

# Spring 2019 Supplement and Course Offerings List

Vol17no2.2 (18Jan2019)

## Information Contained In this Document

- 1) Course Tips & Info and Catalog Supplement (courses new to catalog for 2018-19 or special topics)
- 2) Cross-Registration Deadlines
- 3) Course Offerings List (you can also search this here: [Course Search](#))
- 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 23 – May 3)	February 5, 2019	April 4, 2019	May 3, 2019
Session I (Jan 23 – Mar 12)	January 29, 2019	February 22, 2019	March 12, 2019
Session II (Mar 13 – May 3)	March 26, 2019	April 18, 2019	May 3, 2019

## Cross-Registration Deadlines

	Babson	Brandeis	Wellesley
<b>Cross-registration open period</b>	11/05/2018 – 1/28/2019 at 4:30 p.m.	1/08/2019 – 1/29/2019	11/12/2018 – 2/08/2019 at 11 p.m.
<b>First day of classes</b>	1/22/2019	1/15/2019	1/28/2019
<b>Drop deadline</b>	1/28/2019 at 4:30 p.m.	3/05/2019	2/22/2019 at 11 p.m.

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

**Degree requirements** are outlined in the course catalog: <http://olin.smartcatalogiq.com/2018-19/Catalog>

Looking for a visual representation? Check out Olin's [Curriculum Map](#)

**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.

#### UPDATED INFORMATION

In this edition 2.2

- **ENGR3600** is available to take for advanced biology credit in lieu of a Biology foundation. If you meet the criteria as outlined in the [catalog](#) for this, you may enroll in **SCI2299: Special Topics in Biological Sciences: Topics in Bioengineering, with lab.**

Updates from edition 2.1

- **ENGR2199-01: Special Topics in Engineering, Temporary Autonomous Infrastructural Research Group** with Professor Debbie Chachra has been cancelled.
- **AHSE2155: Constructing and Performing the Self** with Professors Jon Adler (Olin) and Beth Wynstra (Babson) is seeking Olin, Babson and Wellesley students for their course. There are six seats available to each school. It is held at Babson's Sorenson Center and meets Tuesdays and Thursdays from 1:15-2:50pm. The catalog description can be found here: [CONSTRUCTING and PERFORMING the SELF.](#)
- **AHSE2141/ENGR2141: Engineering for Humanity** with Professors Caitrin Lynch and Ela Ben-Ur has been ADDED to the schedule. You can find the course description here: [E4H](#). Check this out for other info: <http://www.olin.edu/academic-life/experience/engineering-humanity/>
- **SUST3301: Sustainability Synthesis** with Professor Alison Wood moved to Mondays, 3:30-6:30pm.

## New and Special Topics Courses to Note

### **AHSE2199-01: Special Topics in Arts, Humanities and Social Sciences**

*Change the World: Personal Values, Global Impacts, and Making an Olin GCSP*

Instructors: Alison Wood, Rob Martello

Credits: 4 AHS

As individuals and engineers, how should we pose ethical questions and prepare to advocate for the values that we hold dear? How might we start to understand and react to larger global problems, causes, challenges, and opportunities that surround us? And how should Olin modify its curriculum and build a Grand Challenge Scholar's Program (GCSP) to help our students identify and act upon their values? In this course, students will serve as partners, helping the instructors identify and discuss readings, experiment with projects and in-class activities, and design personalized manifestos. In addition, anyone who completes this course will (if they wish) receive the Grand Challenge Scholar designation. The course will use the "Experimental Grading" system to allow us to focus on detailed formative feedback throughout the semester. Students will have plenty of leeway to make progress on their own goals and explore their own interests, while the class as a whole will work together to understand our global context and build something great for Olin. Join us this spring, and let's make the world a better place!

### **AHSE2199A-01: Video Communication**

Instructor: Kelsey Houston-Edwards

Credits: 2 AHS

Throughout the semester, each student will create one video that's both fun and educational. The specific topic will be determined by individual interest, e.g., your favorite design principle, math theorem, or physics paradox. The primary goal of the course will be to improve technical communication skills, and we'll spend the majority of the time focused on script writing and storyboarding. Then we will work through the entire filming and post-production process. During class we will learn and develop skills through interactive tutorials, guest lectures, and peer review sessions.

