

Responses to questions about the instructor:

	SA	A	N	D	SD	N/A	Your Median
Overall, Neda Masoud was an excellent teacher. (Q2)	2	1	0	0	0	0	4.8
Neda Masoud stressed important points in lectures/discussions. (Q203)	2	0	1	0	0	0	4.8
Neda Masoud appeared to have a thorough knowledge of the subject. (Q207)	2	0	1	0	0	0	4.8
Neda Masoud acknowledged all questions insofar as possible. (Q216)	2	0	1	0	0	0	4.8
Neda Masoud used class time well. (Q229)	2	0	1	0	0	0	4.8

University of Michigan
Fall 2023 Instructor Report
CEE 501-850: Special Topics CEE
Neda Masoud

7 out of 11 students responded to this evaluation.

Responses to University-wide questions about the course:

	SA	A	N	D	SD	N/A	Your Median	School/College Median	Univ-Wide Median
This course advanced my understanding of the subject matter. (Q1631)	6	1	0	0	0	0	4.9	4.5	4.5
My interest in the subject has increased because of this course. (Q1632)	4	2	1	0	0	0	4.6	4.2	4.2
I knew what was expected of me in this course.(Q1633)	6	1	0	0	0	0	4.9	4.4	4.5
I had a strong desire to take this course.(Q4)	4	1	1	1	0	0	4.6	4.1	4.0
As compared with other courses of equal credit, the workload for this course was (SA=Much Lighter, A=Lighter, N=Typical, D=Heavier, SD=Much Heavier). (Q891)	1	0	5	1	0	0	3.0	2.8	3.0

Responses to University-wide questions about the instructor:

	SA	A	N	D	SD	N/A	Your Median	School/College Median	Univ-Wide Median
Neda Masoud seemed well prepared for class meetings.(Q230)	6	1	0	0	0	0	4.9	4.7	4.8
Neda Masoud explained material clearly.(Q199)	4	2	0	0	0	1	4.8	4.6	4.7
Neda Masoud treated students with respect.(Q217)	7	0	0	0	0	0	5.0	4.8	4.8

Responses to questions about the course:

	SA	A	N	D	SD	N/A	Your Median
Overall, this was an excellent course. (Q1)	6	0	1	0	0	0	4.9
I increased my ability to formulate, and solve engineering problems. (Q23)	5	1	1	0	0	0	4.8
I gained a good understanding of concepts/principles in this field. (Q121)	4	2	1	0	0	0	4.6
Work requirements and grading system were clear from the beginning. (Q232)	5	2	0	0	0	0	4.8
Examinations covered the important aspects of the course. (Q356)	3	1	0	0	0	3	4.8
Exams were reasonable in length and difficulty. (Q360)	3	1	0	0	0	3	4.8

Responses to questions about the instructor:

	SA	A	N	D	SD	N/A	Your Median
Overall, Neda Masoud was an excellent teacher. (Q2)	5	2	0	0	0	0	4.8
Neda Masoud stressed important points in lectures/discussions. (Q203)	4	1	1	0	0	1	4.8
Neda Masoud appeared to have a thorough knowledge of the subject. (Q207)	6	1	0	0	0	0	4.9
Neda Masoud acknowledged all questions insofar as possible. (Q216)	6	1	0	0	0	0	4.9
Neda Masoud used class time well. (Q229)	6	1	0	0	0	0	4.9

University of Michigan
 Winter 2023 Instructor Report
 CEE 501-850: Special Topics CEE
 Yafeng Yin

4 out of 9 students responded to this evaluation.

Responses to University-wide questions about the course:

	SA	A	N	D	SD	N/A	Your Median	School/College Median	Univ-Wide Median
This course advanced my understanding of the subject matter. (Q1631)	4	0	0	0	0	0	5.0	4.4	4.5
My interest in the subject has increased because of this course. (Q1632)	4	0	0	0	0	0	5.0	4.1	4.2
I knew what was expected of me in this course.(Q1633)	4	0	0	0	0	0	5.0	4.3	4.6
I had a strong desire to take this course.(Q4)	4	0	0	0	0	0	5.0	4.0	4.1
As compared with other courses of equal credit, the workload for this course was (SA=Much Lighter, A=Lighter, N=Typical, D=Heavier, SD=Much Heavier). (Q891)	0	1	2	0	1	0	3.0	2.8	3.0

