

**UNIVERSITY OF MICHIGAN**  
**College of Engineering**  
**Curriculum Committee Meeting**  
**Tuesday, March 24<sup>th</sup>. 2020**  
**Via BlueJeans**

**Attending:** Amy Hortop, Christina Rice, Christian Frederick Casper, Christian Lastoskie, Dale Karr, Edmund Durfee, Fred Terry, Gretchen Keppel-Aleks, Jwo Pan, Krista Quinn, Leung Tsang, Saadest Albayrak, Susan Montgomery, Won Sik Yang, Xueding Wang, Yavuz Bozer, Yue Fan; **Visiting Guests:** Stacie Edington, Alyssa Bersine; **Supporting Staff:** Betsy Dodge, Alyiah Al-Bonijim

**Call to Order:** 1:32

**Adjourned:** 2:33

**AGENDA**

1. 3.10.20 Meeting Minutes: APPROVED, Christian Frederick Cooper abstained
2. ENGR 110 Presentation [*Frank Marsik presenting*]: Frank, the director of CoE engagement, worked with CRLT to complete the redesign of ENGR 110 to increase engagement, this pilot lended a small discussion and online module format.

**CARF SUMMARIES**

PAGE	SUBJECT	COURSE #	ACTION	SUMMARY	EFFECTIVE TERM	MIN. GRADE REQ. FOR ENF. PREPREQ	APPROVED	NOTES & REVISIONS	TABLED
	ENGR	110	MOD	Description is being updated	FA 2020		X		
	NERS	201	NEW		WN 2021		X		

**UNIVERSITY OF MICHIGAN**  
**College of Engineering**  
**Curriculum Committee Meeting**  
**Tuesday, March 24<sup>th</sup>. 2020**

**Attending:**

**Call to Order:**

**Adjourned:**

**AGENDA**

1. 3.10..20 Meeting Minutes
2. ENGR 110 Presentation [*Frank Marsik presenting*]

**CARF SUMMARIES**

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4	ENGR	110	MOD	Description is being updated	FA 2020				
7	NERS	201	NEW		WN 2021				

**UNIVERSITY OF MICHIGAN**  
**College of Engineering**  
**Curriculum Committee Meeting**  
**Tuesday, March 10<sup>th</sup>, 2020**

**Attending:** Eric Rutherford, Wok Sing Yang, Amy Hortop, Susan Montgomery, Saadet Albayrak, Fred Terry, Dale Karr, Christian Lastoskie, Ed Durfee, Emmanuelle Marquis, Gretchen Keppel-Aleks. **Supporting Staff:** Betsy Dodge, Alyiah Al-Bonijim

**Call to Order:** 1:39PM

**Adjourned:** 2:27PM

**AGENDA**

1. 02.25.20 Meeting Minutes: APPROVED
2. Request for Approval for Sequential Master of Engineering/B.S.E. Programs with Materials Science and Engineering [*Emmanuelle Marquis Presented*]: The four ISD SUGS programs were approved, the effective term is Fall 2020. They will be double counting six credits with the potential for more
3. Faculty Committee Guidelines for CoE Curriculum Committee [*Betsy Dodge presented*]: Committee Reviewed and added these guidelines to the CC website.
4. Joint LSA/CoE Curriculum Committee Meeting [*Betsy Dodge presented*]: A head count was conducted and missing members were emailed. Agenda items were also gathered.

**CARF SUMMARIES**

PAGE	SUBJECT	COURSE #	ACTION	SUMMARY	EFFECTIVE TERM	MIN.GRADE REQ. FOR ENF. PREPREQ	APPROVED	NOTES & REVISIONS	TABLED
24	NERS	481	DELETION		FA 2020		X		
27	NERS	580	DELETION		FA 2020		X		
30	NERS	585	DELETION		FA 2020		X		

33	NERS	579	MOD	Change of course number, removal of cross-listing, and removal of enforced prerequisites	FA 2020		X	Conditionally approved with CARF created for deletion of NERS 579 and CARF created for new NERS 585 course
36	ENGR	988	NEW	No changes to enforced prerequisites	FA 2020		X	Conditionally approved with grading basis changed from P/F to S/U
39	CHE	580	MOD	Course will just be offered as ENGR 580, which was previously the crosslisted department	FA 2020		X	
42	EER	610	NEW	Change to enforced prerequisites	FA 2020		X	Conditionally approved with grading basis changed from P/F to S/U



