

# EEE 390

## EEE Professional Preparation/Practice Seminar

### Spring 2018

#### Basics

##### Instructor Information

John W. Sutherland, Ph.D., Professor and Fehsenfeld Family Head of EEE

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##### Graduate Assistant

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##### Course Meeting Time

Semester: Spring 2018

Time: Tuesday 1:30-2:20 pm

Location: ME 1009

##### Course Description

Seminar lectures and discussions to introduce students to aspects of professional practice within Environmental and Ecological Engineering. Topics include career planning and placement skills, professional responsibility and ethics, and effective functioning in the profession. Students will interact with several practicing Environmental and Ecological Engineers.

##### Course Purpose

This one-credit seminar course is a core course in the Environmental and Ecological Engineering undergraduate curriculum. It is expected that students enrolled in the course will have introductory knowledge of the EEE field and its issues, and will most likely take this course in the spring semester of their third year. The course serves to help prepare students for their next professional steps. The primary focus of this course is professional preparation: exposure of students to professional opportunities, discussion of personal professional planning, and introduction to current issues of professional practice, including ethical, societal, and global responsibilities of members of the profession. By the end of the class, the student should understand many of the issues associated with successful performance as an EEE professional. The primary outcomes for the course are:

- an understanding of professional and ethical responsibility
- a recognition of the need for, and an ability to engage in life-long learning
- a knowledge of the roles and responsibilities of public institutions and private organizations pertaining to environmental and ecological engineering
- a knowledge of contemporary issues

## **Course Requirements**

Since this is a seminar course, class attendance is extremely important, and will represent a large portion of the course grade. Small assignments will be given throughout the semester. Slightly longer assignment will be given at the start and end of the term. For the most part, assignments will be due the week after they are assigned.

## **Academic Policies**

### **General Course Policies**

Have a question? Please send me an email – I will try to respond quickly. Since we will have external speakers for most of the class sessions, please arrive to class on time and do not leave early – this is purely a matter of being polite and showing respect for visitors. Turn off cell phones/computers during class, unless you are using them to take notes or complete class activities. Based on student feedback from previous years, we plan to allocate 15-20 minutes for questions after each speaker's presentation. So, come to class prepared and ready to ask questions.

### **Grade Determination**

Your grade will be based on the submitted assignments; however, those attending class will almost always do better on the assignments than those that do not attend.

### **Attendance**

Students are expected to be present for every meeting of the class. Given the nature of the specialized seminars and the fact that most classes will be given by external speakers, making up class sessions is not really an option. When there is a known forthcoming absence, such as for a University sponsored activity, the student should inform Dr. Sutherland of the situation as soon as possible. The student will undoubtedly be expected to attend some other professional seminar to make up the absence. The same applies for emergency absences.

The University's Grief Absence Policy for Students is shown below:

*Students are expected to be present for every meeting of the classes in which they are enrolled. Only the instructor can excuse a student from a course requirement or responsibility. When conflicts or absences can be anticipated, such as for many University sponsored activities and religious observations, the student should inform the instructor of the situation as far in advance as possible...For unanticipated or emergency absences when advance notification to an instructor is not possible, the student should contact the instructor as soon as possible by email, or by contacting the main office that offers the course. When the student is unable to make direct contact with the instructor and is unable to leave word with the instructor's department because of circumstances beyond the student's control, and in cases of bereavement, the student or the student's representative should contact the Office of the Dean of Students.*

The link to the complete policy and implications can be found at:

[http://www.purdue.edu/studentregulations/regulations\\_procedures/classes.html](http://www.purdue.edu/studentregulations/regulations_procedures/classes.html)

### **Missed or Late Work**

Unless otherwise stated, completed assignments will be due at the start of the next class meeting. Late assignments will result in point deductions. To make-up for missed assignments, please consult with Dr. Sutherland. It is likely that the student will be expected to prepare a summary of some other professional seminar to make up for the missing assignment.

### **Academic Dishonesty**

The Purdue Honors Pledge reads “As a boilermaker pursuing academic excellence, I pledge to be honest and true in all that I do. Accountable together—we are Purdue.”

