EEE Newsletter
January 17, 2022

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Purdue Calendar
For important advising and registration dates for the 2022 Spring Semester: https://www.purdue.edu/registrar/calendars/index.html

Protect Purdue
All of the info and resources you may need can be found at https://protect.purdue.edu/

EEE Faculty Mentor Change Request Form - Due 1/24/22
If you wish to change your EEE Faculty Mentor, download and complete the EEE Faculty Mentor Change Request Form. Deadline is Monday, January 24- 8AM. No action is needed from students new to EEE this semester. Assignments for those students will be made by the EEE UG office.

SEEE Meeting
The first meeting for the Society of Environmental & Ecological Engineers will be Thursday January 20th at 6 pm, in POTR 360.

EEE Main Office - POTR 364 Hours of Operation
The EEE main office is located in POTR 364. Office hours are currently: M-F 8am-4pm. The POTR building hours of operation are 6:00am - 10:30pm, 7 days a week. If doors are locked during these posted times, contact the Purdue Police non-emergency number at 49-48221.

EEE Computer Lab in POTR 360*
POTR 360, the EEE Computer Lab is now OPEN! It’s next door to the main EEE office. See attached agreement for student use of POTR 360.

• Key Pad Entry Code - PAYNEL, as in Prof. Lindsey Payne, who teaches EEE 29000 and EEE 49500M Urban Water Projects.
• EEE maintains this computer center for academic & social activities. Its use is a privilege reserved for EEE students and those enrolled in EEE courses to work, study, and access dedicated EEE computers. There are 12 desktop computers with internet access and a printer/scanner. The room contains additional tables, chairs, and whiteboards.
• Face masks are required. Hand sanitizer has been placed by each computer station.
Please read the attached agreement sheet which details privileges and responsibilities of using this room. In general, be respectful to others and the property. Always log off of computers before leaving the room. Do not lock a computer for later use. Do not move or alter any of the computer systems.

If you wish to place items on the wall, ask in the EEE Office for appropriate tacky putty. (No tape or staples.) Use discretion when determining if to print and how many copies to print.

**Job Corner with Ms. Whelton, PE**

**Expo** is February 8th and 9th (8am to 3pm) and will be hybrid (virtual and in person like IR was in the fall). I suspect they will be using the career fair plus app (like IR did in the fall). However, they recently posted that they will be opening interviews slots on January 28th. Keep checking the link above for more details and I will update you as I find out more information.

Expo is the largest Purdue career fair in the spring semester. When company information is available, remember that usually there are some companies that have listed EEE as an option, but there are also good companies that don’t have EEE selected. To enhance your job search look for companies seeking Environmental Health Sciences and Civil Engineering and see if they do environmental work. Many do! I will send out an email closer to the event with more details.

The Professional Practice Career Fair is on **February 15th** and is also a hybrid event. The in-person portion will run from 9am to 3pm in the CoRec. The virtual fair will be from noon to 8pm the same day. Although this career fair is primarily focused on co-ops there are usually internship and permanent opportunities available. Have you thought about co-op? It is a great way to gain substantial experience as a student. For co-ops, only freshman and sophomores are applicable. Internship opportunities generally are open to all students. Some companies only put their internships on this site so it’s another way to find out about opportunities! I will provide you more information on the process as we get closer to the fair.

To prepare for the Professional Practice Career Fair, there is a co-op callout for all interested students on January 18th at 7pm and will be virtual. If interested, register [here](https://purdue-edu.zoom.us/webinar/register/WN_l0DwYk6ITROdkiSMvBF1zA). I will host the EEE virtual session at 8pm. The following link is for the breakout EEE meeting hosted by me: (1/18/2022 8 PM) Zoom Meeting ID: 951 8439 5304, Passcode: 645608

If you don’t have an account with the CCO online job postings—sign up! Set up your CCO account here: [https://www.cco.purdue.edu/#myCCO](https://www.cco.purdue.edu/#myCCO)