# 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: 2020-03-03  
 Effective Term: Fall 2020

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

**REQUESTED LISTING**

<input type="checkbox"/>	Dept (Home): Engineering Subject: ENGR Catalog: 110			Dept (Home): Engineering Subject: ENGR Catalog: 110		
<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) Design Your Engineering Experience			Course Title (full title) Design Your Engineering Experience		
<input type="checkbox"/>	Abbreviated Title (20 char) Des Your Engr Exp			Abbreviated Title (20 char) Des Your Engr Exp		
<input checked="" type="checkbox"/>	Course Description (Please limit to 50 words and attach separate sheet if necessary) In this elective course, you explore the breadth of opportunities available to engineers in both their education and their career. You will have a chance to explore the foundations of the field, and its influence on ourselves and the world we live in. You will learn about the engineering majors offered at Michigan, and the types of career paths available as an engineer. You will identify your own interests and goals, and discover the broader opportunities available through academic minors and co-curricular opportunities that align with your passions. And, you will actively incorporate this information into a plan for your educational experience in Michigan Engineering.					
<input checked="" type="checkbox"/>	Full Term Credit Hours Undergraduate Min: 2      Graduate Min: Undergraduate Max: 2      Graduate Max:			Half Term Credit Hours Undergraduate Min:      Graduate Min: Undergraduate Max:      Graduate Max:		
<input checked="" type="checkbox"/>	Course Credit Type Undergraduate Student					
<input type="checkbox"/>	Repeatability <input type="checkbox"/> Course is Repeatable for Credit Maximum number of repeatable credits:					
						<input type="checkbox"/> Course is Y graded <input type="checkbox"/> Can be taken more than once in the same term

Subject: Engineering Catalog: 110

<input checked="" type="checkbox"/>	<b>Grading Basis</b> <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	<b>Add Consent</b> <input type="checkbox"/> Department Consent <input type="checkbox"/> Instructor Consent <input checked="" type="checkbox"/> No Consent	<b>Drop Consent</b> <input type="checkbox"/> Department Consent <input type="checkbox"/> Instructor Consent <input checked="" type="checkbox"/> No Consent
	<b>Grading</b> <input type="checkbox"/> Not for Credit <input type="checkbox"/> Not for Degree Credit <input type="checkbox"/> Degree Credit Only		

**CURRENT LISTING**

**REQUESTED LISTING**

<input type="checkbox"/>	Advisory Prerequisite (254 char)	<input type="checkbox"/>	Advisory Prerequisite (254 char)
<input type="checkbox"/>	Enforced Prerequisite (254 char)	<input type="checkbox"/>	Enforced Prerequisite (254 char)
<input type="checkbox"/>	Minimum grade requirement:	<input type="checkbox"/>	Minimum grade requirement:
<input type="checkbox"/>	Credit Exclusions	<input type="checkbox"/>	Credit Exclusions

<input checked="" type="checkbox"/>	<b>Course Components</b> <input type="checkbox"/> Lecture <input type="checkbox"/> Seminar <input type="checkbox"/> Recitation <input type="checkbox"/> Lab <input checked="" type="checkbox"/> Discussion <input type="checkbox"/> Independent Study	<b>Graded Component</b> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	<b>Terms Typically Offered</b> <input checked="" type="checkbox"/> Fall <input checked="" type="checkbox"/> Winter <input type="checkbox"/> Spring <input type="checkbox"/> Summer <input type="checkbox"/> Spring/Summer
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Cognizant Faculty Member Name: Frank Marsik

Cognizant Faculty Member Title:

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

Contact Person: *Krista Quinn* Email: *KristaQu@umich.edu* Phone: *647-7114*

Curriculum Committee Member: \_\_\_\_\_ Print: \_\_\_\_\_ Date: \_\_\_\_\_

Curriculum Committee Chair: \_\_\_\_\_ Print: \_\_\_\_\_ Date: \_\_\_\_\_

Home Department Chair: *Fred L. Terry, Jr.* Print: *Fred L. Terry, Jr.* Date: *3/10/20*

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

In this elective course, you explore the breadth of opportunities available to engineers in both their education and their career. You will have a chance to explore the foundations of the field, and its influence on ourselves and the world we live in. You will learn about the engineering majors offered at Michigan, and the types of career paths available as an engineer. You will identify your own interests and goals, and discover the broader opportunities available through academic minors and co-curricular opportunities that align with your passions. And, you will actively incorporate this information into a plan for your educational experience in Michigan Engineering.