## **CIE2019A-01 (or -02): Curriculum Innovation Experiment**

### ***Quantitative Engineering Analysis I***

Instructors: Jeff Dusek, John Geddes, Emily Tow, and staff

Credit: 8 (content & credit distribution breakdown: 4 MTH (Multi-variable Calc, Linear Algebra), 3 SCI (Physics), 1 ENGR)

Prerequisites: ENGR1125; MTH1111/SCI1111; ENGR1200

*Registration note: Enrolling in this experimental course requires completing the Quantitative Engineering Analysis sequence with Quantitative Engineering Analysis II in the fall 2019 semester.*

The application of quantitative analysis of mathematical models and/or data can enable, improve, and speed up the engineering design process. Using quantitative analysis to answer engineering questions, you will be able to make the choices necessary to successfully complete an engineering design. Whether you are selecting the best part from a catalog, choosing an appropriate material, sizing a component, determining the effect of certain influences on your design, or optimizing your design within a parameter space, you often need to obtain (through experiment or calculation) and interpret quantitative information to inform your decisions. There are many different approaches to getting and interpreting the data you need: you may conduct an experiment, do a rough estimation, perform a detailed calculation based on mathematical models, or create a computer simulation. If you want to engineer effectively, you must be able to choose and use appropriate quantitative tools for a given situation.

In this class, you will be introduced to various approaches to perform quantitative engineering analysis through real-world examples. You will learn how to select between different tools and different approaches within the context of an engineering challenge, how to use many different tools for quantitative analysis, and how to acquire new tools on your own in the future.

## **ENGR2199-01: Special Topics in Engineering**

### ***Temporary Autonomous Infrastructural Research Group - CANCELLED***

Instructor: Debbie Chachra

Credit: 4 ENGR

*Registration note: Offered using Experimental Grading*

We live our lives embedded in systems that both help take care of many of our basic—and some not-so-basic—needs like warmth, clean water, hygiene, and communications, and also provide the technological context for our engineering work. We rarely notice these systems until something goes wrong. In this course, we'll investigate the infrastructure that surrounds us, including water, sewage, electricity, transport, and more, including field trips in the Boston area. We'll also follow and learn about the unfolding situation around power, water, and telecommunications in Puerto Rico in the aftermath of Hurricane Maria. And we'll start thinking more broadly about infrastructure, asking questions like 'what counts as infrastructure, and why?' and reading widely, both in the popular and in the scholarly literature. By the end of the semester, these threads will lead to a new awareness and understanding of these systems that are all around us, and you will have the opportunity to document and communicate your explorations. Together, we'll consider our collective future: how might we make infrastructural systems more sustainable, resilient, and equitable?

*Note that this is an experimental course (including experimental grading)—please come prepared to help figure out what and how we learn together!*

## **ENGR2199A-01: Special Topics in Engineering**

### ***Small Satellite Lab II***

Instructor: Chris Lee

Credit: 2 ENGR

*Registration note: permission of instructor required.*

A team of Olin students has been designing and building three small satellites called ThinSats to carry out a NASA-sponsored mission related to the tracking of orbital debris. These satellites will be launched into space next fall. The project involves all aspects of the satellite including embedded programming, sensor measurements, data transmission and communication, trajectory simulation, mechanical design, attitude dynamics, environmental testing, and systems integration. Although we will continue work from the fall semester, no prior experience is necessary. You can work on the systems that best match your interests and skills.

### **ENGR3299-01: Special Topics in Design Engineering**

#### ***Scientific Instrument Design for the Environment***

Instructor: Alessandra Ferzoco

Credits: 4 ENGR

*Prerequisites: UOCD, POE. Satisfies Design Depth Requirement.*

In SciDes we will design, build, and test an instrument that makes chemical measurements of environmental relevance. The process of building the instrument will combine elements of electronics, software, mechanical, and optical engineering, and teams that specialize in each of these categories will work in parallel before final integration and testing at the end of the semester. The different teams will keep each other informed via research style “group meetings,” but learning depth for each student will only be expected within their chosen area of specialization. The deliverables for the class will primarily be design products and presentations of the design process, though we will also use more traditional style lectures to learn the fundamental principles that underlie our devices and the measurement.

