
ERE 132 INTRODUCTION TO ENVIRONMENTAL RESOURCES ENGINEERING

COURSE SYLLABUS – FALL 2018

INSTRUCTOR

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CLASS MEETING TIMES: Wednesday 3:45 pm-4:40 pm Baker 148

COURSE DESCRIPTION: Introduction to the Environmental Resources Engineering (ERE) Department and campus resources available to ensure academic success for ERE majors. Introduction to engineering science and design as a profession through readings, assignments, presentations, and discussion.

TEXTBOOK: Engineering: A Very Short Introduction, Blockley, Oxford Press.

GRADING: 40% of grade is based on attendance and participation; 40% of grade is based on completing assignments; 20% of grade is based on resume.

ATTENDANCE POLICY: Attendance is required. Excused absences may be approved by the instructor.

LECTURE SCHEDULE:

DATE	TOPIC	PRESENTER(S)
29 Aug	Introduction to ERE	Lindi Quackenbush, Chair and Professor
5 Sep	Title IX & Bystander Intervention	Mary Triano, Assistant Dean for Student Affairs
12 Sep	Hands on labs: green roof, hydro lab, and outdoor soil experiments	Steve Shaw, Associate Professor
19 Sep	Creating and enhancing resumes	Lindi Quackenbush and Casey Duffy, Career Advisor
26 Sep	Environmental Nanotechnology	Neil Murphy, Professor
3 Oct	Ecological Engineering: Waste-to-Resource	Wendong Tao, Associate Professor
10 Oct	Environmental and ecological engineering solutions in the developing world	Tim Morin, Assistant Professor, and EWB members
17 Oct	Environmental monitoring	Giorgos Mountrakis, Professor and Chuck Kroll, Professor
24 Oct	Advice and advising	Lindi Quackenbush and ERE upper-class students
31 Oct	Moving toward professional engineering practice	Doug Daley, Associate Professor
7 Nov	Diversity and Inclusion	Dr. Malika Carter, Chief Diversity Officer
14 Nov	Designing software to help people plant trees and improve their world	Ted Endreny, Professor
28 Nov	Applications of radar remote sensing in environmental resources monitoring	Bahram Salehi, Assistant Professor
5 Dec	Health and wellness	Ruth Larson and Roger Howard, Counseling Services

COURSE LEARNING OUTCOMES: At the conclusion of this course, the student will be able to:

- Define engineering and explain one important innovation from each of its five fundamental ages.
- Identify the teaching and research specializations of the ERE faculty.
- Create a professional resume.
- Describe campus resources dedicated to helping students achieve success.

PROGRAM LEARNING OUTCOMES: This course will contribute to students achieving the following outcomes related to the accredited ERE undergraduate degree:

- An understanding of professional and ethical responsibility.
- An ability to communicate effectively.
- The broad education necessary to understand the impact of engineering solutions in a global and societal context.
- A knowledge of contemporary issues.

COLLEGE LEARNING OUTCOMES: this course will contribute to students achieving the following College-wide learning outcomes:

- Basic communication skills.
- Values, Ethics and Diverse Perspectives.

STUDENTS WITH LEARNING AND PHYSICAL DISABILITIES: SUNY-ESF works with the Office of Disability Services (ODS) at Syracuse University, who is responsible for coordinating disability-related accommodations. Students can contact ODS at 804 University Avenue- Room 309, 315-443-4498 to schedule an appointment and discuss their needs and the process for requesting accommodations. Students may also contact the ESF Office of Student Affairs, 110 Bray Hall, 315-470-6660 for assistance with the process. To learn more about ODS, visit <http://disabilityservices.syr.edu>. Authorized accommodation forms must be in the instructor's possession one week prior to any anticipated accommodation. Since accommodations may require early planning and generally are not provided retroactively, please contact ODS as soon as possible.

ACADEMIC DISHONESTY: Academic dishonesty is a breach of trust between a student, one's fellow students, and/or the instructor(s). By registering for courses at ESF you acknowledge your awareness of the ESF Code of Student Conduct (<http://www.esf.edu/students/handbook>), in particular academic dishonesty includes but is not limited to plagiarism and cheating, and other forms of academic misconduct. The Academic Integrity Handbook contains further information and guidance (<http://www.esf.edu/students/integrity/>). Infractions of the academic integrity code may lead to academic penalties as per the ESF Grading Policy: (<http://www.esf.edu/provost/policies/documents/GradingPolicy.11.12.2013.pdf>).

INCLUSIVE EXCELLENCE STATEMENT: As an institution, we embrace inclusive excellence and the strengths of a diverse and inclusive community. During classroom discussions, we may be challenged by different ideas. Understanding individual differences and broader social differences will deepen our understanding of each other and the world around us. In this course, all people are strongly encouraged to respectfully share their unique perspectives and experiences. This statement is intended to help cultivate a respectful environment, and it should not be used in a way that limits expression or restricts academic freedom at ESF.

RELIGIOUS OBSERVANCE: ESF recognizes the diversity of faiths represented among the campus community and protects the rights of students to observe religious holy days according to their tradition. Students will be provided an opportunity to make up any work requirements that may be missed due to a religious observance provided they give the instructor reasonable advance notification.