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### New EEE Computer Lab - Now POTR 360

- The EEE computer lab room has moved to a larger room, **POTR 360**.
- Key pad entry instructions:
  - Pull handle down once or twice to clear
  - Enter Code 361234
  - Pull handle down and open door

### EEE Registration Season

- Registration season for Spring 2018 is here! **Spring 2018 Schedule of Classes & Time Tickets are live in myPurdue.**
- Students who will be **registering for Spring 2018** should have received an info email from Tammi Thayer about EEE mentoring and advising steps. December 2017 graduation candidates were NOT included.
- You may access the newsletter for ‘EEE Registration - Spring 2018’ by taking this path - **EEE > Current Students ➝ Useful Resources ➝ EEE Student Newsletter**

### New Course: CE 49700 Water Treatment*

- CE 49700 Water Treatment has been added to Category B: Engineering Design list of EEE Selectives.
- It will be taught by Prof. Amisha Shah in spring 2018. See attached flyer for more info.

### Course: EEE 36000 Industrial Sustainability Lab*

- Prof. Fu Zhao will offer his lab version of EEE 360 that focuses on industrial sustainability issues this spring.
- Students who have taken the fall “wet lab” can use these course credits toward EEE Selectives if desired. See attached flyer for more info.

### Course: EEE 49500M Urban Water Projects*

- This course will be taught by Dr. Lindsey Payne in spring term. Through real-world projects, students collaborate with local community partners to identify storm water management problems and co-design solutions. Students gain professional engineering and sustainability competencies—design, communication, teamwork, grant-writing, budget management, and leadership—as they oversee a project from inception to implementation.
- Instructor permission required. If interested, contact Dr. Payne at paynel@purdue.edu.

### EEE SAC Facebook page

- The EEE Student Advisory Council now has a Facebook page.
- Please click the link below if you want updates on events that are happening in EEE on social media: [https://www.facebook.com/groups/1851319708455289/](https://www.facebook.com/groups/1851319708455289/)
Job Corner with Ms. Whelton, PE*

National Lab Days at Purdue (see attached flyer) includes a career fair on November 8th in STEW 218A, B, & C for those interested in working (full time and internship) for national laboratories and federally funded research and development centers across the United States. Professional development workshops and employer information sessions will be held on November 7th (http://www.purdue.edu/gradschool/nlap/lab-opportunities/agenda.html). Go here to register and learn about who will be attending; http://www.purdue.edu/gradschool/nlap/  If you are interested (or might be) in an internship with the US Department of Energy (DOE). They have a virtual career fair on November 28th from noon to 4pm (https://orau.6connex.com/event/LIVE/login). There are a variety of labs under DOE that have internships including the Office of Science and Office of Energy Efficiency and Renewable Energy. This is a great way to quickly find out in the comfort of your home about current opportunities and to explore the labs missions.

It is the time of year to start applying for graduate school so there are multiple events coming up. Upcoming Career Fairs for Graduate School are:

*San Francisco Bay Area Graduate School Virtual Fair on November 6th
https://www.careereco.com/Fair/EventDetails?fairId=478e62d9-1dcd-4836-b430-a80600fb9a61
*Midwest Graduate & Professional School Summit, Nov 11th at STEW 304-306 and RAWL 2F/3F. This event will feature more than 60 nationally recognized graduate and professional programs. Purdue students have two options for registering: Participate in all Midwest Summit activities, and pay the regular registration fee of $35; Or, attend only the Graduate School Fair for FREE. A Purdue ID is required for this option. For more information, visit the special Purdue student registration site. All students, including women and members of underrepresented groups, are encouraged to attend. Everyone in attendance can apply to the Purdue Graduate School for FREE! http://www.purdue.edu/gradschool/midwestgradsummit/

They call for preregistration, but you can attend without registering ahead of time.

If you have offers or questions about job opportunities, don’t hesitate to email me!

Floods, Tornadoes, and Disaster Resilience Symposium

- The Purdue Policy Research Institute hosts “Floods, Tornadoes, and Disaster Resilience” symposium - a look at the social and policy aspects of disaster resilience
- Details below. If interested please RSVP here
New Summer Engineering Undergraduate Internship Program

- A new summer program for College of Engineering students offers a paid internship for undergraduates to work as a part of an entrepreneurial student team
- Register: [https://engineering.purdue.edu/Xcelerator](https://engineering.purdue.edu/Xcelerator)

FREE AWWA Student Memberships

- The American Water Works Association (AWWA) is offering free memberships to students through December 31, 2017
- AWWA can help you find a job, network with water industry professionals, pay for classes, present research, and get access to resources
- [Join the AWWA family!](#) Use promo code GIFT at checkout
- If you have any questions, please contact Cari Maciolek at cmaciolek@awwa.org

New Course: ENGR 39600 Thriving for Engineering Leadership, Diversity and Inclusion*