### **ENGR3599-01: Special Topics in Computing**

#### ***Databases***

Instructor: Riccardo Pucella

Credits: 4 ENGR

This is an introduction to database systems. Topics covered include: the relational model, SQL-based querying, transactions, data structures, as well non-relational database models. The approach will be hands-on: rather than write code to interface to existing databases, we will write code to implement simplified versions of various database models and their query systems.

### **ENGR3599A-SL: Special Topics in Computing**

#### ***Data Structures Algorithms (DSA)***

Student Teaching Team: Vicky McDermott, Nathan Yee, Prava Dhulipalla, and Nick (George) Steelman

Content Advisor: Paul Ruvolo

Pedagogy Advisor: Rob Martello

Data Structures and Algorithms will provide an introduction to foundational data structures and algorithms including: linear data structures, sorting algorithms, trees, graphs, greedy algorithms, and dynamic programming. Throughout the course students will: develop and iterate on an approach to solving software engineering problems, learn to communicate and collaborate on data structure and algorithm design and implementation, understand why common data structures and algorithms are used, effectively and efficiently solve problems by using data structures and algorithms, assess and communicate the efficiency and complexity of algorithms.

### **ENGR3600 or SCI2299**

#### ***Topics in Bioengineering (w/ lab)***

Broadly, Bioengineering can be defined as the application of engineering concepts and methods to the solution and study of biological and medical problems. Using a case study approach, this course aims to provide students with a broad understanding of the types of problems Bioengineers explore as well as the engineering and biological methods they employ. We will approach topics through seminar-style discussion of current primary articles from the literature as well as selected hands-on laboratory explorations of topics. Topics to be covered include tissue engineering, use of microfluidics devices for diagnostics, imaging disease states, and prosthetic limbs. In order to explore a topic of particular interest in more depth, students will also write and orally present a research paper on a topic of their choice.

### **ENGR4599-01: Entrepreneurial Engineering Capstone (EEC)**

Instructors: Scott Harris, Jason Woodard

Credits: 4 ENGR; must enroll for two consecutive semesters

Prerequisites: Products and Markets (AHSE 1515) and User-Oriented Collaborative Design (ENGR 2250)

*Registration notes: Students must be in at least their sixth semester of study.*

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.) Note, as this is an experiment, it is only available to students who enrolled at Olin on or after fall 2015.

### **MTH2188A-01/SCI2199A-01: Astronomy and Statistics**

Instructor: Carrie Nugent

Credits: 2 SCI and 2 MTH

*Prerequisite: Software Design*

*Registration note: Satisfies ProbStat requirement*

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.

### **SCI1399-01: Special Topics in Chemistry**

#### ***Paper Panacea, Part 1***

Instructor: Linda Vanasupa

Credits: 4 SCI

*Registration notes: Satisfies MatSci/Chem requirement. Offered using Experimental Grading.*

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.

### **SUST3301-01: Sustainability Synthesis**

Instructor: Alison Wood

This project-based course provides students with a chance to apply and integrate the concepts and the tools of business, engineering, and the liberal arts (science, social science, and the humanities) to address sustainability. Throughout the semester, students will work in multi-campus groups on projects, each with a client who has a real sustainability problem, and will complete readings, discussions, and complementary assignments.

## Other Opportunities

### **Impossible Maps Group Independent Study**

Instructor: Mimi Onuoha

Credits: 4 AHS

Registration notes: contact instructor and follow paper procedure to register for AHSE0177. See <http://olin.smartcatalogiq.com/en/2018-19/Catalog/Programs-of-Study-and-Degree-Requirements/Other-Academic-Programs-and-Opportunities/Independent-study-and-research> for ISR policy and <http://www.olin.edu/academic-life/student-affairs-resources/registrar/independent-study-research/> for procedure guidelines.

In this group independent study, 4-6 students will partner with the Isabella Stewart Gardner Museum and a number of community youth organizations to create pieces that consider the intersection of art, data, and space in new ways. Students will conceive of and gather creative information and datasets about Boston with the goal of collectively creating a series of objects that take the form of maps, models and manifestations. These creative objects will be shared with and presented at the Gardner Museum. They will ultimately serve as a form of research, visual inspiration, and raw material for the ISG Museum's *Big Plans: Picturing Social Reform* exhibition and Community Engagement program. Interested students should reach out to [conuoha@olin.edu](mailto:conuoha@olin.edu).

