

Olin College Registration Booklet

Fall 2014

Classes begin Thursday, September 4, 2014

Volume 13, Number 1.4 released 8/29/14

**Olin College Registration Booklet
Fall 2014**

Table of Contents

Section	Page
Registration Timelines	1
Frequently Asked Questions and Instructions	2-5
Catalog Supplement	6-11
Appendix	12-20
Fall 2014 Course Listing	pp 1-5
Fall 2014 Scheduling Grid	pp 1-2
Potential Spring 2015 Offerings	pp 1-2

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

Session	Add	Drop and Pass/No Credit	Withdraw
Full Semester (Sept 4 – Dec 11)	September 17, 2014	November 6, 2014	December 11, 2014
Session I (Sept 4 – Oct 17)	September 10, 2014	October 7, 2014	October 17, 2014
Session II (Oct 21– Dec 11)	October 29, 2014	December 3, 2014	December 11, 2014

Frequently Asked Questions and Instructions

What do I register for?

Students are allowed to register for a maximum of 20 credits. All students have a minimum requirement of 12 degree credits to be eligible for the Olin tuition scholarship.

The maximum credits can be distributed between **degree** and **non-degree** activities.

Degree activities are defined as counting toward graduation credit and course requirements (all students must have a minimum of 12 degree credits). Examples of registered degree activities are standard courses, cross-registered courses, independent study and research for degree credit. Consult the catalog for your specific degree requirements.

Non-degree activities are defined as **not** counting toward degree and subject requirements. An example is a passionate pursuit. Non-degree activities are not graded and appear on your transcript if you have met all of your objectives for the activity. Remember these do not count in your minimum requirement of 12 degree credits, but do count toward the 20 credit maximum.

Requests to exceed the 20 credit maximum must be emailed to COSAP c/o the convener, Linda Canavan, by the Add deadline. See the Student Handbook for details.

How do I choose my activities for degree and non-degree credit?

Use this booklet as a tool to assist you in preparation for advising discussions. Meet with your adviser BEFORE your registration date. Your adviser will “clear” you to register. If you are not cleared, you will not be permitted to register.

I am doing a Study Away Program next semester. Do I need to register?

YES! Students in approved semester away programs must register for a single course: **AWAY1000: Study Away Program**. This course will allow Olin to certify you as a full-time student during the semester you are away. Your approved course work will be transferred to your academic record upon receipt of a transcript from the host institution (provided you have received the minimum required grade). Note: All registrations will be cross-referenced with approved consortium agreements.

Olin Self Study, Independent Study and Research - - - How do I register?

- Olin’s Self Study – Please see information on the [StAR Center website](#) for details. If you are doing an independent activity or research, you will need to complete a form with your OSS intention by the last day to add a course for the Fall 2014 semester.
- Independent Study and Research - Students interested in doing research and/or independent study must complete a Cover Sheet for Independent Study and Research. This form can be found on the forms tab of the StAR Center website.
- All forms must be received by the Add deadline for the Fall 2014 semester. There are no exceptions.

I am interested in doing a Passionate Pursuit next semester. How do I register?

If you are interested in doing a Passionate Pursuit, consult the Student Handbook for FAQ’s. Passionate Pursuits require approval from the Executive Committee of the Passionate Pursuit Board in addition to consent of a faculty sponsor and the student’s adviser. Passionate Pursuit proposals should be sent to the chair of the executive board, the Dean of Student Life.

CROSS-REGISTRATION: How do I participate in Cross-Registration with Babson, Brandeis, or Wellesley (BBW)?

Olin students, with the exception of first semester freshmen, are allowed to take one course per school, per semester. First semester, first year students are not permitted to participate in cross-registration.

When selecting a BBW course, keep in mind the time constraints of your Olin courses. Time conflicts with your other courses cannot be scheduled. Additionally, it is important to check for course prerequisites and the enrollment. Under most circumstances, if the course is full, you will not be able to register for the course. Enrollment is generally found under course “tally” or listed with the course info.

All BBW courses will be noted on your Olin degree audit by ‘color’ (the area of discipline). It is the student’s responsibility to review the ARB approved ‘coloring’ on the ARB website and note the color on the cross-reg form. If a course is not found on the ‘list’, the student must petition the CSTB for appropriate coloring.

In order to submit a cross-registration request, use the cross-registration portlet under the MyStAR tab at <http://my.olin.edu>. The StAR Center will work with the host school to facilitate the registration. The following dates reflect the dates that the host school will accept cross-registration requests from Olin’s StAR Center. Olin students may submit requests to the StAR Center any time before the closing dates listed below.

Babson College Cross Registration dates:

April 14 – September 9 at 4:30 p.m.

You can find their offerings at

https://fusionmx.babson.edu/CourseListing/index.cfm?fuseaction=CourseListing.DisplayCourseListing&blnShowHeader=true&program=Undergraduate&semester=Fall+2013&sort_by=course_number&btnSubmit=Display+Courses

Classes begin September 4.

Brandeis University Cross Registration dates:

August 19 - September 11

All courses require instructor permission in writing (email) or via a permission code to submit with your request. Classes begin August 28. You can find Brandeis offerings at

<http://www.brandeis.edu/registrar/bulletin/provisional/courses/index.html>

Wellesley College Cross Registration dates:

For 200+ level courses: April 22 - July 1; for all courses including 100 level courses: September 2–15

You can find their offerings at <https://courses.wellesley.edu/>. SPECIAL NOTE ABOUT FALL 100-LEVEL COURSES: The Wellesley Registrar will NOT process requests for 100–level courses until the Wellesley add/drop period that begins September 2. You may submit your request through the Olin cross-registration portlet either now or in the fall, but either way you must take a [Visiting Student Card](#) to the first class meeting, get the instructor’s signature, and take the signed card to the Wellesley Registrar’s Office on the Third Floor of Green Hall. Classes begin September 2.

N.B. BBW **DROP** deadlines are earlier than Olin’s. When cross-registering, you abide by the rules and deadlines established by the host school. Read your confirmation email very carefully and save it for future reference.

How do I Cross-Register to Olin College?

Olin welcomes students from Babson, Brandeis and Wellesley to register for Olin courses. In general, all courses except for some first year courses are eligible for cross-registration with the permission of the Olin faculty member. BBW students should initiate a request for a course through their home institution’s Registrar’s Office, which will then relay the request to Olin’s Registrar’s Office in the Student Accounts and Records (StAR) Center. Visit <http://star.olin.edu> for more information.

What About Co-Curriculars?

Registration and descriptions for co-curriculars will be released during the add period in September. If you have a particular interest in a co-curricular that you would like to see offered, you are encouraged to seek out a “faculty/staff” sponsor before the end of this semester and notify the Dean of Student Life. Co-curricular offerings will be posted at <http://star.olin.edu>.