Responses to University-wide questions about the instructor:

	SA	A	N	D	SD	N/A	Your Median	School/College Median	Univ-Wide Median
Yafeng Yin seemed well prepared for class meetings. (Q230)	4	0	0	0	0	0	5.0	4.7	4.8
Yafeng Yin explained material clearly.(Q199)	4	0	0	0	0	0	5.0	4.6	4.7
Yafeng Yin treated students with respect.(Q217)	4	0	0	0	0	0	5.0	4.8	4.8

Responses to questions about the course:

	SA	A	N	D	SD	N/A	Your Median
Overall, this was an excellent course. (Q1)	4	0	0	0	0	0	5.0
I increased my ability to formulate, and solve engineering problems. (Q23)	4	0	0	0	0	0	5.0
I gained a good understanding of concepts/principles in this field. (Q121)	4	0	0	0	0	0	5.0
Work requirements and grading system were clear from the beginning. (Q232)	3	0	1	0	0	0	4.8
Examinations covered the important aspects of the course. (Q356)	2	0	1	1	0	0	4.0
Exams were reasonable in length and difficulty. (Q360)	2	0	1	1	0	0	4.0

Responses to questions about the instructor:

	SA	A	N	D	SD	N/A	Your Median
Overall, Yafeng Yin was an excellent teacher. (Q2)	4	0	0	0	0	0	5.0
Yafeng Yin stressed important points in lectures/discussions. (Q203)	4	0	0	0	0	0	5.0
Yafeng Yin appeared to have a thorough knowledge of the subject. (Q207)	4	0	0	0	0	0	5.0
Yafeng Yin acknowledged all questions insofar as possible. (Q216)	4	0	0	0	0	0	5.0
Yafeng Yin used class time well. (Q229)	4	0	0	0	0	0	5.0

University of Michigan
Fall 2022 Instructor Report
CEE 501-850: Special Topics CEE
Yafeng Yin

4 out of 10 students responded to this evaluation.

Responses to University-wide questions about the course:

	SA	A	N	D	SD	N/A	Your Median	Univ-wide Median	School/College Median
This course advanced my understanding of the subject matter. (Q1631)	3	1	0	0	0	0	4.8	4.5	4.7
My interest in the subject has increased because of this course. (Q1632)	4	0	0	0	0	0	5.0	4.2	4.6
I knew what was expected of me in this course.(Q1633)	4	0	0	0	0	0	5.0	4.6	4.4
I had a strong desire to take this course.(Q4)	4	0	0	0	0	0	5.0	4.0	4.5
As compared with other courses of equal credit, the workload for this course was (SA=Much Lighter, A=Lighter, N=Typical, D=Heavier, SD=Much Heavier). (Q891)	1	1	2	0	0	0	3.5	3.0	3.0

Responses to University-wide questions about the instructor:

	SA	A	N	D	SD	N/A	Your Median	Univ-wide Median	School/College Median
Yafeng Yin seemed well prepared for class meetings. (Q230)	4	0	0	0	0	0	5.0	4.8	4.9
Yafeng Yin explained material clearly.(Q199)	4	0	0	0	0	0	5.0	4.7	4.7
Yafeng Yin treated students with respect.(Q217)	4	0	0	0	0	0	5.0	4.8	4.9

Responses to questions about the course:

	SA	A	N	D	SD	N/A	Your Median
Overall, this was an excellent course. (Q1)	4	0	0	0	0	0	5.0
I increased my ability to formulate, and solve engineering problems. (Q23)	4	0	0	0	0	0	5.0
I gained a good understanding of concepts/principles in this field. (Q121)	4	0	0	0	0	0	5.0
Work requirements and grading system were clear from the beginning. (Q232)	4	0	0	0	0	0	5.0
Examinations covered the important aspects of the course. (Q356)	0	0	0	0	0	4	N/A
Exams were reasonable in length and difficulty. (Q360)	0	0	0	0	0	4	N/A

Responses to questions about the instructor:

