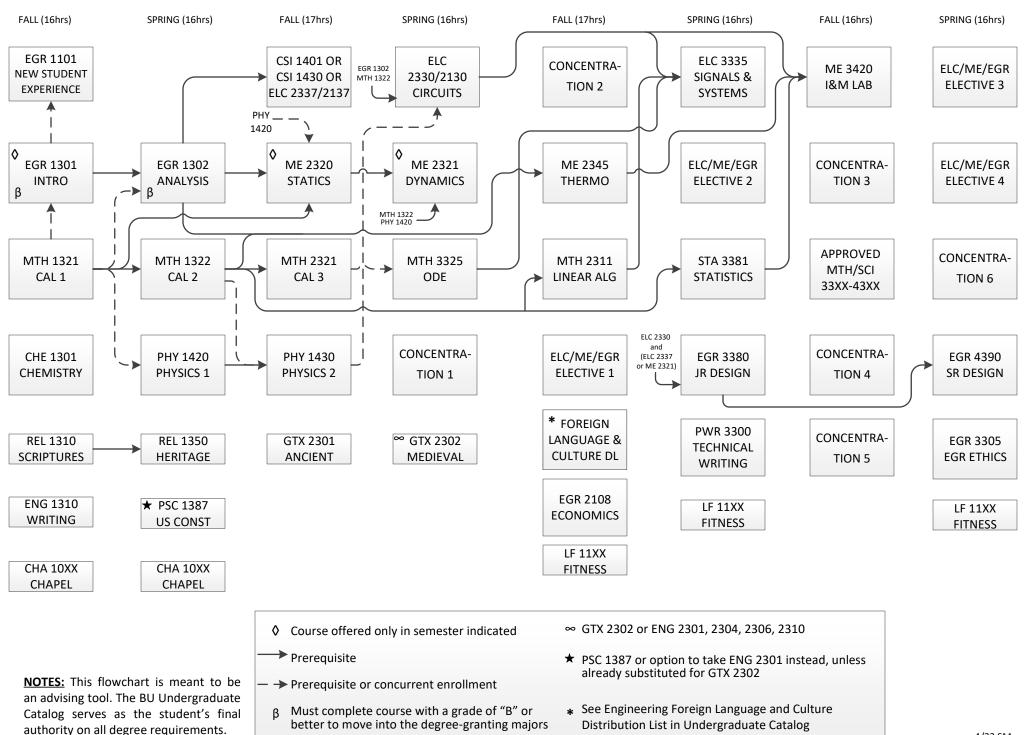
ENGINEERING MAJOR (2022-2023)



Baylor offers an ABET accredited degree in Engineering in addition to majors in Mechanical Engineering and Electrical and Computer Engineering. The major is simply "Engineering" and the degree awarded is the Bachelor of Science in Engineering (B.S.E.). The B.S.E is Baylor's oldest engineering degree.

Engineering students take the same core courses common to the other engineering majors. The curriculum further builds on these fundamentals in follow-on and upper-level courses that deepen their engineering understanding and capabilities.

Because the B.S.E. curriculum is broader than that for traditional engineering majors, a number of employers and advisors are advocates of this approach. Also because of this adaptability it is well suited for students who have a well-honed but non-traditional career plan. B.S.E. students must have defined career aspirations that leverage the advantages of the B.S.E. curriculum. B.S.E. students must also maintain a competitive GPA and make good academic progress.

Complete one of the following:

- a. A targeted set of courses in one of the listed concentration areas.
- b. Any minor offered by Baylor with the exception of Engineering or Mathematics. (Note that an additional minor in Mathematics can be completed by the proper choice of math/science elective, but it does not satisfy this requirement.)

Biomedical Concentration	Humanitarian Engr. Concentration
• Engineering Electives	• Engineering Electives
ME 3320: Strength of Materials3	ELC/ME/BME 33XX: Elective 13
ME 3322: Materials & Manufacturing	ELC/ME/BME 33XX: Elective 23
ELC 4351: Digital Signal Processing	ELC/EGR/ME/BME 43XX: Elective 33
BME 4370: Biomaterials	ELC/EGR/ME/BME 43XX: Elective 43
• Concentration Electives	 Concentration Electives
CHE 1341 or CHE 4341: Biochemistry	EGR 3315: Ethics for International Service3
HP 1420 or BIO 4432: Human Anatomy 4	EGR 3302: Tech for Developing Countries3
PUBH 3350 or BIO 3322: Physiology3	EGR 3115: International Experience
BME 4374 (Biomechanics) or BME 4376	ME 4305: Sustainable Engineering3
(Medical Devices Design)	ONE from following: ENV 3333 (Watershed
BME 4353 (Image Formation) or BME 4372	Assessment), ENV 4310 (World Food Problems),
(Bioinstrumentation)3	ENV 4345 (Water Management)
ONE from following – EGR 3V95; BME 4353,	·
4357, 4372, 4374, 4376, 4378, 4V97	ONE from following: REL 3382 (Cross-Cultural
Geo-Petro Concentration	Ministry), PSC/AST 3314 (Politics & Problems of Dev. Countries), REL 3345 (World Religions),
• Engineering Electives	ENV 4350 (Development & Indigenous Peoples),
ME 3320: Strength of Materials3	REL 4340 (Christian Missions)
ELC 4351: Dig Signal Processing	RLL 4540 (Christian Missions)
ME 3321: Fluid Dynamics	ONE from following: MGT/ENT 4353 (Social
GEO 4V90 (Numerical Modeling) or GEO 4459	Entrepreneurship & Econ Development),
(Engineering Geology)3-4	ECO 3355 (Intro to Econ of Poverty &
• Concentration Electives	Discrimination)3
GEO 1405: The Dynamic Earth4	
GEO 1306/1106: Earth Through Time	Minor Option
GEO 3442: Stratigraphy-Sedimentology4	ELC/ME/BME 33XX: Elective 13
GEO 3445: Structural Geology4	ELC/ME/BME 33XX: Elective 23
GEO 4458 (Geophysical Exploration II) or GEO	ELC/EGR/ME/BME 43XX: Elective 33
4465 (Petroleum Geology) or GEO 4361	ELC/EGR/ME/BME 43XX: Elective 43
(Concepts of Petroleum Geoscience)3-4	
Environmental Concentration	Students may choose any minor offered by Baylor
• Engineering Electives	
ME 3345: Advanced Thermodynamics	
ELC 4351: Dig Signal Processing	with the exception of Engineering or Mathematics.
ME 3321: Fluid Dynamics	with the exception of Engineering or Mathematics. Concentration electives will be fulfilled by courses
	with the exception of Engineering or Mathematics.
ME 4345: Heat Transfer	with the exception of Engineering or Mathematics. Concentration electives will be fulfilled by courses required for the minor
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ME 4345: Heat Transfer3 • Concentration Electives	with the exception of Engineering or Mathematics. Concentration electives will be fulfilled by courses required for the minor
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ENV 4345: Water Management3