How and When Do I Register?

Registration is done online via MyStAR at <https://my.olin.edu> . There are FAQs listed in the portal site so as to be accessible to you while logged in.

Here are some useful tips from Olin's Information Technology Department:

During course registration sessions, the IT Help Desk often receives reports about my.olin.edu being slow or unresponsive. In almost all cases, this is due to an excessive and often unnecessary workload placed on the system. By following these guidelines, you can help minimize this load and increase system responsiveness:

- Please use only one browser tab on one computer. In past sessions, some students were connecting from as many as four different computers or opening multiple sessions in multiple tabs. Each additional session consumes resources on the server and only serves to slow the system down.
- Please be patient and do not refresh the page. This causes the background system processing for the same task to be executed multiple times, adding additional load to the system.
- Please remember that everyone else in your group is trying to register at the same time. As much as we would like the system to be as responsive as it is during non-registration periods, this simply cannot happen when over 60 students are attempting to register for classes at the exact same moment. It takes time for the system to process all incoming requests and reconcile them with each other.
- Please avoid using the system during other groups' registration times. Again, this adds additional work to an already busy system.

With the exception of one session, we have seen the fewest slowdowns and smallest workloads on the registration system in the recent past than we have seen in several years thanks to many students following these guidelines.

We do realize the importance of registration to every student on campus. If you encounter errors from either sis.olin.edu or my.olin.edu during the registration process, please take a screenshot of the error you receive and send it, along with a detailed description of what you were doing when it occurred, to helpdesk@olin.edu so that we can resolve the issue as quickly as possible.

REGISTRATION TIMES:

On-line registration will take place April 14-17 during the evening hours. You can see your registration date and time by logging on to <https://my.olin.edu>; select the session FA and year 2014; access the 'Registration/Add Drop' menu from the left frame.

(Registration will be open to cleared and eligible students only. A cleared student is one who has met with his/her adviser and has no HOLDS [e.g. has a declared major on file with the StAR Center]. An eligible student is one who does not have an outstanding financial balance with the college.)

When is the Add Period – the Drop Period – the last day to withdraw from a course? – REFERENCE HANDY CHART at beginning of this Booklet.

The Add period is the first 10 class days of the semester. The Add period will begin on September 4, 2014 and end on September 17, 2014. Add requests can be processed in person at the StAR Center and on-line (for ½ session deadlines see chart). Add/Drop forms can be found at <http://star.olin.edu>.

The Drop period begins September 4, 2014 and ends November 6, 2014 (for ½ session deadlines see chart). During this time, students can alter their schedule as long as they remain in a minimum of 12 credits of degree activities. A “drop” is removed from the student schedule and does not appear on transcripts. Drops and withdrawals after the add period require a hard copy form and must be processed at the StAR Center. There are no on-line drops after the add period ends. Cross-registered courses may never be added or dropped through my.olin but must be processed by the StAR Center. Please note that the BBW schools all have earlier drop deadlines that must be respected. Your confirmation email from the host school contains information about drop, P/NC, and withdrawal deadlines.

The last day to withdraw from an Olin course is the last day of instruction.

Waitlists

Waitlists are available on most courses. You can see the number of waitlisted seats when you query a course in the MyStAR portal.

Cancellations

Note that all courses listed each semester are subject to cancellation due to insufficient enrollment.

Textbooks

Pursuant to the Higher Education Opportunity Act (HEOA) of 2008, information regarding required and recommended textbooks and supplemental course material may be viewed from the Olin’s internet course schedule via <https://my.olin.edu>.

Fall 2014 Supplement to Current Course Catalog

Degree requirements are outlined in the [2013-14 Course Catalog](http://wikis.olin.edu/coursecatalog/doku.php): <http://wikis.olin.edu/coursecatalog/doku.php> .

Course descriptions can also be found in the [2013-14 Course Catalog](#). New, highlighted, and Special Topics course descriptions are listed here.

AHSE 1199: Arts, Humanities and Social Science Foundation Topic

Section 01: Robots, Mutants and Monsters: Envisioning Science in Cinema

Instructor: Maruta Vitols

Credits: 4 AHSE

Hours: 4-0-8

AHS FOUNDATION; priority given to first year students

Throughout the history of cinema, filmmakers have experienced both fascination with and fear of technology. Contemporary scientific advancements have inspired countless cinematic representations that express cultural excitement, ethical concern and social anxiety regarding such innovations as artificial intelligence and nuclear engineering. By placing such films as *Metropolis* (1927), *2001: A Space Odyssey* (1968), and *The Matrix* (1999) in their historical and cultural contexts, this course will consider multiple approaches to the representation of science on screen. This course **requires** attendance at Monday evening film screenings from 7-9:30pm.

AHSE 1199: Arts, Humanities and Social Science Foundation Topic

Section 02: Media Revolution: Activism and Technology

Instructor: Maruta Vitols

Credits: 4 AHSE

Hours: 4-0-8

AHS FOUNDATION; priority given to first year students

Since their inceptions, radio, film and television have been utilized for political purposes. Yet the advent of digital technology has profoundly altered the traditional relationships between media and activism. From "hacktivism" to the events of the Arab Spring, new media provide an influential contemporary forum for advocating for change. This course explores the way media are employed for political and social purposes, investigating the different approaches used today to transform our virtual and real worlds.

AHSE1515: Products and Markets

Instructor: Neeley, Staff

Credits: 4 AHSE

Hours: 5-0-7

Important Note regarding retiring AHSE1500 The Entrepreneurial Initiative (formerly Foundations of Business and Entrepreneurship): The fall pilot of AHSE1515: Products and Markets, is the only offering for upper class students to fulfill their Entrepreneurship foundation. Only first years will be allowed to enroll in the Spring 2015 offering. However, Olin's Academic Leadership has worked with Babson College to find a suitable course to allow Olin students to take that will satisfy the Olin requirement. The course they identified is EPS3501: Entrepreneurship and Opportunity. If you wish to enroll in this course this fall, please do so via cross-registration. The only caveat is that you cannot use this course as both your foundation and as part of an Entrepreneurship concentration.

Entrepreneur: one who owns and manages a business; a person who takes the risk of profit or loss. - O.E.D. The same source also reveals a broader definition found in the French root, *entreprendre*, which means "to undertake." An entrepreneur is defined as one who assumes the opportunity and full responsibility of any pursuit. A champion.

In this course, students explore and begin to realize in themselves the entrepreneur in both forms: the practical and the profound. In this foundational course in business and entrepreneurship they will conceive, create and manage a real, profitable business. They will be exposed to traditional business tools such as accounting, marketing and finance as well as the personal and interpersonal tools requisite for high-performance teamwork, including project planning, giving feedback and persuasive pitching. This business experience and its associated challenges will serve as the context in which we hope to develop broader self-awareness, productive self-reflection and courage. Broadly, these skills will apply to the bold imagining and realization of their lives at Olin and beyond.

