

## Approved Technical Electives - Mechanical Engineering Undergraduate Major

ACCT*	All 300 and higher except 384, 484/584 or 487/587
AER E	All 300 and higher except: 301, 310, 331, 466. (494 only with ME dept approval.)
A B E	All 300 and higher except 375, 378 and 466
A ECL	All 300 and higher
AFAS	341, 342, 441, 442
AGEDS	388
AGRON	All 300 and higher except 446
AN S	All 300 and higher except 317, 497
ARCH	All 300 and higher except 321, 420, 422, 423, 424, 425, 426, 427, 429, 431, 437, 482, 486
ASTRO	All 300 and higher
BBMB	All 300 and higher
BCBIO	All 300 and higher
BIOL	All 300 and higher except 307, 394. (BIOL 488 can be taken for TE only if taken with 486; 393 only if taken with 393A or B, or 394.)
B M E	BME 220; all 300 and higher
B M S	All 300 and higher
CH E	All 300 and higher (Only one of 426 or 427 can apply to BSME degree.)
CHEM	All 300 and higher
C E	All 300 and higher except 403
COM S	All 300 and higher
CON E	All 300 and higher

CPR E	287, all 300 and higher except 394, 466
CYB E	331, 441
DS	301, 303, 401 (May not use DS/LS 201.)
DSN S	546 (3 credits max)
ECON	All 300 and higher
E E	All 300 and higher except 442, 448
EEOB	All courses
EDADM	All courses
E M	All 300 and higher except 324
ENGR	All 300 and higher except 320, 327, 375
ENT	All 300 and higher except 374 and 374L
ENTSP	313 (ENTSP 310 counts only if ENTSP 313 is also taken)
ENSCI	All 300 and higher
ENV S	All 300 and higher
FIN*	All 300 and higher
FS HN	All 300 and higher except 340, 365, 367, 403, 408, 442, 463, 466
GEO L	All 300 and higher
HORT	All 300 and higher
IA LL	All 300 and higher
I E	All 300 and higher except 449, 466, 549
IND D	320, 330, 350, 435, 530, 550
KIN	355, 372, 455, 472, 480, 481
MAT E	All 300 and higher except 391, 392
MGMT*	All 300 and higher
MIS*	All 300 and higher
MKT*	All 300 and higher
MATH	Math 207; all 300 and higher except 397, 497

M E	ME 280; All 300 higher EXCEPT ME Core courses (ME 324, 324L, 325, 332, 335, 345, 370, 415, 421, 436, 442, 466) 396, 398, 498 (Students taking more than one capstone design class (415, 442, 466) may apply the second or third class taken to their technical electives. Both ME 401 and 402 must be taken to earn TE credit.)
MICRO	All 300 and higher except 374 and 374L
M S	301L, 302, 302L, 401L, 402L
M S E	All courses
MTEOR	All 300 and higher except 321, 398, 417, 499
MUSIC	346, 446
NREM	All 300 and higher except 305
N S	320, 330, 410, 412
PHYS	All 300 and higher except 302, 389, 398, 399
PL P	All 300 and higher
SCM*	All 300 and higher
S E	All 300 and higher
STAT	All 300 and higher except 305, 322, 326, 330 (Only one of Stat 301 or 401 can apply to the BSME degree.)
TSM	All 300 and higher except 337, 393
WESEP	502

\*The College of Business does NOT allow non-business students to take more than three of 300+ level courses in their college (ACCT, FIN, MGMT, MIS, MKT, SCM). 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 300 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 494/494X, 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](http://www.registrar.iastate.edu/courses/USDiversity-current.html)

### International Perspectives:

A B E 388	ENSCI 406
A ECL 455	<b>ENV S 342, 345, 384</b>
<b>AFAS 442</b>	<b>M E 484</b>
AGRON 406	MGMT 367
AN S 441	MICRO 360X
ARCH 322	MTEOR 406
C E 388, 395	NREM 471
E E 351, 388	
ECON 320, 335, 355, 370, 385, 387, 455, 457	