- ENGR 39600 provides students with an opportunity to improve well-being, increase leadership potential, and promote inclusion and diversity in engineering.
- The course is 1 credit and runs for the first half of the Spring 2018 semester
- Any additional questions should be directed towards the instructor Julianna Ge at ge45@purdue.edu
- See attached flyer for more info

Course: ENGR 29600 Cross Cultural Leadership Skills for Engineers*

- ENGR 29600 Cross Cultural Leadership Skills for Engineers is a 2 credit course open to all engineering students
- Through this course students will be able to better understand the importance of communication between different cultures in engineering settings
- If interested, watch this brief video that talks about the importance of cross-cultural learning in team environments: [https://youtu.be/J6zAywoYVCU](https://youtu.be/J6zAywoYVCU)
- See attached flyer for more info

Course: HIST 31405 STEM & Gender*

- HIST 31405 examines technological, scientific, and engineering innovation through the lens of gender reveals changing relationships between men and women in modern America.
- This course satisfies the university core requirements for Humanities, and Science, Technology and Society.
- See attached flyer for more info

New Course: YDAE 49100 Cultivating Cultural Competence in Agriculture*

- YDAE 49100, CRN 20983-034 “Cultivating Cultural Competence in the Field of Agriculture” is a newly designed course to connect students with their future fields of employment through the lens of cultural and emotional competencies in communities and the workplace.
- The course is experiential and community centered offering students real world engagement a variety of ag related fields. [low lecture, high activity based].
- Learn more at [https://ag.purdue.edu/omp/Pages/Courses-Offered.aspx](https://ag.purdue.edu/omp/Pages/Courses-Offered.aspx)
- See attached flyer for more info

New Course: ENTR 31500 Business Planning for Social Entrepreneurship*

- ENTR 31500 builds on concepts learned in ENTR 20000, students work in multidisciplinary teams to develop viable business models for a socially focused venture.
- Teams collect and analyze primary and secondary research to examine mutual value creation, organizational sustainability, feasibility and measureable social impact.
- Teams create financial statements that align with a social enterprise business model and explore the legal, regulatory, and ethical issues faced by social entrepreneurs.
- ENTR 20000 is a prerequisite
- See attached flyer for more info
CE 497: Water Treatment  
Spring 2018  
MWF 9:30-10:20 AM, HAMP 2113  
Prerequisites include CE/EEE 350.

Prof. Amisha Shah  
HAMP 3145A  
E-mail: adshah@purdue.edu; Ph. 6-2470

How do we provide clean drinking water to 7.57 billion people and counting ???

We will evaluate the principles, challenges and innovative design approaches towards solving this problem.

Core topics will include:

- **Principles** and **design** of a multi-barrier treatment approach
- Coagulation/flocculation, sedimentation, filtration and chemical disinfection
- Role of Activated Carbon (GAC and PAC)
- Ozone and UV Disinfection
- Advanced Oxidation
- Membrane Filtration for Water Reuse and Desalination (MF, NF and RO)
EEE360: Industrial Sustainability Lab

Gain hands-on experience with industrial sustainability!

Three modules (each module is 1 credit; it is recommended that you take all as a package but not required).

Module 1 (Week 1-5) Design of Experiments with applications related to EEE: air quality, wind energy, etc.

Module 2 (Week 6-10) Circuit, Power and Energy: current, voltage, power, power factor, process heating, energy efficiency, & compressed air

Module 3 (Week 11-15) Product End of Life Management: disassembly, metal/plastic separation, techno-economic analysis, & field trip

Topics include:

- Design of Experiments
- Air Quality
- Product Disassembly
- Heat Transfer and Loss
- Polymer Identification
- Separation of Materials
- Life Cycle Analysis
- Power Measurement
- DC/AC circuits
- Compressed Air and Leaks
- Wind turbine
- Energy Loss & Insulation

Want more information? Contact Professor Zhao
Office: ME2194 | Email: fzhao@purdue.edu
EEE 495 Urban Water Projects
Building Sustainable Communities

Through real-world projects, students collaborate with local community partners to identify stormwater management problems and co-design solutions. Students gain professional engineering and sustainability competencies—design, communication, teamwork, grant-writing, budget management, and leadership—as they oversee a project from inception to implementation. To date students have installed:

• 38 urban water projects (e.g., rain gardens, rain barrels, and native savannas), 19,000 plants, and 19 trees at 9 community partner sites.

• Diverted over 2,000,000 gallons of water, 60 pounds of nitrogen, 12 pounds of phosphorus, and over 1,600 pounds of sediment from the Wabash River annually.

The course will be offered M/W 4:30 – 5:45 PM. Instructor approval is required & space is limited, contact, Dr. Lindsey Payne, paynel@purdue.edu.
NATIONAL LABS @
Purdue Days

Professional Development
Employer Info Sessions
Career Fair
Tech Talks

2017
November 7-8

Participating Labs:

Lawrence Livermore National Laboratory
Sandia National Laboratories
NIST National Institute of Standards and Technology
Argonne National Laboratory

Open to undergraduate students, graduate students, and postdoctoral fellows interested in careers at national laboratories! Registration is open online!

purdue.edu/gradschool/nlap
NEW COURSE FOR UNDERGRADUATE ENGINEERS!

