

EE 180: Engineering Ethics and Leadership

Spring 2020

Class time: Section A: 1:15-2:05 R

Location: Votey 229

Dr. James Kay Votey 373

Phone: (802) 656-

Respect yourself and all others. I can't work on a problem or issue with the class if I do not know about it, so please let me know of any issues that come up.

Robert McGinn,

Two to three papers will be assigned to allow students to analyze and communicate thoughts on the topics discussed. Format and content for the papers will be provided at the time of the assignment.

Attendance is a critical aspect of this course. Students are expected to attend all class meetings. Note that attendance/participation is a large part of the course grade. The instructor should be contacted prior to any absences. If an absence is approved the instructor will provide the student with an out of class assignment to substitute for the material covered during the class period.

Students are expected to behave in an ethical fashion. This includes proper citations in written work, and respect for the intellectual property of others. UVM's policy on academic integrity is clearly defined and can be found at <http://www.uvm.edu/~uvmppg/ppg/student/acadintegrity.pdf>

material. It is important to note that alcohol and cannabis have no place in an academic environment. They can seriously impair your ability to learn and retain information not only in the moment you may be using, but up to 48 hours or more afterwards. It is my expectation that you will do everything you can to optimize your learning and to fully participate in this course.

*Outcome (1):* An ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.

*Contribution:* 0

*Outcome (2):* An ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.

*Contribution:* 1

*Outcome (3):* An ability to communicate effectively with a range of audiences.

*Contribution:* 1

*Outcome (4):* An ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.

*Contribution:* 2

*Outcome (5):* An ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.

*Contribution:* 1

*Outcome (6):* An ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.

*Contribution:* 1

*Outcome (7):* An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

*Contribution*

*Contribution: 0*

*EE Criterion (B):* The curriculum for programs containing the modifier “electrical,” “electronic(s),” “communication(s),” or “telecommunication(s)” in the title must include advanced mathematics, such as differential equations, linear algebra, complex variables, and discrete mathematics.

*Contribution: 0*