AHSE2170: Teaching and Learning in Undergraduate Science & Engineering

Instructor: Zastavker

Credits: 4 AHS

Hours: 3-0-9

This course will examine select topics in teaching and learning in undergraduate science, technology, engineering, and mathematics (STEM) courses. The goal of the course is to help participants become effective tutors, teaching assistants, mentors, and future instructors in these fields through a deep examination of teaching and learning in STEM courses. In a seminar format, participants will discuss research on best practices in pedagogy and curriculum design, cognition and learning, student classroom experiences, diversity, and assessment. Students will gain experience in instructional design, pedagogy, and assessment, and will develop a teaching portfolio. (Note: While the course readings are largely on research in science and engineering education, the course will touch on issues in mathematics education, and many course concepts can be extended to mathematics and technology instruction. As well, the theoretical and practical portion of the class may be extended to the K-12 domain.)

AHSE2199A/SCI1210A: Special Topics in AHS and Science

Six Microbes that Changed the World

Instructors: Huang, Martello

Credits: 4 SCI, 4 AHS

Hours: 5-3-16

Registration notes: students must register for both parts of this course. This course satisfies the Introductory Biology requirement at Olin.

"It has long been an axiom of mine that the little things are infinitely the most important." - Arthur Conan Doyle, "A Case of Identity" in The Adventures of Sherlock Holmes

Penicillium. Vibrio cholera. Escherichia coli. Cyanobacteria. The archaea. Microbes surround us, and impact our lives, our health, our societies, and our environment. Research with microbes, the smallest of all living creatures, has enabled discovery and understanding of the fundamental workings of life, opens up rich historical narratives of diseases and cures, and may provide sustainable solutions to problems we face from bioremediation to bioenergy. And best of all, microbes open the door to a thrilling new integrated course for a lucky inaugural group of students.

"Six Microbes that Changed the World" is an interdisciplinary course taught by Jean Huang and Rob Martello for the first time this fall. We will use six influential microbes as a window into a rich study of the interactions between science and societal context. This course will connect biological and historical knowledge through discussions, integrated assignments, presentations, and hands-on laboratory activities. We are looking for a motivated group of students to join us in this experimental course; let's explore the thrill of biology and history, together.

AHSE3130 : Advanced Digital Photography

Instructor: Helen Donis-Keller

Credits: 4 AHS

Hours: 4-0-8

Prerequisites: AHSE 1135 or Permission of Instructor

In this project-based course, students will develop a personal photographic point of view matched with consistently well-crafted imagery informed by the work of leading contemporary photographers. While communication with visual images is paramount, technical issues will be addressed in some depth. For example, there will be instruction and practice with image capture and editing including High Dynamic Range (HDR) exposure and processing, color management methods and printing, Adobe Lightroom/Photoshop tools and techniques, graphic design and book production methods. Initial projects will stimulate creative thinking and group critiques will help monitor progress and inspire new directions. The culminating project will be the design and production of a photography-based book by each member of the class. A critical awareness of the medium of fine art photography will be fostered through selected readings, discussions, and visits to galleries and museums.

ENGR1125: Introduction to Sensors, Instrumentation and Measurement

Instructors: Storey, Minch, Christianson, Quinones

Credits: 4 ENGR

Hours: 2-4-6

Conducting experiments and making measurements is an essential aspect of all branches of science and engineering. Nearly all of our current quantitative understanding of the natural and engineered world has come from the interplay between theory and measurements. Models and simulations of systems require experimental validation and performance of engineered systems must not only be predicted, but also measured and tested. In this course we will learn the basic tools of making physical measurements and conducting experiments. We will collect data, analyze data, conduct basic error analysis, and design experimental systems. Using inexpensive modern sensors, we will build the necessary supporting electronics and learn to

collect data with computer based data acquisition systems. The first part of the course will focus on individual work and students will conduct labs on basic electrical, mechanical and environmental measurements. The later part of the course will involve a team project that involves designing and executing an experiment that involves measurement, data acquisition and data analysis.

ENGR2199B/MTH2188B: Special Topics in Engineering and Mathematics

Regional Analysis for Development

Instructor: Mur-Miranda, Staff

Credits: 2 ENGR, 2 MTH

Hours: 4-0-8

Prerequisites: MTH 1111 and SCI 1111 or Permission of Instructor(s)

Registration note: This course may be used to satisfy the Probability and Statistics requirement.

Students perform qualitative and quantitative analyses at the regional level to gain insight into development challenges and propose new ways of thinking, with an emphasis on the role of technology. For example, a student might study maternal health in Sub-Saharan Africa. Students select topics and regions based on interest and levels of unmet need, as well as other considerations such as cultural, climatic, technological, economic, political, and ecological ones.

Students will gain experience with analysis and modeling tools and data sets relevant to development with an emphasis on probability and statistics, GIS, and dynamic systems modeling. Guest speakers will share their experiences practicing data driven development. Students will create formal briefings with recommendations supported by a synthesis of quantitative data, analysis, and visualization and informed by the published literature. Students may have an opportunity to publish their work.

This course provides valuable preparation for students planning to enroll in ENGR 3290/4290 Affordable Design and Entrepreneurship (ADE) or perform research or work in international development. Wellesley and Babson students are encouraged to enroll.

ENGR 3250: Integrated Product Design

Instructor: Linder

Credits: 4 ENGR

Hours: 4-0-8

Registration Note: May be used for Design Depth

You will work with industrial design students from the Massachusetts College of Art and Design (in Boston) and business students from Babson College to develop new products through projects that are student-generated. Students learn first hand about the techniques and contributions different disciplines bring to product design and practice cross-functional collaboration common in professional design settings. This course provides valuable preparation for students interested to work in design firms, such as Continuum, IDEO, Frog, Altitude and Essential to name a few, or develop and launch their own consumer products. Class will be held once a week and rotate among all three campuses. Babson students should enroll in MOB 3578. Wellesley students should cross-register into this course and not MOB 3578 at Babson.

ENGR3599: Special Topics in Computing

Computational Signal Processing

Instructor: Downey

Credits: 2 ENGR

Prerequisite: Software Design

Registration notes: Session II; experimental grading

This is an introduction to digital signal processing, primarily sound and images, taking a computational approach. We will use a new textbook, *Think DSP*, which I am working on now. The current draft is at think-dsp.com. Students will work on exercises from the book, help develop new material, and work on case studies that might be included in the published version of the book. Some projects might involve basic circuit design and Arduino programming.

I expect that this class will serve as a good prelude to Signals and Systems. In its current form, it is not a substitute for DSP in the ECE major requirements.

