



ENGR 203

Eng. Professionalism and Pathways

Course Syllabus

Instructor Mr. Reggie Bell
Smith Science Center

(843) 349- 2985
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Class Times Tuesdays and Thursdays
12:15 pm → 1:30 pm

Location By Appointment

Webpage <https://moodle.coastal.edu>

Required Text Stephan, E.A., Bowman, D.R., Park, W.J., Still, B.L. and Ohland, M.W. *Thinking Like an Engineer: An Active Learning Approach (4th Edition)*, New Jersey: John Wiley & Sons; 2016. ISBN-13: 978-0134701264

Dorch, Patricia. *Professionalism: New Rules for Workplace Career Success*, 2012, ISBN 0981685447, 9780981685441.

Course Description Engineering Professionalism and Pathways (3 credits). (Prereq: none) This course provides an overview of professional and ethical responsibilities of engineers; the impact of engineering solutions in global, economic, environmental, and societal contexts; contemporary issues; working in a diverse team environment, and life-long learning and career skills. This course will prepare students with fundamental knowledge to construct a plan to navigate their growth from undergraduate to an employee in the professions or academic workplace.

Course Objectives The objectives of this course are to encourage engineering students to:

- Apply knowledge of the engineering discipline to homework, essays, and in-class discussions.
- Outline personal goals associated with life-long learning and career/professional development.
- Communicate effectively in written exams, homework, role-play, and case study teamwork.
- Demonstrate principles associated with professional and ethical responsibility, including attitudes, values, work habits, and skills appropriate to engineering education and professional practice.
- Create and present a project and/or proposal document that communicates a technical concept and plan to a general technical audience

**ABET
Student
Outcomes**

This course directly supports ABET student outcome number four.

- (1) An ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics
- (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
- (3) An ability to communicate effectively with a range of audiences
- (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**
- (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
- (6) An ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions
- (7) An ability to acquire and apply new knowledge as needed, using appropriate learning strategies

**Course
Structure**

Students are expected to have computer and internet access. Standard software, i.e. MS Office suite, and a pdf reader are required. Students should expect to have additional reading assignments and materials. The additional reading assignments and materials will be distributed via MOODLE.

Topics

The course covers four main topics (not necessarily in this order):

- (1) Engineering Career Exposure
- (2) Ethics
- (3) Modern Engineering Ethics Issues
- (4) Engineering Professional Next Steps

Grading

The final letter grade reported for the course is based on contributions from four categories with the following weights:

	<u>Points</u>
In-Class Work	25
Homework	50
Quizzes, Case Studies	75
Exams 1 - 3	300
Final Project	<u>100</u>
Total	550

Based on the following scale the total points earned dictates the final letter grade assigned for the course:

A	495 - 550
B+	469 - 494
B	440 - 468
C+	418 - 439
C	385 - 417
D+	363 - 384
D	330 - 362
F	<330

Attendance Class attendance is vital to your understanding of the material. In accordance with the university's attendance policy, attendance will be taken every class period. If you miss more than eight classes (excused or unexcused), you may automatically receive a failing grade for the course.

Office Hours Office hours are posted on the course page in Moodle. This time is made available for students to address specific questions or concerns regarding the course, or receive general course related guidance. If there's a scheduling conflict with office hours, the student is encouraged to contact the professor by email.

Academic Integrity The university's academic integrity policy can be found on the web at <https://www.coastal.edu/academicintegrity/code/>. In this class, students' signatures on every assignment are confirmations of the students' honor pledges and will be treated as such. Some assignments are meant to be collaborative (labs, group activities), some are meant to be largely your own effort with limited outside help allowed (homework assignments), and some are meant to be completely your own effort (exams). For this course, a first cheating or plagiarism violation will result in a 'zero' grade for that assignment. A second violation will result in an automatic failing grade for the course.

To ensure academic integrity, students may be required to submit written assignments into Turnitin and/or other plagiarism checkers.

Americans with Disabilities Act Coastal Carolina University is committed to equitable access and inclusion of individuals with disabilities in accordance with the Americans with Disabilities Act and Section 504 of the Rehabilitation Act. Individuals seeking reasonable accommodations should contact Accessibility & Disability Services at (843) 349-2503 or <https://www.coastal.edu/disabilityservices/>.

The Americans with Disabilities Act indicates, "title II and title III entities must permit service animals to accompany people with disabilities in all areas where members of the public are allowed to go". Service animals are permitted in lab settings at Coastal Carolina University. Emotional support animals are not permitted in lab settings unless it is approved as a classroom accommodation. Students with service animals are strongly encouraged, but not required, to inform lab instructors of the use of a service animal. This communication provides both the student and the instructor with an opportunity to discuss and plan for the safety of the service animal as well as any other safety concerns. Students and instructors should contact Accessibility & Disability Services at (843) 349-2503 or <https://www.coastal.edu/disabilityservices/> regarding any potential accommodations or for support and assistance.

Revisions This is our roadmap and organizer for the course; as such, the syllabus and schedule are tentative and subject to change by the instructor with notice to the student as the semester progresses.

NOTE: MAKE CERTAIN TO CHECK MOODLE AND EMAIL EACH DAY FOR ANNOUNCEMENTS.