Area	Course #	Sec #	Course Title	Instructor	Time	Location	Credits	Enroll Limits	Registration Notes	Curriculum Notes
AHS	AHSE0112	01	AHSE0112: The Olin Conductorless Orchestra	Dabby	R 6:45-9:00pm	AC318	1	n/a		
AHS	AHSE2155	01	AHSE2155: Constructing and Performing the Self	Adler, Jon; Wynstra, Beth (Babson)	TR 1:15-2:50pm	Babson Sorensen Ctr Black Box	4	6	small waitlist available; total of 18 for BOW schools	AHS Elective
AHS	AHSE2199	01	AHSE2199: Special Topics in Arts, Humanities, Social Sciences: Change the World: Personal Values, Global Impacts, and Making an Olin GCSP	Martello, Rob; Wood, Alison	TF 1:30-3:10pm	AC318	4	30	small waitlist available; Offered using Experimental Grading	AHS Elective
AHS	AHSE2199A	01	AHSE2199A: Special Topics in Arts, Humanities, Social Sciences: Video Communication	Houston-Edwards, Kelsey	M 1:30-3:10pm	AC428	2	8	small waitlist available; Offered using Experimental Grading	AHS Elective
AHS	AHSE3190	01	AHSE3190: Arts Humanities Social Sciences Capstone Preparatory Workshop	Epstein	n/a	n/a	1	n/a		required if planning on a Capstone project in Fall 2019
AHS	AHSE4190	01	AHSE4190: Arts Humanities Social Sciences Capstone Project	Epstein	TF 9:10-10:40pm	AC417	4	28		
CAPSTONE	ENGR4190	01-13	ENGR4190: SCOPE: Senior Capstone Program in Engineering	Hersey, Scott; Michalka, Sam; Sarang-Sieminski, Alisha; Stein, Lynn	W 9-6:00pm	varied	4	75	please enroll in the same section you are in for fall 2018	CAPSTONE-SCOPE
CAPSTONE	ENGR4290	01	ENGR4290: Affordable Design and Entrepreneurship Engineering Capstone	Hersey, Scott; Linder, Ben; et al	T 3:30-6:30pm; R 3:30-5:30pm	Weissman Foundry	4	15	Register for this course as a capstone; not a design depth	CAPSTONE-ADE
CAPSTONE	ENGR4599	01	ENGR4599: Engineering Capstone Alternative: Entrepreneurial Engineering Capstone	Harris, Scott; Woodard, Jason	W 1-5:30pm	AC304	4	6	enroll by application; see email notice from Jason Woodard	CAPSTONE-EEC
DSN	ENGR2250	01	ENGR2250: User-Oriented Collaborative Design	Adler, Jon; Ferguson Sauder, Tim; Linder, Ben; Ben-Ur, Ela; Bloomer, Sarah; Stein, Lynn	MR 9:50-12:30pm	AC204 MH120	4	32	waitlist available	required for all sophomores
DSN	ENGR2250	02	ENGR2250: User-Oriented Collaborative Design	Adler, Jon; Ferguson Sauder, Tim; Linder, Ben; Ben-Ur, Ela; Bloomer, Sarah; Stein, Lynn	MR 9:50-12:30pm	AC206 MH120	4	32	waitlist available	required for all sophomores
DSN	ENGR2250	03	ENGR2250: User-Oriented Collaborative Design	Adler, Jon; Ferguson Sauder, Tim; Linder, Ben; Ben-Ur, Ela; Bloomer, Sarah; Stein, Lynn	MR 9:50-12:30pm	AC209 MH120	4	32	waitlist available	required for all sophomores
DSN	ENGR3210	01	ENGR3210: Sustainable Design	Linder, Ben	MR 1:30-3:10pm	AC213	4	30	waitlist available	DSN Depth
DSN	ENGR3252	01	ENGR3252: Technology, Accessibility, and Design	Ruvolo, Paul	M 10:50-12:30pm; R 9-12:30pm	AC309	4	15	small waitlist available	DSN Depth
DSN	ENGR3290	01	ENGR3290: Affordable Design and Entrepreneurship	Hersey, Scott; Linder, Ben; et al	T 3:30-6:30pm; R 3:30-5:30pm	Weissman Foundry	4	15	Register for this course as design depth; waitlist available	DSN Depth
DSN	ENGR3299	01	ENGR3299: Special Topics in Design Engineering: Scientific Instrument Design for the Environment	Ferzoco, Alessandra	M 9-12:30pm; R 10:50-12:30pm	AC306	4	24	small waitlist available	DSN Depth
E: BE	ENGR3600	01	ENGR3600: Topics in Bioengineering	Sarang-Sieminski, Alisha	TF 10:50-12:30pm	AC109	4	12		Core BioE
E:C	ENGR2510	01	ENGR2510: Software Design	Hill, Ben; Millner, Amon; Staff	TF 10:50-12:30pm	AC318	4	30	waitlist available	Core ECE; Core E:C