ENGR3599A: Special Topics in Computing

A Computational Introduction to Robotics

Instructor: Ruvolo

Credits: 4 ENGR

Hours: 4-0-8

Prerequisite: Software Design

Registration Notes: 1) This course may be used as an E: Computing elective in an updated Plan of Study.

2) This new Robotics course increases flexibility in the E:Robotics concentration. Depending on a student's background, either ENGR3390: Fundamentals of Robotics OR ENGR3599A: Special Topics in Computing: Computational Robotics (FA2014) may be used as an introductory course. More information on E:Robotics concentrations will be in the next iteration of the College Catalog.

This course will provide a computationally-focused introduction to the field of robotics. Students will learn how to both select and design algorithms for solving interesting problems in robotic perception and control. Additionally, students will learn to successfully balance tradeoffs between accuracy of an algorithm and its computational efficiency in both space and time. The course will move from structured labs to more open-ended projects as the semester progresses. Specific content areas that the course may address are: computer vision, machine learning, reinforcement learning, path planning, mapping and localization.

ENGR3599B: Special Topics in Computing

Game Programming

Instructor: Pucella

Credits: 4 ENGR

Hours: 4-0-8

Prerequisite: Software Design

Through a series of projects, we will learn to design and develop computer games in a variety of genres--strategy, puzzle, arcade, adventure--for individual play, adversarial play, and team play. Games may be implemented from scratch or via existing frameworks, where appropriate. In the process, we will learn about and tackle problems in computer graphics, algorithms, programming languages, artificial intelligence, simulation, distributed computing, and security.

MTH 2110-01

Discrete Math

Instructor: Adams

Credits: 4 MTH

Hours: 4-0-8

Content:

Emphasis on combinatorics (counting things that are hard to count!), graph theory, and proofs by induction. Other topics are likely to include recurrence relations, modular arithmetic, an introduction to error control codes, and an introduction to number theory via cryptography.

Structure:

For the first 3/4 of the class: Reading and individual pre-class homework for every class meeting, extended weekly group homeworks, periodic quizzes, two take-home tests. Classes will include interactive lectures, group work, and students working at the boards. For the remaining 1/4: Investigating and communicating - via a project - how discrete mathematics concepts are used in some deeper mathematical topic or in some real-world application. Project topics are chosen by each 2-3 person team.

MTH 2110-02

Discrete Math

Instructor: Patel

Credits: 4 MTH

Hours: 4-0-8

Content:

Emphasis on discrete math that has applications to computer science. Topics are likely to include logic, functions, infinity..., induction and recursion, graph theory, all with applications.

Structure:

Weekly readings, extended weekly homework assignments (sometimes group, sometimes individual), take-home midterm test, choice of take-home final or short final project. The bulk of students' efforts will be concentrated on the weekly homework, spread more or less evenly through the semester. Classes will include interactive lectures, group work, discussion and conversation.

MTH2188A: Designated Alternative in Mathematics

Computational Bayesian Statistics

Instructor: Downey

Credits: 2 MTH

Prerequisite: Software Design

Registration notes: *Session I. Designated alternative for MTH 2130; Experimental Grading*

Bayesian statistics provide a powerful toolkit for modeling random processes and making predictions. The ideas behind these tools are simple, but expressing them mathematically can make them hard to learn and apply. This class takes a computational approach, which allows students with programming experience to use that knowledge as leverage. Students will work through a series of exercises in the new book, *Think Bayes*, and work on case studies for possible inclusion in the published edition of the book. This class satisfies the Probability and Statistics requirement.

MTH2188B/ENGR2199B: Special Topics in Engineering and Mathematics

Regional Analysis for Development

See ENGR2199B

MTH2220: Linearity II

Instructor: Geddes, Patel, Somerville

Credits: 4

Hours: 4-0-8

An intradisciplinary approach that builds upon material covered in Linearity 1 to address topics in vector calculus and introductory partial differential equations. Topics include functions of more than one variable; vector-valued functions; gradient, divergence, and curl; boundaryvalue problems; and solutions to common partial differential equations. Emphasis on both numerical and analytical approaches. Note: students who have previously taken multi-variable calculus should consult with mathematics faculty to determine whether taking Linearity 2 is appropriate for their needs.

SCI1210A/AHSE2199A: Special Topics in AHS and Science

Six Microbes that Changed the World

See AHSE2199A

SCI2299: Special Topics in Biology

Emerging Technologies in Cancer Research and Treatment

Instructor: Pratt

Credits: 4 SCI

Hours: 3-3-6

Prerequisites: Principles of Modern Biology or score of “5” on the AP Biology exam or permission of the Instructor.

Registration note: *This class may be taken in place of Principles of Modern Biology by students who have received a “5” on the 2013 AP Bio exam.*

More than thirty years have passed since the declaration of a “War on Cancer”, yet nearly 600,000 Americans are predicted to die from cancer this year. This course will examine the environmental and biological causes of cancer and recent advancements in cancer treatments. We will also explore the “hype vs hope” of cancer breakthroughs reported in the news. This class will include a laboratory component that will provide hands on experience with current cancer research techniques.

SEMINAR COURSES

We are offering a small number of 1-credit seminar courses intended to give focused opportunities for students to learn and hone skills or increase understanding or appreciation of a new field. These seminar courses are meant to enhance the current curriculum, and are not intended to replace any current course. Each 1-credit seminar course is offered during the evening and this semester will be taught by alumni instructors. To allow the greatest flexibility in coordinating these opportunities and making them available to all students, they are offered on a P/NC grading scale, cannot be used for a student's major or distribution requirements, and do not count towards disciplinary credit.

SEM 402: Seminar: Danger! High Voltage!

Instructor: Eric VanWyk

Credit: 1

Hours: 1-0-2

Prerequisite: ENGR 2210

Grading: Pass/No Credit

This seminar examines the stresses and overloads circuits experience in the hands of the end customer, and how these circuits can be designed and tested ahead of time to ensure safety and reliability.

Students will learn the basics of safety standards and construct their own test equipment to verify the quality of existing COTS parts.

SEM 501: Seminar: 5 More Skills for Software Designers

Instructor: Ben Salinas

Credit: 1

Hours: 2-0-1

Grading: Pass/No Credit

This course provides an introduction to several skills that are useful when designing software. The topics covered in the class augment those covered in other Olin design depths (such as ENGR 3220: HFID) and focuses on practical skills and general guidelines for designing beautiful and usable software. In particular, we will cover the basics of graphic design as it applies to software design, the importance of including real data in the design process, techniques for rapidly prototyping designs and how the software development process influences the user experience of software.

Other Courses of Interest

The Wellesley College Department of Russian invites you to take one of its courses in the fall of 2014!

