

ENGINEERING-GENERAL (EGG)

EGG101. Introduction to Engineering Science . 3 Credits.

This entry-level course provides students with an overview of the engineering sciences. Equal emphasis is placed on the three fields of engineering in which SUNY New Paltz offers degree programs; Electrical Engineering, Computer Engineering, and Mechanical Engineering. Each module offers hands-on learning experiences through projects.

Prerequisites:

- Math Placement Level with a score of 5 or MAT 181 with a minimum grade of C-

Restrictions:

- Must have the following level: Undergraduate

EGG193. Engineering Selected Topic. 1-12 Credits.

Prerequisites:

- EGG 101 with a minimum grade of C-

Restrictions:

- Must have the following level: Undergraduate

EGG199. Modular Course. 1-12 Credits.

EGG250. Energy and the Environment. 3 Credits.

Energy fundamentals, fossil based (coal, oil and gas), nuclear and renewable energy sources (such as solar, wind, hydro, geothermal, biomass, tidal and ocean thermal). Heat engines, use of energy in transportation, energy conservation and effect of energy consumption in the environment (locally and globally) are studied.

Prerequisites:

- Math Placement Level with a score of 3

EGG293. Engineering Selected Topic. 1-12 Credits.

Restrictions:

- Must have the following level: Undergraduate

EGG295. Indep Study General Engi. 1-12 Credits.

Restrictions:

- Must have the following level: Undergraduate

EGG311. Engineering Statistics. 3 Credits.

This course will provide students with an understanding of the principles of engineering data analysis using basic probability theorems and statistical methods with emphasis on their application to real-world data processing problems.

Prerequisites:

- MAT 252 with a minimum grade of C-

Restrictions:

- Must have the following level: Undergraduate
- Must have the following field(s) of study (major, minor or concentration):
 - Computer Engineering (518)
 - Mechanical Engineering (521)
 - Electrical Engineering (517)

EGG321. Technical Communication. 3 Credits.

Prepare proposal for Senior Design Project. Build high level statement, audience definition, product definition statement, product plan, risk assessment, and product verification and wrap-up plan. Also covers business memos, abstracts and summaries mechanical descriptions, poster sessions, business ethics, and business-oriented oral presentation. Two oral presentations are required.

Prerequisites:

- ENG 180 with a minimum grade of C- or ENG 170 with a minimum grade of C- or ENG 206 with a minimum grade of C- or ENG 207 with a minimum grade of C- or ENG 002 with a minimum grade of TC-

Restrictions:

- Must have the following level: Undergraduate
- Must have the following field(s) of study (major, minor or concentration):
 - Computer Engineering (518)
 - Mechanical Engineering (521)
 - Electrical Engineering (517)

EGG393. Engineering Selected Topic. 3-12 Credits.

Restrictions:

- Must have the following level: Undergraduate

EGG399. Modular Course. 0 Credits.

Restrictions:

- Must have the following level: Undergraduate

EGG408. Senior Design Project I. 3 Credits.

First of the two-semester design project. Students choose a project and an advisor and learn about the design process. A written progress report is required as the end of the semester.

Restrictions:

- Must have the following level: Undergraduate
- Must have the following field(s) of study (major, minor or concentration):
 - Computer Engineering (518)
 - Mechanical Engineering (521)
 - Electrical Engineering (517)

EGG409. Sr Design Project 2. 3 Credits.

Second part of a two-semester design project. A formal report and an oral presentation are required at the end of the semester.

Prerequisites:

- EGG 408 with a minimum grade of C-

Restrictions:

- Must have the following level: Undergraduate
- Must have the following field(s) of study (major, minor or concentration):
 - Computer Engineering (518)
 - Mechanical Engineering (521)
 - Electrical Engineering (517)

EGG472. Engineering Management. 3 Credits.

Prepares engineering students for a career in management. Through class discussions, group projects, various videos, and guest speakers, students find out what a management's role will entail, including ethical issues. Students learn how to go from being a practicing engineer to being an engineering manager.

Prerequisites:

- EGE 200 with a minimum grade of C- and EGE 201 with a minimum grade of C-

Restrictions:

- Must have the following field(s) of study (major, minor or concentration):
 - Mechanical Engineering (521)
 - Electrical Engineering (517)
 - Computer Engineering (518)
 - BS Computer Engineering/MS EE (266)
 - BS Elec. Engineering/MS EE (267)

EGG493. Engineering Selected Topic. 3-12 Credits.

Restrictions:

- Must have the following level: Undergraduate

EGG495. Indep Study Generl Engin. 1-12 Credits.

Restrictions:

- Must have the following level: Undergraduate