Class Length

Full term

Contact hours (lecture):

2

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

In this elective course, you explore the breadth of opportunities available to engineers in both their education and their career. You will have a chance to explore the foundations of the field, and its influence on ourselves and the world we live in. You will learn about the engineering majors offered at Michigan, and the types of career paths available as an engineer. You will identify your own interests and goals, and discover the broader opportunities available through academic minors and co-curricular opportunities that align with your passions. And, you will actively incorporate this information into a plan for your educational experience in Michigan Engineering.

Class Length

Full term

Contact hours (lecture):

2

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

Home dept

Describe how this course fits with the degree requirements:

Free Elective

ABET departmental program outcomes for undergraduate courses:

Not ABET accredited

Special resources of facilities required for this course:Supporting statement:

The updated description better describes the way the course is being taught.



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Phone: 734.763.2113  
Fax: 734.936.3148  
ro.curriculum@umich.edu  
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CHECK APPROPRIATE BOXES FOR ALL CHANGES

Action Requested

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

Date of Submission: 2020-02-07  
Effective Term: Winter 2021

<input checked="" type="checkbox"/>	Course Offered <input checked="" type="checkbox"/> Indefinitely <input type="checkbox"/> One term only	<b>NO USE ONLY</b> Date Received: Date Completed: Completed By:
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**CURRENT LISTING**

**REQUESTED LISTING**

<input checked="" type="checkbox"/>	Dept (Home): Subject: Catalog:	Dept (Home): Nuclear Engin & Radiolog Sci Subject: NERS Catalog: 201												
<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%;"> <thead> <tr> <th style="width: 25%;">Department</th> <th style="width: 25%;">Subject</th> <th style="width: 50%;">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%;"> <thead> <tr> <th style="width: 25%;">Department</th> <th style="width: 25%;">Subject</th> <th style="width: 50%;">Catalog Number</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	Department	Subject	Catalog Number			
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Department	Subject	Catalog Number												
<input checked="" type="checkbox"/>	Course Title (full title)	Course Title (full title) Survey of Nuclear Engineering and Radiological Sciences												
<input checked="" type="checkbox"/>	Abbreviated Title (20 char)	Abbreviated Title (20 char) Survey of NERS												
<input checked="" type="checkbox"/>	Course Description (Please limit to 50 words and attach separate sheet if necessary) An introduction to the fields of nuclear engineering and radiological sciences. Special emphasis is placed on emerging topics and research in fields of (i) fission systems and radiation transport, (ii) nuclear materials and radiation effects, (iii) radiation measurements and imaging, and (iv) plasmas and nuclear fusion.													
<input checked="" type="checkbox"/>	Full Term Credit Hours Undergraduate Min: 1      Graduate Min: Undergraduate Max: 1      Graduate Max:	Half Term Credit Hours Undergraduate Min:      Graduate Min: Undergraduate Max:      Graduate Max:												
<input checked="" type="checkbox"/>	Course Credit Type Undergraduate 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													



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

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<input type="checkbox"/> Independent Study	<input type="checkbox"/>																					
Cognizant Faculty Member Name: Kevin Field																						
Cognizant Faculty Member Title: Associate Professor																						

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

Contact Person: Michelle Sonderman      Email: mlwhit@umich.edu      Phone: 734-936-3130

Curriculum Committee Member:	Print:	Date:
Curriculum Committee Chair: <i>Won Sik Yang</i>	Print: <i>Won Sik Yang</i>	Date: <i>2/17/20</i>
Home Department Chair: <i>[Signature]</i>	Print: <i>TODD R ALLEN</i>	Date: <i>17 FEB 2020</i>
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 Description****Course Description**

An introduction to the fields of nuclear engineering and radiological sciences. Special emphasis is placed on emerging topics and research in fields of (i) fission systems and radiation transport, (ii) nuclear materials and radiation effects, (iii) radiation measurements and imaging, and (iv) plasmas and nuclear fusion.

**Class Length****Class Length**

Full term

**Contact hours (lecture):****Contact hours (lecture):**

1

**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:**

The course provides the general background and guidance on what it means to get an undergraduate degree within the NERS department including the job possibilities, emerging topics, and future course structures to obtain said degree. Thus, the course provides the foundational instruction necessary to attract and motivate students to fulfill the rigorous degree requirements within NERS.

**ABET departmental program outcomes for undergraduate courses:**

Not ABET accredited

**Special resources of facilities required for this course:****Supporting statement:**

This course has been provided as a 290 course for 5 semesters receiving generally positive course evaluation scores. Students have found the course informative and a viable tool to assess declaring NERS as their major. The course serves as a recruiting tool for non-majors as well as provides vital general background on the structure and operation of the NERS department and degree. Formalizing the course places the course in the same stature as other CoE departments include Aero's 285: Aerospace Engineering Seminar and CEE's 200: Introduction to Civil and Environmental Engineering.