	SA	A	N	D	SD	N/A	Your Median
Overall, Yafeng Yin was an excellent teacher. (Q2)	4	0	0	0	0	0	5.0
Yafeng Yin stressed important points in lectures/discussions. (Q203)	4	0	0	0	0	0	5.0
Yafeng Yin appeared to have a thorough knowledge of the subject. (Q207)	4	0	0	0	0	0	5.0
Yafeng Yin acknowledged all questions insofar as possible. (Q216)	4	0	0	0	0	0	5.0
Yafeng Yin used class time well. (Q229)	4	0	0	0	0	0	5.0



Course Approval Request Form

Office of the Registrar, University of Michigan

1210 LSA Building
 500 S. State Street
 Ann Arbor, MI 48109-1382
 Phone: 734.763.2113
 Fax: 734.936.3148
 ro.curriculum@umich.edu
 ro.umich.edu

CHECK APPROPRIATE BOXES FOR ALL CHANGES

Action Requested

- New Course
- Modification of Existing Course
- Deletion of Existing Course

Date of Submission:
 Effective Term: Fall 2025

<input checked="" type="checkbox"/>	Course Offered <input checked="" type="checkbox"/> Indefinitely <input type="checkbox"/> One term only	RO USE ONLY Date Received: Date Completed: Completed By:
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CURRENT LISTING

REQUESTED LISTING

<input checked="" type="checkbox"/>	Dept (Home): Subject: Catalog:	Dept (Home): Civil & Environmental Engin Subject: CEE Catalog: 975												
<input type="checkbox"/>	<input type="checkbox"/> Course is Cross-Listed with Other Departments	<input type="checkbox"/> Course is Cross-Listed with Other Departments												
<input type="checkbox"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 20%;">Department</th> <th style="width: 20%;">Subject</th> <th style="width: 60%;">Catalog Number</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	Department	Subject	Catalog Number				<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 20%;">Department</th> <th style="width: 20%;">Subject</th> <th style="width: 60%;">Catalog Number</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	Department	Subject	Catalog Number			
Department	Subject	Catalog Number												
Department	Subject	Catalog Number												
<input checked="" type="checkbox"/>	Course Title (full title)	Course Title (full title) Hazards, Risk, and Resilience Research												
<input checked="" type="checkbox"/>	Abbreviated Title (20 char)	Abbreviated Title (20 char) Haz Risk Resil Res												
<input checked="" type="checkbox"/>	Course Description (Please limit to 50 words and attach separate sheet if necessary) A research study of advanced problems relating to hazards, risk, and resilience; a wide range of both subject matter and method is available, including field investigations, computational studies, laboratory experimentation, library and public record searches, and engineering design work.													
<input checked="" type="checkbox"/>	Full-Term Credit Hours Undergraduate Min: Graduate Min: 1 Undergraduate Max: Graduate Max: 16	Half Term Credit Hours Undergraduate Min: Graduate Min: Undergraduate Max: Graduate Max:												
<input checked="" type="checkbox"/>	Course Credit Type Rackham Graduate Student, Non-Rackham Graduate Student													
<input checked="" type="checkbox"/>	Repeatability <input checked="" type="checkbox"/> Course is Repeatable for Credit <input type="checkbox"/> Course is Y graded Maximum number of repeatable credits: 99 <input checked="" type="checkbox"/> Can be taken more than once in the same term													