With warm regards,

Adam Weiner, Chair of Russian

Russian Department Faculty: Adam Weiner, Alla Epsteyn, Thomas Hodge

[Russian Department Website](#)

Elementary Russian: Russian 101

Intermediate Russian: Russian 201

Passion, Pain, Perfection: Russian 251 (in English)

Vladimir Nabokov: Russian 286 (in English)

Advanced Russian: St. Petersburg: Russian 301

Vladimir Nabokov's Short Stories: Russian 386 (in Russian)

Magical Realism: CPLT 284 (in English)

Area	Course #	Sec #	Course Title	Instructor	Credits	Time	Location	Enroll Limits	Notes
AHS	AHSE 0112	01	The Olin Conductorless Orchestra	Dabby	1	R 6:45-9:00p	AC304, 305, 318	25	
AHS	AHSE 2170	01	Teaching & Learning in Undergraduate Science and Engineering	Zastavker	4	M 10:50-1:30p	AC128	18	
AHS	AHSE 3130	01	Advanced Digital Photography	Donis-Keller	4	TF 10:50-12:30p	AC313	15	
AHS	AHSE 3190	01	Arts, Humanities, Social Sciences Capstone Preparatory Workshop	Epstein	1	n/a	n/a	20	required pre-requisite for AHSE4190
AHS	AHSE 4190	01	Arts, Humanities, Social Sciences Capstone	Adler	4	T 1:30-4:10p	CC214	25	
DSN	ENGR 3220	01	Human Factors Interface Design	Stein; Millner	4	TF 9:40-12:30p	AC109	24	Waitlist AVAILABLE
DSN	ENGR 3250	01	Integrated Product Design	Linder	4	R 3:30-6:30p	AC213	18	new description in the registration booklet
DSN	ENGR 3290	01	Affordable Design and Entrepreneurship	Linder	4	T 3:30-6:30p	AC213	12	DESIGN Depth Offering
DSN	ENGR 3710	01	Systems	Bennett	4	TF 1:30-3:10p	AC328	25	
E!	AHSE 1515	01	Products and Markets	Neeley; Hopper	4	MWR 9-10:40a	AC318	28	Arrangements will be made for Seniors Needing to Enroll with the Wednesday time conflict
E!	AHSE 3510	01	New Technology Ventures	Brand	4	TR 4-5:35pm	AC128	15	
E!	AHSE 4590	01	Entrepreneurship Capstone	Brand	4	MR 1:30-3:10p	AC313	15	
E:BE	ENGR 3600	01	Topics in Bioengineering	Sarang-Sieminski	4	MR 10:50-12:30p	AC318	25	EXPERIMENTAL GRADING
E:C	ENGR 2510	01	Software Design	Millner	4	TF 1:30-3:10p	AC326	30	
E:C	ENGR 3599	01	Special Topics in Computing: <i>Computational Signal Processing</i>	Downey	2	TF 10:50-12:30p	AC126	30	SESSION II; EXPERIMENTAL GRADING

Area	Course #	Sec #	Course Title	Instructor	Credits	Time	Location	Enroll Limits	Notes
E:C	ENGR 3599A	01	Special Topics in Computing: <i>A Computational Introduction to Robotics</i>	Ruvolo	4	TF 1:30-3:10p	AC128	18	see registration booklet for specifics of this new offering and changes to the E:Robo concentration; WAITLIST Available
E:C	ENGR 3599A	02	Special Topics in Computing: <i>A Computational Introduction to Robotics</i>	Ruvolo	4	MR 1:30-3:10p	AC128	18	see registration booklet for specifics of this new offering and changes to the E:Robo concentration; WAITLIST Available
E:C	ENGR 3599B	01	Special Topics in Computing: <i>Game Programming</i>	Pucella	4	TF 1:30-3:10p	AC126	30	
ECE	ENGR 3410	01	Computer Architecture	VanWyk	4	MR 10:50-12:30p	AC328	40	
ECE	ENGR 3410	02	Computer Architecture	VanWyk	4	MR 3:20-5:00p	AC328	40	
ECE	ENGR 3420	01	Introduction to Analog and Digital Communications	Govindasamy	4	TF 9-10:40a	AC304	25	
ECE	ENGR 3426	01	Mixed Analog and Digital VLSI, I	Minch	4	MR 3:20-5:00p	AC304	25	
ECE	ENGR 3450	04	Semiconductor Devices	Kerns, S.	4	MR 1:30-3:10p	AC126	18	Cancelled
ENGR	ENGR 1199	04	Special Topics in Engineering: Introduction to the Microelectronics and Nanotechnology Revolution	Kerns, S.	4	MR 9-10:40a	AC126	12	Cancelled
ENGR	ENGR 1330	01	Fundamentals of Machine Shop Operations	Andruskiewicz	4	W 1-5:00p	AC104	6	
ENGR	ENGR 2210	01	Principles of Engineering	Govindasamy/Hoover & Bennett	4	TF 10:50-12:30p	AC306	28	
ENGR	ENGR 2210	02	Principles of Engineering	Govindasamy/Hoover & Bennett	4	TF 10:50-12:30p	AC309	28	
ENGR	ENGR 2210	03	Principles of Engineering	Govindasamy/Hoover & Bennett	4	TF 1:30-3:10p	AC306	28	
ENGR	ENGR 4190	1-14	Senior Capstone Program in Engineering (SCOPE)	Sarang-Sieminski; Minch; Hoover; Bennett; Barrett; Lee; Govindasamy; Ruvolo; Millner; Mur-Miranda; Downey; Byrne; Christianson	4	W 9-10:40a; 12:30-6p	varies	5	Team Assignments made later; Enroll in section 01

