

ENGINEERING OUTREACH

UNIVERSITY OF IDAHO CATALOG | SPRING 2020

eo.uidaho.edu



University
of Idaho

Professional Online Education



ENGR Alexa Aguilar

Visit Our Website!

eo.uidaho.edu

Cover photo: Campus winter scenery

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GET STARTED!

Visit our Get Started web page at eo.uidaho.edu/get-started for a list of steps to take before classes begin. You will find detailed information about the topics listed below and more.

CALENDAR

See the Engineering Outreach (EO) Calendar for important dates and deadlines for registration, graduation, course completion, and holidays at eo.uidaho.edu/calendar.

Courses begin January 15, 2020.

ADMISSION

EO students must be admitted to the University of Idaho. Visit our website for information about admission options at eo.uidaho.edu/admission.

REGISTRATION

Students register using VandalWeb with their NetIDs and passwords. Students will need the course registration number (CRN) to successfully register. For detailed instructions, visit our website at eo.uidaho.edu/registration.

SPRING 2020 FEES

Students registering for courses delivered by EO pay a per credit fee. Fees include registration and online access but exclude textbooks and software. Payment in full is expected at the time of registration and must be received by the 10th day of class to avoid late fees. The current fees can be found on our website at eo.uidaho.edu/fees. Fees are subject to change by the Board of Regents of the University of Idaho; refer to our website for current fee information.

COURSE DELIVERY

Course sessions are recorded in Engineering Outreach high-definition (HD) studio classrooms on the University of Idaho campus. If fees are paid in full or a payment plan is established, students can access their course sessions and materials in the EO Portal on the first day of class by using their NetIDs and passwords. For more information, visit our website at eo.uidaho.edu/delivery.

EXAMS AND PROCTORS

Exams are distributed electronically to EO approved proctors. Proctor selection and approval must be completed by the first day of classes. For more information and for our preapproved proctor maps, visit our website at eo.uidaho.edu/exam-process.

COURSE COMPLETION

The EO course completion deadline for Spring 2020 is May 15, 2020 at 3 p.m. Pacific Time. Proctors will be able to access final exams for live courses during finals week. Proctors will have access to all exams for pre-encoded courses at the beginning of the semester. It is critical students coordinate closely with their proctors to ensure final exams reach EO by the deadline.

ENGINEERING OUTREACH

Spring 2020 Courses

SPRING TERM:

January 15 – May 15 (16 weeks)

Registration Deadline: January 29

Visit eo.uidaho.edu/courses for the most current course information.

CRN COURSE # TITLE

BUSINESS

72384	MHR 513	Leadership and Organizational Behavior
72373	OM 456	Quality Management

CIVIL AND ENVIRONMENTAL ENGINEERING

74107	CE 404-SD	ST: Seismic Design
74520	CE 422	Hydraulic Structures Analysis and Design
62208	CE 431	Design of Water and Wastewater Systems I
72801	CE 441	Reinforced Concrete Design
74521	CE 445	Matrix Structural Analysis
69847	CE 484	Engineering Law and Contracts
74108	CE 504-SD	ST: Seismic Design
71017	CE 511	Design of Water and Wastewater Systems I
74106	CE 542	Advanced Design of Steel Structures
72316	CE 545	Matrix Structural Analysis
69113	CE 546	Finite Element Analysis
71341	CE 575	Advanced Pavement Design and Analysis

COMPUTER SCIENCE

72346	CS 420	Data Communication Systems
74250	CS 444	Supervisory Control and Critical Infrastructure Systems
74176	CS 452	Real-Time Operating Systems
65447	CS 520	Data Communication Systems
74249	CS 544	Supervisory Control and Critical Infrastructure Systems
74182	CS 552	Real-Time Operating Systems
74183	CS 578	Neural Network Design

ELECTRICAL AND COMPUTER ENGINEERING

69095	ECE 210	Electrical Circuits I
74102	ECE 211	Electrical Circuits I Lab*
69097	ECE 212	Electrical Circuits II
74103	ECE 213	Electrical Circuits II Lab *
66367	ECE 310	Microelectronics I
74515	ECE 329	Background Study in Energy Systems
74105	ECE 349	Background Study in Digital Logic
66555	ECE 404-FW	ST: Fundamentals of Wireless Communication
73457	ECE 404-MC	ST: Modern Circuit Synthesis Algorithms
60237	ECE 410	Microelectronics II
74430	ECE 415	Analog Integrated Circuit Design
74329	ECE 419	Image Sensors and Systems

