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Protect Purdue Resources at https://protect.purdue.edu/

Drop Deadlines

Purdue is returning to traditional drop deadlines for courses. I.e. no Covid extensions. The withdrawal deadline for 16 week courses for the Fall 2021 semester is October 26th.

To drop a single class and keep others - students use Scheduling Assistant. Scheduling Assistant - How to ADD a course

See the full Fall 2021 Drop and Add calendar at https://www.purdue.edu/registrar/calendars/FallDropAdd.html

EEE Travel Assistance Request Opportunity*

Looking for a funding opportunity to assist with costs associated with your Study Abroad, Global Experience, Service-Learning Project, Conference, etc.? Students seeking monetary assistance for travel costs associated with studying abroad, presenting research or other educational activities should use the attached form to validate their need for such support. Applicants should have an initial discussion concerning the intended program with Tammi Thayer.

Applications are due 1pm on October 15 to Dr. Nina Robinson, EEE Administrative Director, at nlrobins@purdue.edu. Application form is attached.

Job Corner with Ms. Whelton, PE

I hope everyone has a restful fall break! Hopefully you have been making appointments and preparing for the CE Career Fair. Please keep watching my emails for any up to date information I find. In person info sessions will be held on Oct 13th. Please refer to here for more information. In addition to a schedule, there are links to each of the companies. There are several great companies you make want to connect with. The in person fair is on Oct 14th and virtual on Oct 15th.

This is the last large career fair for the semester so if you haven’t already, look and see if there are appointments for companies you are interested in. Keep checking the CCO for companies visiting campus. They regularly add informational sessions and company visits to their calendar of events. Look here to see if there are companies you’d like to connect with. Always try to meet a company if they come to campus to get “face” time with them. It makes you more memorable and also they document how many connections they have with a student to determine their interest in the company. Pepsi, Tesla, and UBS are coming currently in October.

MyPurduePlan: Update Your ‘Plans’ tab

It is imperative that you understand the requirements to obtain your BSEE degree!!! Curriculum resources for the EEE can be found on the ‘Current Students’ page. Go to www.purdue.edu/EEE > Current Undergraduate Students > Academic Resources

- Plans of Study - follow the appropriate path per entry date to Purdue to view 4 year plan of study and other policies.
• EEE Registration Tools - contains links to many registration tools and resources from across campus to assist you during registration and add/drop season.

myPurduePlan is another resource to assist you in meeting the goal to understand remaining requirements.
Finding myPurduePlan - Login to myPurdue > Destination: Graduation > myPurduePlan
• Worksheets tab - Review your Worksheet tab in myPurduePlan. Make note of anything that seems inaccurate to discuss with Tammi or Patrick. Unsure of how to read the Worksheets tab? Go to https://mediaspace.itap.purdue.edu/media/myPurduePlan+Worksheet/1_gytswycz
• Plans tab - Upon entry to EEE all students receive a personalized plan of study. It is your responsibility to keep it up to date. Each term it is your responsibility to update your plan per changes in registrations, future plans, repeat of courses, etc. Failure to do so will result in cancelled registration appointments. Need help? Go to https://mediaspace.itap.purdue.edu/media/myPurduePlan+Plans+Tab/1_0mzzf67i
• Find all tutorials on MPP features at https://www.purdue.edu/registrar/currentStudents/myPurdue/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-%20What%20is%20a%20PE%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.

First-Time Researcher Fellowship*
Purdue’s Engineering Undergraduate Research office (EURO) has created new programs for undergraduate students with no prior college-level research experience. The projects range from sustainable water technology to nanoparticles on solar cells. The selected students will receive a competitive fellowship (up to $1000) to begin research in the Spring Semester. The position will be approximately 10 hours per week (3 credit hours). Refer to attached flyer for more information on this research opportunity and the associated research projects. Submit your resume and cover letter via https://engineering-purdue-csm.symplicity.com/ by October 14th, 2021.

Spark Innovation Competition 2021*
Join the Spark Innovation Purdue Team by developing solutions to real-world industry challenges.
This year’s focus will be on water treatment processes and creating a cost-conscious alternative that tackles the residual waste or ‘sludge’ that is created from these processes. For more information on the challenge and the competition: https://americas.ramboll.com/spark.

Spark Virtual 2021 Innovation competition will occur virtually from October 22 - November 18.
Contact Dr. Linda Lee lslee@purdue.edu or Dr. Larry Nies nies@purdue.edu ASAP if interested in joining the team.

Systems Certificate*
The Certificate and the SYS courses are available to ALL Purdue Students in any major. Solving today’s complex socio-technical problems requires a holistic perspective and convergence of knowledge.
Systems Thinking skills can benefit everyone, no matter the college or discipline. Systems thinking skills are widely applied all over the globe by companies, governments, and communities. The certificate requires three SYS courses (9 credit hours) as well as 3 courses from the College of Engineering.

