

Fall 2019 Supplement and Course Offerings List

(vol18, no1.4, rev August 27, 2019)

Information Contained In this Document

- 1) Schedule of Deadlines
- 2) Cross-Registration Deadlines and Instructions
- 3) Course Tips & Curriculum Info and Catalog Supplement (courses new to catalog for 2019-20 or special topics)
- 4) Course Offerings List (you can also search this here: [Course Search](#))
- 5) Course Offerings Grid
- 6) Tentative Spring 2020 Courses

For General Registration Information and FAQs, please visit our [web page](#).

Schedule of Deadlines for Add; Drop and Pass/No Credit ; Withdraw

Session	Add	Drop and Pass/No Credit	Withdraw
Full Semester (Aug 29 – Dec 6)	September 12, 2019	November 1, 2019	December 6, 2019

Cross-Registration Deadlines To find cross-registration instructions, click [here](#).

	Babson	Brandeis	Wellesley
Cross-registration open period	4/16/2019 – 9/11/2019 at 4:30 p.m.	7/17/2019 – 9/11/2019	4/22/2019 – 9/13/2019 at 11 p.m.
First day of classes	9/4/2019	8/28/2019	9/3/2019
Drop deadline	9/11/2019 at 4:30 p.m.	10/15/2019	9/27/2019 at 11 p.m.

Questions? Contact the Registrar's Office at Olin College, Campus Center, Room 320; registrar@olin.edu 781-292-2340

Course Tips & Curriculum Info – in random order

16 – Sixteen -16 – Sixteen, did we mention 16?

Your faculty-advising-registrar-StAR friends want to stress that taking a maximum of 16 credits (4 courses) of degree work creates optimal learning during an academic semester. It also provides space to explore, independent studies, research, passionate pursuits, student activities, academic clubs, teams, and so much more! Please consider enrolling in a maximum of 16 credits during your registration period.

Design Depths – We have many!

In the fall, there are 5 offerings for design depths. They are: 1) Affordable Design and Entrepreneurship, 2) Tell the Story of What You Make, 3) User Experience Design, 4) Design for Manufacturing, 5) Introduction to Immersive Experience Design. Also, keep in mind that in the spring, there will be at least 3 as well. You can find our tentative listing of spring course offerings in this booklet.

Biology Foundation

For 2019-20, we will have 1 section of foundational biology in the fall and 1 section in the spring. Additionally, we will be offering 1 advanced biology in the fall and 1 advanced biology in the spring. Olin's updated policy about our foundational biology requirement: *If you've taken an AP, IB or equivalent biology class you are eligible to place into an advanced biology class and use it to satisfy the biology foundation requirement. If you are unsure if you meet the "equivalent" criteria, contact Joanne Pratt.*

Physics Foundation – Final Offering – if you need it, take it in the fall

We will be offering the last of our stand-alone Physics foundation courses this fall 2019 semester. The course: SCI1199: Contemplating Science: Educational Context and Ethics satisfies the requirement of an Olin physics foundation. In the future, this requirement will continue to be met via the content in the sequence Quantitative Engineering Analysis courses. (note: At this point in time, we do not anticipate running foundational physics offerings on a regular basis after fall 2019. There is always a chance a faculty member will want to offer something in the physical science space, but certainly not in a regular rotation.)

"Probability and Statistics" – What are my choices?

Once again, we are diversifying our probability and statistics offerings. This fall semester, we have two choices and both are new. They are listed below and both have descriptions further in this booklet.

- 1) Carrie Nugent's 2nd iteration of AstroStats! MTH2136/SCI2136
- 2) Paul Ruvolo's (with Sam Michalka) Machine Learning course – 2 sections available! MTH2188A/ENGR3599A

We also plan on at least two additional Prob/Stat topics in the spring semester. You can find our tentative listing of spring courses in this booklet.

Discrete Math – two sections; two grade types

There are two sections of Discrete mathematics. They will BOTH count toward your major. However, before you enroll, you should be 100% clear as to how 'EG: experimental grading' works. The [EG Grading POLICY](#) is #7 in the grading list in the catalog. You can also reach out to Professor Sarah Spence Adams with any questions.

Looking for an ME or ECE elective?

Linda Vanasupa is running a special topics course in Renewable Energy. This course is an approved ME or ECE elective for those majoring in mechanical or electrical and computer engineering. The course may also be a great fit in your self-design major. Check out the course description contained later in this document.

Robotics Courses – where are they?

We will be offering Robotics Systems Integration and Fundamentals of Robotics in the spring 2020 semester.

Dynamics and Signals and Systems – where are they?

These two courses will be incorporated into a new course in the spring 2020 semester. They are being redesigned as a result of the content explored in Quantitative Engineering Analysis I and II.

Sustainability Certificate Program

Now may be the perfect time to get started on the 3 Colleges BOW Sustainability Certificate. The Intro course is being offered this fall and provides an invaluable way to connect with students at Babson and Wellesley around the topic of sustainability. You do not have to enroll in the certificate to take the course, but you may want to! You can find more information [HERE](#).

GCSP – Grand Challenge Scholars Program – is having a SEMINAR!

Alison Wood is running a 1 credit seminar on Monday mornings about GCSP. You can read more about this offering in the later pages of this document.

Wellesley College – new scheduling pattern for the future, beginning Fall 2019

We have been informed by Wellesley College that their scheduling pattern has been revamped. If you are interested in Wellesley classes, please read their [ANNOUNCEMENT](#).

Cross Disciplinary Research

The cross disciplinary research course will not be available in the fall 2019 semester.

Catalog Supplement

Degree requirements are outlined in the [Course Catalog](#)

Course descriptions can also be found in the catalog and in the portal course search. New, highlighted, and Special Topics course descriptions are listed below.

Topics Courses

AHSE1199-01: Arts, Humanities, Social Science Foundation

Writers' Workshop: Creativity and the Literary Imagination

Instructors: Lynch, Taaffe

Credits: 4 AHS

Registration note: AHS FOUNDATION; restricted to first year students

This class explores what it means to be human through the lens of literature and creative writing. We will explore the craft of fiction (by reading and writing) in order to make sense of the world around us and to develop ourselves as writers. We will consider how writing fits into our lives, identities, and aspirations. Strong writing is a skill that can be developed through ongoing experimentation, regular practice, helpful feedback, and revision. And, to understand writing and get better at it, you have to do it. We will set personal writing goals and strategies for achieving them. We will support each other in achieving personal goals, and we'll all celebrate our work at the end of the semester. Our goal is to create a supportive community of writers at Olin, people for whom writing is something to be approached with an open mind and sense of possibility. The wider context for the class is the notion of understanding people in order to do engineering "for the good of the world" (which is in Olin's founding precepts!). All first year students are welcome in this class. No prior creative writing experience necessary.

