

## FE Exam

Computer Engineering majors typically don't take the FE exam.

EE majors – Becoming a PE (Professional Engineer) is not a requirement for most positions, but is desirable. It is required for consulting-type areas and for legal areas (legislature, public service commission or the courts). Utilities, Architecture and Engineering (A and E) Firms may require PE registration for upper level positions. Topics covered on the FE exam that are not included in the EE program are:

Statics                      Thermodynamics                      Mechanics of Materials                      Fluid Mechanics

The following courses at Tech can give you beneficial knowledge in preparation for the FE exam:

ENG2120 – Statics and Strengths of Materials

ENG3200 – Thermo/Fluid Mechanics

MEEM2110 – Statics

MEEM2200 - Dynamics

MEEM2700 – Thermodynamics

MEEM 3210 – Fluid Mechanics (has pre-requisites that can count as Approved Electives)

You can take these courses for Approved Elective (non-math/science) or Free Elective credit with the EE degree. Check pre-requisites and semester offerings and plan ahead.

EE4240 – Introduction to MEMS includes topics in micro electro mechanical systems that are helpful in preparation for the FE exam. EE4240 applies as 4 credits of EE Electives (or can apply as approved electives).

Freshman and sophomore co-hort courses plus your area(s) of specialty have also helped prepare you.

You would take the exam during your Senior year. You can study on your own following the topics described on the [FE exam website](#). Also there is an FE review class offered by local members of the Michigan Society of Professional Engineers. For more information about this local class, please see David Zei, Chem Sci 305A or Dr. Bruce Mork, EERC 623, [bamork@mtu.edu](mailto:bamork@mtu.edu)

### When is the fundamentals of engineering exam administered?

April and October. See their web site for the [schedule](#).

### What is the fundamentals of engineering exam and why should I take it? What is professional engineering registration and why should I seek to be a registered professional engineer?

Some types of engineering jobs require professional registration. If you might start your own business and call yourself a consultant, most states require the PE designation. Consulting work and some types of design work are greatly facilitated by professional registration.

If you become a registered professional engineer, you may append the initials "P.E." after your name on your business cards.

The first step: To become a registered professional engineer you must first take the fundamentals of engineering exam administered by the [National Council of Examiners for Engineering and Surveying](#). The details of the exam are given on their website.

Once you pass the FE exam, you become designated "engineer-intern". You remain in this status until you have practiced engineering for a designated number of years. The amount of time you need to practice before becoming registered varies from state to state. See the [National Council of Examiners for Engineering and Surveying](#) web site for details.