For more information on the certificate: https://www.purdue.edu/collaboratory

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**Purdue Scholarship Opportunities**

**The Class of 1937 Scholarship** recognizes students who have demonstrated outstanding leadership abilities and potential while attending Purdue University. The scholarship will be awarded for the 2022 - 2023 academic year, with one-half of the award distributed for Fall Semester 2022 and one-half distributed for Spring Semester 2023. It is anticipated that multiple scholarships will be awarded, depending on available funds. The selection process is highly competitive. The submission deadline for the application is **January 12, 2022 by 5:00 pm**.

**The Charles O. McGaughey Leadership Award** recognizes students who have completed at least two years of full-time study on Purdue’s West Lafayette campus, have demonstrated exceptional leadership and an appreciation of the values of liberty, democracy, and respect for others. The award will be given for the Spring Semester 2022. It is anticipated that multiple awards will be given, depending on available funds. The selection process is highly competitive. The submission deadline for the application is **January 14, 2022 by 5:00 pm**.

Information and application: https://www.purdue.edu/vpsl/leadership/

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**Global Engineering Information Sessions**

The department of global engineering is currently planning two virtual information sessions for students wanting more information on Short-term Engineering programs (STEPS) on **October 18th and 19th**. Students should consult with their academic advisor to determine if a course may count toward degree requirements.

Zoom information: https://engineering.purdue.edu/GEP/Study-Abroad/Short-Term

The following programs will be discussed:

- **Spring break**
  - Intro to Silicon Valley and the Tech Industry
- **Maymester 2022**
  - ME 35400 Machine Design I in Prague
  - Industrial Microbial Biotechnology in Germany
  - ME 27000 Basic Mechanics I in Rome
  - ME 20000 Thermodynamics I in Stockholm
  - Regulatory and Clinical Science for Global Health in Japan
  - Practical Utility Platform- Kenya
  - Biomedical Modeling for Global Health in Scandinavia
  - Automation and Connectivity for Sustainable Development of Resilient Infrastructure in Singapore
  - Bioinspired Materials and Structures- Singapore
  - Evolution of European Transportation Systems and Supply Chains -Germany and UK
  - EPICS in Puerto Rico-Natural Disaster Preparedness
  - Lakota Culture, Design, and Service Experience in South Dakota-EPICS

COMING SOON! Artificial Intelligence in Engineering-Jordan

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**PLaCE Short Courses**

Registration has opened for Session 2 of the PLaCE Short Courses and begin October 18 or 19. https://purdue-place.gosignmeup.com/Public/Course/Browse These classes provide flexible, focused options for students to meet their English language needs and to fit their schedules. They:

- last for 6 weeks (classes meet twice a week, with an optional individual conference with the instructor), workshops are one day stand-alone classes
- are non-credit-bearing (classes are not graded and do not appear on transcripts; however, students can earn a Certificate of Completion),
- require no additional fees (costs are covered by international student fees)
- are taught by PLaCE’s language instructors
- get students actively involved in language learning (classes are small and focus on having students participate)
American Structurepoint Scholarship Opportunity

American Structurepoint is a multi-state, multi-discipline engineering firm looking for EEE and CE students enrolled at Purdue’s College of Engineering.

- The current scholarship opportunity is for students in either SWE or NSBE organizations and is a total of $2,000. To qualify for the scholarship, you must have a minimum 2.5 GPA.
- In addition to this scholarship, there are also opportunities to discuss potential internship opportunities within the company.
- If interested email your resume and letter of interest to Sr. Talent Acquisition Specialist, Megan Perratore at: mperratore@structurepoint.com. Submit your interest by Friday, October 29th, 2021.
Environmental and Ecological Engineering
Travel Assistance Request Form: Study Abroad, Global Experience, Service-Learning Project, Conference, etc.

Students seeking monetary assistance with tuition, fees, travel or related expenses associated with studying abroad, doing/presenting research or other educational activities including travel should use this form to validate their need for such support. Applicants should have an initial discussion concerning the intended program with the EEE Associate Director of Advising. Applications are due to the EEE Administrative Director by relevant deadline.

