

CO-CURRICULARS

SPRING SEMESTER 2020-21

Registration for Co-curricular Offerings will begin at noon on Friday, January 29, 2021, and continue through February 10, 2021. Registration for these offerings takes place after course registration and the first day of classes. The intent is to make sure students have a sense of their academic time commitments prior to taking on more activities with co-curriculars. You can register during the add period via the portal. Use the course number and section listed with the title.

Co-Curricular Etiquette: (1) in order to give all students a reasonable chance to register for co-curriculars, please limit your choices to no more than two, (2) don't register unless you are serious about attending, and (3) if you decide to drop out, notify the staff or faculty sponsor and the Registrar's Office by e-mail.

Co-Curricular Number, Section	Co-Curricular Title	Staff/Faculty Sponsor(s)
CC1311-01	A Short Chat with Nate about Vehicle Suspension Dynamics	Nate Cantrell
CC1705-01	Birding Wherever You Are	Joanne Pratt
CC1009-01	Brain Games	Seth Hodge
CC1309-01	Building a Community Computing Collective	Steve Matsumoto
CC1104-01	Education Journal Literature Club	Zach del Rosario, Steve Matsumoto
CC1312-01	Fancy-Pants 3D Printing Techniques	Lucas Ewing
CC1505-01	Intellectual Freedom in the Age of Big Tech and Alternative Facts	Callan Bignoli
CC1904-01	The Music of Our Lives	Adva Waranyuwat
CC1310-01	Transformers for Switched-Mode Supplies	Beat Arnet
CC1305-01	YOU-Oriented Collaborative Design	Ela Ben-Ur

CC1311-01

A Short Chat with Nate about Vehicle Suspension Dynamics

Faculty sponsor: Nate Cantrell

Limited to 20 students

This co-curricular will be an open discussion to explore suspension system design, construction, and how it affects vehicles of all types.

We will meet once a week on Zoom depending on enrollment and schedule.

Please feel free to come with personal interests and questions related to the topic or just vehicles in general!

Can't wait to geek out about cars, trucks, motorcycles, and anything else that has wheels and or goes!

CC1705-01

Birding Wherever You Are

Faculty sponsor: Joanne Pratt

Many of us have turned to nature during these stressful times. Maybe you've become more aware of the birds you share habitat with, and you want to know their names and understand their behaviors. We'll meet weekly to share tips and resources on how to identify birds, where to

find good birds and share and celebrate our bird sighting lists. We'll help one another identify birds we've seen. We'll have just enough time to become familiar with our local winter birds before spring migration! No experience necessary. Open to students, staff and faculty.

CC1009-01 Brain Games

Staff sponsor: Seth Hodge

Limited to 8 students (second group possible if there's enough demand)

Spend an hour each week zooming some brain games and meeting other Oliners. We will play a variety of games from the Jackbox Collections and elsewhere online. Smartphone or device will be needed to log into games, while using laptop to zoom.

CC1309-01 Building a Community Computing Collective

Faculty sponsor: Steve Matsumoto

This co-curricular is aimed towards with some programming experience (approximately SoftDes or equivalent) who are interested in practicing software development for the good of the Olin community. We will begin building software to configure and deploy a series of self-hosted and privacy-respecting online services for applications such as Web search, collaborative document editing (like Drive), polls (e.g., for meeting times), and text/audio/video chat. The existing mainstream services for these applications (Google, Doodle, when2meet, Slack, Discord, etc.) often collect large amounts of data from their users that can then be sold to advertisers or turned over to ethically questionable governmental organizations.

Participants in this co-curricular will learn tools such as Git, Docker, Ansible, Kubernetes, Flask, and the UNIX command line. At the end of the co-curricular, we hope to have a small set of services that we can make available to the college community, along with documentation for both administrators and users.

CC1104-01 Education Literature Journal Club

Faculty sponsors: Zach del Rosario, Steve Matsumoto

Have you ever been curious about the science behind teaching and learning? If yes, this co-curricular is for you! Prof's Steve and Zach will lead an education literature journal club. As a group we will read and discuss ~6 papers over the semester. Meetings will be Fridays at 2pm every 2 weeks, starting on February 12th.

CC1312-01 Fancy-pants 3D Printing Techniques

Faculty sponsor: Lucas Ewing

Want to 3D print giant prototypes and don't want to wait forever? Want to internally reinforce certain parts of your print? How about embedding things like nuts and magnets? In this co-curricular we'll talk about design for 3D printing and adjusting print profiles to match certain features of your design, before trying to push our 3D printers to their limits and discussing print failures as we encounter them. I've also invited a couple 3D printing wizards from Brandeis to talk about photogrammetry – the process of using a series of pictures to create 3D models for the sake of reverse engineering.

Meeting time on Zoom TBD.

CC1505-01 Intellectual Freedom in the Age of Big Tech & Alternative Facts

Staff sponsor: Callan Bignoli

Intellectual freedom is a core value of both librarianship and academia, but it can have the unfortunate side effect of upholding and defending oppressive power structures. In this co-curricular, we'll look at what the "neutrality" debate is all about, how intellectual freedom can clash with social justice, and who holds the power when it comes to speech online. By reflecting on and discussing recent events, podcast episodes, and articles, we'll explore how intellectual freedom impacts our lives and consider the responsibility of big tech companies in the information ecosystem of today.

CC1904-01

The Music of Our Lives

Staff sponsor: Adva Waranyuwat, with facilitators Shyheim Russell & Niyi Owolabi

Limited to 10 students

Music, particularly music that narrates or represents your childhood or current lives, can provide powerful insights into who you were and are. As a group, we will ask two participants each session to pick two songs each to share with the group. These songs should define or explain some part of your experience or identity, either from the past or how you see yourself today. We will listen to the song(s) together and discuss the lyrics. The goal of this co-curricular is to enjoy each other's company, deepen our understanding of each other, and share our lives together through music!

We hope to meet once every other week. Self-care is important to us and should be important to everyone, so we will adjust the schedule as needed throughout the semester!

group tackled things from redesigning their rooms to side design projects, planning campus experiences, personal/roommate/team challenges, and identity journeys.

Later in the semester we'll focus further out to our course/career paths, and invite other staff and professors as guests.

We'll find a meeting time that works for everyone.

CC1310-01

Transformers for Switched-Mode Supplies

Faculty sponsor: Beat Arnet

Limited to 8 juniors and seniors

26, 27, 28, 29, wait! Did I already count this turn??? Winding transformers is tricky - designing them is a science. Join this co-curricular to learn about transformers in the context of a power electronics application. We will talk about the theory (electromagnetics), realization (manufacturing), review datasheets, derive requirements, run simulations, and, circumstances permitting, fabricate prototypes and analyze them with a custom switching circuit.

CC1305-01

YOU-Oriented Collaborative Design

Faculty sponsor: Ela Ben-Ur

Limited to 10 students (staff and faculty welcome too!).

What happens when we use our design and experimenting tools in anything we do? This is your studio time—coached by each other and by longtime UOCD prof, IDEO alumna, and design coach Ela Ben-Ur. Students in the last