



Technical Electives

All mechanical engineering students need 12 technical elective credits to complete their degree requirements. The credit breakdown is listed below:

- 3 credits of Mechanical Engineering Technical Elective (METE)
- 6 credits of Engineering Technical Elective (ETE)
- 3 credits of General Technical Elective (GTE)

Mechanical Engineering Technical Electives (METE)

Mechanical engineering students must take at least three METE credits, which can be any 400-level ME course excluding ME 410, ME 435, ME 441, ME 440, ME 442, ME 443, ME 450, ME 454, ME 493, ME 494 and ME 496. The use of ME 497 or ME 499 as an METE must be petitioned for approval. A list of 400-level ME classes can be found in the University Bulletin.

Engineering Technical Electives (ETE)

To satisfy the ETE credit requirement, students can take any 400-level engineering courses not required for the major. On the chart below, courses in **boldface type** may be taken for ETE credit. A list of 400-level engineering classes can be found in the University Bulletin.

General Technical Electives (GTE)

The General Technical Elective (GTE) provides the opportunity for a student to enhance their technical education. To satisfy the GTE credit requirement, students can take a math, science or engineering course not required for their degree. The charts below provide a breakdown of accepted electives.

Please note the following:

1. Some 397 and 497 (temporary) courses offered outside of ME are eligible but require pre-approval via a course substitution request. The course must have substantial technical content and the student must demonstrate how the topic adds value to their academic and/or career plans.
2. Three co-op credits or internships (or a combination of both) rotations (ENGR 195, 295, 395, and 495). Visit the Career Resources & Employer Relations website to learn more.
3. Six credits of ROTC training are accepted (3 credits applied as GTE and 3 credits applied as GHW).
4. A course substitution must be submitted for any course taken outside of ME.
(<http://coursesub.psu.edu>)

Courses in the College of Engineering

Course Prefix	Accepted GTE Courses Accepted ETE in Bold	Not Accepted
AERSP*	3XX, 4XX	308, 311
AE*	3XX, 4XX	
BE	3XX, 4XX	
BME*	3XX, 4XX	
CHE*	3XX, 4XX	330, 350
CE*	3XX, 4XX	360
CMPEN*	3XX, 4XX	
CMPSC*	3XX, 4XX	
EE	3XX, 4XX	
ENGR*	3XX, 4XX	
EDSGN*	367, 4XX	
EMCH	3XX, 4XX	
ESC	3XX, 4XX	
IE*	3XX, 4XX	312
ME*	3XX, 4XX , 497x	300, 320, 330, 340, 348, 360, 370, 390, 410, 435, 440-443, 450, 454 & 490
NucE*	3XX, 4XX , 497x	309

Courses in the College of Earth and Mineral Science

Course Prefix	Accepted GTE Courses Accepted ETE in Bold	Not Accepted
EARTH	4XX	
EGEE	4XX	
FSC	4XX	
ENVSE	4XX	
GEOSC	3XX, 4XX	
MATSE	4XX	
METEO	3XX, 4XX	
MN PR	3XX, 4XX	
MNG	3XX, 4XX	
PNG	4XX	

Courses in the Eberly College of Science

Course Prefix Accepted GTE Courses Accepted ETE in Bold Not Accepted

ASTRO	2XX, 3XX, 4XX
BMB	2XX, 3XX, 4XX
BIOL	2XX, 3XX, 4XX
BIOTC	4XX
CHEM	2XX, 3XX, 4XX
ENT	3XX, 4XX
MATH	3XX, 4XX
MICRB	2XX, 3XX, 4XX
PHYS	230, 237, 3XX, 4XX
STAT	3XX, 4XX

Notes:

1. 400-level courses in **bold-face type** may also be taken for ETE credit.
2. Departments with asterisk (*) may have controls on their course offerings. Students must contact the department to obtain permission to enroll if they cannot schedule the course in LionPath.
3. Students can use a maximum of six research-related credits towards degree requirements. These credits may only be used towards ETE and GTE credits. Research-related credits include ME 496, ME 494H, honor thesis-related credits, and other department-approved X94/X96 credits received from the College Engineering, the College of Earth and Mineral Science, and the Eberly College of Science. Students must submit a course substitution to obtain department approval for research credits outside of ME.

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Forms

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About

With more than 60 faculty members, 330 graduate students, and 1,000 undergraduate students, the Penn State Department of Mechanical Engineering embraces a culture that welcomes individuals with a diversity of backgrounds and expertise. Our faculty and students are innovating today what will impact tomorrow's solutions to meeting our energy needs, homeland security, biomedical devices, and transportation systems. We offer B.S. degrees in mechanical engineering as well as resident (M.S., Ph.D.) and online (M.S.) graduate degrees in mechanical engineering. See how we're inspiring change and impacting tomorrow at me.psu.edu.

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