Blueprints
Orientation 2020
Pre-Engineering
Accepted to the Pre-Engineering major

Students are accepted into the Pre-Engineering (PREN) major if they did not meet the High School or Transfer student admissions requirements.

As a pre-engineering student, you are a part of the College of Engineering

- Advising with an engineering advisor
- Notification of all engineering events/opportunities
- Access to the 100 and 200 lvl engineering courses for which you meet prereqs (otherwise they are major restricted to non-engineering students)

Pre-Engineering majors need to be declared before they can take the 300 level engineering courses.
Requirements to Declare

Successful completion of the following:

- Eng 100
- Math 241 and 242
- Chem 161/161L and Chem 162 (or Chem 171/171L)
- Phys 170/170L
- overall GPA of 3.0 at UHM

Typically takes a year to finish these requirements from the time you start Math 241.

These courses are required for all engineering majors.

**AFTER successful completion of the above requirements, students can declare by filling out a transfer request form through the Student Academic Services Office (engr@eng.hawaii.edu).**
Curriculum Check Sheets

- 4 yr plans (include all general education & engineering requirements)
- Rigid & Prerequisite driven curriculum (important to take many courses in order or delay graduation, not many electives)
- [https://www.eng.hawaii.edu/students/current-students/curriculum](https://www.eng.hawaii.edu/students/current-students/curriculum)

Sample Freshman Schedule

*First Semester (Fall) - 14 credits*
- **ENG 100** (3) Composition I
- **HIST 151** (3) World History
- **CHEM 161** (3) General Chemistry I
- **CHEM 161L** (1) General Chemistry Lab I
- **MATH 241** (4) Calculus I

*Second Semester (Spring) - 16 credits*
- **EE 160** (4) Engineering Programming
- **PHYS 170** (4) General Physics I
- **PHYS 170L** (1) General Physics I Lab
- **MATH 242** (4) Calculus II
- **CHEM 162** (3) General Chemistry II
Which Engineering major ???

Attend the College of Engineering Career Day
- Learn about the employment opportunities for each discipline
- Learn about what engineers do at different companies and types of engineering positions

Join an engineering student club and/or project
- Clubs are the student branches of the professional engineering societies
- Networking with engineering students, faculty, and professionals
- Experience in discipline specific projects
College of Natural Sciences Tutoring Center

- Learning Emporium
- [https://natsci.manoa.hawaii.edu/learning-emporium/](https://natsci.manoa.hawaii.edu/learning-emporium/)
  - Math
  - Chemistry
  - Physics
  - ICS

College of Engineering Honor Society Tutoring

- Eta Kappa Nu (HKN), Chi Epsilon (XE), Pi Tau Sigma (PTS)
  - Lower division engineering courses
Advising is mandatory each semester for all engineering students

Fill out advising form: https://apply.eng.hawaii.edu/advising/

Meet with me once per semester during advising season
Fall Advising Season ~ Oct
Spring Advising Season ~ March

Hold preventing registration if mandatory advising not completed
Mandatory Advising

Advising Topics

- Course Schedule and Credit load
- Important Prereqs to stay on track towards graduation
- Review Curriculum Check Sheet/STAR for discrepancies
- Academic/Life Balance
- Check in with students mid-semester to discuss how things are going and provide support resources
- Answer questions student may have about Future Goals (Career, Industry, Research, Projects, Graduate School, etc.)

Students are also encouraged to talk to an academic advisor in the SAS Office whenever they need help or have questions.
Contact Us

College of Engineering
Student Academic Services (SAS) Office
Holmes Hall 250

engr@eng.hawaii.edu

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