

# Fall 2022 Supplement and Course Offerings List

(vol21, no1.3, August 31, 2022)

Information Contained In this Document:

- 1) Schedule of Deadlines: Add/Drop; Pass/No Credit; Withdraw
- 2) Cross-Registration Deadlines and Instructions
- 3) Registration Special Notes
- 4) Catalog Supplement (courses *new* to catalog for 2022-23 or *special topics*)
- 5) Course Offerings List
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## 1) Schedule of Deadlines: Add/Drop; Pass/No Credit; Withdraw

Session	Add	Drop and Pass/No Credit	Withdraw
Full Semester (Aug 31 – Dec 12)	September 14, 2022	November 4, 2022	December 12, 2022
Session I (Aug 31 – Oct 18)	September 8, 2022	October 3, 2022	October 18, 2022
Session II (Oct 20 – Dec 12)	October 28, 2022	December 5, 2022	December 12, 2022

## 2) Cross-Registration Deadlines and Instructions

Click [HERE](#) for Cross-Registration FAQ

	Babson	Brandeis	Wellesley
Cross-registration open period	4/22/22 – 9/2/22 @7:30am	7/19/22-9/8/22@11:59pm	4/22/2022 – 9/16/22 @11:59pm
First day of classes	8/29/22	8/25/22	9/6/22
Drop deadline	9/2/22 @4pm	11/14/22	9/30/22 @11:59pm
Withdrawal Deadline	11/1/22	TBD	12/14/22 @4:30pm
Last day of Classes	12/5/22	12/7/22	12/14/22
Finals Period	12/8/22 - 12/15/22	12/9/22-12/19/22	12/19/22-12/22/22

Questions? Contact the Registrar's Office at Olin College, [registrar@olin.edu](mailto:registrar@olin.edu).

### 3) Registration Special Notes

#### **Course Schedule Blocks:**

We are returning to 100-minute blocks, 10 minutes between blocks and the common one-hour lunch block for the Olin Community! Blocks between 8:30am to 5:30pm are on Monday/Thursday, Tuesday/Friday patterns; Evening blocks, 6pm-8:40pm are on Monday/Wednesday and Tuesday/Thursday patterns.

#### **Curriculum Category in the Offerings List (pdf):**

Based on positive feedback, we are continuing to use the *curriculum category* in our Course Offerings List. This will help you know what the offering typically corresponds to for specific degree requirements. This column should also help Engineering degree students with flexible concentrations understand the generalized topic track of a particular course. Additionally, sometimes these categories change as Olin changes so be sure to reference them and to inquire if you have questions. Use these as a guide. Use the catalog for further information either in degree requirements or via the course description.

#### **Class of 2023 CAPSTONE Registrations:**

Based on the results of the Capstone survey, you will be notified by the capstone team if you have been assigned to ADE, SCOPE or EEC. The Registrar's Office will then register you for your assignment. If you have questions about your assignment, please connect with Scott Harris (EEC), Scott Hersey (SCOPE), and/or Ben Linder (ADE). Or, if you have other questions, please contact [registrar@olin.edu](mailto:registrar@olin.edu).

#### **Thesis Option**

A reminder for students and advisers that Olin has a year-long Thesis Research option available to students working with faculty mentors. The program provides an opportunity for students to conduct advanced research work over a duration of two consecutive semesters that culminates in a written thesis document. Enrollment in the thesis option is by faculty mentor approval. Students would register for an ISR-G Thesis Research in Semester 1 and ISR-G Thesis in Semester 2. See [Olin College of Engineering - Curricular and Experiential Learning Prototypes \(smartcatalogiq.com\)](https://smartcatalogiq.com) for details.

#### **Sophomores (Class of 2025): Some Details:**

- The Quantitative Engineering Analysis (QEA) sequence continues into your 2<sup>nd</sup> year at Olin. All currently enrolled students in QEA2 have been preregistered into QEA3.
- Your time to take Principles of Integrated Engineering (PIE) is Fall 2022. There are 4 sections being offered for all rising sophomores.

#### **Information about Discrete Math:**

The demand for Discrete Math this fall (2022) significantly exceeds the number of seats we can offer in two sections without compromising the student experience. To help with the high demand, we are considering two ideas. One idea is to offer a "taste of Discrete" next spring (2023) in a new class that covers the main ideas of discrete math with a focus on developing curriculum to bring discrete topics to middle and high school classrooms. This might be a good option for students who want exposure to discrete math but who do not need the full rigor of the regular course that is required for ECE and E:C majors. The second idea we are considering is to again delay the move of regular Discrete to the spring, keeping a fall Discrete in 2023. Although the planned change to the spring will better align Discrete with the QEA sequence, we understand that it is causing scheduling difficulties for current students. We share the above context with you for your planning. If you do not require Discrete for your major, we strongly recommend delaying your enrollment and perhaps express interest in 'taste of Discrete'. You may express interest by emailing [Linda Canavan](mailto:Linda.Canavan).

If you are an E:Robo major please read this updated guidance:

The “taste of discrete” class for spring 2023 **will be appropriate for E:Robo students** as long as their projects focus on robotics-related discrete topics such as algorithms on graphs. ECE and E:C students should take the regular Discrete course in Fall 2022. “

### **ME Core update**

- No core Mechanical Engineering requirements are changing next year, and no courses are going away yet
- Some courses (like Thermo and Transport) are being delivered differently
  - Each topic will be taught in 2-credit segments, with the intro versions in the fall and the intermediate versions in the spring
  - Introduction to Thermodynamics + Intermediate Thermodynamics, in combination, are a designated alternative for ENGR2350 Thermodynamics
  - Introduction to Transport Phenomena + Intermediate Transport Phenomena, in combination, are a designated alternative for ENGR3310 Transport Phenomena
- We are offering ENGR2320, Mechanics of Solids and Structures in both the fall and the spring semesters next year to spread out the demand. For rising juniors needed Mech Solids that are considering studying away in the spring, the fall offering is desirable. For rising sophomores planning on the 2 credit Intro Thermo/2 credit Intro Transport sequence in fall 2022, MechSolids may be best placed in your spring semester (SP23) as you will also have QEA3 and PIE in the fall.

### **Waitlists for Courses with Two Numbers:**

If you want to join a waitlist for **AstroStats** (MTH2136 and SCI2136) please email [registrar@olin.edu](mailto:registrar@olin.edu) after you register. We will maintain a waitlist as the system does not allow waitlists for course with two numbers.