Area	Course #	Sec #	Course Title	Instructor	Time	Location	Credits	Enroll Limits	Registration Notes	Curriculum Notes
E:C	ENGR2510	02	ENGR2510: Software Design	Hill, Ben; Millner, Amon; Staff	TF 10:50-12:30pm	AC326	4	30	waitlist available	Core ECE; Core E:C
E:C	ENGR3525	01	ENGR3525: Software Systems	Downey, Allen	TF 1:30-3:10pm	AC326	4	25	waitlist available	Core E:C
E:C	ENGR3599	01	ENGR3599: Special Topics in Computing: Databases	Pucella, Riccardo	R 1:30-4:00pm	AC428	4	30	small waitlist available	Elective E:C
E:C	ENGR3599A	SL	ENGR3599A: Special Topics in Computing: Data Structures Algorithms	Student Teaching Team with Paul Ruvolo	M 4:20-6:00pm; F 3:20-5:00pm	AC326	4	25	Student Led Course	Elective E:C
E:Robo	ENGR3392	01	ENGR3392: Robotics Systems Integration	Barrett, Dave	MR 3:20-5:00pm	AC128	4	28	waitlist available	Core E:Robo; Elective ME
ECE	ENGR2410	01	ENGR2410: Signals and Systems	Dabby, Diana	TF 1:30-3:10pm	AC304	4	34		Core ECE
ECE	ENGR2420	01	ENGR2420: Intro Microelectronic Circuits with laboratory	Minch, Brad	TF 9-10:40am; T 3:20-5:00pm LAB	AC309	4	28	small waitlist available	Core ECE
ECE	ENGR3420	01	ENGR3420: Introduction to Analog and Digital Communication	Govindasamy, Siddhartan	TF 10:50-12:30pm	AC304	4	24	small waitlist available	Core ECE
ECE	ENGR3430	01	ENGR3430: Ecelectronics	Minch, Brad	MR 10:50-12:30pm	AC304	4	24	small waitlist available	Elective ECE
ECE	ENGR3440	01	ENGR3440: Principles of Wireless Communication	Govindasamy, Siddhartan	TF 9-10:40am	AC304	4	24	small waitlist available	Elective ECE
ENGR	ENGR1330	01	ENGR1330: Fundamentals of Machine Shop Operations	Andruskiewicz, Bruce	W 1-5:00pm	AC104	4	6		Elective
ENGR	ENGR2199	01	<del>ENGR2199: Special Topics in Engineering: Temporary Autonomous Infrastructural Research Group</del>	Chachra, Debbie	MR 10:50-12:30pm	AC417	4	18	Offered using Experimental Grading	Elective
ENGR	ENGR2199A	01	ENGR2199A: Special Topics in Engineering: Small Satellite Lab II	Lee, Chris	T 3:20-5:30pm	AC426	2	10	small waitlist available	permission of instructor
ENTRP	AHSE1515	01	AHSE1515: Products and Markets	Lynch, Caitrin; Pratt, Joanne; Gamwell, Adam; Woodard, Jason	MR 1:30-4:10pm	AC318 AC326 AC328 MH120	4	90		Requirement - P&M
ENTRP	AHSE2515	01	AHSE2515: Iterate	Bowen, Jim	TF 9-10:40am	AC318	2	20	Session I; small waitlist available	see Entrepreneurship concentration in catalog
ENTRP	AHSE2515A	A1	AHSE2515A: Iterate	Bowen, Jim	TF 9-10:40am	AC318	2	20	Session II, small waitlist available	see Entrepreneurship concentration in catalog
ENTRP	AHSE3515	01	AHSE3515: Launch	Bowen, Jim	TF 9-10:40am	AC318	4	15		see Entrepreneurship concentration in catalog
Interdisciplinary	AHSE2141 / ENGR2141	01	Engineering for Humanity	Ben-Ur, Ela; Lynch, Caitrin	M 4:30-7:30pm; W 12:30-3:10pm	AC306	2+2	24		AHS Elective / ENGR Elective