**COOP Callout**

The COOP callout will be held virtually on Tuesday, **January 18th** at 7PM. Jim Magro, from AMD, will be guest speaker sharing about his experience with co-op. Immediately following the virtual callout will be the individual breakout sessions. Links will be distributed in the chat (which will be moderated by PPA students). The EEE virtual session will be at 8pm; hosted by Ms. Whelton. The following link is for the EEE breakout: Zoom Meeting ID: 951 8439 5304, Passcode: 645608

Below is an image that is hyperlinked and can be shared, or the link to register for the callout can be found here:

[https://purdue-edu.zoom.us/webinar/register/WN_l0DwYk6ITROdkiSMvBF1zA](https://purdue-edu.zoom.us/webinar/register/WN_l0DwYk6ITROdkiSMvBF1zA)

**EEE Faculty Research**
To review faculty research, go to https://engineering.purdue.edu/EEE/Research. On this page you will notice 2 blocks labeled ‘Classic Environmental Engineering’ and ‘Industrial Sustainability.’ Click on these to see further explanation of subareas. It may be best to first decide if your interests fall within ‘Classic’ or ‘Industrial’, then reach out accordingly. Names of the faculty who work in these areas are listed, and you can learn more about each of their specific areas of research, publications and contact info by clicking on each name. See the attached for more insights on how to gain UG research. If you are approved to work with someone, there are specific steps to take to enroll a course if you wish to establish course credit, or you can work for hire. The EEE independent research/project course number is EEE 49800.

**SURF Applications Open**

The Summer Undergraduate Research Fellowship (SURF) program is a Purdue research program for selected undergraduate students. This paid fellowship is a 10-week program, in which students will participate in research projects alongside distinguished faculty and graduate students. The application window has opened and will close on February 15th. [For more information on SURF or to apply](https://www.purdue.edu/academics/research/undergraduate/research-fellowships/surf.html).

**What are REUs? (NSF Research Experiences for Undergraduates)**

- NSF Research Experiences for Undergraduates (or REUs) are competitive summer research programs in the United States for undergraduates studying science, engineering, or mathematics. Such programs usually focus on targeting women and underrepresented minorities. The programs are sponsored by the National Science Foundation, and are hosted in various universities. They are among the most prestigious summer programs that an undergraduate can participate in. Individual REUs tend to be specialized in a particular field of science. There are REUs in many scientific fields such as mathematics, physics, chemistry, geology, biology, psychology, and computer science.
- REU sites typically consist of ten undergraduates working in the research program of the host institution. As the program is funded by the NSF, undergraduates must be citizens or permanent residents of the US or its possessions to be eligible for funding. However, some REU sites accept “self-funder” international students. Applications are typically due between February and March. This is excellent opportunity for undergraduates to get further research experience, and REUs are especially recommended for students considering graduate coursework later on. Compensation for hours worked is provided.
- A searchable engine and more info can be found at [http://www.nsf.gov/crssprgm/reu/reu_search.jsp](http://www.nsf.gov/crssprgm/reu/reu_search.jsp)
- These opportunities are competitive so having prior research experience makes you more competitive.
- See your EEE Mentor for more insights on the advantages of REUs, or with help in narrowing your choices.

**Scholarship Opportunities Available!**

It is always scholarship season! If you are looking for scholarships for next semester or year, the EEE web page has a listing of private scholarships offered by organizations outside of EEE and/or Purdue. There are a number of opportunities listed there currently and the page is continually updated with more information as it is shared with our office. Get in the habit of checking this page frequently. You may access this page by taking this path -  EEE -> Current Students -> Useful Resources -> Scholarships and Financial Aid -> Outside Scholarship Opportunities
ACEC Scholarship*

ACEC Indiana offers collegiate scholarships for full-time Indiana residents pursuing an engineering degree at an Indiana engineering school. By instilling the importance of education and community outreach in Indiana’s students, ACEC Indiana is creating generations of active adults, thoughtful leaders, and responsible citizens. You can learn more about ACEC Indiana at http://acecindiana.org. Scan the attached QR Code flyer to receive more information about the 2022 Scholarship Program.