The University policy on dishonesty is shown below:

*“Purdue prohibits "dishonesty in connection with any University activity. Cheating, plagiarism, or knowingly furnishing false information to the University are examples of dishonesty." [Part 5, Section III-B-2-a, Student Regulations] Furthermore, the University Senate has stipulated that "the commitment of acts of cheating, lying, and deceit in any of their diverse forms (such as the use of substitutes for taking examinations, the use of illegal cribs, plagiarism, and copying during examinations) is dishonest and must not be tolerated. Moreover, knowingly to aid and abet, directly or indirectly, other parties in committing dishonest acts is in itself dishonest." [University Senate Document 72-18, December 15, 1972]”*

You may also refer to Purdue's student guide for academic integrity:

<http://www.purdue.edu/odos/aboutodos/academicintegrity.php>

### **Use of Copyrighted Materials**

The University’s regulations related to copyrighted materials is provided below:

*Students are expected, within the context of the Regulations Governing Student Conduct and other applicable University policies, to act responsibly and ethically by applying the appropriate exception under the Copyright Act to the use of copyrighted works in their activities and studies. The University does not assume legal responsibility for violations of copyright law by students who are not employees of the University. A Copyrightable Work may include, but is not limited to: scholarly publications, journal articles, research bulletins, monographs, books, plays, poems, musical compositions and other works of artistic imagination, and works of students created in the course of their education, such as exams, projects, theses or dissertations, papers and articles.*

You may also refer to the University Regulations on policies:

<http://www.purdue.edu/policies/academic-research-affairs/ia3.html>

### **Other Issues**

#### **Violent Behavior Policy**

Purdue's policy prohibiting violent behavior is shown below:

*Purdue University is committed to providing a safe and secure campus environment for members of the university community. Purdue strives to create an educational environment for students and a work environment for employees that promote educational and career goals. Violent Behavior impedes such goals. Therefore, Violent Behavior is prohibited in or on any University Facility or while participating in any university activity.*

See the University's website for additional information:  
<http://www.purdue.edu/policies/facilities-safety/iva3.html>

### **Emergencies**

Purdue University is a very safe campus and there is a low probability that a serious incident will occur here at Purdue. However, just as we receive a "safety briefing" each time we get on an aircraft, we want to emphasize our emergency procedures for evacuation and shelter in place incidents. Our preparedness will be critical IF an unexpected event occurs!

Emergency preparedness is your personal responsibility. Purdue University is actively preparing for natural disasters or human-caused incidents with the ultimate goal of maintaining a safe and secure campus.

- For any emergency call 911.
- There are nearly 300 Emergency Telephone Systems throughout campus that connect directly to the Purdue Police Department (PUPD). If you feel threatened or need help, push the button and you will be connected to the PUPD.
- If we hear a fire alarm we will immediately evacuate the building and proceed to the EAA: Purdue Mall outside of MSEE. In the case of inclement weather: atrium of MSEE.
- Do not use the elevator.
- Exit via the stairs to the east or west in the case of an emergency as per the building evacuation map.
- If we are notified of a Shelter in Place requirement for a tornado warning we will shelter in the lowest level of this building away from windows and doors.
- If we are notified of a Shelter in Place requirement for a hazardous materials release we will shelter in our classroom shutting any open doors and windows.
- If we are notified of a Shelter in Place requirement for a civil disturbance such as a shooter we will shelter in a room that is securable, preferably without windows.

In the event of a major campus emergency, course requirements, deadlines, and grading percentages are subject to changes that may be necessitated by a revised semester calendar or other circumstances beyond Dr. Sutherland's control. Relevant changes to the course can then be obtained by contacting Dr. Sutherland by email or phone. You are expected to read your @purdue.edu email on a frequent basis.

See the University's website for additional information:  
[https://www.purdue.edu/ehps/emergency\\_preparedness/](https://www.purdue.edu/ehps/emergency_preparedness/)

### **Students with Disabilities**

*Purdue University is committed to maintaining an inclusive community that recognizes and values the inherent worth and dignity of every person; fosters tolerance, sensitivity, understanding and mutual respect among its members; and encourages each individual to strive to reach his or her own potential. In pursuit of its goal of academic excellence, Purdue University seeks to develop and nurture its diversity. The University believes that diversity among its many members strengthens the institution, stimulates creativity, promotes the exchange of ideas and enriches campus life. Purdue University views, evaluates and treats all persons in any university-related*

*activity or circumstance in which they may be involved solely as individuals on the basis of their own personal abilities, qualifications and other relevant characteristics.*

So, if you have a disability that requires special academic accommodation, please make an appointment to speak with me within the first two weeks of the semester in order to discuss any adjustments. It is important that we talk about this at the beginning of the semester. It is the student's responsibility to notify the Disability Resource Center (<http://www.purdue.edu/drc>) of an impairment/condition that may require accommodations and/or classroom modifications.

