READ THIS FIRST! Things to know as you explore which electives you might take:

- **Definition of an engineering elective**: Any elective that includes engineering design elements in the course and has been approved by the Undergraduate Curriculum Committee as an engineering elective. Do not assume that any engineering course is an engineering elective.

- **Definition of a technical elective**: Math, science, or engineering courses that are approved by the Undergraduate Curriculum Committee as a technical elective. All engineering electives are also included on the technical elective list.

- Courses in **bold** don’t require any requisites beyond the courses already in your Degree Plan. Courses in **italics** require prerequisites that you may not have, unless you have a double major or minor in that area. This means that most students should stick to exploring the courses that are in **bold**, not in italics. Please keep in mind that this is just a guide, and you should check the course catalog for the most up to date requisites for each course.

- Courses in **red** are recently approved as electives and haven’t yet been added to the Advisement Report system. You can still enroll in these courses; you just need to make sure to contact your advisor so they can manually add the course into your report.

- The superscripts can be useful for some students. An **O** indicates that the course is sometimes offered online, **S** denotes that the course may be offered in the summer, **G** means that the course can double dip as a General Education course, and **N** indicates that Advanced Standing is not required for the course (Freshman and Sophomores can take these). Note also that only one lower-level Gen Ed course can double dip as a Technical Elective; these courses are designated with a *****.

- To figure out which electives you might enjoy, go to the catalog (https://catalog.arizona.edu/), choose the courses drop down (top left), then select course descriptions. From here, you can choose the first letter for the subject you are interested in and view all the courses offered in that department. Next, read the description, see when it is normally offered, and what the requisites are.

- Keep in mind that many courses can **double dip** with a minor. There are a few minors that you can complete entirely (or nearly entirely) just by double dipping your electives with the minor. Check out the **D2L** to explore the most popular minors our students take.

- Still stuck? Ask friends and classmates which electives they enjoyed and found manageable.

- If you find a course that is not on the list, but you think should be on the list, contact your advisor and we’ll send it to the Undergraduate Curriculum Committee for review.
EARTH SCIENCE ELECTIVES

Civil Engineering: CE 343

Environmental Science: ENVS 200\textsuperscript{N}, ENVS 270\textsuperscript{N}, ENVS 470

Hydrology and Water Resources: HWRS 405

ENGINEERING ELECTIVES

Aerospace & Mechanical Engineering: AME 301, AME 302, AME 313\textsuperscript{S}, AME 324B, AME 442A, AME 445, AME 446, AME 480

Atmospheric Sciences: ATMO 469A\textsuperscript{N} (cannot double dip to fulfill any other degree requirement)

Biosystems Engineering: BE 423, BE 426, BE428\textsuperscript{SO}, BE 430\textsuperscript{O}, BE 444, BE 452, BE 455, BE 456, BE 459, BE 467\textsuperscript{N}, BE 475A, BE 479, BE 481A, BE 482, BE 485, BE 487

Biomedical Engineering: BME 416, BME 466, BME 483

Civil Engineering: CE 323, CE 363, CE 381, CE 422, CE 426, CE 427, CE 445, CE 455

Chemical & Environmental Engineering: CHEE 303, CHEE 305, CHEE 326, CHEE 402, CHEE 420, CHEE 437, CHEE 438, CHEE 481A, CHEE 482, CHEE 483, CHEE 485, CHEE 487, CHEE 489

Electrical & Computer Engineering: ECE 351C, ECE 414A, ECE 446, ECE 462

Engineering: ENGR 422, ENGR 452

Mining Engineering: MNE 411, MNE 417, MNE 422

Materials Science & Engineering: MSE 331R, MSE 345, MSE 437, MSE 450, MSE 460

Systems & Industrial Engineering: SIE 406, SIE 410A, SIE 457, SIE 464, SIE 466\textsuperscript{NS}
# TECHNICAL ELECTIVES

*Only one* lower level course can count as a Technical Elective.

**Aerospace and Mechanical Engineering:** AME 301, AME 302, AME 313\(^*\), AME 324A, AME 324B, AME 442A, AME 445, AME 446, AME 480

**Agriculture & Resource Economics:** AREC 313, AREC 476, AREC 479

**Atmospheric Sciences:** ATMO 421\(^{NO}\), ATMO 436A\(^{NO}\), ATMO 441A\(^{NO}\), ATMO 441B\(^{NO}\), ATMO 451A\(^{NO}\), ATMO 451B\(^{N}\), ATMO 455\(^{N}\), ATMO 469A\(^{N}\), ATMO 490\(^{N}\) (ATMO 469A cannot double dip to fulfill any other degree requirement)

**Biosystems Engineering:** BE 284\(^{N}\), BE 344\(^{SO}\), BE 385, BE 423, BE 426, BE 428\(^{SO}\), BE 430\(^{O}\), BE 434\(^{N}\), BE 444\(^{N}\), BE 452, BE 455, BE 456, BE 458, BE 459, BE 467\(^{N}\), BE 475A, BE 479, BE 481A, BE 482, BE 483, BE 485, BE 486, BE 487