For more information regarding the scholarship opportunity, please visit http://www.acecindiana.org/?page=Scholarship. Deadline for submission is Friday, Feb. 4, 2022.

Grants for Community and Service-learning Projects

Purdue’s Office of Engagement provides grants to students or student organizations (up to $1,500) for work on community and service-learning projects. This program’s goal is to expand the community involvement of Purdue students in partnership with communities, non-profit agencies, schools, and governmental bodies. Inquiries may be directed to Lisa Duncan, Purdue Office of Engagement at 49-40899 or llduncan@purdue.edu. Both the application and guidelines for the student grant program for community service/service learning projects can be found online: https://www.purdue.edu/engagement/sl-grants/ and https://slg.engagement.purdue.edu

Spring Application Deadlines are as follows:
- Application Deadline: February 16, 2022
- After February 16, 2022: Review on a Rolling Basis
- Student Notification: On or before March 4, 2022

Summer 2022 Schedule of Classes Available

The initial Summer 2022 schedule of classes is available in your myPurdue portal as of Monday, December 6. Summer scheduling is done manually by students in Scheduling Assistant- not PreReg/Batch- and your summer PIN is the same as your Spring PIN. See time ticket weeks at https://www.purdue.edu/registrar/currentStudents/students/registrationFaq.html. Students’ can find their specific time ticket after 12/22/21 in myPurdue > Registration tab > Registration Status.

Summer Scholarship Opportunities at Purdue

Purdue offers a variety of summer scholarships. Information about each opportunity is detailed below.
- **Summer Stay Scholars** (up to $2,500) — This program combines a research or internship experience with summer courses. The opportunity is available to current students with a GPA of at least 2.00.
- **Summer Internship Plus** (up to $1,000) — This opportunity is available to students who are completing credits alongside a summer internship experience.
- **Summer Finish** (up to $500) — This opportunity is open to seniors who graduate during August rather than wait until December.

Advisor-Initiated Scholarship - Advisors can nominate three students who would benefit from online or on-campus summer courses. Preference is given to first-year and second-year students needing to catch up on degree requirements. Let Tammi Thayer (thayert@purdue.edu) know if you would like to be nominated.

Housing Scholarships
A limited number of housing scholarships are available to homeless students and students who have experienced foster care. If you would like to apply for one of these opportunities, please email.

Other Financial Aid
A student may receive up to the equivalent of six full-time years of Federal Pell Grants. Visit the Federal Pell Grant website to learn more.

Subsidized loans are determined by “years,” not “terms,” and eligible students get six years of federally subsidized direct loans. Students may receive unsubsidized federal loans until they borrow their federal aggregate loan limit or until they reach the satisfactory academic progress maximum time frame.

Any questions can be directed to the Division of Financial Aid at Purdue.
You can visit the Office of the Bursar for current tuition and fee rates.

Purdue Writing Lab-Writing Consultations

The Purdue Writing Lab is offering free writing consultations Monday through Friday until May 6. Open appointments are available from 9 a.m. - 9 p.m. Additionally, writing consultants are available for face-to-face and remote, virtual consultations. You can choose an online (live chat), etutoring (asynchronous email), or a face-to-face appointment. There
If you've never used the Writing Lab before, here's how to get started:

1. Make an appointment.
   - Choose Your Preferred Appointment Type:
     - Face-to-Face: in-person meeting
     - Online: log in for a live chat
     - eTutoring: upload a document for review
     - Group Programs: sign up on the group programs schedule
     - Choose a writing consultant.
   - Choose a time.
     - We suggest hour-long sessions if you’re unsure of how much time you might need, use half hour sessions for quick questions. Remember, you can return for another visit.

2. Be Prepared for Your Appointment
   - Bring a PUID for check-in
   - Bring your document and any instructor instructions or comments
   - Bring a computer charger
   - Arrive a few minutes early

3. Get the Most out of Your Appointment
   - Expect consultations to focus on your document as a whole. Come with questions and expect feedback.
   - In face-to-face appointments, communicate your priorities at the beginning. Share what has worked in the past. If you don’t understand the consultant, ask them to explain their thoughts.
   - In online (live chat) appointments, open with your writing concerns. Take advantage of the chat features like drawing, transcripts, and highlighting.
   - In eTutoring (upload a doc for review) appointments, be sure all your concerns are stated clearly in your appointment form. Understand that your consultant will be limited to the time window you selected.

