

Issues in Teaching and Research (ChE 2982)

Ethics Section - Fall 2019

Wed, 5:00 - 6:50PM; room: BEH309

Instructor (Ethics) *Prof. Götz Vesper*
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Office Hours: by appointment

Course Philosophy

This course addresses *health & safety* and *ethics* as fundamental issues in graduate education for engineers. The *safety* segment of the course addresses laboratory safety as related to research and teaching. *Ethics* will introduce a fundamental canon of ethical theories and then deal with issues of applied ethics such as University Policy and professional codes of ethics, plagiarism, fabrication and falsification, conflict of interest, assignment of credit, and how to resolve ethical dilemmas.

Course Resources

There is no required text for this class. However, the following resources may be of use throughout the course, and for additional reading:

Ethics:

“Engineering Ethics: Concepts and Cases”, Charles E. Harris, Michael S. Pritchard, and Michael J. Rabins, Wadsworth Publishing; 3rd ed., 2004.

“Engineering Ethics: An Industrial Perspective”, Gail Dawn Baura, Elsevier Academic Press, Oxford, 2006.

“On Being a Scientist: Responsible Conduct in Research”, National Academy Press, Washington, DC, 2nd ed., 1995; online at <http://newton.nap.edu/catalog/4917.html>

“The Online Ethics Center for Engineering and Science”,
<http://onlineethics.org/index.html>

“Center for the Study of Ethics in the Professions”, <http://ethics.iit.edu/index.html>

Course Grades

The overall course grade is composed of the individual grades of the *Health&Safety* and the *Ethics* modules (50% each). Please check the separate syllabi or web pages for the two modules for more detailed information on grading policies regarding the individual course modules.

Disabilities

If you have a disability for which you are or may be requesting an accommodation, you are encouraged to contact both your instructor and Disability Resources and Services, 216 William Pitt Union, (412) 648-7890/(412)383-7355 (TTY), as early as possible in the term. DRS will verify your disability and determine reasonable accommodations for this course. Refer to www.drs.pitt.edu for details.

Counseling

The University Counseling Center's staff is dedicated to assisting students in their pursuit of personal and academic growth, to helping students gain a better understanding and appreciation of themselves, and to supporting students as they make important decisions about their lives. If you are in need of counseling services, please contact the University Counseling Center at 334 William Pitt Union (412) 648-7930. Refer to www.counseling.pitt.edu for details.

Detailed Course Schedule *(please confirm the H&S lectures with Dr. Murphy)*

Date	Topic
Aug. 28	Ethics I – Foundations of Ethics
Sept. 4	Ethics II – Professional Codes of Ethics: ABET, AIChE, ACS, BMES
<i>Sept. 11</i>	<i>Health & Safety I – Introduction and Overview (Murphy)</i>
<i>Sept. 18</i>	<i>Health & Safety II – Lab Safety; Dow Academy/Student Presentations (Murphy)</i>
<i>Sept. 25</i>	<i>Health & Safety III – Introduction to Fires and Explosions (Murphy)</i>
Oct. 2	Ethics III – Ethics in Research I: Treatment of data, falsification, fabrication, and plagiarism
Oct. 9	Ethics IV – Ethics in Research II: Conflict of Interest, Allocation of Credit, Authorship
<i>Oct. 16</i>	<i>Health & Safety IV – Dow Lab Safety Modules (Murphy)</i>
<i>Oct. 23</i>	<i>Health & Safety V – Review of AIHA List of Laboratory Incidents (Murphy)</i>
Oct. 30	Ethics – Student Presentations I
Nov. 6	Ethics – Student Presentations II
<i>Nov. 13</i>	<i>No class - AIChE national meeting</i>
<i>Nov. 20</i>	<i>Health & Safety – Student Presentations I (Murphy)</i>
<i>Nov. 27</i>	<i>No Class - Thanksgiving Recess</i>
<i>Dec. 4</i>	<i>Health & Safety – Student Presentations II (Murphy)</i>
<i>Dec. 11</i>	<i>(no class)</i>