**NERS290: Special Topics for Nuclear Engineering and Radiological Sciences  
Winter 2020**

<b>Instructor</b>	Prof. Kevin G. Field Associate Professor 2929 Cooley, <a href="mailto:kgfield@umich.edu">kgfield@umich.edu</a>
<b>Course Coordinator</b>	Michelle Sonderman Undergraduate Program Manager 1919 Cooley, <a href="mailto:mlwhit@umich.edu">mlwhit@umich.edu</a>
<b>Hours</b>	Tuesday 5:00 – 6:00 pm, G906 Cooley; Office hours upon request
<b>Readings</b>	N/A
<b>Outcomes</b>	By the end of this course you should be able to, among others: <ul style="list-style-type: none"> <li>• Explain the many possibilities for nuclear engineers in industry, academia, and government</li> <li>• Understand the NERS department structure and identify key faculty and staff</li> <li>• Evaluate the NERS course catalogue and identify potential future courses of interest</li> </ul>
<b>Materials</b>	When available, course lectures will be posted to Canvas.
<b>Activities</b>	The majority of the class meetings will consist of lectures from NERS faculty where they will try to cover (i) the kinds of career opportunities that exist for people who work in the speaker's technical area, (ii) other NERS faculty who work in this area, (iii) some UM courses that are relevant to this area, (iv) advice for students who are interested in the area and who need to make choices about courses or research opportunities (working in labs, summer internships, etc.). An additional industry panel discussion will be included.  There are no exams or quizzes. Grades will be determined based on class participation (100%) as evaluated by attendance. <i>Only 1 unexcused absence is allowed.</i>
<b>Honor Code Statement</b>	Attendance is reported individually by each student. It is expected that students will sign off for themselves only. Any evidence of behavior besides this expectation will be reported to the Honor Council.
<b>Students with Disabilities</b>	We are available to discuss appropriate academic accommodations that may be required for student with disabilities. Requests for academic accommodations are to be made during the first three weeks of the semester, except for unusual circumstances. Students are encouraged to register with Office of Students with Disabilities, G-664 Haven Hall, 763-3000, <a href="http://ssd.umich.edu/">http://ssd.umich.edu/</a> to verify their eligibility for appropriate accommodations.
<b>Diversity Statement</b>	All members of this class are expected to contribute to a respectful, welcoming and inclusive environment for every other member of the class. I consider this classroom to be a place where you will be treated with respect, and I welcome individuals of all ages, backgrounds, beliefs, ethnicities, genders, gender identities, gender expressions, national origins, religious affiliations, sexual orientations, ability – and other visible and nonvisible differences.

### NERS521 Winter 2020 TENTATIVE COURSE SCHEDULE

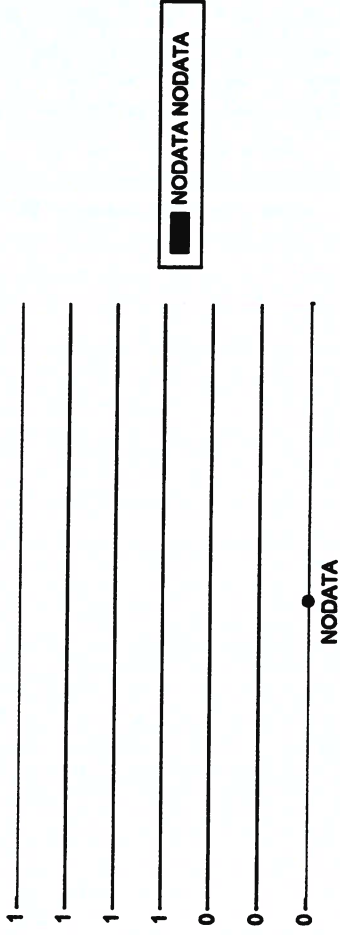
			Instructor
T	Jan 14	Intro to NERS & Beyond	Field
T	Jan 21	Fission I	Downer
T	Jan 28	Fission II	Manera
T	Feb 4	Fission III	Yang
<b>Block II</b>			
T	Feb 11	Measurements I	Jovanovic
T	Feb 18	Measurements II	Kearfott
T	Feb 25	Measurements III	Pozzi
T	March 3	<b>No class – Spring Break</b>	
<b>Block III</b>			
T	March 10	Materials I	Gao
T	March 17	Materials II	Atzmon
T	March 24	Materials III	Was
<b>Block IV</b>			
T	March 31	Plasmas I	McBride
T	April 7	Industry Panel	Assorted
T	April 14	Plasmas II	Thomas/Kuranz
T	April 21	Plasmas III	TBD