Fall 2019: We're going to use the challenge of National Novel Writing Month (NaNoWriMo) to become better writers. We will explore what novels are, and how to develop characters, plot, dialogue, and sense of place. And we will each write a (short) novel! We will spend September and October getting ready, and then during the 30 days of November, we will write.

AHSE1199-02: Arts, Humanities, Social Science Foundation

Infrastructure Studies

Instructor: Chachra

Credits: 4 AHS

Registration note: AHS FOUNDATION; restricted to first year students

We live our lives embedded in systems that help take care of many of our basic needs, as well as some that are not so basic: warmth (or cooling), clean water, hygiene, and communications. At the same time, these systems provide the technological context for our engineering work. But we rarely notice infrastructure until something goes wrong. In this course, we'll investigate the systems that surround us, including water, sewage, electricity, telecommunications, transport, and more. We'll start thinking more broadly about infrastructure, asking questions like "what makes a system 'infrastructure', and why?". To do this, we'll draw from a wide range of fields and materials, from scholarly essays to videogames. And we'll consider our collective future: how might we make infrastructural systems more sustainable, resilient, and equitable? By the end of the semester, you will have a new awareness and understanding of these systems that underpin our lives and engineering work, and you will have the opportunity to document and share your own exploration of these systems.

ENGR2199-01: Special Topics in Engineering

Small Satellite Lab 1

Instructor: Lee

Credits: 4 ENGR

Hours: 4-0-8

Do you want to design, build, and test a satellite that will be launched into space? This is exactly what we'll be doing during the next academic year as part of the ThinSat program. Our ThinSat (approximate dimensions 11 x 11 x 1.25 cm and mass 280 g) has a specific NASA-sponsored mission related to the tracking of orbital debris. Project work will involve all aspects of the satellite including mechanical and mechanism design, embedded programming, sensor measurements, data transmission and communication, environmental testing, and systems integration. Related background and content will be covered as needed.

ENGR2299-01: Special Topics in Design Engineering:

Creativity Practicum

Instructors: Hendren, Sauder

Credits: 4 ENGR

Hours: 4-0-8

*Registration note: Design Elective; may be taken **BEFORE** UOCD*

A combination of Foundational Aesthetics and Mixed Media Studio in which students explore and develop an aesthetic vocabulary and voice through immersion, experience of place, hands-on making, presentation through multiple mediums and research of art history. This will be a studio course in which students wrestle with multiple materials and mediums to create work that facilitates their own sensory processing of the world around them as well as external-facing work created for communication with an outside audience.

Creativity Practicum is an introductory seminar and experiential, project-based on-ramp to understanding creative and expressive practices in the arts and design. Students will learn basic design principles and basic aesthetic theories; they will also gain vocabulary for understanding and evaluating the work of cultural forms (visual arts, literature/poetry, performing arts, graphic design, and more). With experiments and projects across multiple forms of media—visual, audio, digital, and performative—students will leave with a working vocabulary and wide exposure to the fine arts and design.

ENGR3199-01: Special Topics in Engineering:

Renewable Energy

Instructor: Vanasupa

Credits: 4 ENGR

Hours: 4-0-8

Prerequisite: all first year required courses.

Co-requisite: math at the level of QEAll or Lin II

Registration note: May count as ECE or ME elective

One of the most significant challenges facing the people of the world is access to safe, affordable, sustainable power. Primary sources of renewable energy include solar photovoltaic, solar thermal, geothermal, hydroelectric and wind. In this class, we will explore the fundamental functioning and engineering implementation of renewable energy sources, including discussion of the grid and storage technologies (batteries) to mitigate intermittency. A systems-level exploration of emerging understanding and future opportunities for designing the impact of renewable energy technology on human populations, economic, social and political power structures will be included as an integral part of this class.

ENGR3299: Special Topics in Design Engineering

Introduction to Immersive Experience Design

Instructor: Pearson

Credits: 4 ENGR

Prerequisite: ENGR 2250

Registration notes: *Design Depth*

The course is geared towards beginners, with or without previous experience in performing arts, who are interested in exploring the medium of immersive, site-specific, design and performance to create powerful experiences. The curriculum explores methods for creating, designing, directing, and performing in non-traditional formats and ways of crafting meaningful, resonant, and engaging audience experiences. Participants will attend and view a curated selection of immersive theater experiences and will have a hands-on and active involvement in the course, where they will work together in a collaborative environment that fosters experimentation and discourse. The course describes big concepts by doing, by putting students in the active roles of performer, designer, and director through a series of scenarios and using a grab bag of tools and exercises. Students with strong interest in theater, game design, user experience design, sound design, creative and generative practices, and interactive narrative forms are strongly encouraged to enroll, but this course will provide meaningful engagement with immersive experience design for any student.

ENGR3599A/MTH2188A: Special Topics in Computing/Designated Alternative in Mathematics

Machine Learning

Instructors: Ruvolo, Michalka

Credits: 2 ENGR, 2 MTH

Hours: 3-0-9

Prerequisite: *Software Design*

Registration notes: *Fulfills ProbStat requirement; E:C elective*

Machine learning technology is rapidly reshaping how we live our lives. Machine learning approaches have driven recent progress in an array of technologies that have the potential to realize huge positive impacts on our world (e.g., self-driving cars, language translation, personalized recommendation and search). However, the influence of machine learning does not end with these highly visible technologies. Machine learning algorithms are impacting our world in ways that are far less known to the general public, such as in job applicant evaluation, criminal justice, finance, politics, and medicine.

The principal aim of this course is to equip students with a multi-faceted and interdisciplinary skillset to understand, implement, and critically evaluate machine learning systems. In service of this goal, students will learn the major algorithmic and mathematical frameworks that undergird modern machine learning methods. Students will learn effective processes for implementing, testing, and refining machine learning systems across a range of application domains. Students will learn how the decisions that machine learning practitioners make interact with larger societal context by considering factors such as transparency, fairness, bias, and privacy. The course assignments will take a variety of forms, including problem sets, open-ended projects, and discussion-oriented readings.

Whether you want to develop new machine learning algorithms, apply machine learning to real world problems, or simply want to have a better understanding of what's happening in this rapidly evolving field, this course has something of value to offer you.

ENGR4599: Entrepreneurial Engineering Capstone

Instructors: Harris, Woodward

Credits: 4 ENGR

Hours: 4-0-8

Prerequisites: AHSE1515 and ENGR2250. Students must be in at least their sixth semester of study.

Registration notes: by application only. See Jason Woodward or Scott Harris.

