Spring 2022 Supplement and Course Offerings List

Vol20no2.4 (January2022)

Information Contained in this Document

1) Course Tips & Info and Catalog Supplement (courses new to catalog for 2021-22 or special topics)
2) Cross-Registration Deadlines
3) Course Offerings List (you can also search here: Course Browser)
4) Course Offerings Grid

General Registration Instructions and FAQs, please visit our Registrar's web page.

Registration Timelines for Add; Drop and Pass/No Credit ; Withdraw

Session	Add	Drop and Pass/No Credit	Withdraw
Full Semester (Jan 20 – May 2)	February 2, 2022	April 1, 2022	May 2, 2022
Session I (Jan 20 – Mar 9)	January 26, 2022	February 23, 2022	March 9, 2022
Session II (Mar 10 – May 2)	March 23, 2022	April 19, 2022	May 2, 2022

Cross-Registration Deadlines

	Babson	Brandeis	Wellesley
Cross-registration open period	11/15/2021 – 1/25/2021 at 4:30 p.m.	11/15/2021– 1/31/2022	11/15/2021 – 2/4/2022 at 11:59 p.m.
First day of classes	1/18/2022	1/18/2022	January 24, 2022
Drop deadline	2/1/2022 at 4:30 p.m.	4/4/2022	February 18, 2022 at 11:59 p.m.

Questions? Contact the Registrar's Office at registrar@olin.edu.

Course Tips & Curriculum Info: NEWS you need to KNOW

January 2022 Update:

Cancelled course:

ENGR2199D: Special Topics in Engineering
Adaptive Recreation

December 2021 Update

Courses added

ENGR2199D: Special Topics in engineering: Adaptive Recreation (NEW course!)

Adaptive Recreation, is being added by Jeff Dusek as an Engineering elective. This will be offered Tues/Fri 10-11:30am. This course could be an option for those who are interested in design/build type courses, those interested in assistive technology, and mechanically/robotics minded folks. Review the course FLYER for more information.

Finite Element Analysis, 4 credits, taught by Chris Lee.

"Need four more credits? | Love computational fun? | This class is for you!"

This counts for the elective requirement for the ME major and anyone who has completed ENGR 2320 Mechanics of Solids and Structures. It will be offered Tues/Fri 12-1:30 pm.

Cancelled course:

ENGR3399-01/MTH3199-01: Special Topics in Mechanical Engineering
Mechanical Engineering Experiential Practicum (MEEP!)

Experimental Curriculum Opportunities
This spring 2022, we have 3 large scale projects that are available.
STEP – information is HERE
Sustainability: Science, Society, and Systems – see course description
~~***MEEP!*** – see course description~~

UOCD is now called CD as in Collaborative Design!

We have changed the name of UOCD to CD, from User Oriented Collaborative Design to just Collaborative Design. Rest assured, this is the same UOCD course students have been taking, but the course and the curriculum around it have evolved so much that the name is no longer representative and can even cause confusion. For example, students address a much wider gamut of design experiences and stakeholders than the term user encompasses. Also, now that User Experience Design (UXD) is a regular part of the curriculum, the similar sounding names have been unclear. Finally, as we continue to evolve the course, the new name gives us more room for where we are headed without misrepresenting to students what the experience is about. The change was made in consultation with many faculty, students, staff, and alums. There is much more to say, so feel free to connect with Benjamin Linder if you want to know more.

ENGR2199C: Special Topics in Engineering
Fabrication lab – Mech Proto
Instructor: Daniela Faas
Credits: 1

Prerequisite: Mech Proto
Offered: Mondays (only) 10-11:30am; MAC128

This course is designed for students who were enrolled in SP20 ENGR2330 or SP21 ENGR2199C and missed out on the hands-on fabrication portion in Mech Proto due to covid. The course will include one team design project and will develop machine shop fabrication techniques and building physical prototypes in the Olin Shop.

Note for Capstone Registrations – ADE, EEC and SCOPE

- For students interested in taking ADE as their capstone, the process for registration has changed. Please select ENGR4290 and add yourself to the waitlist ***if you are a first-time capstone enrollee***. Students who will be completing their ADE capstone in the spring will be preregistered by the Registrar's Office.
- The waitlist for capstone will be managed by the faculty involved in the capstone program. If you are not selected for ADE capstone as a 2nd semester junior you will have an option to do the design depth (if you have not taken it before).
- Please DO NOT enroll yourself in ENGR3290 (design depth) if you are putting yourself on the waitlist for ENGR4290.
- EEC and SCOPE students from the fall will be preregistered for spring.

Note for First-years

All first-year students will be preregistered for QEA and Products and Markets.

Waitlists for Courses with Two Numbers

If you want to join a waitlist for Astrostats (MTH2136 and SCI2136), Data Science (ENGR3531 and MTH2131), or Decision Making in Sustainable Systems (MTH2188A and SCI2099A), please email registrar@olin.edu after your registration period. We will maintain a waitlist as the system does not allow waitlists for connected courses.

Degree requirements are outlined in the course catalog: http://olin.smartcatalogiq.com/2021-22/Catalog
Course descriptions can also be found in the catalog and in the portal course browser. New, highlighted, and Special Topics course descriptions are listed below.