**Biomedical Engineering:** BME 416, BME 461, BME 466, BME 486

**Chemical & Environmental Engineering:** CHEE 303, CHEE 305, CHEE 326, CHEE 402, CHEE 412, CHEE 413, CHEE 420, CHEE 437, CHEE 438, CHEE 481A, CHEE 482, CHEE 483, CHEE 485, CHEE 487, CHEE 489

**Chemistry:** CHEM 325\(^{N}\), CHEM 326\(^{N}\), CHEM 380\(^{NS}\), CHEM 437, CHEM 450, CHEM 480A\(^{N}\)

**Civil Engineering:** CE 301\(^{G}\), CE 323, CE 333, CE 334, CE 335, CE 363, CE 381, CE 422, CE 423, CE 426, CE 427, CE 445, CE 455

**Computer Science:** CSC 460

**Cyber Operations:** CYBV 301\(^{S}\)

**Ecology and Evolutionary Biology:** ECOL 302, ECOL 326\(^{F}\), ECOL 329A, ECOL 335, ECOL 340, ECOL 346, ECOL 360, ECOL 410

**Economics:** ECON150C2\(^{N}\)*

**Electrical & Computer Engineering:** ECE 320A, ECE 351C, ECE 414A, ECE 446, ECE 462, ECE 479

**Engineering:** ENGR 422, ENGR 435, ENGR 452, ENGR 495, ENGR 495A

**Environmental Health Sciences:** EHS 418\(^{N}\), EHS 420\(^{N}\), EHS 422, EHS 425\(^{N}\), EHS 426\(^{N}\), EHS 439A\(^{NS}\), EHS 484\(^{N}\), EHS 489\(^{N}\)
Environmental Science:  ENVS 300N, ENVS 305N, ENVS 310N, ENVS 320N, ENVS 330NOS, ENVS 340N, ENVS 376N, ENVS 401N, ENVS 410N, ENVS 428RN, ENVS 431N, ENVS 462N, ENVS 464N, ENVS 470N, ENVS 480N

Geography & Development:  GEOG 302N, GEOG 304N, GEOG 330NOS, GEOG 338N, GEOG 368N, GEOG 374N, GEOG 379N, GEOG 461N

Geosciences:  GEOS 400N, GEOS 410N, GEOS 412AN, GEOS 419N

Government & Public Policy:  SGPP 301SN, SGPP 303SN, SGPP 320N, SGPP 335N

Health Promotion Science:  HPS150C1GS*, HPS 401S, HPS 409N, HPS 495S


Law:  LAW 454N

Materials Science & Engineering:  MSE 331R, MSE 345, MSE 412, MSE 415O, MSE 435, MSE 437, MSE 446, MSE 450, MSE 460, MSE 461

Mathematics:  MATH 302AN, MATH 302BN, MATH 310NS, MATH 315NS, MATH 315N, MATH 322N, MATH 323NS, MATH 330N, MATH 335N, MATH 361N, MATH 362N, MATH 396TN, MATH 401AN, MATH 401BN, MATH 402N, MATH 404N, MATH 406A, MATH 406B, MATH 407N, MATH 413N, MATH 415A, MATH 415BN, MATH 422N, MATH 424N, MATH 425N, MATH 425BN, MATH 432N, MATH 443N, MATH 445N, MATH 446N, MATH 447N, MATH 454N, MATH 456N, MATH 462N, MATH 464N, MATH 466N, MATH 468N, MATH 475A, MATH 475BN, MATH 485N, MATH 488N, MATH 4967N

Microbiology:  MIC 320N, MIC 328RN, MIC 329AN, MIC 350N, MIC 425N

Mining Engineering:  MNE 411, MNE 417, MNE 422

Pharmacology:  PHCL 422N

Physics:  PHYS 371N, PHYS 450N

Planetary Sciences:  PTYS 212GS*
### Planning: PLG 497N

### Plant Pathology: PLP427RN

**Political Science:** POL 481N

### Public Health Practice: PHP 421NOS

**Public Administration and Policy:** PA 482N

**Public Relations:** PR 317N

**Renewable Natural Resources:** RNR150C1GNS*, RNR 316N, RNR 351N, RNR 403S, RNR 416CN*, RNR 416EP*, RNR 417SN, RNR 420N, RNR 427N, RNR 440, RNR 458N, RNR 472N, RNR 495FS

**Science:** SCI 396A

**Sustainable Built Environments:** SBE 450N

**Statistics and Data Science:** DATA 367, DATA 375, DATA 396TN, DATA 462N, DATA 467, DATA 496TN

**Systems & Industrial Engineering:** SIE 321, SIE 340S, SIE 377, SIE 406, SIE 408, SIE 410A, SIE 414, SIE 415, SIE 422, SIE 432S, SIE 440, SIE 454A, SIE 457, SIE 463, SIE 464, SIE 466S

**Watershed Management:** WSM 426

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* *N* = Not Required

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