Area	Course #	Sec #	Course Title	Instructor	Credits	Time	Location	Enroll Limits	Notes
ENGR	ENGR 4290	01	Affordable Design and Entrepreneurship	Linder	4	T 3:30-6:30p	AC213	15	CAPSTONE Offering
INTEGRATED	ENGR 2199B MTH 2188B	B1	Special Topics in Engineering and Mathematics: Regional Analysis For Development	Mur-Miranda; Staff	2 + 2	TR 3:20-5:00p	AC326	25	Designated Alternative for MTH2130: Probability and Statistics (tentative offering based on adjunct availability)
INTEGRATED	SCI 1210A / AHSE 2199A	A1	Special Topics in AHS and Science: 6 Microbes that Changed the World	Martello; Huang	4 + 4	TF 1:30-3:10; W 1-5:00p	AC318 / AC406	24	Fulfills the Introductory Biology Requirement at Olin; small Waitlist AVAILABLE
ME	ENGR 2340	01	Dynamics	Lee	4	TF 9-10:40a; W 9:30-10:30a	AC328	40	
ME	ENGR 3310	01	Transport Phenomena	Storey	4	MR 9-10:40a	AC328	30	
ME	ENGR 3330	01	Mechanical Design	Barrett	4	MR 10:50-12:30p	AC309	25	Waitlist AVAILABLE
ME	ENGR 3390	01	Fundamentals of Robotics	Barrett	4	MR 3:20-5:00p	AC309	25	Formerly titled Robotics I; Waitlist AVAILABLE
MTH	MTH 2110	01	Discrete Math	Adams	4	MR 9-10:40a	AC326	35	Waitlist AVAILABLE
MTH	MTH 2110	02	Discrete Math	Patel	4	MR 9-10:40a	AC128	35	Waitlist AVAILABLE
MTH	MTH 2188A	01	Designated Alternative in Mathematics: Computational Bayesian Statistics	Downey	2	TF 10:50-12:30p	AC126	24	SESSION I; Designated alternative for MTH2130: Probability and Statistics; EXPERIMENTAL GRADING
MTH	MTH 2220	01	Linearity II	Geddes; Patel; Somerville	4	MR 1:30-3:10p	AC318	30	
MTH	MTH 2220	02	Linearity II	Geddes; Patel; Somerville	4	MR 1:30-3:10p	AC326	30	
MTH	MTH 2220	03	Linearity II	Geddes; Patel; Somerville	4	MR 1:30-3:10p	AC328	30	
MTH	MTH 3150	01	Numerical Methods and Scientific Computing	Geddes	4	MR 3:20-5:00p	AC318	16	Waitlist AVAILABLE
MTH	MTH 3160	01	Introduction to Complex Variables	Hoffman	4	MR 1:30-3:10p	AC417	24	May be used as an ME Math

Area	Course #	Sec #	Course Title	Instructor	Credits	Time	Location	Enroll Limits	Notes
OIE	AHSE 1100	01	History of Technology	Martello	4	TF 10:50-12:30p	AC318	15	AHS Foundation
OIE	AHSE 1122	01	Wired Ensemble	Dabby	4	T 3:20-5:00p; F 10:50-12:30p	AC304; AC305	15	AHS Foundation
OIE	AHSE 1145	01	The Human Connection	Lynch	4	T 10:50-12:30p; F 9:30-12:30p	CC214	15	AHS Foundation
OIE	AHSE 1155	01	Identity from the Mind and Brain	Adler	4	TF 10:50-12:30p	AC128	15	AHS Foundation
OIE	AHSE 1199	01	Arts, Humanities, Social Sciences Foundation Topic: <i>Robots, Mutants and Monsters: Envisioning Science in Cinema</i>	Vitols	4	TF 10:50-12:30p	AC326	15	This course requires attendance at Monday evening film screenings from 7-9:30pm.
OIE	AHSE 1199	02	Arts, Humanities, Social Sciences Foundation Topic: <i>Media Revolution: Activism and Technology</i>	Vitols	4	TF 9-10:40a	AC326	15	
OIE	ENGR 1125	01	Introduction to Sensors, Instrumentation and Measurement	Storey; Minch; Christianson; Quinones	4	M 1:30-3:10p; T 1-3:10p	M: MH120; T: AC428	21	
OIE	ENGR 1125	02	Introduction to Sensors, Instrumentation and Measurement	Storey; Minch; Christianson; Quinones	4	M 1:30-3:10p; W 1-3:10p	M: MH120; W: AC428	21	
OIE	ENGR 1125	03	Introduction to Sensors, Instrumentation and Measurement	Storey; Minch; Christianson; Quinones	4	M 1:30-3:10p; R 1-3:10p	M: MH120; R: AC428	21	
OIE	ENGR 1125	04	Introduction to Sensors, Instrumentation and Measurement	Storey; Minch; Christianson; Quinones	4	M 1:30-3:10p; F 1-3:10p	M: MH120; F: AC428	21	
OIE	ENGR 1200	01	Design Nature	Linder; Chachra; Hendren; Mur-Miranda; Zastavker	4	MW 3:20-6:00p	MH120; AC204	32	
OIE	ENGR 1200	02	Design Nature	Linder; Chachra; Hendren; Mur-Miranda; Zastavker	4	MW 3:20-6:00p	MH120; AC206	32	
OIE	ENGR 1200	03	Design Nature	Linder; Chachra; Hendren; Mur-Miranda; Zastavker	4	MW 3:20-6:00p	MH120; AC209	32	
OIE	MTH 1111 and SCI 1111	01	Modeling and Simulation of the Physical World	Downey; Hoffman; Somerville; Townsend	2 + 2	MR 10:50-12:30p; W 9-10:40a	MH120; AC204	28	
OIE	MTH 1111 and SCI 1111	02	Modeling and Simulation of the Physical World	Downey; Hoffman; Somerville; Townsend	2 + 2	MR 10:50-12:30p; W 9-10:40a	MH120; AC206	28	

Area	Course #	Sec #	Course Title	Instructor	Credits	Time	Location	Enroll Limits	Notes
OIE	MTH 1111 and SCI 1111	03	Modeling and Simulation of the Physical World	Downey; Hoffman; Somerville; Townsend	2 + 2	MR 10:50-12:30p; W 9-10:40a	MH120; AC209	28	
SCI	SCI 1121	01	Electricity and Magnetism: Project Based Approach	Christianson	4	TWF 9-10:40a	AC428	30	
SCI	SCI 1210	01	Principles of Modern Biology (with Lab): <i>Designing Better Drugs to Fight Disease</i>	Pratt	4	TF 1:30-3:10p; lab T 3:20-6:00p	AC417 AC406	24	
SCI	SCI 1410	B1	Materials Science and Solid State Chemistry (with Lab): <i>Environmental and Societal Impact of Materials</i>	Stolk	4	MW 3:20-6:00pm	AC413	21	
SCI	SCI 1410	C1	Materials Science and Solid State Chemistry (with Lab): <i>Biomaterials, Polymers and Mechanical Properties</i>	Chachra	4	TR 3:20-6:00pm	AC413 AC417	21	
SCI	SCI 2299	01	Special Topics in Biology: <i>Emerging Technologies in Cancer Research and Treatment</i>	Pratt	4	T 10:50-12:30p; F 9:50-12:30p	AC417 AC406	12	see registration booklet for prerequisite info and how this might fulfill the Olin Intro Biology requirement
	OIE 1000	01	Olin Introductory Experience	Tatar	1	R 3:20-5:00p	MH120	90	
	OIP 1000	01	The Olin Internship Practicum	Phelps	1			n/a	See PGP to enroll