New and Special Topics Course Descriptions

GCSP Course Changes

The course previously called *Change the World: Personal Values, Global Impacts, and Making an Olin GCSP* has been split into two courses and renamed. *Understand Your World: Pluralism, Paradigms, and Perspectives* is now a 2-credit, session 1 course; *Understand Your World: Society and Self* is now a 2-credit, session 2 course. As before, there are no prerequisites for these courses, both use EG grading and offer AHS credit, both are eligible for inclusion in AHS Concentrations, and you can enroll in either one individually or in both. The two instructors (Rob Martello and Alison Wood) will work closely together in codesigning and coordinating the courses and each will be a frequent guest star in the other's course. Taking *Society and Self* will meet the requirements to graduate as a Grand Challenges Scholar. Seniors who cannot take the course and want to graduate as Grand Challenges Scholars should contact Alison Wood.

AHSE2199-01: Topics in Arts, Humanities, and Social Sciences
Understand Your World: Pluralism, Paradigms, and Perspectives
Instructor: Rob Martello
Credits: 2
Hours: 4-0-8

Registration notes: AHS elective. Session I. Experimental grading. See note above.

Pluralism, Paradigms, and Perspectives. These terms describe different ways of understanding how we engage with the world. In this class we will take on three broad goals: learn about present-day change efforts and evaluate ways that individuals and groups carry their principles into actions; identify the world views that we hold and challenge ourselves to be open to different ways of seeing; and articulate our own values and goals in search of answers to the question "what do I hope to achieve and how can I make this happen?" This class will involve a combination of daily readings and in-class discussions paired with longer-term projects. Students will have many opportunities to shape their experience, and we will work together to identify ways to make this class better for future students. The course offers two AHS credits, lasts one half the semester, and will use the EG (experimental grading) system.

AHSE2199A-01: Topics in Arts, Humanities, and Social Sciences
Understand Your World: Society and Self
Instructor: Alison Wood
Credits: 2

Registration notes: AHS elective. Session II. Previously offered as "Change the World". Experimental grading.

"Who am I and how do I fit into something larger?" That's the core question of this course. As individuals and engineers, how might we better understand our societies and our selves -- and each find our place within the larger whole? In this new 2+2 version of The Class Formerly Known as Change the World, we will continue to explore connections between our selves and our communities, and further evolve Olin's work related to ethics, values, and critical reflections. As part of Olin's GCSP, this course aims to help students leverage their educational experiences and participation in the school's community to galvanize lifelong learning and community participation.

CIE2122S-01: Curricular Innovation Experiment
Sustainability: Science, Society, and Systems
Faculty: Jon Stolk, Jean Huang, Rob Martello
Credits: 8
Hours: 4.5-2-18

Registration notes: 8 credits flexibly allocated among SCI, AHS, and ENGR. This course meets the first requirement in the E:Sustainability concentration.

Prerequisites: first-year fall classes

Climate change. Resource depletion. Social and economic inequities. Ecological destruction. We humans have had a marked impact on the world, and we face enormous sustainability challenges as a result of our actions. Grasping and addressing these challenges requires a collaborative and interdisciplinary approach that integrates a deep understanding of the causes and consequences of problems with a critical awareness of how large-scale social, economic, and technological systems often promote unsustainable behaviors and outcomes.

By integrating natural science, social science, humanities, and engineering, this class provides an introduction to concepts and tools that are useful for understanding sustainability holistically, developing responsible solution strategies, and situating ourselves within the dynamic web of complex systems. The course design combines in-class discussions and activities with project-based experiences and laboratory experimentation. We will use historical and contemporary case studies to explore a range of topics that intersect and influence sustainability, such as economics, ethics, social and environmental justice, health, policy and regulation, technology, and culture. We will dive into laboratory and project work to develop practical skills, enable self-directed exploration, and apply analytical and design methods. Self and group reflection activities will help us build awareness of our own values, beliefs, and biases, and develop our sustainability identities. The course is new and intentionally experimental in its curriculum and pedagogy: and we will work together to adjust, adapt, and refine the experience as we go along.

This course meets the first requirement in the E:Sustainability concentration.

CIE2122P-01: Curricular Innovation Experiment
Social Technology Enterprise with Purpose (STEP)
Faculty: Alessandra Ferzoco, Sam Michalka, Paul Ruvolo
Credits: 12

Registration note: Experimental grading. Credit areas variable; see google doc linked below.

STEP will be a highly interdisciplinary experience in which students and faculty work as teammates on a project that combines user-centered design, wearable computing, and machine learning to create technology that intends to make a positive impact in the world. Please get the full story from STEPping towards graduation: STEP and your graduation requirements.

ENGR2199-01: Special Topics in Engineering:
Engineering Systems Analysis
ENGR2199A-01: Special Topics in Engineering:
Engineering Systems Analysis: Dynamics
ENGR2199B-01: Special Topics in Engineering:
Engineering Systems Analysis: Signals

The **Engineering Systems Analysis** courses are designated alternatives for ENGR 2410 Signals and Systems or ENGR 2340 Dynamics.