The Entrepreneurial Engineering Capstone (EEC) enables students to gain professional experience undertaking an authentic, team-based engineering project in the context of a prospective new venture. EEC is being offered in 2019 on an experimental basis as a two semester sequence (4 credits Spring + 4 credits Fall) that fulfills the Engineering Capstone requirement.

Mastering key elements will prepare students for starting or contributing at a high level to an early stage company. These elements include: Understanding major user pain points and the value of a solution; understanding the market and segmentation (first/early market, beachhead; customer/user persona; customer buying habits/process); understanding how to go from a prototype to a manufacturable product for a specific customer (problem you are to solve; value of the solution for the customer; product vision; minimum viable product; prototype & productization; production, supply chain, BOM; product validation; quality & compliance; schedule, timing, launch; user experience). By the end of this capstone experience, students will be prepared to face the challenges of productizing prototypes to match market needs.

Assessment will be similar to SCOPE, with students evaluated on a combination of their individual learning goals, contribution to their team, and successful execution of the project. (Students are not evaluated on the success of the venture itself.)

ISR0077-S1: GCSP Seminar

Instructor: Wood, Alison

Credit: 1GDCO

Curious about the Grand Challenges Scholars Program (GCSP)*? Join us for a 1-credit seminar to explore some of the questions that drive Olin's GCSP and set yourself up to make the most out of your time in college:

Who am I and what is my place in the Olin community?

What do I want to do while I'm here both for my own growth and to contribute to the Olin community?

How do I identify some things I care about and find ways to start acting on them now and throughout my time at Olin?

We'll meet once per week for workshops and discussions with just enough homework to support what we're doing in class. (A 1-credit class requires about 3 hours per week; 100 minutes in class leave about an hour per week of homework time.) This class is also part of Olin's transition to GCSP 2.0, so your feedback will help us continue to improve and evolve the GCSP program. This class will pair well with Change the World, to be offered again in spring 2020.

*GCSP is a program that helps Olin students leverage their educational experiences and participation in the Olin community to galvanize lifelong learning and community participation. To learn more about the national Grand Challenges Scholars Program and its origins, visit <http://www.engineeringchallenges.org/>. For more information on Olin's program, contact Alison Wood.

SCI1199-01: Special Topics in Physics

Contemplating Science: Educational Context and Ethics

Instructor: Zastavker

Credits: 4 SCI

Hours: 4-0-8

Registration notes: It is recommended (but not required) that students engage with at least one formal educational coursework/research prior to taking the course and/or be simultaneously enrolled in AHSE 2170: Teaching and Learning in Undergraduate Science & Engineering.

By and large, students in this course will develop a capacity for deeper self-awareness and reflection, i.e., students will develop skills and will be able to engage with critical reflection, reflective practice and reflexivity. In addition, at the end of this course, students will be able to (1) engage with problems that require interdisciplinary perspective that transcends the boundaries between science, engineering, mathematics, and liberal arts; (2) become more aware of applications of physics/science to collective and individual human experience, including considerations of ethics; (3) make sense of human experiences as embodied beings in the physical universe (e.g., be more aware of ongoing cognitive and emotional

processes in the physical universe) (Krusberg & Ward, 2018); (4) utilize more sophisticated and transferable critical thinking and problem-solving skills; and (5) be more intrinsically motivated to engage with science (e.g., physics) in a holistic and embodied way. To achieve these goals, we will use a number of contemplative practices (e.g., sensory meditation and visualization, contemplative videography, critical reflective practice, etc.) as a way of engaging students in a variety of team projects that align with their areas of interest (e.g., classical mechanics, electricity & magnetism, modern physics, etc.) External guests – artists, actors, poets, etc. from the Sketch Model project - will help us shape the course content and develop team projects with final deliverables that may include such artifacts as a play, an artistic installation, a musical performance, an educational module for Olin courses, etc. that are consistent with course objectives, aligned with students interests and are resonant with the guests' artistic media and aspirations.

SCI1399-01: Special Topics in Chemistry

Paper Panacea, Part 1

Instructor: Vanasupa

Credits: 4 SCI

Registration notes: MatSci/Chem Foundation

Imagine you live in a world where anyone who wanted to could collect real scientific data on the toxics in their environment and contribute it to a national database; imagine that this database served to radically shift public policy and industry practices toward a sustainable future. This world doesn't exist yet and this course is squarely aimed at building a path toward it. The detection platform, paper microfluidics, is a technology that is in its infancy. We can move this technology forward. We will first explore two promising strands of paper microfluidic sensing technology and the chemistry and materials science beneath it. We'll then use the EPA Toxics Release Inventory as a guide to collectively choose a class project for toxic detection. The second 60% of the course will be in building laboratory skills and implementing the project.

Courses Changed, Renumbered or New to Catalog

CIE2019B-01 or -02: Curriculum Innovation Prototype

Quantitative Engineering Analysis II

Instructors: Dusek, Geddes, Lohmeyer, Tow

Credits: 4 (breakdown: 2 MTH, 1 SCI, 1 ENGR)

Registration notes: Note: Quantitative Engineering Analysis II is a 4 credit course distributed as 2 MTH, 1 ENGR, and 1 SCI. This two-class, 12-credit sequence is a designated alternative for the following courses: Linearity 1 and Linearity 2, and the Physics Foundation course. Upon successful completion of both courses, the final credit distribution earned is 6 MTH, 4 SCI, 2 ENGR. Open only to students who took CIE 2019A in Spring 2019.

Quantitative Engineering Analysis II (QEA II) is the second course in the two-course, 12 credit, QEA sequence. The course will revisit, reinforce, and build upon the contextualized math, science, and engineering tools and skills developed during the first semester of the course. Conceptual material in QEA II will draw from topics including ordinary differential equations, Laplace and Fourier transforms, equations of motion, linear systems theory, and linear control systems. QEA II will endeavour to place this foundational material in the broader engineering context, drawing connections to relevant examples and applications in engineering and beyond. The course will teach students how to select the appropriate set of tools and techniques for a given situation, ask critical questions about the consequences of their work, and develop the skills needed to acquire new knowledge beyond the course material.

ENGR3260: Design for Manufacturing

Instructors: Barrett, Faas

Credits: 4 ENGR

Prerequisites: ENGR 2250, shop training

Registration notes: ME elective OR Design Depth

Design for Manufacturing (DFM) will build the specialized design skills needed to professionally redesign a prototype in order to meet target price, reliability and functionality goals, whether the final market requires a single unit per year (i.e. space systems, like satellites) or fifty thousand units a week (i.e. consumer products). This course will be heavily team and project based and will involve the re-design for manufacture of several products, devices and services at the discretion of the instructors. The overall course projects will incorporate a significant mechanical, electronic and software components (but perhaps not all three in any one project) and will be drawn widely from the consumer, industrial, and sustainable market

sectors. Course will potentially involve field trips to manufacturing facilities and invited DFM lecturers as appropriate to support the particular projects offered in a given semester.