Subject: CEE Catalog: 975

<input checked="" type="checkbox"/>	Grading Basis <input type="checkbox"/> Graded (A – E) <input type="checkbox"/> Credit/No Credit <input checked="" type="checkbox"/> Satisfactory/Unsatisfactory <input type="checkbox"/> Pass/Fail <input type="checkbox"/> Business Administration Grading <input type="checkbox"/> Not for Credit <input type="checkbox"/> Not for Degree Credit <input type="checkbox"/> Degree Credit Only	Add Consent <input type="checkbox"/> Department Consent <input checked="" type="checkbox"/> Instructor Consent <input type="checkbox"/> No Consent	Drop Consent <input type="checkbox"/> Department Consent <input type="checkbox"/> Instructor Consent <input checked="" type="checkbox"/> No Consent
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	CURRENT LISTING	REQUESTED LISTING
<input type="checkbox"/>	Advisory Prerequisite (254 char)	Advisory Prerequisite (254 char)
<input type="checkbox"/>	Enforced Prerequisite (254 char) Minimum grade requirement:	Enforced Prerequisite (254 char) Minimum grade requirement:
<input type="checkbox"/>	Credit Exclusions	Credit Exclusions
<input checked="" type="checkbox"/>	Course Components <input type="checkbox"/> Lecture <input type="checkbox"/> Seminar <input type="checkbox"/> Recitation <input type="checkbox"/> Lab <input type="checkbox"/> Discussion <input checked="" type="checkbox"/> Independent Study	Graded Component <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
		Terms Typically Offered <input checked="" type="checkbox"/> Fall <input checked="" type="checkbox"/> Winter <input type="checkbox"/> Spring <input type="checkbox"/> Summer <input type="checkbox"/> Spring/Summer
Cognizant Faculty Member Name: Sabine Loos		Cognizant Faculty Member Title: Assistant Professor

SIGNATURES ARE REQUIRED FROM ALL DEPARTMENTS INVOLVED (Please Print AND Sign Name)

Contact Person: Lynn Shock Email: lshock@umich.edu Phone: 734-764-4106

CoE Curriculum Committee Representative:		Print: Radoslaw Michalowski	Date:
CoE Curriculum Committee Chair:		Print:	Date:
Home Department Chair:		Print: Yafeng Yin	Date:
Cross-Listed Department Chair:		Print:	Date:
Cross-Listed Department Chair:		Print:	Date:
Cross-Listed Department Chair:		Print:	Date:

DEPARTMENTAL/COLLEGE USE ONLY

Current:**Requested:**Course DescriptionCourse Description

A research study of advanced problems relating to hazards, risk, and resilience; a wide range of both subject matter and method is available, including field investigations, computational studies, laboratory experimentation, library and public record searches, and engineering design work.

Class LengthClass Length

Full term

Contact hours (lecture):Contact hours (lecture):Contact hours (recitation)Contact hours (recitation)Contact hours (lab)Contact hours (lab)**Additional Info:**

A new graduate course in independent study in Hazards, Risk, and Resilience Research is a new program.



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Ann Arbor, MI 48109-1382
Phone: 734.763.2113
Fax: 734.936.3148
ro.curriculum@umich.edu
ro.umich.edu

CHECK APPROPRIATE BOXES FOR ALL CHANGES

Action Requested

- New Course
- Modification of Existing Course
- Deletion of Existing Course

Date of Submission: 2024-11-04
Effective Term: Winter 2025

<input checked="" type="checkbox"/>	Course Offered <input checked="" type="checkbox"/> Indefinitely <input type="checkbox"/> One term only	RO USE ONLY Date Received: Date Completed: Completed By:
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CURRENT LISTING

REQUESTED LISTING

<input type="checkbox"/>	Dept (Home): Computer Science and Engineering Subject: CSE Catalog: 592			Dept (Home): Computer Science and Engineering Subject: CSE Catalog: 592		
<input type="checkbox"/>	<input type="checkbox"/> Course is Cross-Listed with Other Departments			<input type="checkbox"/> Course is Cross-Listed with Other Departments		
	Department	Subject	Catalog Number	Department	Subject	Catalog Number
<input type="checkbox"/>	Course Title (full title) Foundations of Artificial Intelligence			Course Title (full title) Foundations of Artificial Intelligence		
<input type="checkbox"/>	Abbreviated Title (20 char) AI Foundations			Abbreviated Title (20 char) AI Foundations		
<input type="checkbox"/>	Course Description (Please limit to 80 words and attach separate sheet if necessary) An advanced introduction to AI emphasizing its theoretical underpinnings. Topics include search, logic, knowledge representation, reasoning planning, decision making under uncertainty, and machine learning.					
<input type="checkbox"/>	Full Term Credit Hours			Half Term Credit Hours		
	Undergraduate Min:	Graduate Min: 4		Undergraduate Min:	Graduate Min:	
<input type="checkbox"/>	Undergraduate Max:			Undergraduate Max:		
		Graduate Max: 4			Graduate Max:	
<input type="checkbox"/>	Course Credit Type Rackham Graduate Student, Non-Rackham Graduate Student					
<input type="checkbox"/>	Repeatability					
	<input type="checkbox"/> Course is Repeatable for Credit			<input type="checkbox"/> Course is Y graded		
	Maximum number of repeatable credits:			<input type="checkbox"/> Can be taken more than once in the same term		