- These courses are scheduled so that students may take all three courses (for a total of 6 credits).
- ME majors must take both ENGR 2199 and 2199a;
- ECE majors must take both ENGR 2199 and 2199b, to satisfy their respective core course requirements.
- Engineering majors may take ENGR 2199 alone or with one or both of ENGR 2199a/b as part of their plan of study or for engineering credit.

ENGR2199-01: Special Topics in Engineering:
Engineering Systems Analysis
Instructors: Diana Dabby, Chris Lee
Credits: 2 ENGR
Hours: 4-0-8

Registration notes: Session I. Required course for ME and ECE students.

Engineering Systems Analysis involves building, developing, and practicing process-based quantitative analysis skills in the broad area spanning linear analysis of engineering systems. Concepts such as linearization, equilibrium, and stability will be applied to study dynamic response of electrical and mechanical systems in both the time and frequency domains through time-integration, transfer function, and state-space analysis. Ideas from feedback control are introduced. Coursework and projects will involve examples from robotics, communication systems, or aircraft/spacecraft.

ENGR2199A-01: Special Topics in Engineering:
Engineering Systems Analysis: Dynamics
Instructors: Chris Lee, Diana Dabby
Credits: 2 ENGR
Hours: 4-0-8

Pre-requisite: ENGR 2199 Engineering Systems Analysis
Registration notes: Session II. Required for ME majors. The combination of ENGR2199-01 and ENGR2199A-01 is a designated alternative for ENGR2340 Dynamics.

This half-course extends material from the first half-semester to focus on the derivation, analysis, and simulation of translational and rotational equations of motion for particles and rigid bodies in 3D using physics-based models.

ENGR2199B-01: Special Topics in Engineering:
Engineering Systems Analysis: Signals

Instructors: Diana Dabby, Chris Lee
Credits: 2 ENGR
Hours: 4-0-8

Pre-requisite: ENGR 2199 Engineering Systems Analysis
Registration notes: Session II. Required for ECE majors. The combination of ENGR2199-01 and ENGR2199B-01 is a designated alternative for ENGR2410 Signals and Systems.

As a half-course, Engineering Systems Analysis: Signals extends material from the first half-semester to focus on fundamental concepts from linear systems such as frequency response, impulse response, and system identification. The course introduces sampling and aliasing, as well as discrete-time linear operators, transforms, and filtering.

ENGR3399-01/MTH3199-01: Special Topics in Mechanical Engineering
Mechanical Engineering Experiential Practicum (MEEP!)
Instructors: Jeff Dusek, Chris Lee
Credits: 4 ENGR + 2 MTH for a total of 6 credits

Concurrent requisites: student must sign up for both ENGR3399-01 and MTH3199
Prerequisites: Junior or senior standing or permission of instructors

MEEP is about giving students practical experience in applying quantitative modeling, simulation, and analysis to projects similar in form and extent to those that they will work on in the real world. We will *build upon and integrate fundamental skills and knowledge from the core ME courses* through techniques to break down complex problems into measurable, modelable, and testable sub-systems, and there will be opportunities to go into depth in selected topic areas.

This semester, the two primary projects involve an off-grid solar furnace and bicycles. The solar furnace is the product of a Native American, non-profit organization that builds and installs low-cost, renewable supplemental heating systems. We will be quantifying performance to determine design changes to maximize the furnace's efficiency. In the second project, we'll apply and compare analyses (which incorporate experimental measurements) ranging from hand calculations to finite element simulations to characterize and evaluate the performance of bicycles with specific focus on their frames.

Here are selected topics that will be reviewed and/or extended: heat transfer (conduction, convection, radiation), fluid mechanics (internal flow, drag/lift), thermodynamics (energy flow, efficiency), solid mechanics (3D states stress/strain, nonlinear materials), vibrations (natural frequencies/mode shapes, multi-dof systems, dynamic instability, impact), finite element analysis (methods, application of SolidWorks/ANSYS), math, lots of math (linear PDEs, systems of ODEs, vector calc-div, grad, curl, linear algebra-eigenvalue/eigenvectors!), and experimental design.

ENGR3599-SL: Special Topics in Computing
Advanced Algorithms
Student instructors: Audrey Lee, Shirin Kuppusamy, Shashank Swaminathan
Faculty advisors: Allen Downey (content), Rob Martello (pedagogy)
Credits: 4 ENGR

Prerequisite: Discrete Math. DSA (faculty or student led) recommended but not required.

Advanced Algorithms will provide an in-depth look into certain advanced algorithms that are beyond the scope of a traditional data structures and algorithms course. The topics this course would cover are: network flow, linear programming, NP-completeness, heuristic algorithms, integer programming, SAT, and approximation algorithms. Throughout this course students will: develop and iterate on an approach to solving software engineering problems, learn to communicate and collaborate on advanced algorithm application and implementation, understand why specific advanced algorithms are used, and effectively and efficiently solve problems by using advanced algorithms.

MTH2188-01/SCI2099-01: Designated Alternative in Mathematics/Special Topics in Science
Decision Making in Sustainable Systems
Instructor: Alison Wood
Credits: 2MTH + 2SCI

Registration notes: must register for both parts. Satisfies ProbStat requirement.

