

## Base Information

**Major:** Electrical and Computer Engineering

**Year:** Sophomore

**Semester:** Spring 2026

**Past Courses:** ECE110L, MATH111, CS101

**Current Courses:** MATH112, ECE230L, CS201

**Question:** Am I allowed to take ECE250D next semester?

**Context, from courses-report.2025-12-05.csv**

**Course:** ECE 250D — *Computer Architecture*

Computer structure, assembly language, instruction execution, addressing techniques, and digital representation of data. Computer system organization, logic design, microprogramming, cache and memory systems, and input/output interfaces.

Prerequisite: Computer Science 201.

## Answer

Yes, you are allowed to take **ECE250D** next semester.

According to the course description in the **courses-report.2025-12-05.csv**, CS201 is the required prerequisite for ECE250D. In your academic record, CS201 already appears under your Current courses, which means you have completed the prerequisite before the semester when you plan to take ECE250D.

## Base Information

**Major:** Biomedical Engineering

**Year:** Sophomore

**Semester:** Spring 2026

**Past Courses:** ECE110L, MATH 216, CHEM 101DL

**Current Courses:** BME 271D, PHY 151L, BME230L

**Question:** What other courses should I take to satisfy the needs of studying abroad?

**Context:** BME Handbook

Students who want to study abroad must:

- Review Pratt's study abroad policies
- Check GEO pre-approved courses
- Meet with academic dean to plan courses
- Many commonly approved abroad courses include:
  - BME 271D
  - BME 221L
  - BME General Elective
  - SS/H
  - Free Elective

**When returning from abroad**, students must be ready to take their **Area Core** courses.

Handbook table specifies **which prerequisites must be completed before or while abroad**:

### AREA Core Courses After Return Required Prerequisite Before/While Abroad

MC    BME 305L, BME 306L, 307L    BME 260L

BB    BME 302L    BME 221L

EL-301 BME 302L, BME 301L    Math 353

IM    BME 303L    BME 271D

Answer:

Based on your current schedule:

You are already taking **BME 271D**, which satisfies the prerequisite for the **IM Area (BME 303L)**.

You still need to complete:

**(A) BME 221L**

- Required if you plan to take **BME 302L** after returning
- BME 302L appears in **BB area** and **EL-301 area**

**(B) BME 260L**

- Required if you want to take **MC area courses (BME 305L / 306L / 307L)** after returning

**(C) Math 353**

- Required for taking **BME 301L or 302L** (EL-301 area)
- This is a common prerequisite for many upper-level BME tracks

**(D) Additional courses commonly taken abroad**

(You may take them abroad OR at Duke)

- SS/H (Liberal arts requirement)
- Free elective
- BME general elective

## **Base Information**

**Major:** Mechanical Engineering

**Year:** Sophomore

**Semester:** Spring 2026

**Past Courses:** Writing 120, MATH 111L, PHY 151L, EGR 101L, EGR105L, EGR 121L, MATH 112L

**Current Courses:** EGR 201L, MATH 218D-2, MATH219

**Question:** What courses should I take during this semester?

**Context:** ME Handbook

1. EGR 244L Dynamics requirement
  - “EGR 244L Dynamics (offered spring of Sophomore year only) is firmly required of all majors before advancing to junior year in ME.”
2. EGR 224L Mechatronics spring-only prerequisite
  - “EGR 224L Mechatronics (offered spring only, Sophomore or Junior year) before ME 344L Control Systems.”
3. Both classes are required in sophomore spring
  - “EGR 244L Dynamics and EGR 224L Mechatronics are only offered in the spring, and they are prerequisites for junior level ME courses.”
4. PHY 152L is part of the required physics sequence
  - “PHY 152L [or AP PHY 26]”
5. SSH requirement
  - “Five required (each in one of 4 Areas of Knowledge···).”

## **Answer:**

For Spring 2026, as a Mechanical Engineering sophomore, you should enroll in the two essential spring-only ME courses:

1. EGR 244L Dynamics. You have already completed its prerequisite (EGR 201L), and this course must be finished before you can progress to junior-year ME classes.
2. EGR 224L Mechatronics. Also offered only in spring and required before taking

upper-level control systems courses.

Additionally, if you have not yet taken PHY 152L, this spring is an appropriate time because it completes the foundational physics sequence required for ME.

You should also consider taking one Social Science/Humanities course toward the five-course SSH requirement, depending on your workload balance.

## Base Information

**Major:** Mechanical Engineering

**Year:** Freshman

**Semester:** Spring2026

**Past Courses:** NA

**Current Courses:** EGR 101L, MATH 111L, CHEM 101DL, WRITING 101

**Question:** If I want to minor in ECE, could you give me a course selection plan for next semester and tell me if I can take ME221L then?