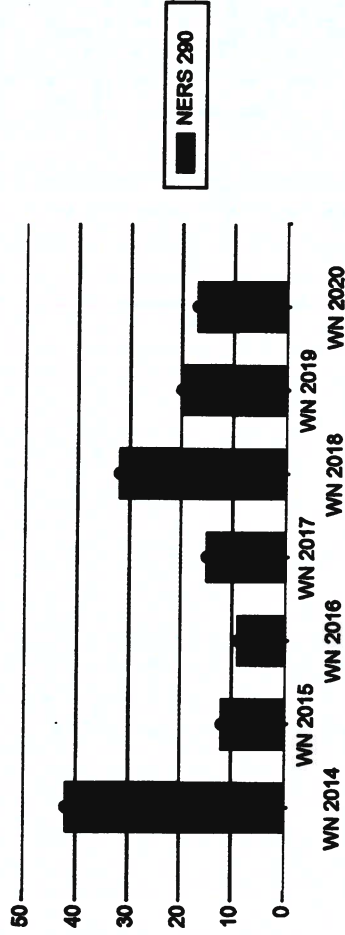
**NERS 290: Total Enrollment For 2270,2220,2170,2120,2070,2020,1970**

Term	Subject	Catalog Nbr	Total Enrollment	Enrollment Cap
WN 2020	NERS	290	17	70
WN 2019	NERS	290	20	70
WN 2018	NERS	290	32	70
WN 2017	NERS	290	15	70
WN 2016	NERS	290	9	70
WN 2015	NERS	290	12	70
WN 2014	NERS	290	42	70

**Total Enrollment For Fall Semesters Trends**



**Total Enrollment For Winter Semesters Trends**





University of Michigan  
 Winter 2020 Midterm Instructor Report With Comments  
 NERS 290-001: Special Topics NERS  
 Kevin Field

7 out of 17 students responded to this midterm evaluation.

**Responses to questions related to the course:**

	SA	A	N	D	SD	N/A	Median
I had a strong desire to take this course. (Q4)	4	3	0	0	0	0	4.6
This course advanced my understanding of the subject matter. (Q1631)	4	1	2	0	0	0	4.6
My interest in the subject has increased because of this course. (Q1632)	4	2	1	0	0	0	4.6
I knew what was expected of me in this course. (Q1633)	6	1	0	0	0	0	4.9
Work requirements and grading system were clear from the beginning. (Q232)	5	1	0	0	0	1	4.9
I am learning a great deal in this course. (Q966)	4	1	2	0	0	0	4.6
The amount of work required so far appears to be appropriate for the credit being received. (Q971)	6	1	0	0	0	0	4.9

**Responses to questions related to the instructor:**

	SA	A	N	D	SD	N/A	Median
Kevin Field is enthusiastic. (Q114)	4	1	1	1	0	0	4.6
Overall, this is an excellent course. (Q964)	4	2	1	0	0	0	4.6
Overall, Kevin Field is an excellent teacher. (Q965)	4	0	2	0	0	1	4.8
Kevin Field gives clear explanations. (Q967)	3	1	2	0	0	1	4.5
Kevin Field acknowledges all questions insofar as possible. (Q968)	3	1	2	0	0	1	4.5
Kevin Field uses class time well. (Q969)	3	1	1	0	0	2	4.7
Kevin Field seems well-prepared for each class. (Q970)	2	1	3	0	0	1	3.5
Kevin Field uses techniques to foster class participation. (Q972)	2	0	2	1	0	2	3.3
Kevin Field is teaching in a manner that serves my needs as a student. (Q974)	2	0	3	0	0	2	3.3
Kevin Field is willing to meet and help students outside class. (Q975)	1	1	2	0	0	3	3.5
Kevin Field keeps students informed of their progress. (Q977)	2	0	3	0	0	2	3.3
Kevin Field sets high standards for students. (Q978)	2	1	3	0	0	1	3.5

## Written Comments

**What are the major strengths of this class? What is helping you to learn? (Q979)**

Comments

It's really fun meeting the NERS faculty

Getting to tour labs is really informative, especially when we can talk to students who work there

**How can Kevin Field improve this class? If possible, give specific examples. (Q980)**

Comments

N/A

**Please enter any additional comments you have for Kevin Field. (Q981)**

Comments

N/A