This class will introduce you to a variety of quantitative decision-making systems and metrics, such as benefit-cost analysis and risk assessment, to supplement the technical and entrepreneurial decision-making tools you learn elsewhere throughout our curriculum.

You'll also learn about ways that our purely quantitative decision tools fall short of representing the real world and when they are still useful ("all models are wrong…"), and we'll explore some of the reasons that decision-making is so complicated.

Decision-making content will be situated in the context of complex systems and we'll return, throughout, to the decision objective of reaching sustainable outcomes (for contextually appropriate definitions of "sustainable"). The semester will center on how we can ultimately make decisions in a world of tradeoffs, taking advantage of widely used tools along with recognition of systemic complexity, context, and the messiness of human nature.

SCI1299-01: Foundation Biology Topics with lab
Biomes, Biodiversity and Climate Change (BCB)
Instructor: Helen Donis-Keller
Credits: 4 SCI
Hours: 4-3-5

Registration notes: satisfies bio foundation requirement OR may be taken as an E:SUST elective

Biology, by definition, is the study of life. In this course we will travel from the biosphere to the molecular level as we learn about how life works and the intersections between global warming and the resultant changes to climate that affect all organisms that inhabit planet Earth. Student experience will preference hands-on project-based learning including an experiential learning opportunity in the biology laboratory, in the kitchen laboratory learning how to prepare nutritious meatless meals, and there may be opportunities for fieldwork. There will be several student designed projects that encourage creativity and depth of understanding of topics of interest. Basic principles of genetics, evolution and molecular biology will form a framework for comprehensive understanding and from which biodiversity will be studied and biomes understood. Appreciation for the diversity and kinship of all living organisms is one important outcome and it also requires that all of us understand the obligation to stewardship of the earth through efforts to mitigate climate change and make room for wildlife. This course is for anyone interested in the sustainability of our planet from the perspective of biology. As such the course content is inextricably linked to topics such as environmental justice, agricultural practices, and human population growth. This course will fulfill the biology requirement, or it can be used as an E: Sustainability concentration elective.

Area	Course #	Sect #	Course Title	Instructor / Teaching Team	Time	Location: MAC (unless noted otherwise)	Credits	Enroll Limits	Waitlist	Notes	Curriculum Role
AHS	AHSE0112	01	AHSE0112: The Olin Conductorless Orchestra	Dabby, Diana	R 6-8:00pm	318 326 328	1	no cap	N/A		AHS
AHS	AHSE2112	01	AHSE2112: Six Books that Changed the World	Martello, Rob	MR 12-1:30pm	126	2	28	5	Session II; 2 credits	AHS
AHS	AHSE2131	01	AHSE2131: Responsive Drawing and Visual Thinking	Donis-Keller, Helen	TF 2-3:30pm	313	4	14	5		AHS
AHS	AHSE2155	01	AHSE2155: Constructing and Performing the Self	Adler, Jon	TR 11:30am-1:00pm	Babson Blackbox Theater	4	6	10	Joint course w Babson scheduled Tues/Thurs 11:30-1pm Blackbox theatre	AHS
AHS	AHSE2170	01	AHSE2170: Teaching and Learning in Undergraduate Science and Engineering	Zastavker, Yevgeniya	T 2-5:00pm	417	4	14	5		AHS
AHS	AHSE2199	01	AHSE2199: Special Topics in Arts, Humanities, Social Science: Understand Your World: Pluralism, Paradigms, and Perspectives	Martello, Rob	MR 2-3:30pm	326	2	24	4	Session I; 2 credits; in the 'space of' GCSP; **Experimental Grading**	AHS
AHS	AHSE2199A	01	AHSE2199A: Special Topics in Arts, Humanities, Social Science: Understand Your World: Society and Self	Wood, Alison	MR 2-3:30pm	326	2	25	10	Session II; 2 credits; formerly "Change the World"; **Experimental Grading**	AHS
AHS	AHSE3190	01	AHSE3190: Arts, Humanties, Social Science Capstone Preparatory Workshop	Epstein, Gillian	NA	N/A	1	N/A	N/A		AHS
AHS	AHSE4190	01	AHSE4190: AHS Capstone Project	Epstein, Gillian	M 9-11:30am	Library	4	25	N/A		AHS
CAPSTONE	ENGR4190	01	ENGR4190: SCOPE: Senior Capstone Program in Engineering	Ferzoco, Alessandra; Hersey, Scott; Townsend, Jessica; Woodard, Jason	W 9:00am-6:00pm F 8-10:00am	varied	4	90	N/A	Students will be pre-registered based on FA21 enrollment	CAPSTONE
CAPSTONE	ENGR4290	01	ENGR4290: Affordable Design and Entrepreneurship Engineering Capstone	Graeff, Erhardt; Hersey, Scott; Johanson, Elizabeth; Linder, Ben; Taha, Kofi	T 3:30-6:30pm R 3:30-5:30pm	Weissman Foundry	4	15	N/A		CAPSTONE
CAPSTONE	ENGR4599	01	ENGR4599: Engineering Capstone Alternative: Entrepeneurial Engineering Capstone	Harris, Scott; Miller, Scott	W 1-5:00pm	304	4	N/A	N/A	Students will be pre-registered based on FA21 enrollment	CAPSTONE
DSN	ENGR2250	01-03	ENGR2250: Collaborative Design	Bloomer, Sarah; Chachra, Deb; del Rosario, Zachary; Koff, Daniel; Linder, Ben; Zastavker, Yevgeniya	MR 12-2:30pm	204 206 209 213	4	32	5	formerly UOCD	DESIGN Fnd
DSN	ENGR3210	01	ENGR3210: Sustainable Design	Linder, Ben	MR 10-11:30am	213	4	30	15		DESIGN Dpth
DSN	ENGR3220	01	ENGR3220: User Experience Design	Morales, Marco	MR 6:30-8:00pm	113	4	32	10		DESIGN Dpth

