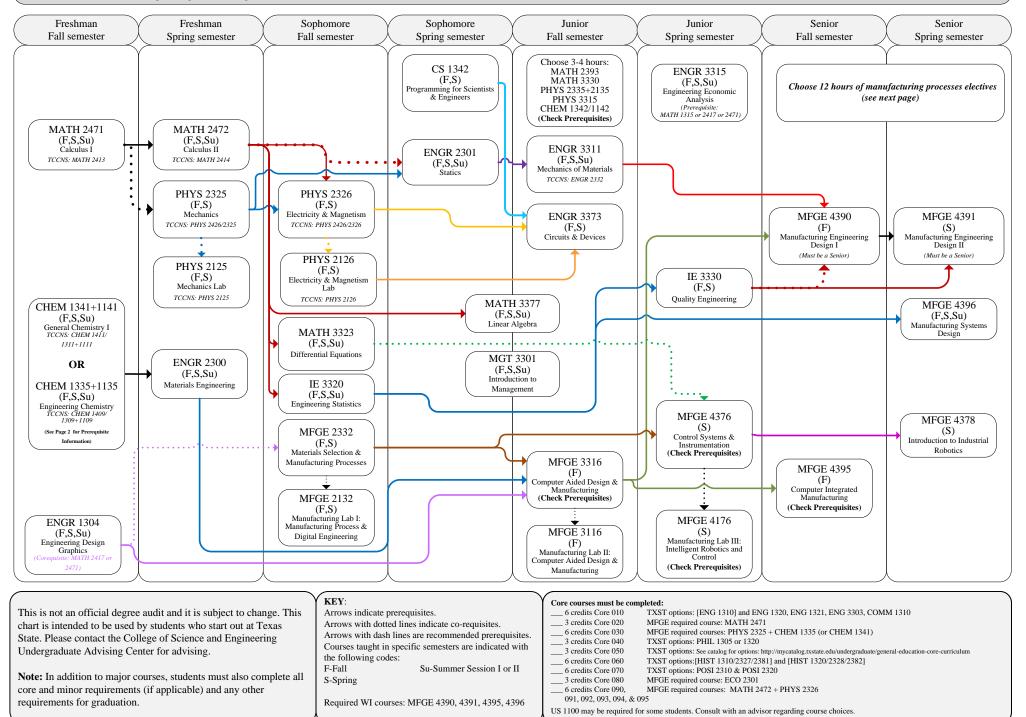
BS – Manufacturing Engineering

(SC-BS/MFGE)

2025 Catalog year: College of Science and Engineering



Choose 12 credits MFGE Elective Options (check prerequisites):			
Smart Manufacturing focus: MFGE 4318 – Additive Manufacturing MFGE 4377 – Intro to Polymer Nanocomposites MFGE 4367 – Polymer Properties & Processing MFGE 4365 – Tool Design	Auto & Aero focus: MFGE 4318 – Additive Manufacturing MFGE 4377 – Intro to Polymer Nanocomposites MFGE 4355 – Design of Machine Elements MFGE 4357 – Dynamics of Machinery MFGE 4367 – Polymer Properties & Processing MFGE 4315 – Energy & Thermofluids Engineering MFGE 4365 – Tool Design		Semiconductor Manufacturing focus: MFGE 4318 – Additive Manufacturing MFGE 4315 – Energy & Thermofluids Engineering
Students may also choose a maximum of 3 credits from:			
EE 4331 – Intro to Machine Learning for Engineering Applications EE 4392 – Microelectronics Manufacturing I EE 4394 – Microelectronics Manufacturing II IE 4355 – Facilities Planning IE 3360 – Human Factors Design TECH 4330 – Foundry & Heat Treatment		ENGR 3190 – Cooperative Education ENGR 3290 – Cooperative Education ENGR 4299 – Engineering Undergraduate Research ENGR 4395 – Independent Studies in Engineering	

CHEM 1335 or 1341 Prerequisite Requirements: Must complete 1 of the following mathematics prerequisites: • MATH 1315 or MATH 1317 or MATH 1319 or MATH 1329 or MATH 2321 or MATH 2417 or MATH 2471 - any with a grade of "C" or better • ACT Mathematics score of 24 or better • New ACT Mathematics score of 25 or better • New ACT Mathematics score of 25 or better • SAT Mathematics score of 550 or better • Accuplacer College Mathematics score of 86 or better • Compass College Algebra score of 46 or better • Next-Generation Advanced Algebra and Functions Test of 263 or better Must complete 1 of the following to demonstrate

Chemistry Readiness:

- Completion of Chemistry Readiness Exam with a score of 80 or better
- CHEM 1320 grade of "C" or better