CRN COURSE # TITLE

56928	ECE 420	Energy Systems II
62748	ECE 422	Power Systems Analysis
56542	ECE 427	Power Electronics
70682	ECE 430	Microwave and Millimeter Wave Circuits
69220	ECE 444	Supervisory Control and Critical Infrastructure Systems
71513	ECE 452	Communication Systems
74109	ECE 455	Information and Coding Theory
72330	ECE 462	Semiconductor Theory
74111	ECE 465	Introduction to Microelectronics Fabrication
68424	ECE 504-FW	ST: Fundamentals of Wireless Communication
70689	ECE 504-MC	ST: Modern Circuit Synthesis Algorithms
74431	ECE 515	Analog Integrated Circuit Design
74328	ECE 516	Image Sensors and Circuits
62236	ECE 524	Transients in Power Systems
69221	ECE 544	Supervisory Control and Critical Infrastructure Systems
58934	ECE 562	Semiconductor Theory
74122	ECE 565	Introduction to Microelectronics Fabrication
74118	ECE 571	Estimation Theory for Signal Processing, Communications and Control
74184	ECE 578	Neural Network Design

ENGINEERING MANAGEMENT

61703	EM 510	Engineering Management Fundamentals
71395	EM 582	Advanced Topics in Project Management

ENGINEERING - GENERAL

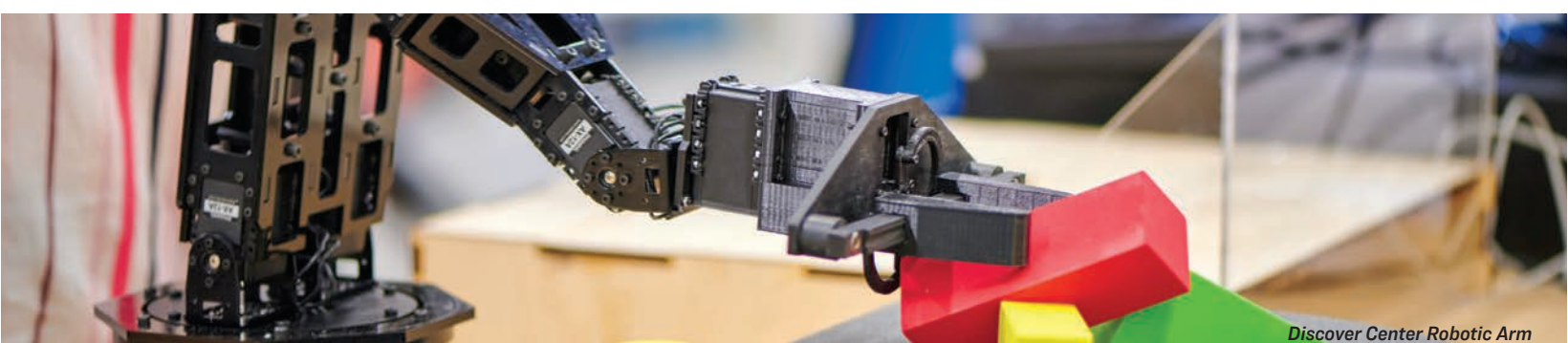
74488	ENGR 210	Engineering Statics
74441	ENGR 240	Introduction to Electrical Circuits
74516	ENGR 360	Engineering Economy
68136	ENGR 428	Numerical Methods

GEOLOGICAL ENGINEERING

69111	GEOE 407	Rock Mechanics
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MATHEMATICS

65255	MATH 123	Math in Modern Society
61583	MATH 160	Survey of Calculus***
51928	MATH 170	Calculus I***
53279	MATH 175	Calculus II***
72385	MATH 176	Discrete Mathematics
63060	MATH 215	Proof via Number Theory
55190	MATH 275	Calculus III
46380	MATH 310	Ordinary Differential Equations



Discover Center Robotic Arm

Courses are 3 credits unless indicated *1 Credit Course **2 Credit Course ***4 Credit Course



2020

CRN	COURSE #	TITLE
44402	MATH 330	Linear Algebra
72386	MATH 386	Theory of Numbers
68069	MATH 388	History of Mathematics
49771	MATH 390	Axiomatic Geometry
46381	MATH 420	Complex Variables
48089	MATH 426	Discrete Optimization
68139	MATH 428	Numerical Methods
68090	MATH 430	Advanced Linear Algebra
46502	MATH 451	Probability Theory
50177	MATH 452	Mathematical Statistics
50243	MATH 461	Abstract Algebra I
46389	MATH 462	Abstract Algebra II
50087	MATH 471	Introduction to Analysis I
46391	MATH 472	Introduction to Analysis II
71734	MATH 480	Partial Differential Equations
73460	MATH 521	Topology I
73462	MATH 528	Differentiable Manifolds
72387	MATH 529	Numerical Methods
74226	MATH 557	Ring Theory
74216	MATH 559	Algebraic Number Theory
73466	MTHE 513	Problem Solving Through History
74217	MTHE 516	Groups and Symmetry