ENGR3350: Finite Element Analysis

Instructor: Lee

Credits: 4 ENGR

Prerequisite: ENGR2320 Mechanics of Solids and Structures

Registration note: ME elective

Computational simulation based on finite element methods is routinely used in engineering, especially in product design and development. In fact it is likely that the design and fabrication of any human-made, commercially-produced structure or mechanical system that you have come in contact with has been guided by finite element analysis. We'll start with fundamentals principles of FEA focusing on proper usage rather than mathematical theory. You'll learn to apply common analysis processes (e.g., static, dynamic, modal, thermal-mechanical, explicit dynamic). You'll then define your own project(s) where you will apply these tools for quantitative analysis.

MTH2136/SCI2136: Astronomy and Statistics: Astrostats

Instructor: Nugent

Credits: 2 MTH and 2 SCI

Hours: 3-0-9

Registration notes: Satisfies the ProbStat requirement; SCI elective

It's not science unless you quantify your errors. Learn statistics and error analysis by studying our dynamic solar system. The first half of the class will provide you with a toolbox of standard statistical methods. You will learn these methods by studying data from planets, moons, and asteroids. The second half consists of student-designed projects. Your project will investigate an element of our solar system, and will include rigorous error analysis. This course will use data from NASA and ESA missions.

**Didn't find the course you're looking for? Check the course browser at
https://my.olin.edu/ICS/Course_Schedules.jnz**

Area	Course #	Sect #	Course Title	Instructor / Teaching Team	Time	Location	Credits	Enroll Limits	Waitlist	Notes	Curriculum Category
AHS	AHSE0112	01	AHSE0112: The Olin Conductorless Orchestra	Dabby, Diana	T 7:30pm-9:00pm; R 6:30-9:00pm	AC318	1	26	yes, small		AHS Elective
AHS	AHSE2170	01	AHSE2170: Teaching and Learning in Undergraduate Education	Zastavker, Yevgeniya; Burger, Jordyn	T 12:50-3:15pm; T 6:30pm-7:15pm	CC209, 211 Crescent Room	4	15	yes, large		AHS Elective
AHS	AHSE2170	02	AHSE2170: Teaching and Learning in Undergraduate Education	Zastavker, Yevgeniya; Burger, Jordyn	T 12:50-3:15pm; W 6:30pm-7:15pm	CC209, 211 Crescent Room	4	15	yes, large		AHS Elective
AHS	AHSE3130	01	AHSE3130: Advanced Digital Photography	Donis-Keller, Helen	TF 1:30-3:10pm	AC313	4	12	yes, small		AHS Elective
AHS	AHSE3190	01	AHSE3190: Arts, Humanities, Social Science Preprstone	Epstein, Gillian	n/a	n/a	1	50	n/a		AHS Capstone Prereq
CAPSTONE	ENGR4190	01	ENGR4190: SCOPE: Senior Capstone Program in Engineering	Ferzoco, Alessandra; Hersey, Scott; Sarang-Sieminski, Alisha; Stein, Lynn	W 9-6:00pm	varies	4	90	n/a		CAPSTONE
CAPSTONE	ENGR4290	01	ENGR4290: Affordable Design and Entrepreneurship Engineering Capstone	Graeff, Erhardt; Hersey, Scott; Linder, Ben; Taha, Kofi, Johansen, Elizabeth	T 3:30-6:30pm; R 3:30-5:30pm	Weissman Foundry	4	15	yes, small		CAPSTONE
CAPSTONE	ENGR4599	01	ENGR4599: Entrepreneurial Engineering Capstone	Harris, Scott; Woodard, Jason	W 1-5:30pm	AC318	4	by application only	n/a	Interested Students should see Scott Harris and/or Jason Woodard	Capstone
DSN	ENGR2299	01	ENGR2299: Special Topics in Design Engineering: Creativity Practicum	Ferguson Sauder, Tim; Hendren, Sara	M 1:30-4:10pm; R 1:30-3:10pm	AC309	4	24	yes, small		Elective (can be taken before UOCD)
DSN	ENGR3220	01	ENGR3220: User Experience Design	Millner, Amon	TF 1:30-3:10pm	AC213	4	28	yes, small		DSN Depth
DSN	ENGR3240	01	ENGR3240: Tell the Story of What you Make	Ferguson Sauder, Tim	MR 9:50-12:30pm	AC309	4	25	yes, small		DSN Depth
DSN	ENGR3260	01	ENGR3260: Design for Manufacturing	Barrett, Dave; Faas, Daniela	TF 10:50-12:30pm	AC128	4	20	yes, large	Student must elect lab A OR B, not both along with the standard TF 10:50-12:30pm time	ME Elective Design Depth
DSN	ENGR3260 L	A B	Design for Manufacturing LAB	Barrett, Dave; Faas, Daniela	Lab A: M 1:30-4:10pm Lab B: Tues 1:30-4:10pm	Machine Shop	0	10 in each Lab	yes, large	Student must elect lab A OR B, not both along with the standard TF 10:50-12:30pm time	

Area	Course #	Sect #	Course Title	Instructor / Teaching Team	Time	Location	Credits	Enroll Limits	Waitlist	Notes	Curriculum Category
DSN	ENGR3290	01	ENGR3290: Affordable Design and Entrepreneurship	Graeff, Erhardt; Hersey, Scott; Linder, Ben; Taha, Kofi, Johansen, Elizabeth	T 3:30-6:30pm; R 3:30-5:30pm	Weissman Foundry	4	15	yes, large		DSN Depth
DSN	ENGR3299	01	ENGR3299: Special Topics in Engineering Design: Introduction to Immersive Experience Design	Pearson, Tom	TF 9-12:30pm	AC326	4	28	yes, small		Design Depth
E:C	ENGR2510	01	ENGR2510: Software Design	Hill, Benjamin	TF 1:30-3:10pm	AC318	4	24	yes, small		E:C Requirement and ECE Requirement
E:C	ENGR3520	01	ENGR3520: Foundations of Computer Science	Pucella, Riccardo	T 3:20-5:50pm	AC326	4	32	yes, small		E:C Requirement
E:C	ENGR3540	01	ENGR3540: Complexity Science	Downey, Allen	TF 10:50-12:30pm	AC417	4	30	yes, small		E:C Elective
ECE	ENGR3410	01	ENGR3410: Computer Architecture	Hill, Benjamin	TF 9-10:40am	AC304	4	32	yes, small		ECE Requirement and E:C Elective
ECE	ENGR3420	01	ENGR3420: Introduction to Analog and Digital Communication	Govindasamy, Siddhartan	MR 10:50-12:30pm	AC304	4	24	yes, small		
ENGR	ENGR1330	01	ENGR1330: Fundamentals of Machine Shop Operations	Andruskiewicz, Bruce	W 1-5:00pm	Machine Shop	4	6	yes, small		Elective
ENGR	ENGR2110	01	ENGR2110: Principles of Engineering	Govindasamy, Siddhartan; Hoover, Aaron; Millner, Amon; Reifel, Stan	TF 9-10:40am	AC306	4	25	yes, small		Engineering Foundation
ENGR	ENGR2110	02	ENGR2110: Principles of Engineering	Govindasamy, Siddhartan; Hoover, Aaron; Millner, Amon; Reifel, Stan	TF 9-10:40am	AC309	4	25	yes, small		Engineering Foundation
ENGR	ENGR2110	03	ENGR2110: Principles of Engineering	Govindasamy, Siddhartan; Hoover, Aaron; Millner, Amon; Reifel, Stan	TF 10:50-12:30pm	AC306	4	25	yes, small		Engineering Foundation
ENGR	ENGR2110	04	ENGR2110: Principles of Engineering	Govindasamy, Siddhartan; Hoover, Aaron; Millner, Amon; Reifel, Stan	TF 10:50-12:30pm	AC309	4	25	yes, small		Engineering Foundation
ENGR	ENGR2199	01	ENGR2199: Special Topics in Engineering: Small Satellite Lab I	Lee, Chris	MR 3:20-5:30pm	AC304	4	18	yes, small		Elective