### **What is a cross-listed course?:**

There is one cross-listed course in Fall 2022: **Failure Prevention and Analysis** (ENGR3820 or SCI3420):

- Choose **ENGR3820** for **ELECTIVE** credit, or
- Choose **SCI3420** for **ADV SCIENCE** credit

Cross-listing is a term associated with two distinct course numbers for a single academic activity. The activity can be defined under two topics depending on what aspect of the course content a student focuses on during their enrollment. To this end, the student elects the path at the beginning of the course (no later than the last day to add) by selecting the appropriate course number. The distinction is important because it could frame your project and impact how your experience works toward completing a requirement.

## **4) Catalog Supplement**

**Degree requirements and course requisites** 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.

### **New, Updated, and Special Topics Courses**

#### **ENGR2399: Special Topics in Mechanical Engineering:**

***Applied transport: measurement of flow and sedimentation***

Instructor: Ferzoco

Credits: 2 ENGR

Hours: 4-0-8

Pre-requisites: ENGR1125 and ENGR2350

Registration Note: Session I course; students must also register for session II, Intro Transport

This course will focus on observations and measurements of fluid flow and sedimentation. Fluid flow and particulate transport determine a range of observable phenomena that impact human health and the planet. We can study the phenomena that occur at laboratory scales, for example particulate monitoring and mitigation in municipal water supplies, using measurements on model systems. Phenomena that occur on inaccessible time and spatial scales, for example the human impact on sedimentary basins, will be studied through the scientific literature.

**AHSE1160-01: Democracy and Media**

Instructors: Graeff

Credits: 4 AHS

Hours: 4-0-8

*Registration note: AHS FOUNDATION; restricted to first year students*

Every day, you have the opportunity to choose democracy. When we think of democracy, we usually think of a form of government: a representational democracy like the United States. But, the experience of participating in a representational democracy is not always democratic. Conversely, companies and colleges like Olin are not organized as democracies, and yet the people that work and study there have many opportunities to practice democracy. Democracy is something you, and those around you, can choose to create and practice. To achieve this, we must acknowledge that democracy is contextual and mediated. Dimensions such as gender, race, class, ideology, norms, economics, and institutional power all affect the political standing of citizens and issues. Media, too, has long shaped the experience of democracy: debate, writing, voting, and petitioning are ancient technologies. The design and use of contemporary information and communication technology dramatically shape how democracy plays out. This course will ask you to confront this tangle of interests, identity, technology, and power. We will ask ourselves the quintessential civic question: "What should we do?" and consider "What is my role and responsibility as a citizen? as an engineer? as a member of the Olin community?" You will explore ways to make the spaces you live and work in more democratic. You will practice using your voice and influence to make change through public narrative, collective action, and media.

**AHSE1170: 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.

**AHSE2135: Digital Photography: Seeing is Believing**

Instructor: Donis-Keller

Credits: 4 AHS

Hours: 4-0-8

Recommended Requisites: no prior courses or experience is required or expected

This course is all about the communication of ideas and developing an independent creative voice in the visual arts using digital photography as the medium of choice. Fine art photography and documentary photography are the twin focus

areas with individual expression fostered and doing good in the world using photography will be prioritized. Digital Photography: Seeing is Believing, will be a hands-on course taught in studio mode and will be project-based with weekly homework assignments that also includes several major projects allowing longer-term project engagement. Digital single-lens reflex (DSLR) cameras, digital editing tools and printing capabilities are provided and gaining technical facility with these tools is an important goal. We will consider the many interpretations of fine art photography from traditional landscape work to conceptual art. A second equally important focus is how photography can be used to do good in the world, in particular, to call attention to climate change and what to do about it. The work of contemporary fine art photographers and documentary photographers will be studied in depth and trips to museum and gallery exhibits will be scheduled as appropriate as will field trips with the class to capture images in interesting locations. Students with no prior experience with photography are strongly encouraged to enroll in this course and are as welcome as those who have already discovered a passion for creative expression using photography.

### **AHSE2116: Framing History through Comics: Icons, Identities, and Impacts**

Instructor: Martello

Credits: 2 AHS Elective

Hours: 4-0-8

*Registration notes: Session II course*

Comic books and graphic novels unlock the epic potential of narrative storytelling. In Framing History we will explore how comics make history (what would you choose as the most impactful comics and graphic novels of all time?) as well as how they portray history. We will study a selection of classic graphic novels in different genres such as biography, autobiography, history, superhero, activism, children's fiction, and others. As we analyze the dynamic space where prose meets art, we will also learn how comics reflect their historical context while impacting so many aspects of our society in return. This course will rely heavily upon student input and feedback, and will use the co-design model to invite students to help test new assignments and design important elements of the class. Our journey will feature plot twists and cliffhangers and promises to be a true page-turner!

### **ENGR3820 or SCI3420: Failure Analysis and Prevention**

Instructor: Stolk

Credits: 4 ENGR or 4 SCI (cross-listed)

Hours: 4-0-8

Pre-requisites: SCI1410, SCI1420, SCI1440, or CIE2122

Recommended Requisites: Materials lab experimentation skills (hands-on testing and analysis, experimental design),

Self-regulated learning skills, and Primary literature reading skills

In this class, we learn failure analysis by doing failure analysis. By planning and implementing hands-on investigations in a laboratory setting, we will gain practical experience in the analysis of engineered components and systems that fail in expected or unexpected ways. Case study readings and class discussions will help us develop an understanding of technical topics such as failure analysis methodology, fracture classifications and micromechanisms, corrosion and degradation, and materials selection and design decision-making. Self-directed projects will enable skill building in laboratory methods and advanced materials characterization techniques, such as scanning electron microscopy (SEM), energy dispersive spectroscopy (EDS), x-ray diffraction (XRD), Fourier transform infrared spectroscopy (FTIR), optical microscopy, and fracture surface sample preparation.

We won't stop there. We will broaden our learning by critically analyzing how "engineering" failures intersect issues of economics, policy, regulation, justice, and ethical decision-making in complex systems. We will pay particular attention to the social and environmental consequences of larger systemic failures by examining concrete case studies (e.g., the Flint water crisis, Love Canal, e-waste in Guiyu) as well as more abstract and aspirational models for the future (e.g., material circularity, extended producer responsibility).