Thriving for Engineering Leadership, Diversity and Inclusion

ENGR 396, CRN: 21857
Spring 2018, 1 credit
First Half-Semester Class

Instructor: Julianna Ge
ge45@purdue.edu
ENGR 29600
CROSS CULTURAL LEADERSHIP SKILLS FOR ENGINEERS

OPEN TO ALL ENGINEERING STUDENTS
CREDIT HOURS: 2
OFFERED: FALL & SPRING

AT THE END OF THIS COURSE YOU WILL:

☑ DEVELOP AN ENHANCED UNDERSTANDING OF HOW COLLEAGUES FROM DIFFERENT CULTURES MAY APPROACH OR DEFINE PROBLEMS.

☑ GAIN KNOWLEDGE ABOUT SOME OF THE KEY DIMENSIONS OF CULTURAL DIFFERENCE THAT ARE MOST PROMINENT IN MULTI/CROSS NATIONAL TEAM SETTINGS.

☑ KNOW HOW TO APPLY BASIC PARTICIPANT OBSERVATION STRATEGIES TO WORK MORE EFFECTIVELY WITH COLLEAGUES WHO DEFINE AND SOLVE PROBLEMS DIFFERENTLY.

“The training session has allowed me to develop the skill of noticing and recognizing various cultural conflicts that happen in our everyday lives.”

Tekeyuki Miyauchi
Sophomore, Aerospace Engineering

“Through our trainings and group events, I am getting the unique opportunity to reflect on how I see cultural differences and how I identify with my own. Everything we discuss in trainings is applicable and thought-provoking, allowing me to truly practice what I am learning. I am very grateful for this program and the people involved with it because I know that I am changing because of it.”

Anna Tatara
Graduate Student, Industrial Engineering

“Being a part of CCLP has helped me understand how people from different cultures think and behave and what's the reason behind them behaving like that. I feel this type of training is a very important part of being an all-rounded engineer.”

Mayank Makkar
Senior, Industrial Engineering
HIST 31405: STEM & Gender

Scientific and technological innovation has been a cornerstone of American identity. How science and technology matter to gender, and gender matters to science and technology, will be explored through studying amateur and professional scientists and engineers, industrialization, education, sexual division of labor, and home and work spaces in twentieth century America. Examining technological, scientific, and engineering innovation through the lens of gender reveals changing relationships between men and women in modern America.

Satisfies University Core Requirements: Humanities + Science, Technology & Society

Spring 2018 T/Th 9:00-10:15 WALC 2127

Professor Sharra Vostral, svostral@purdue.edu
Cultivating Cultural Competence in the Field of AgriCULTURE

Why take this course?

**Today’s** employers are seeking culturally competent and emotionally intelligent employees who are capable of working in diverse environments.

**Learn** to recognize your own and other’s perspectives and effectively adapt behaviors to meet the needs of a diverse society.

**Gain** real world skills that will set you apart from other candidates in the job market. Increase your cultural and emotional intelligence!

YDAE 49100 : CRNs: 20983-034

**3 credits**

Lecture: Tuesdays: 9:30 – 10:20am
Lab: Fridays: 2 – 3:50PM

Instructors:
Dr. Lisa Lambert Snodgrass
Shalyse Iseminger

Hybrid Learning Strategies  Experiential Learning Environment  Real World Applications
COURSE DESCRIPTION: Building on concepts learned in ENTR 20000, students work in multidisciplinary teams to develop viable business models for socially focused ventures. Teams collect and analyze primary and secondary research to examine mutual value creation, organizational sustainability, feasibility and measureable social impact. Teams create financial statements that align with a social enterprise business model. Students explore the legal, regulatory, and ethical issues faced by social entrepreneurs.

COURSE DETAILS:
- Prerequisite: ENTR 20000
- Also fulfills second core requirement for the Certificate in Entrepreneurship and Innovation, as does ENTR 31000
- 3 credits
- Tuesdays and Thursdays 1:30 – 2:45 PM, WALC 3090
- Offered Spring and Fall semesters

FOR MORE INFORMATION:
- Scheduling and program questions – contact Rita Baker, bakerr@purdue.edu
- Course questions – contact Dora Lutz, lutz20@purdue.edu
- Or visit www.purdue.edu/entr

DORA LUTZ is one of a handful of certified Shared Value Consultants in North America and a lecturer for Purdue University’s Certificate in Entrepreneurship and Innovation.

Founder and President, Givingsprings
Founder and President, 3 Hawks Consulting
Lutz leads the Global Council of Regional Leads for IMPACT 2030, a UN Initiative designed to leverage corporate employee volunteerism towards the achievement of the Sustainable Development Goals.

Lutz has created models including the 5 Phases of Community Engagement and the BEGIN process for creating Corporate Social Responsibility programs.

lutz20@purdue.edu