Area	Course #	Sect #	Course Title	Instructor / Teaching Team	Time	Location	Credits	Enroll Limits	Waitlist	Notes	Curriculum Category
ENGR	ENGR3199	01	ENGR3199: Special Topics in Engineering: Renewable Energy	Vanasupa, Linda	TF 10:50-12:30pm	AC304	4	28	yes, large	Prerequisite: successful completion of all first year courses	ECE Elective ME Elective
ENTRP	AHSE2615	04	AHSE2615: Iterate	TBD	MR 9-10:40am	AC318	2	24	yes, small	Session I	EE Elective
ENTRP	AHSE2615A	04	AHSE2615A: Iterate	TBD	MR 9-10:40am	AC318	2	24	yes, small	Session II	EE Elective
FYR	OIE1000	01	OIE1000: Olin First Year Introduction (OFYI)	Waranyuwat, Adva	W 1:30-3:10pm	MH120; AC304; AC326; AC328	1	90	n/a		First Year Only
FYR: AHS	AHSE1100	01	AHSE1100: History of Technology: A Cultural & Contextual Approach	Martello, Rob	TF 1:30-3:10pm	AC328	4	16	no	Available to First Year Students Only; There will be an additional writing activity during the semester on a Monday and/or Thursday at 1:30p; specific dates will be on each syllabus	AHS Foundation
FYR: AHS	AHSE1122	01	AHSE1122: The Wired Ensemble - Instruments, Voices, Players	Dabby, Diana	TF 1:30-3:10pm	AC304; AC305	4	15	no	Available to First Year Students Only; There will be an additional writing activity during the semester on a Monday and/or Thursday at 1:30p; specific dates will be on each syllabus	AHS Foundation
FYR: AHS	AHSE1135	01	AHSE1135: The Digital Eye: Photography, Vision, and Visual Communication	Donis-Keller, Helen	TF 10:50-12:30pm	AC313	4	14	no	Available to First Year Students Only; There will be an additional writing activity during the semester on a Monday and/or Thursday at 1:30p; specific dates will be on each syllabus	AHS Foundation
FYR: AHS	AHSE1148	01	AHSE1148: Dirt to Shirt: Global Garments in Context	Lynch, Caitrin	TF 10:50-12:30pm	Weissman Foundry	4	16	no	Available to First Year Students Only; There will be an additional writing activity during the semester on a Monday and/or Thursday at 1:30p; specific dates will be on each syllabus	AHS Foundation
FYR: AHS	AHSE1199	01	AHSE1199: Arts, Humanities, Social Science Foundation: <i>Writers' Workshop: Creativity and the Literary Imagination</i>	Lynch, Caitrin; Taaffe, Lauren	TF 1:30-3:10pm	AC326	4	16	no	Available to First Year Students Only; There will be an additional writing activity during the semester on a Monday and/or Thursday at 1:30p; specific dates will be on each syllabus	AHS Foundation
FYR: AHS	AHSE1199	02	AHSE1199: Arts, Humanities, Social Science Foundation: <i>Infrastructure Studies</i>	Chachra, Debbie	MR 1:30-3:10pm	AC304	4	16	no	Available to First Year Students Only; There will be an additional writing activity during the semester on a Monday and/or Thursday at 1:30p; specific dates will be on each syllabus	AHS Foundation
FYR: ENGR	ENGR1125	01	ENGR1125: Introduction to Sensors, Instrumentation and Measurement	Ferzoco, Alessandra; Michalka, Sam; Nugent, Carrie; Vanasupa, Linda	M 3:20-5:00pm; T 10:50-12:30pm	M: AC326; T: AC428	4	22	no		Engineering Foundation
FYR: ENGR	ENGR1125	02	ENGR1125: Introduction to Sensors, Instrumentation and Measurement	Ferzoco, Alessandra; Michalka, Sam; Nugent, Carrie; Vanasupa, Linda	M 3:20-5:00pm; T 1:30-3:10pm	M: AC328; T: AC428	4	22	no		Engineering Foundation
FYR: ENGR	ENGR1125	03	ENGR1125: Introduction to Sensors, Instrumentation and Measurement	Ferzoco, Alessandra; Michalka, Sam; Nugent, Carrie; Vanasupa, Linda	R 3:20-5:00pm F 10:50-12:30pm	R: AC326; F: AC428	4	22	no		Engineering Foundation