Application Deadlines: October 15 for support of winter or spring term experiences
                        March 15 for support of summer or fall term experiences

Basic information:
Name, PUID _____________________________________________________________________________
Semester/Dates of travel __________________________________________________________________
Location/Program/Conference Name __________________________________________________________
Number of credits to complete (if applicable) ________________________________________________
Specific course equivalencies (list) __________________________________________________________
Name all faculty sponsors (if applicable) _____________________________________________________

Personal Statement: On a separate sheet in 500 words or less, describe the planned experience and how it will help you to grow as an individual and future professional, as well as any benefits to clients or community groups. Include relevant details on how funding could eliminate financial obstacles to your participation.
If the experience is not a course-based program (study abroad), answer each of the following in your statement and have the lead/supporting faculty member or instructor indicate approval with a signature.
1. Describe the project or area to be studied. What are the main questions of study?
2. Describe your learning objectives and goals? What do you hope to accomplish through the experience?
3. Describe how you will show you have met your learning objectives — what products, reports, or other deliverables will you produce to show that you have met the objectives?
4. Describe how your project relates to EEE, to material covered in other EEE courses, and/or to your professional goals.
5. If credit for a course will be given, state how you intend to use this credit toward EEE degree requirements.

Estimated Budget:

<table>
<thead>
<tr>
<th>Item</th>
<th>Amount</th>
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<tbody>
<tr>
<td>Travel</td>
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<tr>
<td>Food &amp; Incidentals</td>
<td>$______</td>
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<tr>
<td>Housing</td>
<td>$______</td>
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<tr>
<td>Insurance</td>
<td>$______</td>
</tr>
<tr>
<td>Tuition/Fees</td>
<td>$______</td>
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Funding Already Received:

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<td>Insurance</td>
<td>$______</td>
</tr>
<tr>
<td>Tuition/Fees</td>
<td>$______</td>
</tr>
</tbody>
</table>

List other funding sources being pursued: _________________________________________________

Have you received previous funding from EEE:
☐ No
☐ Yes For what? Amount? _________________________________________________________

If EEE agrees to provide support, you will be required to provide a “deliverable” to EEE. Indicate below how you wish to meet this requirement.

☐ Presentation to EEE 29000 Intro to EEE Seminar
☐ Poster for display
☐ Presentation to EEE affiliated student organization
☐ Report
☐ EEE volunteer hours upon return to campus (~10hrs)
☐ Other __________
☐ Write student spotlight to be featured on EEE webpage

For Office Use only
Approved for $ ________
Denied

Rev. 6/2016
ELIGIBILITY:
Purdue engineering undergraduate students with no prior college–level research experience

<table>
<thead>
<tr>
<th>Project Title</th>
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<th>Point of Contact</th>
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<tbody>
<tr>
<td>Efficient and sustainable water technology</td>
<td>FTR-1 - 3011</td>
<td>Akshay Rao <a href="mailto:rao53@purdue.edu">rao53@purdue.edu</a></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Andrew Fix <a href="mailto:fixa@purdue.edu">fixa@purdue.edu</a></td>
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<tr>
<td></td>
<td></td>
<td>Prof. David Wasinger</td>
</tr>
<tr>
<td>Modeling Random Magnets for Probabilistic Computing</td>
<td>FTR-2 - 3012</td>
<td>Prof. Peter Bermel <a href="mailto:pbermel@purdue.edu">pbermel@purdue.edu</a></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Jie Zhu <a href="mailto:zhu797@purdue.edu">zhu797@purdue.edu</a></td>
</tr>
<tr>
<td>Modeling High Efficiency Thermophotovoltaic Systems</td>
<td>FTR-3 - 3013</td>
<td>Prof. Peter Bermel <a href="mailto:pbermel@purdue.edu">pbermel@purdue.edu</a></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Jie Zhu <a href="mailto:zhu797@purdue.edu">zhu797@purdue.edu</a></td>
</tr>
<tr>
<td>Biofilm Formation on Drinking Water Pipes</td>
<td>FTR-4 - 3014</td>
<td>Prof. Caitlin Prorct <a href="mailto:proctoc@purdue.edu">proctoc@purdue.edu</a></td>
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<tr>
<td>Experimental Study of Pressure Depressurization of a HTGR Containment Building</td>
<td>FTR-5 - 3015</td>
<td>Prof. Shripad Revankar <a href="mailto:shripad@purdue.edu">shripad@purdue.edu</a></td>
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<tr>
<td>Synthesis of Cu2BaSn(S,Se)4 nanoparticles for low cost manufacturing of solar cells</td>
<td>FTR-6 - 3016</td>
<td>Jonathan Turnley <a href="mailto:jturnley@purdue.edu">jturnley@purdue.edu</a></td>
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<tr>
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<td></td>
<td>Prof. Rakesh Agrawal <a href="mailto:agrawalr@purdue.edu">agrawalr@purdue.edu</a></td>
</tr>
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<td>Microwave electronics for superconducting quantum circuits</td>
<td>FTR-7 - 3017</td>
<td>Prof. Alex Ruichao Ma <a href="mailto:maruichao@purdue.edu">maruichao@purdue.edu</a></td>
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<tr>
<td>Real-Time Computer Vision to Control Aerial Robots</td>
<td>FTR-8 - 3018</td>
<td>Caleb Tung <a href="mailto:tung3@purdue.edu">tung3@purdue.edu</a></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Xiao Hu <a href="mailto:hu440@purdue.edu">hu440@purdue.edu</a></td>
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<tr>
<td></td>
<td></td>
<td>Prof. Yung-Hsiang Lu</td>
</tr>
<tr>
<td>System on Chip design, verification and test</td>
<td>FTR-9 - 3019</td>
<td>Dr. Mark Johnson <a href="mailto:mjohnso@purdue.edu">mjohnso@purdue.edu</a></td>
</tr>
<tr>
<td></td>
<td></td>
<td>John Martinuk <a href="mailto:jmartinu@purdue.edu">jmartinu@purdue.edu</a></td>
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<tr>
<td>Radiation-hardened technologies</td>
<td>FTR-10 - 3020</td>
<td>Prof. Allen Garner <a href="mailto:algarner@purdue.edu">algarner@purdue.edu</a></td>
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<tr>
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<td>Prof. Peter Bermel <a href="mailto:pbermel@purdue.edu">pbermel@purdue.edu</a></td>
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<tr>
<td>Heterogeneous Integration/Advanced packaging</td>
<td>FTR-11 - 3021</td>
<td>Prof. Ale Strachan <a href="mailto:strachan@purdue.edu">strachan@purdue.edu</a></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Prof. Ganesh Subbarayan <a href="mailto:gss@purdue.edu">gss@purdue.edu</a></td>
</tr>
</tbody>
</table>
Join the Purdue Team!