**SHOVEL - Student Planning/Time Management**

- **Shovel** is a real-time college planner app that Purdue is offering free to all students; it can help you to schedule your time effectively with less stress. With Shovel you can enter your course requirements, co-curricular commitments, and/or employment hours—and be able to balance your time so that you also schedule downtime and breaks. You can access your free Shovel account by following this [link](#) and using your purdue.edu email to sign-up.
- Shovel recently went under renovation to better cater to Purdue students. A new version of Shovel provides a more streamlined process by which students can upload information from Brightspace into Shovel without having to individually enter each course task—this [video](#) offers more information on this new and important feature. Also, see attached flyer.
- If Purdue reaches 8,000 shovel accounts, the company will be giving out three AirPod Pros.

**English Conversation Groups**

If you are a Purdue University student or scholar whose first language is not English, the Writing Lab’s conversation groups are a terrific way to improve your fluency and expand your vocabulary. [More info on English Conversation Groups](#)... This semester’s schedule for the group meetings are as follows:

- **Virtual Monday** 10:30 a.m. - 11:30 a.m.
- **Tuesday** 3:30 p.m. - 4:30 p.m.
- **Wednesday** 5:00 p.m. - 6:00 p.m.
- **Thursday** 10:30 a.m. - 11:30 a.m.
- **Friday** 2:30 p.m. - 3:30 p.m.

**How to Schedule an Appointment with EEE Advisors**

EEE and other Engineering students can access the Environmental and Ecological Engineering appointment calendar via BoilerConnect. EEE currently has In Person and Virtual appointments, depending on the time and day.

There are training resources available to students in BoilerConnect on the login page. Click ‘Training & Resources.’ Advisors and service offices across campus use BoilerConnect for making appointments, so these instructions are generalized.
Registration Troubleshooting

Having trouble registering, adding, or dropping? Need an override for a class? There are many resources on the EEE Registration Tools page, such as instruction links for Scheduling Assistant:

- Scheduling Assistant - How to ADD
- Scheduling Assistant - How to DROP

The Registrar page also has links for most common registration issues at https://www.purdue.edu/registrar/currentStudents/index.html

Professional Licensure & FE exam - What is it? When to take it? How to prepare?

The Fundamentals of Engineering (FE) exam is typically the first step in the process leading to the P.E. license. It is designed for students close to finishing their engineering degree or recent graduates. The FE is a computer-based exam that is administered year-round at NCEES (National Council of Examiners for engineering and Surveying) approved Pearson VUE test centers. FYI - Purdue has an approved test site. The FE contains 110 multiple-choice questions. The exam appointment time is 6 hours long, which includes a nondisclosure agreement, tutorial (8 minutes), the exam (5 hours and 20 minutes), a scheduled break (25 minutes), and a brief survey.

- What is professional licensure all about and why is it important? Learn more at https://www.nspe.org/sites/default/files/resources/pdfs/GR/2017handouts/2017%20-%20What%20is%20a%20P.E.%20Document.pdf

- The EEE website has an information and resource page. Go to EEE > Current Students > click on Fundamentals of Engineering (FE) Exam under ‘Useful Resources’ This page highlights the Environmental Exam, NCEES itself, links to various sites to register for the FE, what study sessions are offered on campus (not all apply to EEE, though), how to purchase study guides, and other resources to consider.

- More info about resources for the FE exam... Prof. Nies has very graciously purchased a “loaner” copy of the FE Environmental Engineering Review Manual (all 754 pages!!!) that will be housed in the EEE office. Seniors are welcome to “check out” this manual for a 72hr period to review/study. This will at least allow you time to see what types of problems are on the exam, and solutions are provided. See Tammi Thayer to check out the manual.
EEE Computer Lab/Student Room (Potter 360) Agreement

The EEE Student Room in Potter 360 (hereafter referred to as 360) is a place set aside for EEE students and students in EEE courses to work, study, and access dedicated EEE computers.