Area	Course #	Sect #	Course Title	Instructor / Teaching Team	Time	Location: MAC (unless noted otherwise)	Credits	Enroll Limits	Waitlist	Notes	Curriculum Role
DSN	ENGR3240	01	ENGR3240: Tell the Story of What You Make	Ferguson Sauder, Tim	MR 12-2:30pm	417	4	25	10		DESIGN Dpth
DSN	ENGR3290	01	ENGR3290: Affordable Design and Entrepreneurship	Graeff, Erhardt; Hersey, Scott; Johanson, Elizabeth; Linder, Ben; Taha, Kofi	T 3:30-6:30pm R 3:30-5:30pm	Weissman Foundry	4	15	15		DESIGN Dpth
E:C	ENGR2510	01-03	ENGR2510: Software Design	Graeff, Erhardt; Matsumoto, Steve; Millner, Amon	MR 12-1:30pm	318 326 328	4	24	15		Core E:C/Core ECE
E:C	ENGR3520	01	ENGR3520: Foundations of Computer Science	Pucella, Riccardo	M 4-7:00pm	328	4	30	5		Core E:C
E:C	ENGR3525	01	ENGR3525: Software Systems	Matsumoto, Steve	TF 10-11:30am	326	4	40	15		Core E:C
E:C	ENGR3599	SL	ENGR3599-SL: Special Topics in Computing: Advanced Algorithms	Downey, Allen (content advisor); Lee, Audrey; Kuppusamy, Shirin; Swaminathan, Shashank	MF 2:30-4:00pm	318	4	30	5	student led course	E:C ELECTIVE
E:ROBO	ENGR3390	01	ENGR3390: Fundamentals of Robotics	Barrett, Dave	TF 10-11:30am	128	4	24	10		Core E:Robo/ME Elective
E:ROBO	ENGR3392	01	ENGR3392: Robotics Systems Integration	Malley, Melinda	TF 2-3:30pm	326	4	24	5		Core E:Robo/ME Elective
ECE	ENGR2420	01	ENGR2420: Intro Microelectronic Circuits with laboratory	Minch, Brad	TR 6:30-8:00pm T 4-5:30pm	309	4	30	5		Core ECE
ECE	ENGR3440	01	ENGR3440: Principles of Wireless Communication	Lohmeyer, Whitney	MW 6:30-8:00pm	306	4	no cap	10		ECE Elective
ENGR	ENGR1330	01	ENGR1330: Fundamentals of Machine Shop Operations	Andruskiewicz, Bruce	W 1-5:00pm	Machine Shop	4	6	6		ELECTIVE
~~ENGR~~	~~ENGR2199D~~	~~01~~	~~ENGR2199D: Special Topics in Engineering: Adaptive Recreation~~	~~Dusek, Jeff~~	~~TF 10-11:30am~~	~~126~~	~~4~~	~~20~~	~~10~~	Cancelled	~~ELECTIVE~~
ENTRP	AHSE1515	01	AHSE1515: Products and Markets	Bloomer, Sarah; Neeley, Lawrence; Sauder, Tim; Wood, Alison	MR 9-11:30am	304 318 326 328	4	92	N/A		ENTRP Fnd
ENTRP	AHSE2515	01	AHSE2515: Iterate	Ger, Donald	MR 2-3:30pm	328	2	12	5	Session I; 2 credits	ENTRP
ENTRP	AHSE2515A	01	AHSE2515A: Iterate	Ger, Donald	MR 2-3:30pm	328	2	12	5	Session II; 2 credits	ENTRP