Spark Innovation is a think-tank style competition created to develop solutions to real industry challenges focused on high-level, global impact.

Select students compete to solve real-world challenges alongside industry representatives, connecting them to our leading partners, clients and communities.

Spark Virtual 2021
October 22 - November 18

The challenge
A nonprofit organization focused on providing clean drinking water to resource-limited communities, is dealing with high-cost management of the residual waste or “sludge,” a byproduct of the water treatment process. Their challenge is finding a cost-conscious alternative to the current management process, taking into consideration sustainable practices around energy and the environment. [https://americas.ramboll.com/spark](https://americas.ramboll.com/spark)

Why participate?
- Help a socially responsible organization address a technical challenge they are facing
- Network with and receive mentorship from professionals working in scientific consultancy
- Apply technical and academic learning to real-world problem statements
- Build camaraderie with peers and proudly represent your university
- Participation gifts and prizes ($3,000; $2,000 and $1,000).

We are seeking six highly motivated Purdue students!

Contact:
Dr. Linda Lee
lslee@purdue.edu

Dr. Larry Nies
nies@purdue.edu
Systems thinking skills are widely applied all over the globe by companies, governments, and communities. Solving today’s complex socio-technical problems requires a holistic perspective and convergence of knowledge. That’s why thousands of jobs (on LinkedIn alone), ask for “Systems Thinking” skills. Get ahead by earning the Systems Certificate!

How it works:

Complete three SYS courses (9 credit hours)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>satisfies UCC, STS</th>
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</thead>
<tbody>
<tr>
<td>SYS 300</td>
<td>It’s a Complex World, Addressing Global Challenges</td>
<td></td>
</tr>
<tr>
<td>SYS 350</td>
<td>Systems Methods</td>
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<tr>
<td>SYS 400</td>
<td>Systems Praxis</td>
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</tr>
</tbody>
</table>

Select 2 courses (6 credit hours) from a list of 100, from different colleges (Many are UCC)

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<thead>
<tr>
<th>College Name</th>
<th>Number of Courses</th>
</tr>
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<tbody>
<tr>
<td>College of Agriculture</td>
<td>17 courses</td>
</tr>
<tr>
<td>College of Engineering</td>
<td>27 courses</td>
</tr>
<tr>
<td>College of Education</td>
<td>3 courses</td>
</tr>
<tr>
<td>College of Health and Human Sciences</td>
<td>5 courses</td>
</tr>
<tr>
<td>College of Liberal Arts</td>
<td>27 courses</td>
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<tr>
<td>Krannert School of Management</td>
<td>5 courses</td>
</tr>
<tr>
<td>Polytechnic Institute</td>
<td>12 courses</td>
</tr>
<tr>
<td>College of Science</td>
<td>9 courses</td>
</tr>
</tbody>
</table>

Upon completion of certificate and Purdue degree requirements, students will receive an official certificate, which is also recorded on their academic transcript. If you have previously completed any of the courses, it will be counted towards completion of the program.

How to enroll:

Ask your academic advisor in your home department to add the program (SYST – Systems) to your Curricula.

More information on the certificate can be found on Purdue Catalog under the Office of the Provost.

https://www.purdue.edu/collaboratory/