

Approved Technical Electives - Mechanical Engineering Undergraduate Major

ACCT*	All 3000 and higher except 3840, 4840/5840 or 4870/5870
AER E	All 3000 and higher except: 3010, 3100, 3310, 4660. (4940 only with ME dept approval.)
A B E	All 3000 and higher except 3750, 3780 and 4660
A ECL	All 3000 and higher
AFAS	3410, 3420, 4410, 4420
AGEDS	3880
AGRON	All 3000 and higher except 4460
AN S	All 3000 and higher except 3170, 4970
ARCH	All 3000 and higher except 3210, 4200, 4220, 4230, 4240, 4250, 4260, 4270, 4290, 4310, 4370, 4820 4860
ASTRO	All 3000 and higher
BBMB	All 3000 and higher
BCBIO	All 3000 and higher
BIOL	All 3000 and higher except 3070, 3940. (BIOL 4880 can be taken for TE only if taken with 4860; 3930 only if taken with 3930A or B, or 3940.)
B M E	BME 2200; all 3000 and higher
B M S	All 3000 and higher
CH E	All 3000 and higher (Only one of 4260 or 4270 can apply to BSME degree.)
CHEM	All 3000 and higher
C E	All 3000 and higher except 4030
COM S	All 3000 and higher
CON E	All 3000 and higher

CPR E	2870, all 3000 and higher except 3940, 4660
CYB E	3310, 4410
DS	3010, 3030, 4010 (May not use DS/LS 2010.)
DSN S	5460 (3 credits max)
ECON	All 3000 and higher
E E	All 3000 and higher except 4420, 4480
EEOB	All courses
EDADM	All courses
E M	All 3000 and higher except 3240
ENGR	All 3000 and higher except 3200, 3270, 3750
ENT	All 3000 and higher except 3740 and 3740L
ENTSP	3130 (ENTSP 3100 counts only if ENTSP 3130 is also taken)
ENSCI	All 3000 and higher
ENV S	All 3000 and higher
FIN*	All 3000 and higher
FS HN	All 3000 and higher except 3400, 3650, 3670, 4030, 4080, 4420, 4630, 4660
GEOL	All 3000 and higher
HORT	All 3000 and higher
IA LL	All 3000 and higher
I E	All 3000 and higher except 4490, 4660, 5490
IND D	3200, 3300, 3500, 4350, 5300, 5500
KIN	3550, 3720, 4550, 4720, 4800, 4810
MAT E	All 3000 and higher except 3910, 3920
MGMT*	All 3000 and higher
MIS*	All 3000 and higher
MKT*	All 3000 and higher
MATH	Math 2070; all 3000 and higher except 3970, 4970

M E	ME 2800; All 3000 higher EXCEPT ME Core courses (ME 3240, 3240L, 3250, 3320, 3350, 3450, 3700, 4150, 4210, 4360, 4420, 4660) 3960, 3980, 4980 (Students taking more than one capstone design class (4150, 4420, 4660) may apply the second or third class taken to their technical electives. Both ME 4010 and 4020 must be taken to earn TE credit.)
MICRO	All 3000 and higher except 3740 and 3740L
M S	3010L, 3020, 3020L, 4010L, 4020L
M S E	All courses
MTEOR	All 3000 and higher except 3210, 3980, 4170, 4990
MUSIC	3460, 4460
NREM	All 3000 and higher except 3050
N S	3200, 3300, 4100, 4120
PHYS	All 3000 and higher except 3020, 3890, 3980, 3990
PL P	All 3000 and higher
SCM*	All 3000 and higher
S E	All 3000 and higher
STAT	All 3000 and higher except 3050, 3220, 3260, 3300(Only one of Stat 301 or 4010 can apply to the BSME degree.)
TSM	All 3000 and higher except 3370, 3930
WESEP	5020

*The College of Business does NOT allow non-business students to take more than three of 3000+ level courses in their college (ACCT, FIN, MGMT, MIS, MKT, SCM, ENTSP). Please note that this is across the college, not the individual course designator.

Criteria for Technical Electives

Technical electives provide an opportunity for students to explore a range of advanced technical subjects (engineering, mathematics and the natural sciences) or relevant engineering professional skills topics (e.g. design, business, management, marketing) to provide increased breadth or to focus on a specific technical area to develop in-depth understanding. This generally implies a course that

- * Is designated at the 3000 level or higher, including graduate level courses.
- * Utilizes skills developed in introductory and intermediate technical courses (basic program and ME engineering math, science requirements) or covers topics to enhance students' knowledge of professional skills related to the engineering profession.

BSME Technical Elective Course Requirements

- * The BSME requires at least 15 credits of technical electives (on top of a capstone design elective).
- * Any Independent Study course (490, AER E 494/494x, or other) must go through a departmental approval process prior to being applied as a technical elective. "All courses" as noted on the reverse does not automatically include 490, AER E 494, or other independent study classes in the listed departments - see your advisor for details.
 - o **No more than 6 total credits of independent study (ME 490, non-ME 490 Aer E 4940/4940X, or other independent study) will be applied to the BSME degree, and no single independent study experience may exceed 3 credits**
- * Any courses involving travel must show specific learning outcomes and assessment plan prior to approval.
- * Internship and cooperative education courses in any department (including ME) are not applicable as technical electives.
- * Departmental prerequisites are not waived simply because a course is on this list. Students must complete the prerequisites or obtain prior professor approval to waive the prerequisites.
- * Some listed courses may be restricted to majors only and may not be available to ME students.
- * A 200 level prerequisite course may be applied as a technical elective if taken prior to the final course and credit is earned in the final course.

US Diversity / International Perspectives Technical Electives

Courses in **BOLD** are ones typically taken by M E Students

US Diversity: For complete list of courses see www.registrar.iastate.edu/courses/USDiversity-current.html

International Perspectives:

A B E 3880	ENSCI 4060
A ECL 4550	ENV S 3420 , 3450, 3840
AFAS 4420	M E 4840
AGRON 4060	MGMT 3670
AN S 4410	MICRO 3600X
ARCH 3220	MTEOR 4060
C E 3880, 3950	NREM 4710
E E 3510, 3880	
ECON 3200, 3350, 3550, 3700, 3850, 3870, 4550, 4570	