

Bachelor of Science Degree

Mechanical Engineering Technology (MET) Based on 2024-2025 catalog

First Year		Second Year		Third Year		Fourth Year	
First Semester FALL	Second Semester SPRING	Third Semester FALL	Fourth Semester SPRING	Fifth Semester FALL	Sixth Semester SPRING	Seventh Semester FALL	Eighth Semester SPRING
ENGL 1301 3 Comm First Year Writing I <small>P: app score on TSI</small>	ENGL 1302 3 Comm First Year Writing I <small>P: ENGL 1301 or equivalent</small>	*MECT 2354 3 major Introduction to Mechanics <small>P: C-in PHYS 1301/1101 & MATH 2414</small>	*MECT 3358 3 major Dynamics of Mechanisms <small>P: Min of C- in MECT 1330, 2354 & MATH 2414</small>	*MECT 3331 3 major Applied Thermodynamics <small>P: Min of C- in MECT 3358 & PHYS 1302</small>	*MECT 3342 3 major Elements of Plant Design <small>P: Min of C- in MECT 1330, 3318 & 3331</small>	*MECT 4275 2 major Senior Design Project I <small>P: C- in MECT 3358, 3342, 3365</small>	*MECT 4276 2 major Senior Design Project II <small>P: C- in MECT 4275</small>
MATH 2413 4 MATH Calculus I <small>P: C- or better in MATH 2312 or satisfactory score on placement exam</small>	MATH 2414 4 MATH Calculus II <small>P: C- or better in MATH 2413</small>	*MECT 1330 3 major Engineering Graphics <small>P: Computer Knowledge</small>	*MECT 1364 3 major Materials & Processes I <small>P: None</small>	*MECT 3355/3155 4 major Strength of Materials & Lab <small>P: Min of C- in MECT 2354 & MATH 2414</small>	*MECT 3365 3 major Computer-Aided Design I <small>P: Min of C- in MECT 3355, 1330 & 1364 or equivalents</small>	*MECT 4372/4172 4 major Materials Technology & Lab <small>P: Min of C- in MECT 3355 and enrolled in MECT 4172</small>	*MECT 4188 1 major Ethics in Engineering Technology <small>P: Senior status</small>
PHYS 1301/1101 4 NS College Physics I & Lab <small>P: MATH 2312 or equiv</small>	PHYS 1302 3 NS College Physics II <small>P: PHYS 1301</small>	HIST 1302 3 Hist The U.S. since 1877 <small>P: None</small>	ELET 3300 3 Math Applied Math in ET OR MATH 3321 Engineering Math <small>P: C- or better in MATH 2414</small>	*MECT3318/3118 4 major Fluid Mechanic Applications & Lab <small>P: Min of C- MECT 3358 & MATH 2414</small>	*MECT 3367 3 major Quality Control Technology <small>P: Min of C- in MECT 1364 & MATH 2312 or equivalents</small>	*MECT 4331 3 major Heat Transfer App <small>P: Min of C- in MECT 3318 & 3331</small>	*MECT ELEC 3 major Approved Elective <small>Choose from approved list</small>
HIST 1301 3 Hist The U.S. to 1877 <small>P: None</small>	CHEM 1305/1105 4 NS Foundations of Chemistry I <small>P: enrolled or completed MATH 1314 or 1332</small>	3 SS Creative Arts <small>Choose from core approved list</small>	CORE 3 SS Social & Beh Sci or OR TECH 1313 <small>P: enrolled or completed MATH & ENGL core course</small>	*ELET 2307 3 major Electrical-Electronic Circuits <small>P: Completed or enrolled MATH 2312</small>	*MECT 3360 3 major Automated Manufacturing Systems <small>P: Min of C- in MECT 1364</small>	*MECT 4131 1 major Thermal Sciences Lab <small>P: credit for or enrolled in MECT 4331</small>	*MECT ELEC 3 major Approved Elective <small>Choose from approved list</small>
GOVT 2305 3 POLS US Government <small>P: None</small>	GOVT 2306 3 POLS US & Texas Const & Politics <small>P: None</small>	3 math Lang, Phil & Culture <small>Choose from core approved list</small>	ELET 2300 3 math Introduction To C++ Programming <small>P: MATH 2312</small>	*TLIM 3363 3 WID Technical Communication <small>P: C- or better ENGL 1302</small>	*TLIM 3340 3 major Organizational Leadership and Supervision <small>P: Enrolled or Taken TLIM 3363</small>	*MECT ELEC 3 major Approved Elective <small>Choose from approved list</small>	Free ELEC 3 Free elective
16	17	16	17	15	15	16	12
Total credit hours required =						124	

Design, Manufacturing, & Automation Electives

- *MECT 3330 P: MECT 1330
- MECT 3362 P: C- in MECT 1330 & MATH 2312 or equiv
- *MECT 3364 P: MECT 1364
- *MECT 3368 P: MATH 2413
- MECT 4323 P: C- in MATH 2414 & MECT 3355
- MECT 4350 P: C- in ELET 2307 & MECT 3358 or equiv
- *MECT 4364 P: MECT 3360
- MECT 4365 P: C- in MECT 3365 or equiv
- *MECT 4368 P: MECT 3367
- MECT 4384 P: C- in MECT 3360 or equiv
- MECT 4397 P: Approval of dept. chair

Materials & Energy Electives

- MECT 3345 P: C- in TECH 1325 ,MECT 3331
- MECT 4326 P: C- in MECT 3358 & 3365
- MECT 4328 P: C- in MECT 3318 & 3365
- MECT 4330 P: C- in MECT 3365
- MECT 4341 P: C- in MECT 3365 & 4372
- MECT 4343 P: C- in MECT 3331 & 4372
- MECT 4345 P: CHEM 1305 & C- in MECT 3318
- MECT 4397 P: Approval of dept. chair

- Major courses
- Free Elective
- Core courses
- Departmental requirements
- * taught in Sugar Land

Courses required for Degree are based on catalog year student declares major, please verify this is the correct course sequence. Prerequisites for course are effective at the time student enrolls in coursework and may change, please check catalog for current prerequisites.