Area	Course #	Sect #	Course Title	Instructor / Teaching Team	Time	Location	Credits	Enroll Limits	Waitlist	Notes	Curriculum Category
FYR: ENGR	ENGR1125	04	ENGR1125: Introduction to Sensors, Instrumentation and Measurement	Ferzoco, Alessandra; Michalka, Sam; Nugent, Carrie; Vanasupa, Linda	R 3:20-5:00pm; F 1:30-3:10pm	R: AC328; F: AC428	4	22	no		Engineering Foundation
FYR: ENGR	ENGR1200	01	ENGR1200: Design Nature	Chachra, Debbie; Linder, Ben; Stein, Lynn; Ewing, Lucas	MR 9:50-12:30pm	MH120; AC204, 206, 209	4	32	no		Design Foundation
FYR: ENGR	ENGR1200	02	ENGR1200: Design Nature	Chachra, Debbie; Linder, Ben; Stein, Lynn; Ewing, Lucas	MR 9:50-12:30pm	MH120; AC204, 206, 209	4	32	no		Design Foundation
FYR: ENGR	ENGR1200	03	ENGR1200: Design Nature	Chachra, Debbie; Linder, Ben; Stein, Lynn; Ewing, Lucas	MR 9:50-12:30pm	MH120; AC204, 206, 209	4	32	no		Design Foundation
FYR: Interdisciplinary	MTH1111 / SCI1111	01	MTH1111 / SCI1111: Modeling and Simulation of the Physical World	Graeff, Erhardt; Matsumoto, Steve; Paul, Alice; Woodard, Jason	TWF 9-10:40am	MH120; AC204, 206, 209, 213	2+2	89	no		Modeling Foundation
Interdisciplinary	CIE2019B	01	CIE2019B: Curriculum Innovation Prototype: <i>Quantitative Engineering Analysis II</i>	Dusek, Jeff; Geddes, John; Lohmeyer, Whitney; Tow, Emily	MR 9-10:40am	AC109	4	36	n/a	Credit breakdown: 2 Math, 1 Science, 1 Engineering	Requirement
Interdisciplinary	CIE2019B	02	CIE2019B: Curriculum Innovation Prototype: <i>Quantitative Engineering Analysis II</i>	Dusek, Jeff; Geddes, John; Lohmeyer, Whitney; Tow, Emily	MR 9-10:40am	AC113	4	36	n/a	Credit breakdown: 2 Math, 1 Science, 1 Engineering	Requirement
Interdisciplinary	MTH2136 / SCI2136	01	MTH2136 / SCI2136: Astronomy and Statistics: AstroStats	Nugent, Carrie	MR 1:30-3:10pm	AC318	2 + 2	22	yes, small		Probability/Statistics; SCI Elective
Interdisciplinary	MTH2188A / ENGR3599A	01	MTH2188A / ENGR3599A: Machine Learning	Ruvolo, Paul; Michalka, Sam	MR 10:50-12:30pm	AC328	2 + 2	32	yes, large		Probability/Statistics; E:C Elective
Interdisciplinary	MTH2188A / ENGR3599A	02	MTH2188A / ENGR3599A: Machine Learning	Ruvolo, Paul; Michalka, Sam	MR 1:30-3:10pm	AC328	2 + 2	32	yes, large		Probability/Statistics; E:C Elective
ME	ENGR3310	01	ENGR3310: Transport Phenomena	Tow, Emily	MR 10:50-12:30pm	AC326	4	48	yes, small		ME Requirement
ME	ENGR3330	01	ENGR3330: Mechanical Design	Barrett, Dave	TF 9-10:40am	AC128	4	32	yes, large		ME Requirement
ME	ENGR3350	01	ENGR3350: Finite Element Analysis	Lee, Chris	MR 9-10:40am	AC328	4	32	yes, small		ME Elective

Area	Course #	Sect #	Course Title	Instructor / Teaching Team	Time	Location	Credits	Enroll Limits	Waitlist	Notes	Curriculum Category
MTH	MTH2110	01	MTH2110: Discrete Math (Letter Grading)	Spence Adams, Sarah	MR 9-10:40am	AC417	4	33	yes, large	Offered as Letter grade only	Advanced Math
MTH	MTH2110	02	MTH2110: Discrete Math (Experimental Grading)	Spence Adams, Sarah	MR 10:50-12:30pm	AC417	4	21	yes, large	Offered using EXPERIMENTAL Grading	Advanced Math
MTH	MTH2220	01	MTH2220: Linearity II	Geddes, John	MR 10:50-12:30pm	AC318	4	36	no		Requirement
SCI	SCI1199	01	SCI1199: Special Topics in Physics: Contemplating Science: Educational Context and Ethics	Zastavker, Yevgeniya	MR 9-10:40am	AC326	4	21	yes, small		Physics Foundation
SCI	SCI1240	01	SCI1240: Designing Better Drugs with Laboratory	Pratt, Joanne	MR 1:30-3:10pm; R 3:20-6pm	AC417; AC406 lab	4	24	yes, large		BIO Foundation
SCI	SCI1399	01	SCI1399: Special Topics in Chemistry: Paper Panacea, Part I	Vanasupa, Linda	TW 3:20-6:00pm	AC413; AC417	4	24	yes, small	Offered using Experimental Grading	MatSci/Chem Foundation
SCI	SCI1410	01	SCI1410: Materials Science and Solid State Chemistry	Neal, Matt	MR 3:20-6:00pm	AC413	4	24	yes, small		MatSci/Chem Foundation
SCI	SCI2210	01	SCI2210: Immunology	Pratt, Joanne	W 12:30-3:10pm; F 1:30-3:10pm	AC417; AC406	4	18	yes, large		Bio Advanced
Seminar	ISR0077	S1	ISR0077: Independent Study and Research: <i>Grand Challenge Scholars Program: GCSP Seminar</i>	Wood, Alison	M 9-10:40am	AC304	1	16	yes, large	Pass/No Credit Grading; General Credit Only	Seminar
Sustainability (BOW)	SUST2201	01	SUST2201: Introduction to Sustainability	Stolk, Jon	W 3:30-6:30pm	AC328	4	45 (15 per school)	yes, small	CORE requirement for 3CollegesBOW Sustainability Certificate; earns 2 AHS + 2 ENGR credits at Olin;	BOW Cert / Sustainability
ADMIN	AWAY1000	01	Study Away Program	Administration	n/a	n/a	12	n/a		Enroll in this course block to confirm your Study Away Semester	
ADMIN	OIP1000	01	The Olin Internship Practicum I	Phelps	n/a	n/a	1	n/a		See Post Graduate Planning to Enroll	
ADMIN	OIP1001	01	The Olin Internship Practicum II	Phelps	n/a	n/a	1	n/a		See Post Graduate Planning to Enroll	