**Context:** ME Handbook, ME\_classes.csv

Course: ME 221L

"Introduction to materials science and engineering, emphasizing the relationships between the structure of a solid and its properties. Atomic and molecular origins of electrical, mechanical, and chemical behavior are treated in some detail for metals, alloys, polymers, ceramics, glasses, and composite materials.

Prerequisite: Chemistry 20, 21, or 101DL and Engineering 201L or Biomedical Engineering 110L."

ECE Minor Requirements

ME Major with the Electrical and Computer Engineering Minor

The basic requirements for a minor in ECE (see also ECE Handbook) include three courses at the foundational/core level and two upper-level courses. Below are major specific modifications (e.g., courses that are disallowed for the Minor in ECE because students are required to take essentially equivalent courses for their primary major).

Path 1 – Taking EGR 224L:

- *Core courses (choose at least one and up to three)*
  - ECE 230L Microelectronic Devices & Circuits
  - ECE 250D Computer Architecture
  - ECE 270DL Fields & Waves"

Upper-Level Courses: take a minimum of two upper-level courses<sup>2</sup>. Students may choose to replace up to two (of three) ECE courses with additional upper-level ECE courses to meet the minimum requirement of 5 ECE courses.

Path 2 – Taking ECE 110L:

Student should take ECE 280L in lieu of EGR 224L to satisfy ME major requirement, but ECE 280L will not count toward the ECE minor.

- *Core courses(choose at least two, and up to three):*

- ☐ ECE 110 Fundamentals of ECE
- ☐ ECE 230L Microelectronic Devices and Circuits
- ☐ ECE 250L Computer Architecture
- ☐ ECE 270L Electromagnetic Fields

Upper Level Courses: take a minimum of two upper-level courses<sup>1</sup>. Students may choose to replace one (of three) ECE core courses with an additional upper-level ECE course to meet the minimum requirement of 5 ECE courses.

**Answer:**

No, you cannot take ME221L next semester.

According to the course description, ME221L requires both:

1. *CHEM 101DL* (which you are currently taking), and
2. *EGR 201L or BME 110L* , which you have not yet taken.

Because you will not complete EGR 201L before Fall 2025, you will not meet all prerequisites, and therefore you are not eligible to enroll in ME221L next semester.

For Spring 2026, you should take MATH 112L to continue the engineering calculus sequence and PHYSICS 151L, which is required for the ME major and provides important background for future ECE courses. To build the programming foundation needed for both ME and the ECE minor, you should take EGR 105L or COMPSCI 201, with CS201 offering the additional benefit of serving as a prerequisite for ECE 250D. Finally, adding a Humanities or Social Science AOI course will help you stay on track with the ME first-year curriculum.

## Base Information

**Major:** Civil and Environmental Engineering

**Year:** Junior

**Semester:** Spring26

**Past Courses:** EGR 101L, EGR 103L, MATH 111L, MATH 112L, MATH 218, MATH 219, PHYS151L, PHYS152L, CHEM 101DL, EGR 201L, EGR 244L, STA 230, CEE 201L

**Current Courses:** CEE 301L, CEE 302L, EOS 220, MATH216

**Question:** If I want to take CEE421L, did I met all the prerequisites? And I want to take S/M Track, could you give me a plan for the semester?

**Context:** CEE Handbook, CEE\_classes.csv

FromCEE\_classes.csv

“CEE 421L Matrix Structural Analysis”

*“Prerequisite: Engineering 201L and Mathematics 216.”*

“CEE 422L Concrete and Composite Structures”

*“Properties and design of concrete. Analysis and design of selected reinforced concrete structural elements according to strength design methodology.”*

“CEE 423L Metallic Structures”

*“Design of tension, compression, and flexural members. Bolted and welded connections. Design by LRFD methodology.”*

“CEE 429 Integrated Structural Design”

*“Student design teams complete a preliminary design of an actual structural engineering project... Open only to civil engineering students during their final two semesters. Prerequisites: Civil and Environmental Engineering 421L, 422L, and 423L”*

From the CEE Handbook

“Structural Engineering and Mechanics Track (S/M Track)

CEE 421L – Matrix Structural Analysis

CEE 422L – Concrete and Composite Structures

CEE 423L – Metallic Structures

CEE 429 – Integrated Structural Design”

**Answer:**



Yes, you are allowed to take CEE421L next semester.

According to the prerequisite statement in the CEE classes description, the required prerequisites for CEE421L are Engineering 201L and Mathematics 216. In your academic record, EGR201L appears under your Past Courses, and MATH216 appears under your Current Courses. This means you will have fully satisfied both prerequisites before the semester when you plan to take CEE421L.

Based on your academic progress and your intention to follow the S/M Track, I recommend that you take CEE421L, CEE422L, and CEE423L next semester, as this will allow you to satisfy all prerequisites for CEE429 and stay on track for completing the Structural & Mechanics sequence.