Area	Course #	Sec #	Course Title	Instructor	Time	Location	Credits	Enroll Limits	Registration Notes	Curriculum Notes
Interdisciplinary	AHSE2160 / SCI1260	01	AHSE2160/SCI1260: The Intersection of Biology, Art and Technology	Donis-Keller, Helen	M 1-3:10pm; W 1-6:00pm	AC313 AC406	4+4	16	small waitlist available	AHS Elective / Bio Foundation
Interdisciplinary	CIE2019A	01	CIE2019A: Curriculum Innov Experiment: Quantitative Engineering Analysis I	Dusek, Jeff; Geddes, John; Somerville, Mark; Tow, Emily	MR 9:00-12:30pm; W 9-10:50am optional Review Session	AC109 AC113	8	36	Credit Distribution: 4 MTH, 3 SCI, 1 ENGR Content Distribution: 2 cr Multi-variable Calc; 2cr Linear Algebra, 3 cr Physics, 1 cr Engineering	Experiment-QEA1
Interdisciplinary	CIE2019A	02	CIE2019A: Curriculum Innov Experiment: Quantitative Engineering Analysis I	Dusek, Jeff; Geddes, John; Somerville, Mark; Tow, Emily	MR 9:00-12:30pm; W 9-10:50am optional Review Session	AC109 AC113	8	36	Credit Distribution: 4 MTH, 3 SCI, 1 ENGR Content Distribution: 2 cr Multi-variable Calc; 2cr Linear Algebra, 3 cr Physics, 1 cr Engineering	Experiment-QEA1
Interdisciplinary	ENGR3531 / MTH2131	01	ENGR3531/MTH2131: Data Science	Downey, Allen	MR 1:30-3:10pm	AC417	2+2	24	small waitlist available	Elective E:C / Probst Requirement
Interdisciplinary	MTH2188A / SCI2199A	01	MTH2188A / SCI2199A: Astronomy and Statistics	Nugent, Carrie	MR 10:50-12:30pm	AC318	2+2	18	small waitlist available	Math - ProbStat Requirement / SCI Elective
ME	ENGR2320	01	ENGR2320: Mechanics of Solids & Structures	Storey, Brian	TF 9-10:40am	AC326	4	40	waitlist available	Core ME
ME	ENGR2330	01	ENGR2330: Introduction to Mechanical Prototyping	Faas, Daniela	TF 10:50-12:30pm	AC128	4	40		Elective
ME	ENGR2350	01	ENGR2350: Thermodynamics	Ferzoco, Alessandra	TF 1:30-3:10pm	AC328	4	36	waitlist available	Core ME
ME	ENGR3345	01	ENGR3345: Mechanical and Aerospace Systems	Lee, Chris	MR 9-10:40am	AC328	4	30	small waitlist available	Elective ME
ME	ENGR3370	01	ENGR3370: Controls	Barragan, Patrick	7-10:00pm	AC304	4	24		Elective ME; Elective ECE
MTH	MTH2210	01	MTH2210: Linearity I	Hoffman, Aaron	MWR 9-10:40am	AC326	4	42		required for non QEA first year students
MTH	MTH3120	01	MTH3120: Partial Differential Equations	Hoffman, Aaron	TF 10:50-12:30pm	AC417	4	48		Math - Adv ME
SCI	SCI1130	01	SCI1130: Mechanics	Zastavker, Yevgeniya	MR 10:50-12:30pm	AC328	4	28	small waitlist available	SCI - Physics Foundation
SCI	SCI1230	01	SCI1230: Think Like a Biologist with Laboratory	Huang, Jean	TF 1:30-3:10pm; T 3:20-6:00pm	AC417; AC406 lab	4	24	small waitlist available	SCI - Bio Foundation
SCI	SCI1399	01	SCI1399: Special Topics in Chemistry: Paper Panacea, Part 1	Vanasupa, Linda	TW 3:20-6:00pm	AC409	4	21	Offered using Experimental Grading	SCI - MatSci Chem Requirement
SCI	SCI1410	B1	SCI1410: Materials Science and Solid State Chemistry: Environmental and Societal Impacts	Stolk, Jon	MR 3:20-6:00pm	AC413	4	21		SCI - MatSci Chem Requirement
E: BE	ENGR3600	01	ENGR3600: Topics in Bioengineering	Sarang-Sieminski, Alisha	TF 10:50-12:30pm	AC109	4	12		Advanced Biology
SUST	SUST3301	01	SUST3301: Sustainability Synthesis	Wood, Alison	M 3:30-6:30pm	AC417	4	8	max enrollment is 20 for all 3 colleges; small waitlist available	BOW Cert; Capstone course to Sustainability Certificate