MATERIALS SCIENCE AND ENGINEERING

74116	MSE 432	Fundamentals of Thin Film Fabrication
74119	MSE 437	Radiation Effects on Materials
70644	MSE 537	Radiation Effects on Materials

MECHANICAL ENGINEERING

74285	ME 322	Mechanical Engineering Thermodynamics
74240	ME 404-MD	ST: Mechanics of Design and Manufacturing
74301	ME 404-SD	ST: Sustainable Design and Manufacturing
72468	ME 412	Gas Dynamics
69141	ME 414	HVAC Systems
74227	ME 417	Turbomachinery
74241	ME 504-MD	ST: Mechanics of Design and Manufacturing
68199	ME 504-SD	ST: Sustainable Design and Manufacturing
60317	ME 514	HVAC Systems
74237	ME 517	Turbomachinery
46371	ME 540	Continuum Mechanics
69137	ME 549	Finite Element Analysis

NUCLEAR ENGINEERING

74120	NE 437	Radiation Effects on Materials
74121	NE 537	Radiation Effects on Materials

STATISTICS

46400	STAT 251	Statistical Methods
48689	STAT 301	Probability and Statistics
72345	STAT 419	Intro to SAS/R Programming
63063	STAT 422	Sample Survey Methods
68091	STAT 431	Statistical Analysis
48093	STAT 451	Probability Theory
50422	STAT 452	Mathematical Statistics
63065	STAT 456	Quality Management
63067	STAT 519	Multivariate Analysis
66305	STAT 550	Regression

TECHNOLOGY MANAGEMENT

74110	INDT 404-IS	ST: Industrial Sustainability Analysis
73625	TM 504-IS	ST: Industrial Sustainability Analysis
68140	TM 510	Technology Management Fundamentals

JANUARY							FEBRUARY						
S	M	T	W	T	F	S	S	M	T	W	T	F	S
			1	2	3	4							1
5	6	7	8	9	10	11	2	3	4	5	6	7	8
12	13	14	15	16	17	18	9	10	11	12	13	14	15
19	20	21	22	23	24	25	16	17	18	19	20	21	22
26	27	28	29	30	31		23	24	25	26	27	28	

MARCH							APRIL						
S	M	T	W	T	F	S	S	M	T	W	T	F	S
										1	2	3	4
1	2	3	4	5	6	7	5	6	7	8	9	10	11
8	9	10	11	12	13	14	12	13	14	15	16	17	18
15	16	17	18	19	20	21	19	20	21	22	23	24	25
22	23	24	25	26	27	28	26	27	28	29	30		
29	30	31											

MAY							JUNE						
S	M	T	W	T	F	S	S	M	T	W	T	F	S
					1	2		1	2	3	4	5	6
3	4	5	6	7	8	9	7	8	9	10	11	12	13
10	11	12	13	14	15	16	14	15	16	17	18	19	20
17	18	19	20	21	22	23	21	22	23	24	25	26	27
24	25	26	27	28	29	30	28	29	30				
31													

JULY							AUGUST						
S	M	T	W	T	F	S	S	M	T	W	T	F	S
			1	2	3	4							1
5	6	7	8	9	10	11	2	3	4	5	6	7	8
12	13	14	15	16	17	18	9	10	11	12	13	14	15
19	20	21	22	23	24	25	16	17	18	19	20	21	22
26	27	28	29	30	31		23	24	25	26	27	28	29
							30	31					

SEPTEMBER							OCTOBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S
			1	2	3	4				1	2	3	
6	7	8	9	10	11	12	4	5	6	7	8	9	10
13	14	15	16	17	18	19	11	12	13	14	15	16	17
20	21	22	23	24	25	26	18	19	20	21	22	23	24
27	28	29	30	31			25	26	27	28	29	30	31

NOVEMBER							DECEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5	6	7			1	2	3	4	5
8	9	10	11	12	13	14	6	7	8	9	10	11	12
15	16	17	18	19	20	21	13	14	15	16	17	18	19
22	23	24	25	26	27	28	20	21	22	23	24	25	26
29	30						27	28	29	30	31		

■ = University holiday ■ = Closed to the public



University of Idaho



Engineering Outreach
College of Engineering
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875 Perimeter Drive MS 1014
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Contact Us

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Local: (208) 885-6373
Fax: (208) 885-6165
Email: eo-support@uidaho.edu