Color Key- Offering Blocks		ECE				ME				ENGR / DSN Courses				OIE or Genl Req															
Monday										Tuesday										Wednesday									
9:00 AM	ENGR 1199 Spec Top Engr: Microelec tronic & Nanotech Revolution AC126	MTH 2110-01 Discrete Math AC326	MTH 2110-02 Discrete Math AC128	AHSE 1515 Products & Markets AC318		ENGR 3310 Transport Phenomena AC328		ENGR 2340 Dynamics AC328	SCI 1121 Electricity and Magnetism AC428	ENGR 3420 Analog and Digital Comm AC304		AHSE 1199 - 02 AHS Fnd Topic: Media Revolution AC326		ENGR 2340 Dynamics 9:30-10:30a AC328	MTH 1111/ SCI 1111 All Sections Modeling and Simulation 10:50-12:30p MH120 AC204 AC206 AC209	AHSE 1515 Products & Markets AC318	SCI 1121 Electricity and Magnetism AC428	ENGR 4190	SCOPE										
10:40 AM	MTH 1111/ SCI 1111 All Sections Modeling and Simulation 10:50-12:30p MH120 AC204 AC206 AC209		ENGR 3410 -01 Computer Architecture AC328	ENGR 3600 Topics in Bioengineering AC318	AHSE 2170 Teaching and Learning in UG Sci and ENGR	ENGR 3330 Mechanical Design AC309		MTH 2188A DesAlt Math: Comp Bayesian Stats SESS I AC126	ENGR 3599 Spec Top Computing: Comp Signal Proc SESS II AC126	ENGR 2210, sec 01 Principles of Engineering AC306	ENGR 2210 sec 02 Principles of Engineering AC309	ENGR 3220 Human Factors and Interface Design TF 9:40-12:30p AC109	AHS Foundation AHSE1100:Hist of Tech AHSE1145: Human Connection AHSE1155: Identity Mind/Brain AHSE1199-01 Topic: CC214, AC128, 318, 326	AHSE 3130 Adv Digital Photography AC313	SCI 2299 Special Topics in Biology: Cancer Research AC417	Open Meeting Time 10:50-12:30pm													
12:30 PM	AC128										AC128																		
1:30 PM	OIE ENGR 1125 ALL Sec Intro Sensors, Instru, Measurement MH 120	MTH 2220 sec 01, 02, 03 Linearity II AC318 AC326 AC328	MTH 3160 Intro to Complex Variables AC417	ENGR 3450 Semiconductor Devices AC126	AHSE 4590 Entrepreneurship Capstone AC313	ENGR 3599A - 02 Spec Top in Computing: 'CompRobotics' AC128		OIE ENGR 1125 sec 01 Intro Sensors, Instru, Measurement 1-3:10p AC428	ENGR 2510 Software Design AC326	ENGR 3710 Systems AC328	SCI 1210 Prin of Modern Biology: 'Drugs' Lecture AC417	ENGR 2210, sec 03 Principles of Engineering AC306	SCI 1210A AHSE 2199A 6 Microbes that Changed the World AC406 & AC 318	AHSE 4190 AHS Capstone 1:30-4:10p CC214	ENGR 3599B Spec Top Computing: Game Programming AC126	ENGR 3599A- 01 Spec Top in Computing: 'CompRobotics' AC128	OIE ENGR 1125 sec 02 Intro Sensors, Instru, Measurement 1-3:10p AC428	SCI 1210A AHSE 2199A 6 Microbes that Changed the World 1-5:00p AC406& AC 318	ENGR 1330 Fnd Machine Shop Operations 1-5:00p	ENGR 4190	SCOPE								
3:10 PM		MTH 3150 Numerical Meth and Sci Computing AC318		ENGR 3426 MAD VLSI, I AC304	OIE ENGR 1200 ALL Sections Design Nature MH120; AC204 AC206 AC209	SCI 1410 sec B1 Materials Science and Solid State Chemistry AC413	ENGR 3390 Fundamentals of Robotics AC309	ENGR 3410 -02 Computer Architecture AC328	AHSE 1122 Wired Ensemble AC304 & AC305	AHSE 3510 New Tech Ventures TR 4-5:35p AC128	SCI1210 Prin of Modern Biology LAB AC406	SCI 1410 sec C1 Materials Science and Solid State Chemistry AC413 AC417	ENGR 3290 and 4290 Affordable Design & Entrp 3:30-6:30p AC213 and Babson	ENGR2199B MTH2188B Spec Top Engr / Math Regional Analysis for Dev'mt AC326		OIE ENGR 1200 ALL Sections Design Nature MH120; AC204, AC206 AC209	SCI 1410 sec B1 Materials Science and Solid State Chemistry AC413			ENGR 4190	SCOPE								
5:00 PM																													
6:00 PM																													
9:00:00 PM	SEMINAR SEM 402 Danger High Voltage 6:30-8:10pm Mondays Only AC304							SEMINAR SEM 501 5 More Skills for Software Designers Tuesday Only 7-8:40p AC326																					

AHSE				SCI				Math				Integrated Offering				Color Key- Offering Blocks																
Thursday								Friday																								
ENGR 1199 Spec Top Engr: Microelec tronic & Nanotech Revolution AC126				MTH 2110-01 Discrete Math AC326		MTH 2110-02 Discrete Math AC128		AHSE 1515 Products & Markets AC318		ENGR 3310 Transport Phenom ena AC328						9:00 AM																
MTH 1111/ SCI 1111 All Sections Modeling and Simulation 10:50-12:30p MH120 AC204 AC206 AC209				ENGR 3410-01 Computer Architecture AC328		ENGR 3600 Topics in Bioengin eering AC318		ENGR 3330 Mechani cal Design AC309		MTH 2188A DesAlt Math: Comp Bayesian Stats SESS I AC126		ENGR 3599 Spec Top Computi ng: Comp Signal Proc SESS II AC126		ENGR 2210, sec 01 Principles of Enginee ring AC306		ENGR 2210 sec 02 Principles of Enginee ring AC309		ENGR 3420 Analog and Digital Comm AC304		ENGR 3220 Human Factors and Interface Design AC109		AHSE 1199- 02 AHS Fnd Topic : Media Revolutio n AC326		AHSE 1145 Human Connection 9:30a start CC214		SCI 2299 Special Topics in Biology: Cancer Research		10:40 AM				
												AHS Foundation Topics AHSE1100:Hist of Tech AHSE1122:Wired Ensemble AHSE1145: Human Connection AHSE1155: Identity Mind/Brain AHSE1199-01 Topic: CC214; AC128, 304, 305, 318, 326				AHSE 3130 Adv Digital Photogra phy AC313		9:50-12:30pm AC406 / AC417		10:50 AM												
																				12:30 PM												
OIE ENGR 1125 sec 03 Intro Sensors, Instru, Measurement 1-3:10p AC428				MTH 2220 sec 01, 02, 03 Linearity II AC318 AC326 AC328		MTH 3160 Intro to Complex Variables AC417		ENGR 3450 Semicon ductor Devices AC126		AHSE 4590 Entrepre neurship Capstone AC313		ENGR 3599A- 02 Spec Top in Computi ng: 'CompRo botics' AC128		OIE ENGR 1125 sec 04 Intro Sensors, Instru, Measurement 1-3:10p AC428				ENGR 2510 Software Design AC326		ENGR 3710 Systems AC328		SCI 1210 Prin of Modern Biology: 'Drugs' Lecture AC417		ENGR 2210, sec 03 Principles of Enginee ring AC306		SCI 1210A AHSE 2199A 6 Microbes that Changed the World AC406 & AC 318		ENGR 3599B Spec Top Computi ng: Game Program ming AC126		ENGR 3599A- 01 Spec Top in Computi ng: 'CompRo botics' AC128		1:30 PM
MTH 3150 Numerical Methods and Sci Computing AC318				AHSE 3510 New Tech Ventures TR 4-5:35p AC128		ENGR 3250 Integrated Product Design 3:30-6:30p Location: all 3 campuses ; when at Olin AC213		ENGR 3426 MAD VLSI , I AC304		SCI 1410 sec C1 Materials Science and Solid State Chemistr y AC413 AC417		ENGR 3390 Fundame ntals of Robotics AC309		ENGR2199B MTH2188B Spec Top Engr/Math Regional Analysis for Dev'mt AC326		OIE 1000 Olin Intro Experien ce MH120		ENGR 3410-02 Computer Architecture AC328		Community Service								3:10 PM				
																								3:20 PM								
																								5:00 PM								
																								6:00 PM								
																								↓								
																								9:00:00 PM								