Area	Course #	Sec #	Course Title	Instructor	Time	Location	Credits	Enroll Limits	Registration Notes	Curriculum Notes
ADMIN	AWAY1000	01	AWAY1000: The Study Away Program	Administration	n/a	n/a	4	n/a	enroll in this course if you will be studying away in the spring 2019 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				OIE or GenI Req										
	Monday				Tuesday				Wednesday								
9:00 AM	CIE2019A-01 & 02 Quantitative Engineering Analysis I MR 9-12:30pm AC109 and 113	MTH 2210 Linearity I MWR 9-10:40am AC326	ENGR 3299 Spec Topics Design: Sci Instrument Design M 9:00-12:30p; R 10:50-12:30p AC 306	ENGR 3345 Mechanical Aerospace Systems AC328	ENGR 2320 Mechanics Solids Structures TF 9-10:40a AC326	ENGR 2420 Intro MicroElectronic Circuits TF 9 & T 3:20 lab AC309	ENGR 3440 Prin of Wireless Comm AC304	AHSE 2515, 2515A, and 3515 Iterate and Launch AC318	AHSE 4190 AHS Capstone 9:10-10:40a AC417	MTH 2210 Linearity I MWR 9-10:40am AC326	CIE2019A-01 & 02 QEA I Optional REVIEW session 113						
10:40 AM 10:50 AM		ENGR 2250 Sec 01, 02, 03 User-Oriented Collaborative Design 9:50-12:30p AC 204, 206, 209 MH120	ENGR 2199 Spec Top Engr: Temp Autonomous Infrastruct Research AC417	ENGR 3252 Tech Access & Design M 10:50-12:30p; R 9-12:30; AC 309	ENGR 3430 Eclectronics AC304	MTH 2188A / SCI 2199A Interdisciplinary Topic: Astronomy & Stats AC318	ENGR 2510, sec 01 Software Design AC318	ENGR 2510, sec 02 Software Design AC326	ENGR 3600 / SCI2299 Topics in Bioengineering AC109	ENGR 3420 Intro Analog and Dig Comm AC304	MTH 3120 Partial Differential Equations AC417	ENGR 2330 Mechanical Prototyping AC128	Open Meeting Time				SCOPE
12:30 PM	Open Meeting Time																
1:30 PM	AHSE 1515 All Sections Products & Markets MR 1:30-4:10p AC318 AC326 AC328 MH120	AHSE 2199A Spec Topics AHS: Video Communication M 1:30-3:10 AC428	MTH 2131 & ENGR 3531: Data Science AC417	ENGR 3210 Sustainable Design AC213	AHSE 2160 /SCI1260 Intersection of Biology Art and Tech 1-3:10pm and W 1-6pm AC313	ENGR 2410 Signals and Systems AC304	ENGR 2350 Thermodynamics AC328	SCI 1230 Think Like a Biologist w/ Lab AC417	ENGR 3525 Software Systems AC326	AHSE 2199 Spec Top AHS: Change the World AC318	AHSE 2155 Constructing and Performing the Self TR 1:15-2:50pm @Babson	AHSE 2141 /ENGR2141 Engineering for Humanity M 4:30-7:30; W 12:30-3:10pm AC306	ENGR 4599: Capstone Alternative: Entrepreneurial Engineering Capstone W 1-5:30pm AC304	ENGR 1330 Find Machine Shop Oper 1:00-5:00p AC104	ENGR 4190		
3:10 PM 3:20 PM		SCI 1410 -B1 Materials Science and Solid State Chemistry: Env'tl and Societal Impacts AC413	ENGR 3392 Robotics Systems Integration AC128	SUST3301 Sustainability Synthesis 3:30-6:30 AC417		SCI 1399 Spec Top Chemistry: Paper Pancea, Part I MW 3:20-6pm AC409		SCI 1230 Think Like a Biologist LAB AC406	ENGR 3290 and 4290 Affordable Design & E! Tues 3:30-6:30p Thurs 3:30-5:30p Weissman Foundry	ENGR 2199A Spec Top Engr: Small Satellite Lab II T 3:20-5:30 AC426	ENGR 2420 Intro MicroElectronic Circuits TF 9 & T 3:20 lab AC309	AC313 and AC406	SCI 1399 Spec Top Chemistry: Paper Pancea, Part I MW 3:20-6pm AC409				
5:00 PM				AHSE 2141 /ENGR2141 Engineering for Humanity M 4:30-7:30; W 12:30-3:10pm AC306	ENGR 3599A Spec Topics in Computing: DSA M 4:20-6pm F 3:20-5pm AC326												
6:00 PM																	
9:00:00 PM										ENGR 3370 Controls 7-10pm AC304							