Written and oral communication assignments will support development of professional skills in synthesizing laboratory and research data, developing and supporting technical arguments, and contextualizing our findings.

## **SCI2299: Special Topics in Biological Sciences:**

### ***How your immune system keeps you alive***

Instructor: Pratt

Credits: 2 SCI

Hours: 3-3 (first 3 may be either class or lab)

Registration Note: *This course is being offered using Experimental Grading (EG)*

When the immune system functions properly, infectious pathogens (bacteria, viruses) and potential cancer cells are destroyed. When our immune system malfunctions, normally harmless microorganisms can cause serious infections, autoimmune diseases or allergies can develop, and cancer cells can grow unchecked. In this class, we will learn how the components of the immune system work together to protect us and investigate cutting edge technologies that leverage our understanding of how the immune system works. This course does not satisfy the biology foundation requirement. This course will be graded using **experimental grading**.

## **CANCELLED**

### ~~**ENGR3499: Special Topics in Electrical and Computer Engineering:**~~

#### ~~***Power Electronics***~~

~~Instructor: Arnet~~

~~Hours: 4-4-4~~

~~Registration notes: ECE elective~~

~~Prerequisites: ISIM and Circuits~~

~~In this course, the student will learn the fundamentals of power electronics in the context of DC-DC switched-mode power supplies. The material studied is multidisciplinary, covering the analysis and control of power-converter topologies, design and fabrication of magnetic components and realization of MOSFET powerstages. The theory is taught in an applied and design-oriented fashion through simulation-based analysis and hands-on and collaborative experimentation. It is a primary objective of this course to apply fundamental concepts with the aim of developing an intuitive big picture understanding and to encourage independent exploration. The applied component of the class is centered around a low-voltage flyback converter. The lesson modules will gradually build up the necessary knowledge to design and build a custom flyback transformer, specify key powerstage components including snubber and clamping circuits and realize an analog closed-loop voltage controller.~~

~~Topics that will be introduced/revisited include:~~

- ~~• Modeling and simulation of switched-mode topologies~~
- ~~• Reading datasheets and extracting key information for modeling and design purposes~~
- ~~• Electromagnetic principles for the design of inductors and transformers~~
- ~~• Semiconductor operation and loss calculations~~
- ~~• Selection of powerstage components (MOSFET, filter capacitors, gate drivers)~~
- ~~• Protection circuits and snubber design~~
- ~~• Calculating and measuring transfer functions~~
- ~~• Tuning and implementing analog control loops (loop-shaping method)~~

~~Students will be asked to complete pre- and post-class assignments, and to provide weekly evidence of their explorative work by submitting engineering notes with original contents. Additionally, students will be teamed-up into groups to further investigate specific topics and present their findings to the rest of the class.~~

## **ENGR2355: Introduction to Thermodynamics**

Instructor: Tow

Credits: 2

Hours: 3-0-9

Note: This course in combination with Intermediate Thermodynamics (to be offered Spring 2023) are a designated alternative for ENGR2350 Thermodynamics. Students cannot also receive credit for ENGR2350 Thermodynamics.

Registration notes: Session I course

This course covers the fundamental principles of thermodynamics as applied to engineering systems. It provides a foundation in fundamental thermodynamic phenomena, including the first and second laws of thermodynamics, thermodynamic properties, and equations of state in ideal gases and incompressible fluids. The basic laws are used to understand and analyze the performance and efficiency of engineered systems and the behavior of the natural world.

**ENGR2365: Introduction to Transport Phenomena**

Instructor: Tow

Credits: 2 ENGR

Hours: 3-0-9

Note: This course in combination with Intermediate Transport Phenomena (to be offered Spring 2023) are a designated alternative for ENGR3310 Transport Phenomena. Students cannot also receive credit for ENGR3310 Transport Phenomena.

Registration notes: Session II course

This course introduces the basic physics and applications of heat transfer and fluid flow. Topics in heat transfer include conduction, convection, and resistance networks, with an emphasis on thermal modeling. Topics in fluid flow include dimensional analysis, pipe flow networks, inviscid flows, and basic aerodynamics. We will model sustainable technologies, create and fly kites, and consider thermal-fluid phenomena in everyday life.

**AHSE2199: Special Topics in Arts, Humanities, Social Sciences:**

***Contemplating Education***

Instructor: Zastavker

Credits: 4 AHS

This course is an invitation for all of us – students, course assistants, and instructors – to contemplate together (engineering) education. Contemplation refers to thoughtful observation, reflection, consideration, or intention, sometimes associated with deeper awareness and sense of presence. When leveraged in learning environments, contemplation – holistically defined – offers opportunities to “become more aware of [ourselves], become more conscious of the impact [we] have on the world ... and connect [our] learning to [our] values and sense of meaning” (Contemplative Pedagogy Network). By leveraging contemplation and associated contemplative practices, we will together move beyond ‘third person’ didactic approaches dominant in engineering and scientific discourses to ‘first person’ perspectives that incorporate mind, body, and heart. Specifically, together we will use contemplative practices – both individual and communal, internal, and external – to allow for an emergence of deeper meaning of self as a learner and the (engineering) education paradigm through the development of compassion, empathy, connectedness, and creativity. To this end, we will begin by theorizing Olin education within the larger context of the (engineering) education paradigm followed by holistic and embodied contemplation about our collective and individual experiences of and with the Olin educational milieu. In doing so, we invite and actively engage all our diverse ways of being and knowing to experientially understand and reflect on the ways in which holistic and embodied pedagogical practices impact teaching and learning. This is particularly important in today’s (engineering) education where consequences of our potential disinclination to include our whole and diverse senses of self is critically harmful for our individual and collective future. In this way, this course is an invitation to engage in a conversation about revolution, or possibly evolution, of (engineering) education – the invitation that is also potently described in *A Whole New Engineer: The Coming Revolution in Engineering Education* by David E. Goldberg and Mark Somerville.