Area	Course #	Sect #	Course Title	Instructor / Teaching Team	Time	Location: MAC (unless noted otherwise)	Credits	Enroll Limits	Waitlist	Notes	Curriculum Role
FYR	ENGR1125	01	ENGR1125: Introduction to Sensors, Instrumentation and Measurement	Dusek, Jeff; Minch, Brad; Tow, Emily; Vanasupa, Linda	MR 2-3:30pm	428	4	25	5		Required ENGR
FYR	ENGR1125	02	ENGR1125: Introduction to Sensors, Instrumentation and Measurement	Dusek, Jeff; Minch, Brad; Tow, Emily; Vanasupa, Linda	MR 4-5:30pm	428	4	25	5		Required ENGR
FYR	ENGR1125	03	ENGR1125: Introduction to Sensors, Instrumentation and Measurement	Dusek, Jeff; Minch, Brad; Tow, Emily; Vanasupa, Linda	TF 10-11:30am	428	4	25	5		Required ENGR
FYR	ENGR1125	04	ENGR1125: Introduction to Sensors, Instrumentation and Measurement	Dusek, Jeff; Minch, Brad; Tow, Emily; Vanasupa, Linda	TF 2-3:30pm	428	4	25	5		Required ENGR
Interdisciplinary	CIE2122P	01	CIE2122P: Social Technology Enterprise with Purpose (STEP)	Ferzoco, Alessandra; Michalka, Sam; Ruvolo, Paul	MR 9-11:30am	218	12	24	10	**Experimental Grading**	TBD / Interdisciplinary - Talk to us about crediting
Interdisciplinary	CIE2122S	01	CIE2122S: Sustainability: Science, Society, and Systems	Stolk, Jon; Huang, Jean; Martello, Rob	TF 10-1:30pm	404 406 413 417	8	40	5	This 8 credit course will have a flexible credit allocation, where students pick any two of: 4SCI for bio foundation, 4SCI for chem/matsci/env foundation, 4AHS for AHS elective, 4ENGR to count for the E:Sust intro course.	Core E:Sust, BIO
Interdisciplinary	ENGR2199	01	ENGR2199: Special Topics in Engineering: Engineering Systems Analysis	Lee, Chris; Dabby, Diana	TF 2-3:30pm	113 126	2	55	8	Session I; 2 credits	CORE ECE/ME
Interdisciplinary	ENGR2199A	01	ENGR2199A: Special Topics in Engineering: Engineering Systems Analysis: Dynamics	Lee, Chris	TF 2-3:30pm	113	2	no cap	N/A	Session II; 2 credits	Core ME
Interdisciplinary	ENGR2199B	01	ENGR2199B: Special Topics in Engineering: Engineering Systems Analysis: Signals	Dabby, Diana	TF 12-1:30pm	304	2	no cap	N/A	Session II; 2 credits	Core ECE
Interdisciplinary	ENGR3531_ MTH2131	01	ENGR3531_MTH2131: Data Science	Downey, Allen	TR 4-5:30pm	318	2+2	30	N/A		ProbStat
Interdisciplinary	ENGX2005	01	ENGX2005: Quantitative Engineering Analysis 2	del Rosario, Zachary; Geddes, John; Malley, Melinda	TF 12-1:30pm	113 126 128	4	92	N/A		Required ENGR
Interdisciplinary	MTH2136_S CI2136	01	MTH2136_SCI2136: AstroStats	Nugent, Carrie	MR 10-11:30am	MH120	2+2	35	8		ProbStat
Interdisciplinary	MTH2188_S CI2099	01	MTH2188_SCI2099: Designated Alternative in Mathematics/Special Topics in Science: Decision Making in Sustainable Systems	Wood, Alison	TR 4-5:30pm	113	2+2	30	10		ProbStat
ME	ENGR2199C	01	ENGR2199C: Special Topics in Engineering: Fabrication Lab - Mech Proto	Faas, Daniela	M 10-11:30am	128	1	20	10		ELECTIVE
ME	ENGR2330	01	ENGR2330: Introduction to Mechanical Prototyping	Faas, Daniela	W 12-1:30pm (lecture)	MH 120	4	20	10	Students must enrolled in ENGR2330 01 either ENR2330 L lab A or B	ELECTIVE

Area	Course #	Sect #	Course Title	Instructor / Teaching Team	Time	Location: MAC (unless noted otherwise)	Credits	Enroll Limits	Waitlist	Notes	Curriculum Role
ME	ENGR2330 L	A or B	ENGR2330: Introduction to Mechanical Prototyping	Faas, Daniela	Lab A: M 2-3:30pm Lab B: W 2-3:30pm	128	n/a	20	10	students must enrolled in either lab A or B and ENGR 2330 01	ELECTIVE
ME	ENGR3310	01	ENGR3310: Transport Phenomena	Tow, Emily	TF 12-1:30pm	326	4	48	N/A		Core ME
ME	ENGR3350	01	ENGR3350: Finite Element Analysis	Lee, Chris	TF 12-1:30pm	328	4	20	10		ME ELECTIVE
ME	ENGR3370	01	ENGR3370: Controls	Barragan, Patrick	T 7:00-10:00pm	326	4	48	N/A		ME Elective/ECE Elective
~~ME~~	~~ENGR3399_ MTH3199~~	~~01~~	~~ENGR3399_MTH3199: Special Topics in Mechanical Engineering: Mechanical Engineering Experiential Practicum (MEEP!)~~	~~Dusek, Jeff; Lee, Chris~~	~~MR 10-11:30am T 12-1:30pm~~	~~MR 126 T 328~~	~~4+2~~	~~no cap~~	~~N/A~~	Cancelled	~~ME Elective/ ADV ME Math~~
MTH	MTH3120	01	MTH3120: Partial Differential Equations	Geddes, John	TF 2-3:30pm	304	4	25	5		ADV MATH
SCI	SCI1230	01	SCI1230: Think Like a Biologist w/ laboratory	Huang, Jean	MR 10-11:30am (lecture) M 4-6:30pm (lab)	417 406	4	24	5		Biology Fnd
SCI	SCI1299	01	SCI1299: Foundation Biology Topics w/ lab: Biomes, Climate Change, and Biodiversity (BCB)	Donis-Keller, Helen	TF 12-1:30pm (lecture) W 2-5:00pm (lab)	318 406	4	16	5	new course; developed for the E:Sust program; satisfies E:Sust credit OR Foundation Biology	Biology Fnd or E:SUST Elective
SCI	SCI1320	01	SCI1320: Paper Pancea: Part I w/ laboratory	Vanasupa, Linda	MW 6:30-8:30pm	409 413 417	4	32	10		MATSCI_CHEM _ENV Engr
ADMIN	AWAY1000	01	AWAY1000: The Study Away Program	Administration	N/A	N/A	4	N/A	N/A	Enroll in this course if you will be studying away in the spring 2022 semester	
ADMIN	OIP1000	01	The Olin Internship Practicuum I	Phelps, Sally	N/A	N/A	1	N/A	N/A	See Post Graduate Planning to Enroll	
ADMIN	OIP1001	01	The Olin Internship Practicuum II	Phelps, Sally	N/A	N/A	1	N/A	N/A	See Post Graduate Planning to Enroll	