Color Key- Offering Blocks	ECE	ME	ENGR / DSN Courses				ENGR/Foundation Requirement																	
	Monday						Tuesday						Wednesday											
9:00 AM	MTH 2110-01 Discrete Math Letter Grading AC417	ISR 0077 GCSF Seminar AC304	SCI 1199 Spec Top in Physics: Comtemplating Sci; Educ Context Ethics AC326	AHSE 2515 and AHSE2515A ITERATE SESS I and SESS II AC318	CIE2019B section 01, 02 Quantitative Engineering Analysis II AC109 AC113	ENGR 3350 Finite Element Analysis AC328	ENGR 3240 Tell the Story of What You Make MR 9:50-12:30pm AC309	ENGR 1200 ALL Sections Design Nature MR 9:50-12:30pm MH120, AC204, 206, 209	MTH 1111/ SCI 1111 sec 01 MH120, AC204, 206, 209, 213	ENGR 3330 Mechanical Design AC128	ENGR 3410 Computer Architecture AC304		ENGR 3299 Intro Immersive Experience Design TF 9-12:30pm AC326	ENGR 2110, sec 01 Principles of Engineering AC306	ENGR 2110 sec 02 Principles of Engineering AC309		MTH 1111/ SCI 1111 sec 01 MH120, AC204, 206, 209, 213							
10:40 AM	MTH 2110-02 Discrete Math EG Grading AC417	ENGR 3420 Analog and Digital Communication AC304	ENGR 3310 Transport Phenomena AC326	MTH2188A / ENGR3599A - section 01 Machine Learning AC328	MTH 2220 Linearity II AC318				ENGR 1125 - 01 Intro Sensors, Instru, Measurement AC428	AHSE1148: Dirt to Shirt Weissman Foundry AC313	ENGR 3199 Spec Top ENGR: Renewable Energy AC304	ENGR3260 Design for Manufacturing AC128	ENGR 3540 Complexity Science AC417	ENGR 2110, sec 03 Principles of Engineering AC306	ENGR 2110 sec 04 Principles of Engineering AC309	Open Meeting Time 10:50-12:30pm								
12:30 PM																								
1:30 PM	SCI 1240 Designing Better Drugs Lecture AC417	MTH2188A / ENGR3599 A - section 02 Machine Learning AC328	ENGR 2299 Creativity Practicum M 1:30-4:10pm R 1:30-3:10pm AC309	MTH2136 / SCI2136 Astro Stats AC318	AHSE1199-02: Infrastructure Studies AC304	AHS Foundation Special Class Session for Writing Panel Workshops and/or field trips AC128, AC326 MH120	ENGR3260 Design for Manufacturing LAB A 1:30-4:10pm Machine Shop	ENGR 1125 - 02 Intro Sensors, Instru, Measurement AC428	AHSE1122: Wired Ensemble AC304, 305 AC326	AHSE1199-01: Writer's Wksp: Creat Lit Imagine AC326	AHSE1100: Hist of Tech AC328	AHSE3130 Adv Digital Photography AC313	ENGR 3220 User Experience Design AC213	AHSE2170 Teaching and Learning Sections 01 & 02: T 12:50-3:15pm Addtl mtg times: Sec 01: T 6:30-7:15pm Sec 02: W 6:30-7:15pm Crescent Room CC209, 211	ENGR3260 Design for Manufacturing LAB B 1:30-4:10pm Machine Shop	ENGR 2510 Software Design AC318		SCI2210 Immunology W 12:30-3:10pm; F 1:30-3:10pm AC417; AC406	OIE 1000 W 1:30-3:10p Olin First Year Introduction (OFYI) MH120; AC304; AC326; AC328	ENGR 4599: Capstone Alternative: Entrepreneurial Engineering Capstone W 1-5:30pm AC318	ENGR 1330 Fnd Machine Shop Operations 1-5:00p Machine Shop	ENGR 4190 SCOPE		
3:10 PM		SCI 1410 Materials Science and Solid State Chemistry AC413		ENGR 1125 sec 01 Intro Sensors, Instru, Measurement AC326	ENGR 1125 sec 02 Intro Sensors, Instru, Measurement AC328	ENGR 2199 Spec Topics: Small Satellite Laboratory MR 3:20-5:30pm AC304				SCI 1399 Special Top in Chem: Paper Panacea, Part I TW 3:20-6pm AC417; AC413	ENGR 3520 Fnd Computer Science Tues 3:20-5:50pm AC326	ENGR 3290 and 4290 Affordable Design & Entrp Tues 3:30-6:30p Thurs 3:30-5:30p Weissman Foundry at Babson						SCI 1399 Special Top in Chem: Paper Panacea, Part I TW 3:20-6pm AC417; AC413	SUST2201 Intro to Sustainability: Babson, Olin, Wellesley Initiative W 3:30-6:30 meet on all 3 campuses AC328 at Olin					
5:00 PM																								
6:00 PM																								
9:00:00 PM										AHSE 0112 Olin Conductorless Orchestra Tues: 7:30p-9:00p Thurs: 6:30p-8:00p AC318				AHSE217- sec 01 Teaching and Learning T 6:30-7:15pm Crescent Room CC209, 211					AHSE2170- sec 02 Teaching and Learning W 6:30-7:15pm Crescent Room CC209, 211					

AHSE		SCI				Math			INTEGRATED OFFERING (colored via discipline blending)					Color Key- Offering Blocks
Thursday						Friday								
MTH 2110-01 Discrete Math Letter Grading AC417	SCI 1199 Spec Top in Physics: Comtemplating Sci; Educ Context Ethics AC326	AHSE 2515 and AHSE2515A ITERATE SESS I and SESS II AC318	CIE2019B section 01, 02 Quantitative Engineering Analysis II AC109 AC113	ENGR 3350 Finite Element Analysis AC328	ENGR 3240 Tell the Story of What You Make MR 9:50-12:30pm	ENGR 1200 ALL Sections Design Nature MR 9:50-12:30pm	MTH 1111/SCI 1111 sec 01 MH120, AC204, 206, 209, 213	ENGR 3330 Mechanical Design AC128	ENGR 3410 Computer Architecture AC304		ENGR 3299 Intro Immersive Experience Design TF 9-12:30pm	ENGR 2110, sec 01 Principles of Engineering AC306	ENGR 2110 sec 02 Principles of Engineering AC309	9:00 AM
MTH 2110-02 Discrete Math EG Grading AC417	ENGR 3420 Analog and Digital Communication AC304	ENGR 3310 Transport Phenomena AC326	MTH2188A / ENGR3599A - section 01 Machine Learning AC328	MTH 2220 Linearity II AC318	ENGR 3240 AC309	MH120, AC204, 206, 209	ENGR 1125 - 03 Intro Sensors, Instru, Measurement AC428	AHSE1148: Dirt to Shirt Weissman Foundry AHSE1135: Digital Eye AC313	ENGR 3199 Spec Top ENGR: Renewable Energy AC304	ENGR3260 Design for Manufacturing AC128	ENGR 3540 Complexity Science AC417	ENGR 2110, sec 03 Principles of Engineering AC306	ENGR 2110 sec 04 Principles of Engineering AC309	10:40 AM 10:50 AM
AHSE2170 Teaching and Learning OPTIONAL/Encouraged Discussion 1-1:30pm each Thursday														
SCI 1240 Designing Better Drugs Lecture AC417	MTH2188A / ENGR3599 A - section 02 Machine Learning AC328	ENGR 2299 Creativity Practicum M 1:30-4:10pm R 1:30-3:10pm AC309	MTH2136 / SCI2136 Astro Stats AC318	AHSE1199-02: Infrastructure Studies AC304	AHS Foundation Special Class Session for Writing Panel Workshops and/or field trips AC128, AC326 MH120		ENGR 1125 - 04 Intro Sensors, Instru, Measurement AC428	SCI2210 Immunology W 12:30-3:10pm; F 1:30-3:10pm AC417; AC406	AHSE1122: Wired Ensemble AC304, 305 AHSE1199-01: Writer's Wksp: Creat Lit Imagine AC326 AHSE1100: Hist of Tech AC328	AHSE3130 Adv Digital Photography AC313	ENGR 3220 User Experience Design AC213	ENGR 2510 Software Design AC318		1:30 PM
ENGR 3290; 4290 ADE Tues 3:30-6:30p Thurs 3:30-5:30p Weissman Foundry at Babson	SCI 1410 Materials Science and Solid State Chemistry AC413	SCI1240 Designing Better Drugs LAB AC406	ENGR 1125 sec 03 Intro Sensors, Instru, Measurement AC326	ENGR 1125 sec 04 Intro Sensors, Instru, Measurement AC328	ENGR 2199 Spec Topics: Small Satellite Laboratory MR 3:20-5:30pm AC304	"Do Something" Dedicated Time						3:20 PM		
AHSE 0112 Olin Conductorless Orchestra Tues: 7:30p-9:00p Thurs: 6:30p-8:00p AC318												5:00 PM		
												6:00 PM		
												9:00:00 PM		