**AHSE2199B: Special Topics in Arts, Humanities and Social Science:**

***Understanding Institutions: Creating Change at Olin and in the World***

Instructors: Lynch, Somerville

Credits: 2

Hours: 3-0-3

In this 2-credit course, students will learn about methods and strategies to create positive change in their immediate lives. The course will focus on understanding institutions, systems, people, power, decision-making, and collaboration. Students will bring their perspectives and ideas about change, and Olin will serve as a case study for learning and action. In this action-oriented workshop class, students will both execute projects and draw larger lessons to take with them to communities and institutions after graduation. Course activities will include reading, consuming media, writing, discussion, and conducting real-world projects. Seats in the class will be reserved for 6 sophomores, 6 juniors, and 6 seniors. The instructors are Mark Somerville (Provost) and Caitrin Lynch (Dean of Faculty). This is a chance for students and instructors to bring their perspectives and observations to create positive change together.

### **AHSE2515: Iterate**

Instructor: Ger

Credits: 4 (NOTE – this is a full semester 4 credit course; there will not be ½ session 2 credit courses)

The fall 2022 version of Iterate will focus on Social Entrepreneurship. As a result of taking this course, students will be able to better understand issues both big and small that face our world, country, and communities. Students will choose an area of focus, develop an idea and test its viability, feasibility, and desirability. The class offers a structure for students to test and validate ideas; research and understand a topic; formulate ideas and solutions; and complete experimental sprints. After each sprint, students will further refine ideas with the goal of creating a meaningful product or service. Each experiment cycle will include testing a different question, hypothesis, or assumption about an entrepreneurial idea by getting in front of real people. Outside resources, mentors, and advisors will be engaged based upon the specific needs of each project. Students may participate in the course as individuals or in teams, and it is a requirement to pursue a new idea (not something already being pursued prior to the start of the class, nor something that will be pursued in another course at the same time). Iterate is now a 4-credit course, and it may be taken multiple times for full credit. Four credits of this course may also be used to satisfy the project requirement as part of an entrepreneurship concentration.

### **AHSE2199A: Special Topics in Arts, Humanities, Social Sciences:**

#### ***The Craft of Nonfiction: Understanding How Writing Works***

Instructor: Hendren

Credits: 4 AHS

Hours: 3-0-9

This AHS elective is focused on reading and writing in response to many genres of creative nonfiction: books, essays, films, podcasts, and more. We'll read widely from a huge range of writers in these genres, and we'll discuss the big and small elements of craft that we identify in the best nonfiction communications: How is the work structured, with character, reportage, and/or analysis? How would we characterize "voice" in nonfiction? What are the best forms of rhythm, pacing, musicality, and surprise we can identify? Your weeks will be filled with other people's words, and you'll write detailed responses to those words and discuss them in class. You'll discover modes of craft and technique in writing, helping you to distinguish among the many forms of writing that convey true stories in our everyday lives. (Note that your own nonfiction writing will be short and modest in this class. We're mostly focused on discussing how the professionals do their thing!)

### **ENGR2299: Specials Topics in Design:**

#### ***Introduction to Architecture and Urbanism: Public Space as Public Sphere***

Instructor: Hendren

Credits: 4 ENGR

Hours: 3-0-9

#### **\* UPDATED COURSE DESCRIPTION\***

This design elective is a project-augmented **seminar**—heavy on **reading in history** and **criticism** about the work of buildings and city streets in shaping public life, with modest design proposals as experiments in practice. Perfect for folks thinking about the intersection of design and engineering, as well as students interested in architecture, urban planning, and public space. How do buildings reflect the inherited values of a culture, and how might they shape and re-shape human behavior in the future? How does the city become a civic theater for shared life? There

will be substantial written analysis required each week as we read deeply in urbanism and design criticism, so **come if you're interested in words**. You'll leave class with some strong literacy in understanding the operations of the built world at architectural scale, and with an introductory credit suitable for several design concentrations.

**ENGR3399: Special Topics in Engineering:**

***Mechanical Analysis***

Instructors: Student Led Course with Advisor Daniela Faas

Credits: 2ENGR

Recommended Requisites: ENGR2320, Mechanics of Solids and Structures

Mechanical Analysis (MechAnalysis) is a 2 ENGR Credit opportunity that expands upon existing mechanical engineering concepts in the curriculum, introduces practical analysis methods not currently covered, and will provide a more concrete toolkit for analyzing engineering problems encountered throughout a student's Olin education and early career.

This course will be taught by MechE super seniors: Carlos G., Katie G., Colin T., and Nathan W. After almost four years at Olin we've accumulated this knowledge via 3 different project teams, 10 technical internships, and 3 separate SCOPE projects. These experiences have illustrated the value of the material covered in this course and formalizes learning we had acquired from peers, personal research, and external courses.

MechAnalysis bridges the gap between where students are after MechSolids and where they are expected to be for technical internships or advanced ME courses. We will revisit and expand upon concepts taught in MechSolids (ENGR2320), and will give you tools to confidently and thoroughly design and analyze the projects you will create in MechDes (ENGR3330). **MechSolids is a recommended, but not required prerequisite for MechAnalysis. If you are unsure if this course will be a good fit for you, feel free to reach out to any of the teaching team to discuss.** Material will be taught primarily through in-person lectures and bolstered by brief problem sets due every other week.

**MTH2130: Probability and Statistics Topic:**

***Probabilistic Modeling (ProbMod)***

Instructor: Staff

Credits: 4

As we strive to better understand the world around us, interact with it, and make informed decisions, it is important to be able to model uncertainty. Moreover, our natural intuitions about uncertain events are often incorrect. Probability provides the language and formalisms to help us model and analyze uncertain situations. Through a series of applied modeling projects, we will learn the foundations of probability theory and practice the art of choosing appropriate probabilistic models. Probability concepts covered will include counting; conditional probability and Bayesian inference; independence; random variables and their properties such as expectation, variance, and covariance; and limit theorems. Discrete and continuous random processes covered will include Bernoulli processes, Poisson processes, Markov processes (including their use in Markov chain Monte Carlo simulation), and Brownian motion. Students will select their own projects from a wide range of fields, such as network science, robotics, genetics, climate modeling, signal processing, machine learning, simulation, epidemiology, finance, queuing theory, communications and information theory, and neuroscience.

**ENGR3599: Special Topics in Computing:**

***Larger-scale Software Development***

Instructor: Matsumoto

Credits: 4 ENGR

Hours: 4-0-8

Pre-requisites: ENGR 2510: Software Design

Recommended Requisites: ENGR 3515: Data Structures and Algorithms

In this course, students will learn about developing, deploying, and maintaining larger software through the lens of building useful software or services for the Olin community. In doing this, the course will look at topics including more advanced workflows in version control, how to set up and configure virtual machines both locally and in the cloud, how to monitor services, and how to work on teams to do things like code reviews and postmortem analysis. Students will practice these skills through both smaller exercises and by contributing to larger projects over the semester.