Subject: Computer Science and Engineering Catalog: 592	
<input type="checkbox"/>	<p>Grading Basis</p> <p><input checked="" type="checkbox"/> Graded (A – E)</p> <p><input type="checkbox"/> Credit/No Credit</p> <p><input type="checkbox"/> Satisfactory/Unsatisfactory</p> <p><input type="checkbox"/> Pass/Fail</p> <p><input type="checkbox"/> Business Administration</p> <p>Grading</p> <p><input type="checkbox"/> Not for Credit</p> <p><input type="checkbox"/> Not for Degree Credit</p> <p><input type="checkbox"/> Degree Credit Only</p>
	<p>Add Consent</p> <p><input type="checkbox"/> Department Consent</p> <p><input type="checkbox"/> Instructor Consent</p> <p><input checked="" type="checkbox"/> No Consent</p>
	<p>Drop Consent</p> <p><input type="checkbox"/> Department Consent</p> <p><input type="checkbox"/> Instructor Consent</p> <p><input checked="" type="checkbox"/> No Consent</p>

	CURRENT LISTING	REQUESTED LISTING
<input type="checkbox"/>	Advisory Prerequisite (254 char)	Advisory Prerequisite (254 char)
<input type="checkbox"/>	Enforced Prerequisite (254 char) Graduate Standing Minimum grade requirement:	Enforced Prerequisite (254 char) Graduate Standing Minimum grade requirement:
<input checked="" type="checkbox"/>	Credit Exclusions No credit to a student who has taken EECS 492.	Credit Exclusions Credit for only one: EECS 492 or CSE 592
<input type="checkbox"/>	<p>Course Components</p> <p><input checked="" type="checkbox"/> Lecture</p> <p><input type="checkbox"/> Seminar</p> <p><input type="checkbox"/> Recitation</p> <p><input type="checkbox"/> Lab</p> <p><input checked="" type="checkbox"/> Discussion</p> <p><input type="checkbox"/> Independent Study</p>	<p>Graded Component</p> <p><input checked="" type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p>
		<p>Terms Typically Offered</p> <p><input checked="" type="checkbox"/> Fall</p> <p><input checked="" type="checkbox"/> Winter</p> <p><input type="checkbox"/> Spring</p> <p><input type="checkbox"/> Summer</p> <p><input type="checkbox"/> Spring/Summer</p>
Cognizant Faculty Member Name: Mithun Chakraborty		Cognizant Faculty Member Title:

SIGNATURES ARE REQUIRED FROM ALL DEPARTMENTS INVOLVED (Please Print AND Sign Name)

Contact Person:	Email:	Phone:
CoE Curriculum Committee Representative:	Print: Amir Kamil	Date: 11/4/24
CoE Curriculum Committee Chair:	Print:	Date:
Home Department Chair:	Print: Chris Peikert	Date: 11/5/24
Cross-Listed Department Chair:	Print:	Date:
Cross-Listed Department Chair:	Print:	Date:
Cross-Listed Department Chair:	Print:	Date:

DEPARTMENTAL/COLLEGE USE ONLY

Current:Course Description

An advanced introduction to AI emphasizing its theoretical underpinnings. Topics include search, logic, knowledge representation, reasoning planning, decision making under uncertainty, and machine learning.

Class Length

Full term

Contact hours (lecture):

3

Contact hours (recitation)

1

Contact hours (lab)**Requested:**Course Description

An advanced introduction to AI emphasizing its theoretical underpinnings. Topics include search, logic, knowledge representation, reasoning planning, decision making under uncertainty, and machine learning.

Class Length

Full term

Contact hours (lecture):

3

Contact hours (recitation)

1

Contact hours (lab)**Additional Info:**Submitted by:

Home dept

Describe how this course fits with the degree requirements:Special resources of facilities required for this course:Supporting statement:

We are updating the credit exclusion to reflect the change of subject code to CSE, and to match the language in the CARF for EECS 492.