

		I	H	Course #	Course Title	Min. Grade	GEC	Prerequisite	Additional Notes																																																																																																																								
FIRST YEAR	FALL		3	Choose 1	Communication (Core)	C	010	For all 010 courses: Satisfactory scores on ENGL portion of ACT test or TSI reading/writing exams or ENGL 0301. For ENGL 1302, a grade of "C" or better in ENGL 1301.	See General Education Core for more details Options: ENGL 1301																																																																																																																								
			4	MATH 2413	Calculus I (Core)	C	020	MATH 2412 with a grade of 'C' or better; or passing the Precalculus Exemption Test administered by the Department of Mathematics.	See General Education Core for more details.																																																																																																																								
			2	ENGT 1201	Foundations of Engineering Technology																																																																																																																												
			3	ENGT 1310	Design Graphics I																																																																																																																												
			3	CHEM 1311	General Chemistry I				MATH 1314, MATH 1414, MATH 1342, MATH 1343, MATH 2412, or MATH 2413 with a grade of "C" or higher."	or CHEM 1309																																																																																																																							
			1	CHEM 1111	General Chemistry I Lab (Core)			090	Credit/Registration in CHEM 1311	or CHEM 1109																																																																																																																							
					UNIV	1301 Learning Framework 1101 Academic and Career Success 1001 Living and Working by Design				As required, based on credit hours earned, TSI status, High School rank, major declaration.																																																																																																																							
16 Semester Total Hours																																																																																																																																	
FIRST YEAR	SPRING		3	ENGT 1320	Design Graphics II			ENGT 1310																																																																																																																									
			4	MATH 2414	Calculus II	C		MATH 2413 with a grade of 'C' or better.																																																																																																																									
			4	PHYS 1401	General Physics I/Lab I			030	MATH 1414, MATH 1314, MATH 2412, or MATH 2413.	1 hour of lab to count for 090 Core; Or may select PHYS 2425. Prerequisite: MATH 2413 and concurrent enrollment in MATH 2414.																																																																																																																							
			3	ENGT 2307	Engineering Materials				CHEM 1311 or CHEM 1309																																																																																																																								
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<table border="1"> <thead> <tr> <th colspan="2"></th> <th>I</th> <th>H</th> <th>Course #</th> <th>Course Title</th> <th>Min. Grade</th> <th>GEC</th> <th>Prerequisite</th> <th>Additional Notes</th> </tr> </thead> <tbody> <tr> <td rowspan="6">SECOND YEAR</td> <td rowspan="6"></td> <td></td> <td>1</td> <td>ENGT 1105</td> <td>Machine Shop Lab</td> <td></td> <td></td> <td>ENGT 1310</td> <td></td> </tr> <tr> <td></td> <td>3</td> <td>MANE 3332</td> <td>Engineering Statistics</td> <td></td> <td></td> <td></td> <td>MATH 2413 and credit for or enrollment in MATH 2414.</td> </tr> <tr> <td></td> <td>4</td> <td>PHYS 1402</td> <td>General Physics II/Lab II</td> <td></td> <td></td> <td>030</td> <td>PHYS 1401.</td> <td>1 hour of lab to count for 090 Core; Or may select PHYS 2426. Prerequisite: PHYS 2425</td> </tr> <tr> <td></td> <td>3</td> <td>Choose 1</td> <td>Communication (Core)</td> <td></td> <td></td> <td>010</td> <td></td> <td>See General Education Core for more details Options: ENGL 1302 or ENGL 1305</td> </tr> <tr> <td></td> <td>3</td> <td>CSCI 1380</td> <td>Computer Science I</td> <td></td> <td></td> <td>090</td> <td>Concurrent enrollment or credit for MATH 1314 or higher level mathematics course.