### **Nondiscrimination**

*Purdue University is committed to maintaining a community which recognizes and values the inherent worth and dignity of every person; fosters tolerance, sensitivity, understanding, and mutual respect among its members; and encourages each individual to strive to reach his or her own potential. In pursuit of its goal of academic excellence, the University seeks to develop and nurture diversity. The University believes that diversity among its many members strengthens the institution, stimulates creativity, promotes the exchange of ideas, and enriches campus life.*

*Purdue University prohibits discrimination against any member of the University community on the basis of race, religion, color, sex, age, national origin or ancestry, genetic information, marital status, parental status, sexual orientation, gender identity and expression, disability, or status as a veteran. The University will conduct its programs, services and activities consistent with applicable federal, state and local laws, regulations and orders and in conformance with the procedures and limitations as set forth in Executive Memorandum No. D-1, which provides specific contractual rights and remedies. Any student who believes they have been discriminated against may visit [www.purdue.edu/report-hate](http://www.purdue.edu/report-hate) to submit a complaint to the Office of Institutional Equity. Information may be reported anonymously.*

Link to Purdue's nondiscrimination statement:

[http://www.purdue.edu/purdue/ea\\_eou\\_statement.html](http://www.purdue.edu/purdue/ea_eou_statement.html)

## Class Schedule

Time: Tuesday 1:30-2:20pm ET

Location: ME1009

<b>Date</b>	<b>Speaker</b>	<b>Topic</b>
Jan. 9	John W. Sutherland, Ph.D., BCEEM Professor and Fehsenfeld Head of EEE, Purdue University	Course Objectives and Overview
Jan. 16	Andrew Frisbie, Ph.D., CHMM Dir. of Corp. EHS, Wabash National Corporation	Career Opportunities: Perspectives from a Practitioner
Jan. 23	Robert Holden, Ph.D., P.E., BCEE Vice President, Wessler Engineering, Inc.	Career Opportunities: Perspectives from a Practitioner
Jan. 30	Nancy Johannesmeyer Sr. Manager, Environmental Affairs, ASARCO	Career Opportunities: Perspectives from a Practitioner
Feb. 6	Robin Ridgway, Ph.D., P.E., LEED AP, CHMM Dir. of EHS Regulatory Compliance, Purdue Univ.	Career Opportunities: Perspectives from a Practitioner
Feb. 13	Jason Schneemann Project Engineer – Sustainability, Whirlpool Corp.	Career Opportunities: Perspectives from a Practitioner
Feb. 20	Joel Burken, Ph.D., Curator's Prof. and Dept. Chair, Dept. of Civil, Architectural, and Environmental Engineering at Missouri S&T	Opportunities in Graduate / Professional School
Feb. 27	Jacqueline Isaacs, Ph.D., Prof. and Assoc. Dean for Faculty Affairs, Associate Director, NSF Center for High-rate Nanomanufacturing, Northeastern Univ.	Opportunities in Graduate / Professional School
Mar. 6	Melissa Moran, P.E., Community Outreach Coordinator, The Nature Conservancy	Career Opportunities: Perspectives from a Practitioner
Mar. 13	No Class – Spring Break	
Mar. 20	Greg Zumbaugh, P.E., CHMM Vice President of Personnel at EnviroForensics	Opportunities in Graduate / Professional School
Mar. 27	Chris Rubak, P.E. Engineering Manager, Waste Management, Inc.	Career Opportunities: Perspectives from a Practitioner
Apr. 3	Maithilee Das, Civil Engineer, Greely and Hansen AND Matt Britton, Environmental Engineer, Moore & Bruggink	EEE Alumni Panel
Apr. 10	Judy Cleland, P.E. Cleland Environmental Engineering, Inc.	Career Opportunities: Perspectives from a Practitioner
Apr. 17	Liz Huldin, Executive Vice President, People and Organizational Capability, The Heritage Group	Personal Branding, Marketing, and Business Development
Apr. 24	Professor Sutherland	Course Review, Evaluation, and Feedback

\*\*This syllabus is subject to change.