SPRING 2020 Tentative Offerings

Course Number_Title	Faculty	Curriculum Role
AHSE0112: The Olin Conductorless Orchestra	Dabby, Diana	AHS Elective
AHSE1515: Products and Markets	Chachra, Debbie; Lynch, Caitrin; Pratt, Joanne; Woodard, Jason	E! Foundation
AHSE2131: Responsive Drawing and Visual Thinking	Donis-Keller, Helen	AHS Elective
AHSE2141_ENGR2141: Engineering for Humanity	Lynch, Caitrin; TBD	AHS Elective; Elective
AHSE2199: Special Topics in Arts, Humanities, Social Sciences: GCSP TBD Topic	Martello, Rob; Wood, Alison	AHS Elective
AHSE21XX: Elective TBD	Adler, Jon	AHS Elective
AHSE2515: Iterate	TBD	E! Elective
AHSE3190: Arts, Humanities, Social Science Prepstone	Epstein, Gillian	AHS Capstone Prereq
AHSE3515: Launch	TBD	E! Elective
AHSE4190: Arts, Humanities, Social Science Capstone	Epstein, Gillian	AHS Capstone
CurrInnov1: Quantitative Engineering Analysis I	Dusek, Jeff; Geddes, John, Houston-Edwards, Kelsey; Ruvolo, Paul; Vanasupa, Linda; TBD	Requirement
Elective TBD	Stolk, Jon	Elective (TBD)
ENGR1330: Fundamentals of Machine Shop Operations	Andruskiewicz, Bruce	Elective
ENGR2199: Special Topics in Engineering Small Satellite Lab II	Lee, Chris	Elective
ENGR21XX_ENGR24XX or ENGR23XX: Linear Systems	Dabby, Diana; Govindasamy, Siddharta; Lee, Chris	Engineering: Linear Systems (replaces Dynamics and/or Signals & Systems)
ENGR2250: User-Oriented Collaborative Design	Adler, Jon; Ferguson Sauder, Tim; Hendren, Sara; Zastavker, Yvegeniya; TBD	Design Foundation
ENGR2320: Mechanics of Solids & Structures	Lee, Chris; Tow, Emily	ME Requirement
ENGR2330: Introduction to Mechanical Prototyping	Faas, Daniela	Elective
ENGR2350: Thermodynamics	Ferzoco, Alessandra	ME Requirement
ENGR2420: Intro Microelectronic Circuits with laboratory	Minch, Brad	ECE Requirement
ENGR2510: Software Design	Graeff, Erhardt; Millner, Amon; Nugent, Carrie	E:C Requirement and ECE Requirement
ENGR3110: Elecanisms	Hoover, Aaron; Minch, Brad	ECE Elective
ENGR3232: Biomedical Device Design	TBD	Design Depth; E: Bio one of n Requirement
ENGR3235_or_SCI2235: Biomimicry	Huang, Jean; Linder, Ben	Design Depth OR Adv Science
ENGR3290: Affordable Design and Entrepreneurship	Graeff, Erhardt; Hersey, Scott; Linder, Ben; Taha; Johansen	Design Depth
ENGR3390: Fundamentals of Robotics	Barrett, Dave; Dusek, Jeff	E:Robo One of N Requirement
ENGR3392: Robotics Systems Integration	Barrett, Dave	E:Robo Requirement
ENGR33XX: ME Elective TBD	Hoover, Aaron	ME Elective
ENGR3525: Software Systems	Downey, Allen	E:C Requirement
ENGR3599: Special Topics in Computing TBD Topic	Matsumoto, Steve	E:C Elective
ENGR3599: Special Topics in Computing TBD Topic	Paul, Alice	E:C Elective
ENGR3599: Special Topics in Computing: Programming Languages	Pucella, Riccardo	E:C Elective
ENGR3XXX: ECE Elective and/or ME Elective TBD	Lohmeyer, Whitney	ECE Elective and ME Elective
ENGR4190: SCOPE: Senior Capstone Program in Engineering	Ferzoco, Alessandra; Hersey, Scott; Sarang-Sieminski, Alisha; Stein, Lynn	Capstone
ENGR4290: Affordable Design and Entrepreneurship Engineering Capstone	Graeff, Erhardt; Hersey, Scott; Linder, Ben; Taha; Johansen	Capstone
Materials Science TBD	Stolk, Jon	Material Science Requirement

SPRING 2020 Tentative Offerings

Course Number_Title	Faculty	Curriculum Role
MTH2131_ENGR3531: Data Science	Downey, Allen	Probability/Statistics
MTH2135_ENGR3635: Neurotechnology, Brains and Machines	Michalka, Sam	Probability/Statistics; E:Bio one of n Requirement
MTH3120: Partial Differential Equations	Houston-Edwards, Kelsey	Advanced Math
MTH31XX: Advanced Math TBD	Geddes, John	Advanced Math
SCI1250_AHSE2150: Six Microbes that Changed the World with Laboratory	Huang, Jean; Martello, Rob	BIO Foundation & AHS Elective
SCI1410: Materials Science and Solid State Chemistry - TBD	TBD	Material Science Requirement
SUST3301: Sustainability Synthesis	Wood, Alison	Sustainability