EO Portal for Course Materials and Exams

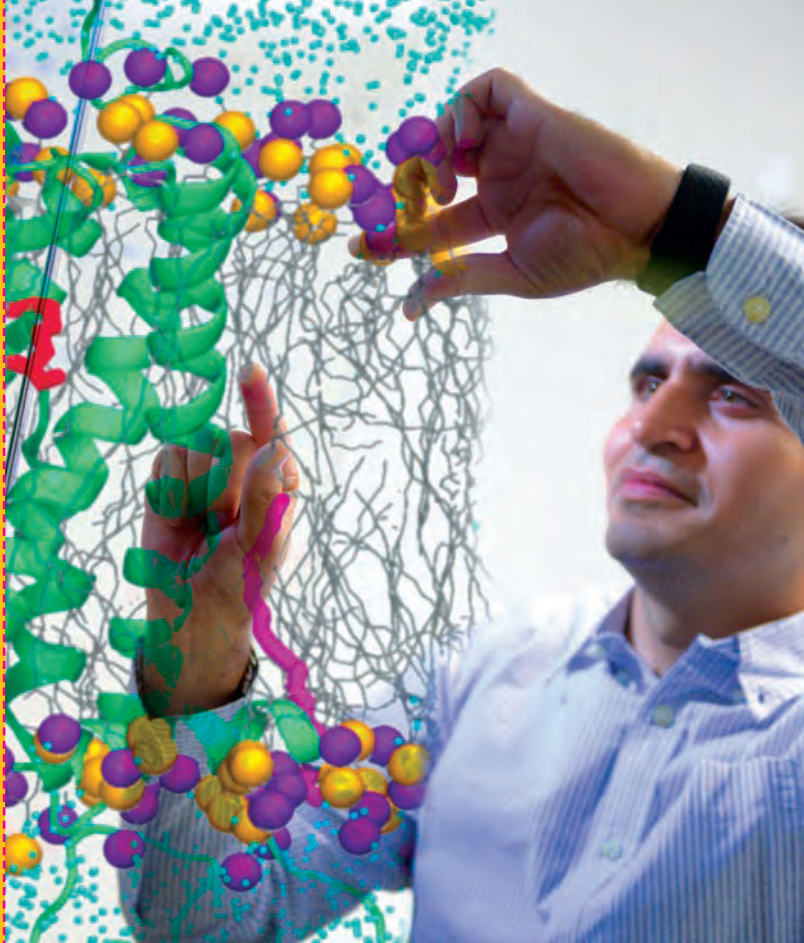
eo.uidaho.edu/portal

Visit Our Website

eo.uidaho.edu

View a Sample Session

eo.uidaho.edu/demo



Quality Programs... Online Delivery!

- Engineering Outreach (EO) offers complete graduate degrees, academic certificates, and coursework that may be transferred for credit in engineering and related fields.
- EO is an established distance education program with over 40 years of experience delivering courses to off-campus students.
- The University of Idaho is regionally accredited by the Northwest Commission on Colleges and Universities (NWCCU) and is a member of the Association of Public Land Grant Universities (APLU).
- More than 95 percent of EO students complete their courses.
- EO is approved by the U.S. Department of Veterans Affairs (VA) for U.S. military students.
- U of I's engineering graduate programs are supported by undergraduate degree programs that are accredited by the Engineering Accreditation Commission of ABET: <http://www.abet.org>.
- Course sessions are encoded in high definition (HD) and are accessible online through a secure portal within two hours of being recorded on campus.
- More than 70 continually updated courses are delivered each fall and spring semester (fewer during the summer).
- EO offers personalized academic support services with a responsive staff committed to meeting the educational needs of our students.



Computer Science CDA



ENGINEERING OUTREACH

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875 Perimeter Drive MS 1014
Moscow, ID 83844-1014

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ENGINEERING OUTREACH

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Master's Degree Programs

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- **Civil Engineering**
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- **Computer Science**
- csinfo@uidaho.edu
- **Computer Engineering**
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- **Technology Management**
- enr-tm@uidaho.edu
- **Geological Engineering**
- cee@uidaho.edu
- **Statistical Science**
- stat@uidaho.edu
- **Teaching Mathematics**
- math@uidaho.edu

Non-Degree Coursework

- Professional Development
- STEM Coursework
- Transfer Credits

Focus Areas

- Business/Accounting
- Materials Science and Engineering
- Nuclear Engineering

Academic Certificates

- Analog Integrated Circuit Design
- Power System Protection and Relaying
- Process and Performance Excellence
- Secure and Dependable Computing Systems
- Statistics

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