Color Key- Offering Blocks/ Del Mode	ECE	ME	ENGR / DSN Courses	ENGR/Foundation Requirement		
	Monday		**Tuesday**		**Wednesday**	
8:00 AM						
9:30 AM	AHSE1515 Products & Markets 9-11:30am MAC304/318/326/328	AHSE4190 AHS Capstone M: 9-11:30am Library				
10:00 AM		ENGR2199C : Fabrication lab - Mech Proto MAC128	ENGR3210 Sustainable Design MAC213	MTH 2136& SCI 2136 Astro Stats MH120	CIE2122P Social Tech Enterprise w/ Purpose (STEP) 9-11:30 MAC 218	SCI1230 Think Like a Biologist Lecture MAC417
11:30 AM						
12:00 PM	ENGR 2250 sections 01, 02, & 03 Collaborative Design 12-2:30pm MAC204/206/209/213	ENGR3240 Tell the Story of What You Make 12-2:30pm MAC417	ENGR 2510 sections 01, 02 & 03 Software Design MAC318/326/328	Session II AHSE 2112 Six Books that Changed the World MAC126		
1:30 PM						
2:00 PM	ENGR 1125 sections: 01 Intro Sensors, Instru, Measurement MAC 428	Session I AHSE 2515 Iterate MAC328 Session II AHSE 2515A Iterate MAC328	ENGR2330 L Lab A Intro Mechanical Prototyping MAC128	Session I AHSE 2199: Understand Your World: Pluralism, Paradigms and Perspectives MAC326 Session II AHSE2199A: Understand Your World: Society & Self MAC326	ENGR3599-SL Advanced Algorithms Mon/Fri 2:30-4pm MAC318	
3:30 PM						
4:00 PM	ENGR 1125 sections: 02 Intro Sensors, Instru, Measurement MAC 428			SCI 1230 Think Like a Biologist M 4-6:30pm Lab MAC 406	ENGR3520 Foundations of Computer Science M 4-7pm MAC 328	
5:30 PM						
6:30 PM	ENGR 3440 Principles of Wireless Communication MAC 306	ENGR 3220 User Experience Design MAC 113	SCI 1320 Paper Panacea: Part I MAC 409/413/417 MW 6:30-8:30pm			
8:00 PM						

Color Key- Offering Blocks/ Del Mode	ECE	ME	ENGR / DSN Courses	ENGR/Foundation Requirement		
	Monday		**Tuesday**		**Wednesday**	
8:00 AM						
9:30 AM						ENGR 4190 SCOPE 9-6pm
10:00 AM			ENGR1125 sections: 03 Intro Sensors, Instru, Measurement MAC 428	ENGR 3525 Software Systems MAC326	ENGR 3390 Fundamentals of Robotics MAC128	CIE2122S Sustainability: Science, Society and Systems MAC404/406/413/417
11:30 AM						
12:00 PM			ENGX2005 Quantitative Engineering Analysis 2 MAC113/126/128	ENGR3350 Finaite Element Analysis MAC328	Session II ENGR 2199B ESA: Signals MAC304	ENGR 3310 Transport Phenomena MAC326
1:30 PM						
2:00 PM			ENGR 1125 sections: 04 Intro Sensors, Instru, Measurement MAC 428	MTH 3120 Partial Differential Equations MAC304	ENGR 3392 Robotics Systems Integration MAC128	Session I ENGR2199 Engr Systems Analysis (ESA) MAC 113/126 Session II ENGR2199A: ESA: Dynamics MAC113
3:30 PM						
4:00 PM			ENGR 3290 & 4290 Affordable Design & E! T 3:30-6:30pm R 3:30-5:30pm	ENGR 3531 and MTH 2131 Data Science Tues/Thurs MAC318	MTH2188_SCI2099 Decision Making in Sustainable Systems MAC113	ENGR2420 Intro Microelectronic Circuits w/ Lab MAC309
5:30 PM						
6:30 PM			ENGR 3370 Controls Tues 7-10pm MAC 326			ENGR2420 Intro Microelectronic Circuits w/ Lab MAC309
8:00 PM						