Use of 360 is a privilege and students are expected to treat the room and other students in the room with respect.

Use
360 is restricted to EEE students and students in EEE courses. It is NOT a general-purpose room for Purdue students.

While it does not have the atmosphere of a library, students should be considerate of others attempting to work and keep noise to a minimum.

EEE students can invite other Purdue engineering students to work with them in 360 for the purpose of group work or projects. EEE students who host non-EEE students are responsible for their guests.

IMPORTANT:
360 is secured by a keypad whose code will change every semester and should NEVER be distributed to anyone except at the discretion of EEE faculty and staff. Students who give out the key code may have their 360 access privileges revoked. DO NOT prop open the 360 door.

Books
The books are for student use, however, please do not remove from POTR 360.

Computers
The eleven computers (PC01-08 are running Windows 10, PC 09-11 are running Windows 7) are available for general use by EEE students. However, school work or EEE-related business takes priority and students using the computers for general purposes (web browsing, email) should log off if there is not another computer free. This is not a general use computer lab – we do monitor the computers and only EEE students and those in EEE classes should be using the computers.

Printing
The use of 360 printer is limited to school work and EEE-related business. It is currently a free resource offered by EEE. Please respect this free resource (and the environment) by printing only what is necessary. We will monitor print use; excessive use or use by students who are not EEE students or in EEE courses may result in page charges.

SEEE Office Space
The desk and file cabinet labeled for SEEE is for SEEE officer use only. The microwave and refrigerator are for use by all EEE students, but provided and managed by SEEE.
How to get Undergraduate Research in EEE

Preparation:
1. Figure out what your objective is: To prepare for graduate school, gain technical skills, network, publish, exposure to entrepreneurship, etc.
2. Review the faculty webpages to find a few who are doing research that interests you
   a. https://engineering.purdue.edu/EEE/Research - summary
   c. Industrial Sustainability - https://engineering.purdue.edu/EEE/Research/industrial-sustainability
3. Go to the online journals to find a few recent publications by the professor you wish to approach. Research Journals - https://guides.lib.purdue.edu/az.php
4. Read two of the most recent journal articles published by the professor (as a first author). You will not understand everything, but take notes on the questions that you have while reading them. Doing this will familiarize you with their current research.

Reaching Out:
5. Email the professor:
   a. Make sure to state your name, year in EEE (sophomore), which articles you have read, and ask for 15 minutes of their time to meet to discuss their research since it interests you.
   b. Provide several time options in the coming two weeks that you are available to meet them at their office during regular business hours. (Don’t forget to ask where their office is or if they wish to correspond differently.)
6. Meeting with the professor:
   a. Ask probing questions about their research, such as:
      i. Do you have a research project that needs an undergraduate student’s help?
      ii. What are typical responsibilities for undergraduate students engaged in your research, and what are your expectations of them?
      iii. How did you get involved with this area of research?
      iv. Where does the funding come from for your research?
      v. Also, don’t forget the questions you wrote down about the articles you read!
   b. As you are talking, ask yourself whether this professor is someone you would want to work for.
      i. If so: at the end of the discussion, ask if they are taking students into their lab.
      ii. If not: politely thank them for their time and state that you hope to see them in classes in the future.
   c. If you get no response:
      i. Wait a minimum of two weeks before re-emailing the professor (to avoid being a pest)
ii. Forward your previous email to the professor, politely stating that you tried to email them two weeks ago, but it must not have reached them, so you are trying again. Provide a new batch of times you are available in the next two weeks to meet.

d. If you still get no response:
   i. Look up their graduate students, if possible (you can ask Cresta Cates, catesc@purdue.edu), to ask them how best to arrange a meeting with the professor.

