Register Description: Capstone research or design project, performed either independently or as a team, under the supervision of one or more faculty participating in the Bioengineering (BNG) Program. Prerequisite: BNG-497 (for course BNG-498).

Grades: Project advisors will assign grades using the following break down:

- Project Plan: 15%
- Oral Presentation: 25%
- Weekly Progress memos: 15%
- Design Notebook: 10%
- Written Progress Report/Thesis: 35%

Honor Code: The highest levels of ethical behavior are required of those in the profession of engineering and, by extension, of those preparing themselves to enter the profession. Furthermore, ethical behavior, especially in the area of academic honesty, is critically important to the entire educational and academic mission of the College. Therefore the Bioengineering Program takes matters of academic dishonesty and cheating very seriously.

To foster and enforce the highest standards of academic honesty, the BNG program fully supports Union’s Honor Code and Honor Council. Specifically, Union’s academic honor code requires that “Any suspected violations of the Honor Code must be reported.” All BNG faculty will strictly adhere to this guidance. Any suspected violations of the honor code will be reported. The honor code further states: “Normally, for a first violation of the Honor Code, a student would fail the course.” Because of the importance of honesty and ethics in engineering, the BNG program understands and supports the significant penalties outlines in the honor code for academic misconduct.

Further information on Union’s honor code can be found here: honorcode.union.edu.

Remember, it is your responsibility to understand and comply with instructions for what sorts of study aids, references, outside resources, and/or collaboration are allowed and disallowed for each assignment in each course. Ignorance of what is disallowed is not a defense.

BNG 497/498 MINIMUM PROJECT REQUIREMENTS AND DUE DATES

Failure to submit any of the minimum project requirements will result in a full letter grade reduction. Your advisor may have more requirements and different due dates.

Project Plan: due by 5 pm Monday of second full week of the term

Includes development and preparation of a detailed project plan and submission of the plan to the project advisor(s). This plan must include a review of the relevant literature; the objectives and expected results of your project; how the expected results would integrate into existing knowledge; the materials and
methods you will use to achieve your objectives and results including design, experimental (including
data acquisition and reduction), computational and analytical methods; a timetable for completing specific
objectives; and a proposed budget (a Student Research Grant proposal must be prepared to attempt to
obtain funding for your project).

**Oral Project Presentation**

*during ninth full week of the term*

Includes signing up for, preparing, and giving an oral presentation to the program and other interested
parties.

**Weekly Progress**

*weekly during the term*

Includes a formal memorandum discussing the past week’s work (a template for this memo will be
provided during the first meeting of the term) with which the instructor(s) can assess the project progress;
maintaining your project notebook; and managing your project budget.

**Design Notebook**

*due 5 pm last class day of the term*

Includes maintaining a bound design notebook using the guidelines outlined in the “Design Notebook”
document.

**Written Progress Report**

*due 5 pm last class day of the term*

Includes writing a technical report and turning it in to your project advisor by the deadline. A well-written
project plan should serve as an excellent draft on which to expand to create this report.