Color Key- Offering Blocks/ Del Mode	ECE	ME	ENGR / DSN Courses	ENGR/Foundation Requirement		
	Monday		**Tuesday**		**Wednesday**	
8:00 AM						
9:30 AM						
10:00 AM					Academic Life Mtgs 10-11:30am	
11:30 AM						
12:00 PM				AHSE 2155 Constructing and Performing the Self Tues/Thurs 11:30am-1pm Babson: Blackbox	ENGR2330 01 Intro Mechanical Prototyping Lecture MH 120	
1:30 PM						ENGR 4599 Engineering Capstone Alternative W: 1-5pm MAC304
2:00 PM				AHSE 2131 Responsive Drawing and Visual Thinking MAC313	AHSE2170 Teaching and Learning MAC417 Tues:2-5pm	ENGR2330 L Lab B Intro Mechanical Prototyping MAC128
3:30 PM						SCI 1299 Found Bio: Biomes, Climate Change, and Biodiversity (BCB) Lab 2pm-5:00pm MAC 318/406
4:00 PM						ENGR1330 Fundamentals of Machine Shop Operations W: 1-5pm
5:30 PM						
6:30 PM					ENGR 3440 Principles of Wireless Communication MAC306	SCI 1320 Paper Panacea: Part I MAC409/413/417 MW 6:30-8:30pm
8:00 PM						

AHSE | **SCI** | **Math** | **INTEGRATED OFFERING (colored via discipline blending)** | Color Key-Offering Blocks

Thursday

AHSE 1515
Products & Markets
9-11:30am
MAC304/318/326/328

ENGR 3210
Sustainable Design
MAC213

MTH 2136& SCI 2136
Astro Stats
MH120

SCI 1230
Think Like a Biologist
Lecture
MAC417

CIE2122P
Social Tech Enterprise w/ Purpose (STEP)
9-11:30
MAC 218

ENGR 2250 sections 01, 02, & 03
Collaborative Design
12-2:30pm
MAC204/206/209/213

ENGR3240
Tell the Story of What You Make
12-2:30pm
MAC417

ENGR 2510 sections 01, 02 & 03
Software Design
MAC318/326/328

Session II
AHSE 2112 Six Books that Changed the World
MAC126

AHSE 2155
Constructing and Performing the Self
Tues/Thurs 11:30am-1pm
Babson: Blackbox

ENGR 1125 sections: 01
Intro Sensors, Instru, Measurement
MAC 428

Session I
AHSE 2515 Iterate
MAC328

Session II
AHSE 2515A Iterate
MAC328

ENGR233003
Lab
Intro Mechanical Prototyping
MAC128

Session I
AHSE 2199: Understand Your World: Pluralism, Paradigms and Perspectives
MAC326

Session II
AHSE2199A: Understand Your World: Society & Self
MAC326

ENGR 3290 & 4290
Affordable Design & E!
T 3:30-6:30pm
R 3:30-5:30pm
Graeff, Hersey, Johanse, Linder, Taha

ENGR 1125 sections: 02
Intro Sensors, Instru, Measurement
MAC 428

ENGR 3531 and MTH 2131
Data Science
Tues/Thurs
MAC318

MTH2188_SCI2099
Decision Making in Sustainable Systems
MAC113

AHSE 0112
Olin Conductorless Orchestra
R 6:00-8pm
MAC318/326/328

ENGR2420
Intro Microelectronic Circuits w/ Lab
MAC309

ENGR 3220
User Experience Design
MAC 113

Friday

ENGR 4190
SCOPE
8-10am

CIE2122S
Sustainability: Science, Society and Systems
MAC404/406/413/417

ENGR 1125 sections: 03
Intro Sensors, Instru, Measurement
MAC 428

ENGR3525
Software Systems
MAC326

ENGR 3390 Fundamentals of Robotics
MAC128

ENGX2005
Quantitative Engineering Analysis 2
MAC113/126/128

Session II
ENGR 2199B ESA: Signals
MAC304

ENGR3350
Finaite Element Analysis
MAC328

ENGR 3310
Transport Phenomena
MAC326

SCI 1299
Found Bio: Biomes, Climate Change, and Biodiversity (BCB)
MAC318

ENGR 1125 sections: 04
Intro Sensors, Instru, Measurement
MAC 428

MTH 3120
Partial Differential Equations
MAC304

ENGR 3392
Robotics Systems Integration
MAC128

Session I
ENGR2199 Engr Systems Analysis (ESA)
MAC 113/126

Session II
ENGR2199A: ESA: Dynamics
MAC113

ENGR 3599-SL
Advanced Algorithms
Mon/Fri 2:30-4pm
MAC318

AHSE 2131
Responsive Drawing and Visual Thinking
MAC313

Community Time

8:00 AM
9:30 AM
10:00 AM
11:30 AM
12:00 PM
1:30 PM
2:00 PM
3:30 PM
4:00 PM
5:30 PM
6:30 PM
8:00 PM