Details:

7. To legally be in a professor’s research lab, you must either be doing research for credit or pay.
   a. For credit: In EEE, undergraduate research is most commonly started via EEE 49800. Follow the directions at Individual Research Proposal form (for EEE 49800) - https://engineering.purdue.edu/EEE/InfoFor/CurrentStudents/ResearchProposalForm/Undergraduate
   b. For pay: You must negotiate this with the professor depending on the availability of grant money; arranged through their business office. Paid research positions are most commonly found through SURF or OUR (see links below). Competitive scholarships and financial awards for undergraduate research are also available via EURO and OUR (links below).

Other Resources:

- Engineering Undergraduate Research Office (EURO) – https://engineering.purdue.edu/Engr/Research/EURO
- Summer Undergraduate Research Fellowship (SURF) - https://engineering.purdue.edu/Engr/Research/EURO/students/about-SURF
- Office of Undergraduate Research (OUR) - https://www.purdue.edu/undergrad-research/
- Discovery Park’s Undergraduate Research Internship (DURI) – https://www.purdue.edu/discoverypark/duri/
- Vertically Integrated Projects (VIP) – https://engineering.purdue.edu/VIP
SURF APPLICATIONS OPEN
FROM JANUARY 10TH TO FEBRUARY 15TH
01/10 - 02/15
SCHOLARSHIP
DEADLINE TO APPLY:
FEB. 4, 2022

SCAN THE QR CODE TO RECEIVE MORE INFORMATION ABOUT THE ACEC INDIANA SCHOLARSHIP.

ACECINDIANA.ORG
2022 Scholarship Program

• ACEC Indiana offers collegiate scholarships for full-time Indiana residents pursuing an engineering degree at an Indiana engineering school.

• By instilling the importance of education and community outreach in Indiana's students, ACEC Indiana is creating generations of active adults, thoughtful leaders, and responsible citizens. You can learn more about ACEC Indiana at http://acecindiana.org.

• Scan the following QR Code to receive more information about the 2022 Scholarship Program. 2022 Scholarship Application is coming soon. ACEC Indiana staff will reach out to you once you complete the form to receive the updated 2022 application.

• For more information regarding the scholarship opportunity, please visit http://www.acecindiana.org/?page=Scholarship. Deadline for submission is Friday, Feb. 4, 2022.

• Please feel free to contact Shelby Dunn at ACEC Indiana at (317) 637-3563 regarding any scholarship questions

• Last year, ACEC Indiana awarded $12,500 to collegiate engineering students in Indiana. ACEC Indiana has set a precedent to give no less than $1,500 to each winning student and no less than $5,000 for the top applicant.

• Scholarships checks are written directly to the student for his/her personal use in school expenses.

Scholarship Guidelines and Eligibility

Students must be entering their junior, senior, fifth, or master’s degree year, in the fall of 2021 to qualify for the general scholarships. In addition, a student must be a full-time Indiana resident pursuing a Bachelor’s or Master’s degree in civil, environmental, mechanical/electrical or structural engineering or in an accredited land-surveying program at an ABET accredited school in Indiana to qualify.

What is required?

☐ Completed official 2022 ACEC Application Form – Use current application form provided by ACEC Indiana.

☐ ABET Accredited Engineering Program under Engineering Accreditation Commission (EAC)

☐ Properly Signed by Applicant

☐ Properly Signed by Dean or Professor

☐ Essay

☐ Official Transcript – Including 2021 Fall Semester Grades
Shovel will help you manage your time and tasks in a unique new way.

**BENEFITS OF USING SHOVEL**
- All your tasks from all your classes in one place.
- Plan what task you’ll work on, when, and for how long.
- Know you’ll have enough time to get everything done on time.

**HOW TO START WITH SHOVEL IN FIVE SIMPLE STEPS**

1. Create a schedule to identify free study time
2. Add tasks to know what you’ll have to do
3. Estimate tasks to know how long they’ll take
4. Let Shovel calculate if you’ll have time to get everything done on time (Cushion)
5. Drag and drop tasks into specific study times on the calendar (Timeboxing)

Every Purdue student can sign up for FREE @ Shovelapp.io/Purdue

**Sign up by February 1st for a chance to win AirPods Pro**

Free for all Purdue Students

Purdue Students connect to:

Shovelapp.io/Purdue