Approved <u>Technical Electives</u> - 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 BCBIO 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 BRT All courses CH E All 300 and higher CHEM All 300 and higher C E All 300 and higher CON S All 300 and higher CON E All 300 and higher | | |
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| can apply to BSME degree.) CHEM All 300 and higher C E All 300 and higher except 403 COM S All 300 and higher | CH E | All 300 and higher |
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| CHEM All 300 and higher C E All 300 and higher except 403 COM S All 300 and higher | | can apply to BSME |
| C E All 300 and higher except 403 COM S All 300 and higher | | degree.) |
| except 403 COM S All 300 and higher | | All 300 and higher |
| COM S All 300 and higher | C E | All 300 and higher |
| | | except 403 |
| CON E All 300 and higher | COM S | All 300 and higher |
| | CON E | All 300 and higher |

| CPR E | 287, all 300 and |
|---------|-------------------------------|
| Critic | · |
| D S | higher except 394, 466 |
| U 3 | 301, 303, 401 (May |
| DCM C | not use DS/LS 201.) |
| DSN S | 546 (3 credits max) |
| ECON | All 300 and higher |
| ΕE | All 300 and higher |
| | except 442, 448 |
| EEOB | All courses |
| EDADM | All courses |
| EM | 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 |
| 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 |
| GEOL | All 300 and higher |
| HORT | All 300 and higher |
| IA LL | All 300 and higher |
| I E | All 300 and higher |
| | except 449, 466 |
| IND D | 320, 330, 350, 435, 530 |
| KIN | 355, 372, 455, 472, |
| | 480, 481 |
| MAT E | All 300 and higher |
| | except 391, 392 |
| MGMT* | All 300 and higher |
| | (Except credit for 310 |
| | is applied only if 313 |
| | OR 320 is also taken.) |
| MIS* | All 300 and higher |
| MKT* | All 300 and higher |
| MATH | Math 207; all 300 and |
| IVIATIT | |
| | higher except 397, 497 |

| M E | ME 280; All 300 |
|-------|---------------------------|
| IVI L | 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 |
| MSE | All courses |
| MTEOR | All 300 and higher |
| | except 321, 398, 417, 499 |
| MUSIC | 346 |
| NREM | All 300 and higher |
| | except 305 |
| N S | 320, 330, 410, 412 |
| NUC E | All 300 and higher |
| PHYS | All 300 and higher |
| | except 302, 389, 398, |
| | 399 |
| PL P | All 300 and higher |
| SCM* | All 300 and higher |
| SE | 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 |
| | <u> </u> |

^{*}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.
 - 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: ECON 321,** ECON 378, ENV S 320, **MGMT 472**

International Perspectives:

A B E 388 ENSCI 406

A ECL 455 ENV S 342, 345, 384

AFAS 442 M E 484
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