Area	Course #	Probable Number of Sections	Course Title	Instructor	Credits
AHS	AHSE 0112	1	The Olin Conductorless Orchestra	Dabby	1
AHS	AHSE 2131	1	Responsive Drawing and Visual Thinking	Donis-Keller	4
AHS	AHSE 2199	1	Special Topics in Arts, Humanities and Social Sciences: Foundations of Psychology	Adler	4
AHS	AHSE 3100	1	Issues in Leadership and Ethics	Miller, R.	2
AHS	AHSE 3190	1	Arts, Humanities, Social Sciences Capstone Preparatory Workshop	Epstein	1
AHS	AHSE 4190	1	Arts, Humanities, Social Sciences Capstone	Epstein	4
DSN	ENGR 2250	3	User Oriented Collaborative Design	Staff	4
DSN	ENGR 3210	1	Sustainable Design	Linder	4
DSN	ENGR 3260	1	Design for Manufacturing	Staff	4
DSN	ENGR 3299	1	Design Depth Offering	Hendren	4
DSN / ENGR	ENGR 3290 OR ENGR 4290	1	Affordable Design & Entrepreneurship	Linder	4
E:BE	ENGR 3699	1	Special Topics in BioEngineering: Tissue Engineering	Sarang-Sieminski	4
E:C	ENGR 2510	2	Software Design	Ruvolo; Hill	4
E:C	ENGR 3520	1	Foundations of Computer Science	Staff	4
E: BE	ENGR 3610	1	Biomedical Materials	Chachra	4
E!	AHSE 1515	4	Products and Markets	Neeley; Hoover; Hopper; Lynch; Pratt	4
E!	AHSE 4590	1	Entrepreneurship Capstone	Brand	4
ECE	ENGR 2410	1	Signals and Systems	Mur-Miranda	4
ECE	ENGR 2420	1	Introduction to Microelectronic Circuits with LAB	Minch	4
ECE	ENGR 3415	1	Digital Signal Processing	Dabby	4
ECE	ENGR 3450	1	Semiconductor Devices	Kerns, S	4
ECE	ENGR 3499	1	Special Topics: in Electrical and Computer Engineering: EE Prototyping	Lundberg	4
ECE	ENGR 3499	1	Special Topics: in Electrical and Computer Engineering: Topic TBD	Kerns, D	4
ENGR	ENGR 1199	1	Special Topics in Engineering: Intro to Microelectronics and Nanotechnology Revolution	Kerns, S	4
ENGR	ENGR 1330	1	Fundamentals of Machine Shop Operations	Andruskiewicz	4
ENGR	ENGR 2199	1	Special Topics in Engineering: Applications of Microfluidics	Storey	4
ENGR	ENGR 2210	1	Principles of Engineering	Govindasamy	4

Area	Course #	Probable Number of Sections	Course Title	Instructor	Credits
ENGR	ENGR 3199	1	Special Topics in Engineering: Elecanisms	Hoover; Minch	4
ENGR	ENGR 4190	~14	Senior Capstone Program in Engineering (SCOPE)	Sarang-Sieminski, et al	4
INTEGRATED	AHSE 2141 / ENGR 2141	1	Engineering for Humanity	Lynch; Ben-Ur	4
INTEGRATED	AHSE 2199A / SCI 2099A	1	Special Topics in AHS and Science: Paradigms, Predictions and Joules	Martello; Brabander	4
ME	ENGR 2320	1	Mechanics of Solids and Structures	Lee	4
ME	ENGR 2330	1	Introduction to Mechanical Prototyping	Staff	4
ME	ENGR 2350	1	Thermodynamics	Storey	4
ME	ENGR 3330	1	Mechanical Design	Barrett	4
ME	ENGR 3370	1	Controls	Lundberg	4
ME	ENGR 3392	1	Robotics Systems Integration (formerly Robotics II)	Bennett	4
ME	ENGR 3399	1	Special Topics in Mechanical Engineering: Mech/Aero Advanced Elective	Lee	4
MTH	MTH 2130	2	Probability and Statistics (first half of semester)	Adams	2
MTH	MTH 2210	1	Linearity I	Adams; Hoffman; Townsend	4
INTEGRATED	ENGR2199A / MTH2188A	1	Probability and Statistics - Data Science	Downey	4
MTH	MTH 3120	1	Partial Differential Equations	Hoffman	4
SCI	SCI 1130	2	Mechanics	Zastavker; Somerville	4
SCI	SCI 1121	1	Electricity and Magnetism	Christianson	4
SCI	SCI 1210	2	Principles of Modern Biology (with Lab)	Donis-Keller; Huang	4
SCI	SCI 1310	1	Introduction to Chemistry (with Lab)	Staff	4
SCI	SCI 1410	2	Materials Science and Solid State Chemistry (with Lab)	Stolk; Christianson	4
SCI	SCI 2130	1	Quantum Physics	Holt	4
SCI	SCI 2145	1	High Energy Astrophysics	Holt	2
SCI	SCI 3130	1	Advanced Classical Mechanics	Zastavker	4
SUST	SUST 3301	1	Sustainability Certificate Synthesis Course	Staff	4