



ENGR 397

Independent Research

Term YYYY

Instructor:

TBD

Office Address TBD

Office Hours TBD

Phone Number TBD

Email address TBD

Class Times:

TBD

Description:

ENGR 397 - Independent Research (1-7 credits). (Prereq: permission of the instructor and approved contract) Directed study and/or research on a specific topic. The course can be repeated multiple times for credit. F, S, Su.

Objectives:

Students will gain an understanding of:

1. Methods of literature review and/or state-of-the-art assessment in engineering
2. Methods for development of novel research questions and/or design concepts
3. Planning and documentation, for ensuring validity and repeatability in research design

Outcomes:

Course outcomes are determined on a case-by-case basis.

ABET Outcomes:

This course supports the achievement of the following ABET outcomes:

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.***

Assignments:

Engineering Notebook: For the integrated science and design course, students will maintain an engineering notebook that documents the day-to-day activity on the project,

experimental/theoretical/modeling procedures, results and analysis in the moment. The supervising faculty member will dictate the format for notebook entries, with a grading procedure established before the beginning of the project.

Written Report: Students will complete a written report on the process and results of their project. This report will be graded based on the Written Report Rubric established by the department.

Oral Report (for Honors): Students will complete an oral report on the process and results of their project. This report will be graded based on the Oral Report Rubric established by the department.

Other: The faculty member supervising the student may require other assignments. These assignments and the grading procedure should be made clear before the start of the course. If there are no other assignments, then weighting for this category will be distributed to the other categories in a manner determined by the supervising faculty member.

Grading: Grades will be assigned based on performance on assigned tasks discussed above. Weighting of learning tasks is as follows:

Engineering Notebook:	25%
Written Report:	25%
Oral Report (for honors):	25%
Other:	25% (10% preliminary source code, 15% final source code)

Grading Scale:	A	89.5% and above
	B+	84.5% — 89.4%
	B	79.5% — 84.4%
	C+	74.5% — 79.4%
	C	69.5% — 74.4%
	D+	64.5% — 69.4%
	D	59.5% — 64.4%
F	59.4% and below	

Attendance: STUD-SENA-332: Unexcused Absence Penalties – an instructor is permitted to impose a penalty, including assigning the grade of F, for unexcused absences in excess of 25 percent of the regularly scheduled class meetings.

STUD-SENA-332 also lists the valid circumstances for an excused absence, notably:

- Incapacitating illness
- Official representation of the university
- Death of a close relative
- Religious holidays

Honesty: **Coastal Carolina University's Statement of Community Expectations:**

Coastal Carolina University is an academic community that expects the highest standards of honesty, integrity and personal responsibility. Members of this community are accountable for their actions and reporting the inappropriate action of others and are committed to creating an atmosphere of mutual respect and trust.

Contingencies: If normal class and/or lab activities are disrupted due to illness, emergency, or crisis situation, the syllabus and other course plans and assignments may be modified to allow completion of the course. If this occurs, an addendum to your syllabus and/or course assignments will replace the original materials.

Communication: I will try to respond to emails within one business day. Please use your @coastal.edu email.

ADA statement: 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 (843-349-2503 or <https://www.coastal.edu/disabilityservices/>).

Revisions: This syllabus describes the course as best it can. The instructor reserves the right to make changes in its content. If changes must be made to it during the semester, students will be immediately notified.