AHSE		SCI		Math		INTEGRATED OFFERING (colored via discipline blending)		Color Key-Offering Blocks			
Thursday					Friday						
CIE2018A-01 & 02 Quantitative Engineering Analysis I MR 9-12:30pm AC109 and 113	ENGR 2250 Sec 01, 02, 03 User-Oriented Collaborative Design 9:50-12:30p AC 204, 206, 209 MH120	MTH 2210 Linearity I MWR 9-10:40am AC326	ENGR 3345 Mechanical Aerospace Systems AC328	ENGR 3252 Tech Access & Design M 10:50-12:30p; R 9-12:30; AC 309	ENGR 2320 Mechanics Solids Structures TF 9-10:40a AC326	ENGR 2420 Intro MicroElectronic Circuits TF 90 & T 3:20 LAB AC309	ENGR 3440 Prin of Wireless Comm AC304	AHSE 2515, 2515A, and 3515 Iterate and Launch AC318	AHSE 4190 AHS Capstone 9:10-10:40a AC417	9:00 AM	
										10:40 AM	
ENGR 2199 Spec Top Engr: Temp Autonomous Infrastruct Research AC417	SCI 1130 Mechanics AC328	ENGR 3299 Spec Top Dsn: Sci Instr Dsn M 9-12:30; R 10:50-12:30p AC306	ENGR 3430 Electronics AC304	MTH 2188A / SCI 2199A Interdisciplinary Topic: Astronomy & Stats AC318	ENGR 2510, sec 01 Software Design AC318	ENGR 2510, sec 02 Software Design AC326	ENGR 3600 / SCI2299 Topics in Bioengineering AC109	ENGR 3420 Intro Analog and Dig Comm AC304	MTH 3120 Partial Differential Equations AC417	ENGR 2330 Mechanical Prototyping AC128	10:50 AM
											12:30 PM
AHSE 1515 All Sections Products & Markets MR 1:30-4:10p	MTH 2131 & ENGR 3531: Data Science AC417	ENGR 3210 Sustainable Design AC213	ENGR 3599 Spec Topics in Computing: Databases R 1:30-4pm AC428	AHSE 2155 Constructing and Performing the Self TR 1:15-2:50pm @Babson	ENGR 2410 Signals and Systems AC304	ENGR 2350 Thermodynamics AC328	SCI 1230 Think Like a Biologist AC417	ENGR 3525 Software Systems AC326	AHSE 2199 Spec Top AHS: Change the World AC318	1:30 PM	
										3:10 PM	
AC318 AC326 AC328 MH120	SCI 1410 -B1 Materials Science and Solid State Chemistry: Evtl and Societal Impacts AC413	ENGR 3392 Robotics Systems Integration AC128	ENGR 3290 Affordable Design & E! T 3:30-6:30p R 3:30-5:30p Weissman AC213	ENGR 3599A Spec Topics in Computing: DSA M 4:20-6pm F 3:20-5pm AC326	"Do Something" Dedicated Time					3:20 PM	
										5:00 PM	
AHSE 0112 Olin Conductorless Orchestra 6:45-9pm AC318										6:00 PM	
										9:00:00 PM	