</td> <td></td> </tr> <tr> <td colspan="10">14 Semester Total Hours</td> </tr> <tr> <td rowspan="5">SECOND YEAR</td> <td rowspan="5">SPRING</td> <td></td> <td>3</td> <td>ENGT 2310</td> <td>Manufacturing Processes</td> <td></td> <td></td> <td>ENGT 2307.</td> <td></td> </tr> <tr> <td></td> <td>3</td> <td>ENGT 2321</td> <td>Industrial Electronics</td> <td></td> <td></td> <td></td> <td>PHYS 1402 or 2426 and MATH 2413</td> </tr> <tr> <td></td> <td>3</td> <td>Choose 1</td> <td>Social and Behavioral Sciences (Core)</td> <td></td> <td></td> <td>080</td> <td></td> <td></td> </tr> <tr> <td></td> <td>2</td> <td>ENGT 2201</td> <td>Programming for Engineering Applications</td> <td></td> <td></td> <td></td> <td>CSCI 1380</td> <td></td> </tr> <tr> <td></td> <td>3</td> <td>ENGT 3303</td> <td>Prog. Logic Controllers</td> <td></td> <td></td> <td></td> <td>ENGT 2321</td> <td></td> </tr> <tr> <td colspan="10">14 Semester Total Hours</td> </tr> </tbody> </table>												I	H	Course #	Course Title	Min. Grade	GEC	Prerequisite	Additional Notes	SECOND YEAR			1	ENGT 1105	Machine Shop Lab			ENGT 1310			3	MANE 3332	Engineering Statistics				MATH 2413 and credit for or enrollment in MATH 2414.		4	PHYS 1402	General Physics II/Lab II			030	PHYS 1401.	1 hour of lab to count for 090 Core; Or may select PHYS 2426. Prerequisite: PHYS 2425		3	Choose 1	Communication (Core)			010		See General Education Core for more details Options: ENGL 1302 or ENGL 1305		3	CSCI 1380	Computer Science I			090	Concurrent enrollment or credit for MATH 1314 or higher level mathematics course.		14 Semester Total Hours										SECOND YEAR	SPRING		3	ENGT 2310	Manufacturing Processes			ENGT 2307.			3	ENGT 2321	Industrial Electronics				PHYS 1402 or 2426 and MATH 2413		3	Choose 1	Social and Behavioral Sciences (Core)			080				2	ENGT 2201	Programming for Engineering Applications				CSCI 1380			3	ENGT 3303	Prog. Logic Controllers				ENGT 2321		14 Semester Total Hours									
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THIRD YEAR	FALL	3	ENGT 3318	Instruments and Transducers			ENGT 3303		
		3	ENGT 3301	Computer Numerical Control			ENGT 1105, ENGT 1320, and ENGT 2307		
		3	ENGT 3315	Fluid Power Systems			ENGT 1310, ENGT 2321, and PHYS 1402 or 2426		
		3	Choose 1	American History (Core)		060		See General Education Core for more details. Options: HIST 1301 or HIST/MASC 2327.	
		3	ENGT 3313	Intro to Systems Engineering			CSCI 1380		
		15 Semester Total Hours							
	SPRING	3	MANE 3337	Engineering Economics			Credit/registration in MANE 3332		
		3	ENGT 4315	Robotics			ENGT 3303		
		3	ENGT 3320	Networked Systems in Manufacturing			ENGT 2321 & ENGT 2310		
		3	Choose 1	American History (Core)		060		See General Education Core for more details. Options: HIST 1302 or HIST/MASC 2328.	
		3	Choose 1	ENGT Practicum				ENGT 3305 or three instances of ENGT 3105. Full time one semester internship or three semesters of part-time internship/research. Best done in summer.	
		2	ENGT 4201	Technical Project I			ENGT 2310, ENGT 3303, credit for/enrollment in ENGT 3318		
	17 Semester Total Hours								
	FOURTH YEAR	FALL	2	ENGT 4310	System Simulation and Optimization			ENGT 3313	
			3	Choose 1	Advanced Engineering Technology Elective				ENGT 3300, ENGT 3310, ENGT 3321, ENGT 4311, ENGT 4312
			3	ENGT 4322	Mechatronic Systems Design			ENGT 3310	
			3	ENGT 4335	Project Management			MANE 3337, ENGT 3324.	
3			POLS 2305	U.S. Federal Govt & Politics		070			
14 Semester Total Hours									
SPRING		3	PHIL 2326	Ethics, Technology and Society (Core)		040			
		2	ENGT 4202	Technical Project II			ENGT 4201		
		3	ENGT 4326	Quality Control & Lean Six Sigma			MANE 3332	Co-requisite: ENGT 4126	
		3	POLS 2306	Texas Government & Politics		070			
		3	Choose 1	Creative Arts (Core)		050			
		1	ENGT 4126	Metrology Lab			ENGT 1320, MANE 3332, ENGT 3301		
15 Semester Total Hours									

Symbols Key

Critical (!): sequence sensitive course.

Minimum Grade: A - Excellent; B - Good; C - Satisfactory; D - Below Average;

CR - Credit; P - Passing; S - Satisfactory.

General Education Core (GEC) Sections: 010 - Communication; 020 - Mathematics; 030 - Life and Physical Sciences; 040 - Language, Philosophy & Culture; 050 - Creative Arts; 060 - American History; 070 - Government/Political Science; 080 - Social and Behavioral Sciences; 090 - Applied Communication and Literacies; 090 - Humanities; 090 - Leadership; 090 - Science Labs; 090 - Interdisciplinary ; 090 - Technologies; 090 - Language Diversity & Writing.

120 TOTAL HOURS (42 advanced minimum credit hours)

Approved: Friday, March 27, 2020
Revised: Monday, February 8, 2021