**CIE2223: Curricular Innovation Experiment: -- NEW COURSE!**

***Just Energy! Beginning Again***

Instructor: Vanasupa

Credits: 4 E: Sust Core; AHS, ENGR, MatSci/Sci, ME Elective, ECE Elective

Recommended Requisite: 1st-year course sequence, minimum (course involves teams with differing skills)

The incumbent system of energy production from fossil fuels is inherently unjust; this course is a project-based experience in transitioning to renewable energy in a way that follows the Climate Justice Alliance principles for a just transition to a generative economy. We will explore the systems science and engineering of renewable energy, integrating the social and technical dimensions. As a class project, we will also self-organize into teams to do the needed engineering work to set up a 50 kW vertical axis wind turbine as a nano-grid on Olin's campus. This will involve a diverse scope of activities which we will co-create together with the partnership of some external advisors. Examples: a group may explore the regulatory and technical siting requirements and work with the Olin community to choose potential nano-grid locations; a group may address safety modifications and design the mounts and peripheral guards that meet safety standards; a group may explore the materials science questions for servicing and maintenance; a group may explore the governance process and protocols for community use of the hub. Learners will develop capacities to apply their knowledge in a transdisciplinary setting, which is distinct in its design orientation of "power with" others. Learners can choose to focus their project efforts so that the course satisfies any of the following requirements: MAT SCI, ENGR, SCI, ME or ECE elective credit. This course is open to those who have taken Renewable Energy.

**No longer being offered:**

*To Cradle2Cradle or not?*

Instructor: Vanasupa

Credits: 4 Intro Sust; ENGR, SCI or MatSci

~~Project-based course focused on designing a decision protocol for engaging Cradle2Cradle certification through building essential embodied leadership capacities.~~

~~This project based offering builds transdisciplinary practices required for sustainable co design. The Cradle2Cradle (C2C) certification is product certification process that involves holistic criteria: Social Fairness; Water & Soil Stewardship; Clean Air & Climate Protection; Product Circularity; and Material Health. As a class, we will learn the C2C methodology and design a decision protocol for companies to assess the potential value of using C2C for a particular product. As a foundation, we will also be practicing embodied methods for consciousness based systems change.~~

**Help Shape a Project on the Inequities of Higher Ed**  
**Indico XLP "Experiential Learning Project" Fall 2022**

Work with Prof. Lynn Stein, [Slater Victoroff](#), [Phil Long](#), and Callan Bignoli to build AI tools that will structurally change higher education and industry, supporting Lifelong Learning for Everyone.

\*This project will be worth either 8 or 12 academic credits, there is flexibility here. Contact Sally or Lynn asap if you're interested. \*

## **About the Project:**

At Olin, it's easy to forget that higher ed is broken. What was intended to be a gateway to a better life has instead become a gatekeeping nightmare of debt. As always - the problem is even worse for people without the means to graduate. Degrees are required for even entry level jobs, and despite the rare success of the college dropout, employers are often unwilling or unable to consider other forms of education. This is the problem we want to solve.

Bleeding edge AI techniques (from **Indico** so we \*actually\* mean that) developed in the past several years have fundamentally changed the way we can look at the world around us. The hope is to combine these techniques with an overlay of the w3c's verifiable credential standard to create a radically accessible new way for individuals to represent their competencies and expertise. The verifiable credential standard is a new way represent achievements, skills and competencies as structured data. But there are tens of millions of people who have achievements and credentials in unstructured form like transcripts and certificates. Still others have learned valuable skills on the job but have no structured way to self-assert them. These workers must not be left behind. The application of current AI techniques can bridge the chasm between the credentials of the past and those emerging today. Help build the digital on-ramp to future work.

**Indico** is a local venture-backed startup founded by our own Slater Victoroff, that makes the application of deep learning practical in the enterprise. Their focus is on helping automate tedious back-office tasks, and improve the efficiency of labor-intensive document-based workflows. The fundamental branch of technology used is known as transfer learning, which allows us to train machine learning models with orders of magnitude less data than is required by traditional techniques, with a strong emphasis on NLP and text processing.

## **Olin CW Story Slam**

### **Instructor(s)**

Gillian Epstein & Jon Adler

### **AHS Credit**

We are thrilled to offer our story slam experience as a group Independent Study for 2 AHS credits. Opt in for credits if you like...or not. Up to you!

### **Meetings and Performance**

A one-hour meeting) every two weeks during Fall 2022 semester (day and time TBD based on group schedules);  
Perform at Candidates' Weekends Spring 2023 semester (specific dates TBD)

### **Description**

Interested in developing a short, creative non-fiction story about you? Want to perform your story at our 6<sup>th</sup> Candidates' Weekend Story Slam? We can't wait to collaborate!

Here are some wonderful examples from the past:

- Entire 2021 (Zoom) Story Slam: <https://www.youtube.com/watch?v=KiU4tXZTq4k&t=17s>

- Antonio Perez (2019): <https://www.youtube.com/watch?v=4E8rsNNReAA&t=54s>

- Hwei-Shin Harriman (2019):

[https://www.youtube.com/watch?v=g9THZ\\_jkry0&t=10s](https://www.youtube.com/watch?v=g9THZ_jkry0&t=10s)

Join us to craft, practice, and perform stories that will capture our community's imagination. Bond with fellow students, unleash your creativity, receive individualized coaching while developing your storytelling voice, and get 2 AHS credits!

### **Deliverables**

Students are required to produce iterative drafts leading to a final "story slam" piece, about 5 minutes in length. Students will perform this piece at all CW's in 2023.

### **Deadline to Sign Up**

September 14 - the last day to Add a course for Fall semester

Have more questions or ready to sign up?  
Just email [gillian.epstein@olin.edu](mailto:gillian.epstein@olin.edu) and [jadler@olin.edu](mailto:jadler@olin.edu)

**Didn't find the course you're looking for? Check the course browser at**  
**[https://my.olin.edu/ICS/Course\\_Schedules.jnz](https://my.olin.edu/ICS/Course_Schedules.jnz)**

Course #	Sect #	Course Title	Instructor / Teaching Team	Time	Location: MAC (unless noted otherwise)	Credits	Enroll Limits	Waitlist	Notes	Curriculum Category
AHSE0112	01	AHSE0112: The Olin Conductorless Orchestra	Dabby, Diana	R 6:00pm-8:40pm	318 326	1	20	na		AHS Elective
AHSE1100	01	AHSE1100: History of Technology: <i>A Cultural &amp; Contextual Approach</i>	Martello, Robert	TF 10:20am-12:00pm	326	4	18	na	open to class of 2026	AHS Foundation
AHSE1122	01	AHSE1122: The Wired Ensemble -Instruments, Voices, Players	Dabby, Diana	TF 1:00-2:40pm	304	4	14	na	open to class of 2026	AHS Foundation
AHSE1155	01	AHSE1155: Identity from the Mind & the Brain: Who Am I and How Do I Know	Adler, Jonathan	TF 10:20am-12:00pm	318	4	18	na	open to class of 2026 Cancelled	AHS Foundation
AHSE1155	02	AHSE1155: Identity from the Mind & the Brain: Who Am I and How Do I Know	Adler, Jonathan	TF 1:00-2:40pm	318	4	18	na	open to class of 2026	AHS Foundation
AHSE1160	01	AHSE1160: Democracy and Media	Graeff, Erhardt	TF 10:20am-12:00pm	328	4	20	5	open to class of 2026	AHS Foundation
AHSE1170	01	AHSE1170: Infrastructure Studies	Chachra, Debbie	MR 1:00-2:40pm	318	4	24	na	open to class of 2026	AHS Foundation
AHSE2114	01	AHSE2114: Science Fiction and Historical Context	Martello, Robert	MR 1:00-2:40pm	326	2	30	10	Session I	AHS Elective
AHSE2116	01	AHSE2116: Framing History through Comics	Martello, Robert	MR 1:00-2:40pm	326	2	30	10	Session II	AHS Elective
AHSE2135	01	AHSE2135: Digital Photography: Seeing is Believing	Donis-Keller, Helen	TF 1:00-2:40pm	313	4	16	3		AHS Elective
AHSE2199	01	AHSE2199: Special Topics in Arts, Humanities, Social Sciences: <i>Contemplating Education</i>	Zastavker, Yevgeniya	MR 1:00-2:40pm	304	4	18	5		AHE Elective
AHSE2199A	01	AHSE2199A: Special Topics in Arts, Humanities, Social Sciences: <i>The Craft of Nonfiction</i>	Hendren, Sara	T 6:00-8:40pm	326	4	20	5	Tentative based on Enrollment	AHS Elective

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AHSE2199B	01	AHSE2199B: Special Topics in Arts, Humanities, Social Sciences: <i>Understanding Institutions: Creating Change at Olin and in the World</i>	Lynch, Caitrin; Somerville, Mark	T 2:50-5:30pm	126	2	18	na	Seats in the class will be reserved for 6 sophomores, 6 juniors, and 6 seniors.	AHSE Elective
AHSE2515	01	AHSE2515: Iterate	Ger, Donald	M 2:50-5:30pm	328	4	16	10	Full Semester	ENTRP Concentration
AHSE3190	01	AHSE3190: AHS Preystone	Epstein, Gillian	na	na	1	10	5		AHS Prereq Cap
CIE2223	04	<del>CIE2223: Curricular Innovation Experiment: To Cradle2cradle or not?</del>	Vanasupa, Linda	TR 6:00-8:40pm	409	4	40	5	course changed - see CIE2223: CIE: Just Energy!	Intro Sust; ENGR, Sci or MatSci
CIE2223	01	CIE2223: Curricular Innovation Experiment: <i>Just Energy! Beginning Again</i>	Vanasupa, Linda	TR 6:00-8:40pm	417	4	30	5		E: Sust Core; AHS, ENGR, MatSci/Sci, ME Elective, ECE Elective
ENGR1200	01-03	ENGR1200: Design Nature	Chachra, Debbie; Goenka, Chhavi; Sauder, Tim; Zastavker, Yevgeniya	MR 9:20am-12:00pm	MH120 204 206 209 213	4	90	na		Requirement - DesNat
ENGR1330	01	ENGR1330: Fundamentals of Machine Shop Operations	Mulligan, John	W 1:00-5:00pm	MACHINE SHOP	4	6	20		Elective
ENGR2110	01-02	ENGR2110: Principles Integrated Engineering	Malley, Melinda; Mbanisi, Kene; Millner, Amon; Minch, Brad	MR 2:50-4:30pm	306 309	4	28 per section	12		Requirement - PIE
ENGR2110	03-04	ENGR2110: Principles Integrated Engineering	Malley, Melinda; Mbanisi, Kene; Millner, Amon; Minch, Brad	TF 10:20am-12:00pm	306 309	4	28 per section	12		Requirement - PIE
ENGR2299	01	ENGR2299: Specials Topics in Design: <i>Introduction to Architecture and Urbanism: Public Space as Public Sphere</i>	Hendren, Sara	T 9:20am-12:00pm	417	4	20	5		Design (not design depth)
ENGR2320	01	ENGR2320: Mechanics of Solids and Structures	Lee, Chris	TWF 8:30-10:10am	328	4	48	na	Will also be offered in spring 2023	Core ME
ENGR2355	01	ENGR2355: Introduction to Thermodynamics	Tow, Emily	TF 1:00-2:40pm	328	2	38	na	See note in supplement re: ME curriculum; Session I	ME Core Revision

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ENGR2355	02	ENGR2355: Introduction to Thermodynamics	Tow, Emily	TF 2:50-4:30pm	328	2	38	na	See note in supplement re: ME curriculum; Session I	ME Core Revision
ENGR2365	01	ENGR2365: Introduction to Transport Phenomena	Tow, Emily	TF 1:00-2:40pm	328	2	38	na	See note in supplement re: ME curriculum; Session II	ME Core Revision
ENGR2365	02	ENGR2365: Introduction to Transport Phenomena	Tow, Emily	TF 2:50-4:30pm	328	2	38	na	See note in supplement re: ME curriculum; Session II	ME Core Revision
ENGR2399	01	ENGR2399: Special Topics in Mechanical Engineering: <i>Applied transport: measurement of flow and sedimentation</i>	Ferzoco, Alessandra	TF 1:00-2:40pm	326	2	10	na	Session I	ME Core Requirement
ENGR3220	01	ENGR3220: User Experience Design	Millner, Amon	MR 1:00-2:40pm	204	4	30	4		DSN Depth
ENGR3240	01	ENGR3240: Tell the Story of What You Make	Sauder, Tim	MR 2:50-5:30pm	417	4	25	5		DSN Depth
ENGR3252	01	ENGR3252: Technology, Accessibilty and Design	Goenka, Chhavi; Ruvolo, Paul	MR 2:50-5:10pm	318	4	24	10		DSN Depth
ENGR3260	01	ENGR3260: Design for Manufacturing	Barrett, Dave; Faas, Daniela	TF 2:50-4:30pm	128	4	20	15	Student must elect lab A or B, along with the standard TF 2:50-4:30pm	DSN Depth_ME Elective
ENGR3260 L	A B	ENGR3260 L: Design for Manufacturing Lab	Barrett, Dave; Faas, Daniela	Lab A: M 9:20am-12:00pm Lab B: T 9:20am-12:00pm	109	0	10 per lab	3	Student must elect lab A or B, along with the standard TF 2:50-4:30pm	DSN Depth_ME Elective
ENGR3290	01	ENGR3290: Affordable Design and Entrepreneurship	Graeff, Erhardt; Johansen, Elizabeth; Taha, Kofi	T 3:30-6:30pm R 3:30-5:30pm	Weissman Foundry	4	5	25		DSN Depth
ENGR3330	01	ENGR3330: Mechanical Design	Barrett, Dave; Faas, Daniela	MR 1:00-2:40pm	328	4	25	10		Core ME
ENGR3345	01	ENGR3345: Mechanical and Aerospace Systems	Lee, Chris	MR 10:20am-12:00pm	328	4	25	10		ME Elective

Course #	Sect #	Course Title	Instructor / Teaching Team	Time	Location: MAC (unless noted otherwise)	Credits	Enroll Limits	Waitlist	Notes	Curriculum Category
ENGR3399	SL	ENGR3399: Special Topics in Engineering: <i>Mechanical Analysis</i>	Fass, Daniela; with student instructors: Godinez, Carlos; Gosbee, Katarina; Takeda, Colin; Weil, Nathan	MR 8:30-10:10am	328	2	20	5	Student Led; 2 credits	Elective
ENGR3410	01	ENGR3410: Computer Architecture	Uttamchandani, Avi	MW 6:00-7:40pm	304	4	30	5		Core ECE
ENGR3420	01	ENGR3420: Introduction to Analog and Digital Communication	Lohmeyer, Whitney	T 9:20am-12:00pm	304	4	25	5		Core ECE
ENGR3430	01	ENGR3430: Ecelectronics	Minch, Brad	TF 2:50-4:30pm	304	4	20	5		Elective ECE
ENGR3499	01	ENGR3499: Special Topics in Electrical and Computer Engineering: <i>Power Electronics</i>	Arnet, Beat	MR 10:20am-12:00pm	304	4	20	5		ECE Elective
ENGR3515	01	ENGR3515: Data Structures and Algorithms	Pucella, Riccardo	T 2:50-5:30pm	113	4	25	10		Core E:C
ENGR3590	01	ENGR3590: A Computational Introduction to Robotics	Ruvolo, Paul	TF 1:00-2:40pm	126	4	24	10		Core E:Robo
ENGR3599	01	ENGR3599: Special Topics in Computing: <i>Larger-scale Software Development</i>	Matsumoto, Steve	MR 1:00pm-2:40pm	417	4	40	na		E:C; Computing Elective
ENGR3820_or_SCI3420	01	ENGR3820_or_SCI3420: Failure Analysis and Prevention	Stolk, Jon	MR 1:00pm-2:40pm	413	4	21	5	Choose ENGR3820 for ME or ELECTIVE credit; Choose SCI3420 for ADV SCIENCE credit	ME or ENGR Elective; or Adv Science
ENGR4190	01	ENGR4190: SCOPE: Senior Capstone Program in Engineering	Bloomer, Sarah; Ferzoco, Alessandra; Neeley, Lawrence; Stein, Lynn	W 8:30am-5:30pm F 8:30-10:10am	Varies	4	na	na	Registration via CAPSTONE Survey	CAPSTONE-SCOPE
ENGR4290	01	ENGR4290: Affordable Design and Entrepreneurship Engineering Capstone	Graeff, Erhardt; Johansen, Elizabeth; Taha, Kofi	T 3:30-6:30pm R 3:30-5:30pm	Weissman Foundry	4	na	na	Registration via CAPSTONE Survey	CAPSTONE-ADE
ENGR4599	01	ENGR4599: Entrepreneurial Engineering Capstone	Harris, Scott ; Miller, Scott	W 1:00-5:00pm	113	4	na	na	Registration via CAPSTONE Survey	CAPSTONE - EEC

Course #	Sect #	Course Title	Instructor / Teaching Team	Time	Location: MAC (unless noted otherwise)	Credits	Enroll Limits	Waitlist	Notes	Curriculum Category
ENGX2000	01	ENGX2000: Quantitative Engineering Analysis 1	Geddes, John; Lohmeyer, Whitney; Shuman, David	MR 2:50-4:30pm	113 126 128 MH 120 (Thurs only)	4	90	na		Requirement
ENGX2010	01	ENGX2010: Quantitative Engineering Analysis 3	Geddes, John; Malley, Melinda; Tow, Emily	MR 1:00pm-2:40pm	113 126 128	4	90	na		Requirement
MTH1111_SCI1111	01-03	MTH1111_SCI1111: Modeling and Simulation of the Physical World	del Rosario, Zachary; Matsumoto, Steve; Neely, Andy	TWF 2:50-4:30pm	MH120 204 206 209 213	4	32 per section	na		Requirement - ModSim
MTH2110	01	MTH2110: Discrete Math	Spence Adams, Sarah	MR 8:30-10:10am	326	4	27	10	2 sections; See note about timing of future offerings in the supplement	Math - Adv ECE; E:C
MTH2110	02	MTH2110: Discrete Math	Spence Adams, Sarah	MR 10:20am-12:00pm	326	4	27	10	2 sections; See note about timing of future offerings in the supplement	Math - Adv ECE; E:C
MTH2130	01	MTH2130: Probability and Statistics Topic: Probabilistic Modeling (ProbMod)	Shuman, David	MR 8:30-10:10am	318	4	18	18		ProbStat
MTH2136_and_SCI2136	01	MTH2136_and_SCI2136: Astronomy and Statistics: AstroStats	Nugent, Carrie	TF 10:20am-12:00pm	MH 120	2+2	30	20		ProbStat
OIE1000	01	OIE1000: Olin First Year Introduction (OFYI)	Waranyuwat, Adva	W 1:00-2:40pm	MH120 318 326 328 417	1	90	na		Required First Year
SCI1230	01	SCI1230: Think Like a Biologist with Laboratory	Huang, Jean	MR 9:20am-12:00pm	417 404 406	4	24	6		SCI - Bio Foundation
SCI1270	01	SCI1270: Biomes, Climate Change, and Biodiversity (BCB)	Donis-Keller, Helen	TF 10:20am-12:00pm R 2:50-5:30pm (Lab)	313 406	4	20	3		SCI - Bio Foundation
SCI1440	01	SCI1440 Materials Creation, Consumption, and Impact	Stolk, Jon	MR 9:20am-12:00pm	413	4	21	10		SCI - MatSci/Chem
SCI2299	01	SCI2299: Special Topics in Biological Sciences: <i>How Your Immune Systems Keeps You Alive</i>	Pratt, Joanne	TF 1:00-2:40pm	417 404 406	2	8	4	<b>Experimental Grading</b>	SCI Elective

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AWAY1000	01	Study Away Program	Administration	na	na	12	na	na	Enroll in this course number to confirm your Study Away semester	
OIP1000	01	The Olin Internship Practicum I	Alcott, Suzanne	na	na	1	na	na	See Post Graduate Planning to Enroll	
OIP1001	01	The Olin Internship Practicum II	Alcott, Suzanne	na	na	1	na	na	See Post Graduate Planning to Enroll	



Thursday							Friday							
	<u>MTH2130:</u> Probability and Statistics Topic: Probabilistic Modeling (ProbMod) MAC 318	<u>MTH 2110-01</u> Discrete Math MAC 326		<u>ENGR3399 SL</u> Spec Topics in ENGR: Mechanical Analysis Student Led MAC 328	<u>ENGR 2320</u> Mechanics of Solids and Structures MAC 4328		<u>ENGR 4190</u> SCOPE						8:30 AM	
<u>ENGR 1200</u> Design Nature All Sections MAC 204/206/209/213			<u>SCI 1230</u> Think Like a Biologist MAC 417/404/406	<u>SCI 1440-01</u> Materials Creation, Consumption and Impact MAC 413									9:20 AM	
	<u>ENGR 3499</u> Special Topics in Elect & Computer Engr: <i>Power Electronics</i> MAC 304	<u>MTH 2110-02</u> Discrete Math MAC 326		<u>ENGR3345</u> Mechanical and Aerospace Systems MAC 328	<u>AHSE 1100</u> History of Technology: A Cultural & Contextual Approach - 326 <u>AHSE 1160</u> Democracy & Media - 328	<u>ENGR 2110 03 &amp; 04</u> Principles of Integrated Engineering MAC 306/309	<u>MTH2136 SCI2 136:</u> Astronomy and Statistics: <i>AstroStats</i> MH 120	<u>SCI 1270</u> Biomes, Climate Change, and Biodiversity (BCB) MAC313					10:10 AM	
													10:20 AM	
LUNCH							LUNCH							
<u>AHSE 1170</u> Infrastructure Studies MAC 318	<u>ENGX 2010</u> Quantitative Engineering Analysis 3 MAC 113/126/128	<u>ENGR3820 or SCI3420</u> Failure Analysis and Prevention MAC 413	<u>ENGR 3220</u> User Experience Design MAC 204	<u>ENGR3599:</u> Special Topics in Computing: <i>Larger-scale Software Development</i> MAC 417	<u>ENGR 3330</u> Mechanical Design MAC 328	<u>AHSE 2199</u> Special Topics in AHS: <i>Contemplating Education</i> MAC 304	<u>AHSE2114 Session I</u> Science Fiction and Historical Context MAC 326 <u>AHSE2116 Session II:</u> Framing History through Comics	<u>AHSE 1155 02</u> Identity from the Mind and the Brain MAC 318 <u>AHSE1122</u> The Wired Ensemble MAC 304	<u>ENGR2355 01 Session I</u> Intro Thermodynamics MAC 328 <u>ENGR2365 01 Session II</u> Intro Transport Phenomena MAC 328	<u>ENGR 3590</u> A Computational Introduction to Robotics MAC 126	<u>SCI 2299</u> Special Topics in Bio Sci: How Your Immune System Keeps You Alive MAC 417 / 404/ 406	<u>ENGR 2399 Session I</u> Special Topics in ME: Applied Transport:Meas FlowSedimt MAC 326	<u>AHSE2135</u> Digital Photography: Seeing is Believing MAC 313	1:00 PM
	<u>ENGR 3240</u> Tell the Story of What You Make MAC 417	<u>ENGX 2000</u> Quantitative Engineering Analysis 1 MAC 113/126/128	<u>ENGR 2110 01 &amp; 02</u> Principles of Integrated Engineering MAC 306/309	<u>SCI 1270</u> Biomes, Climate Change, and Biodiversity (BCB) Lab MAC 313/406		<u>ENGR 3252</u> Technology, Accessibility and Design MAC 318 2:50-5:10pm	<u>MTH 1111/ SCI 1111</u> All Sections ModSim MH120 MAC 204/206/209/213	<u>ENGR 3430</u> Eclectronics MAC 304	<u>ENGR2355 02 Session I</u> Intro Thermodynamics MAC 328 <u>ENGR2365 02 Session II</u> Intro Transport Phenomena MAC 328	<u>ENGR 3260</u> Design for Manufacturing MAC 128				2:40 PM
<u>ENGR 3290 &amp; 4290</u> ADE Tues 3:30-6:30p Thurs 3:30-5:30p Weissman														2:50 PM
														4:30 PM
														5:30 PM
<u>AHSE 0112</u> Olin Conductorless Orchestra MAC 318 / 326		<u>CIE2223</u> Curricular Innov Experiment: <i>Just Energy! Beginning Again</i> MAC 417												6:00 PM
														8:40 PM
							Community Time							