

Bachelor of Science in Manufacturing Engineering Manufacturing Engineering

	Н	Course #	Course Title	Min. Grade	EC Prerequisite	Additional Notes
	3	Choose 1	Communication (Core)	C 0	For all 010 courses: Satisfactory scores on English portion of ACT test and 10 TSI examination or ENGL 0301. For ENGL 1302, a grade of "C" or better in ENGL 1301.	See General Education Core for more details Option: ENGL 1301
	4	MATH 2413	Calculus I	C 0	MATH 2412 with a grade of ICI or better, or possing the Braceloulus	
ب	3	CSCI 1380	Introduction to Programming	C 0	Concurrent enrollment or credit for MATH 1314 or higher level mathematics course.	
FAL	3	CHEM 1309	Chemistry for Engineers	С	MATH 1314, MATH 1414, MATH 2412 or MATH 2413 with a grade of "C" or higher.	
	1	CHEM 1109	Chemistry for Engineers Lab (Core)	C 0	Oredit/registration in CHEM 1309	
YEAR		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.
RST	14	Semester Total Ho	purs		5 11010 5 111 11 11	
⊏	3	Choose 1	Communication (Core)	C 0	For all 010 courses: Satisfactory scores on English portion of ACT test and TSI examination or ENGL 0301. For ENGL 1302, a grade of "C" or better in ENGL 1301.	See General Education Core for more details Options: ENGL 1302 or ENGL 1305
	4	MATH 2414	Calculus II	С	MATH 2413 with a grade of 'C' or better.	
SPRING	1	MANE 1101	Introduction to Manufacturing Engineering			
g.	3	MANE 3332	Engineering Statistics	С	MATH 2413 and credit for or enrollment in MATH 2414.	
	2	MANE 1204	Manufacturing Engineering Graphics			
	3	Choose 1	Social and Behavioral Sciences (Core)	0	30	See General Education Core Curriculum for options
		Semester Total Ho		Min.	TO Down 1/2	A LPC I Note:
	16 H	Course #	Course Title	Grade	EC Prerequisite	Additional Notes
				C	MATH 2414 and CSCI 1380	Additional Notes
-	Н	Course #	Course Title	C O	MATH 2414 and CSCI 1380	Additional Notes 1 hour lab to count for 090 Core
	3	Course # MANE 3351	Course Title Manufacturing Engineering Analysis	C	MATH 2414 and CSCI 1380	
FALL	3 4	Course # MANE 3351 PHYS 2425	Course Title Manufacturing Engineering Analysis Physics for Scientists and Engineers I	C O	MATH 2414 and CSCI 1380 MATH 2413.	
EAR FALL	3 4 3	Course # MANE 3351 PHYS 2425 MANE 4311	Course Title Manufacturing Engineering Analysis Physics for Scientists and Engineers I Quality Control	C O	MATH 2414 and CSCI 1380 MATH 2413. MANE 3332 A grade of 'C' or better in CHEM 1309 and CHEM 1109; a grade of 'C' or	
OND YEAR FALL	H 3 4 3 1 1 3	Course # MANE 3351 PHYS 2425 MANE 4311 MECE 2340 MECE 2140 MANE 3300	Course Title Manufacturing Engineering Analysis Physics for Scientists and Engineers I Quality Control Engineering Materials Engineering Materials Laboratory Computer-Aided Design	C O	MATH 2414 and CSCI 1380 MATH 2413. MANE 3332 A grade of 'C' or better in CHEM 1309 and CHEM 1109; a grade of 'C' or better or concurrent enrollment in MECE 2140. A grade of 'C' or better in CHEM 1309 and CHEM 1109; a grade of 'C' or	
ECOND YEAR FALL	H 3 4 3 1 1 3	Course # MANE 3351 PHYS 2425 MANE 4311 MECE 2340 MECE 2140	Course Title Manufacturing Engineering Analysis Physics for Scientists and Engineers I Quality Control Engineering Materials Engineering Materials Laboratory Computer-Aided Design	C C C	MATH 2414 and CSCI 1380 MATH 2413. MANE 3332 A grade of 'C' or better in CHEM 1309 and CHEM 1109; a grade of 'C' or better or concurrent enrollment in MECE 2140. A grade of 'C' or better in CHEM 1309 and CHEM 1109; a grade of 'C' or better or concurrent enrollment in MECE 2340.	
SECOND YEAR FALL	H 3 4 3 1 1 3	Course # MANE 3351 PHYS 2425 MANE 4311 MECE 2340 MECE 2140 MANE 3300	Course Title Manufacturing Engineering Analysis Physics for Scientists and Engineers I Quality Control Engineering Materials Engineering Materials Laboratory Computer-Aided Design	C C C	MATH 2414 and CSCI 1380 MATH 2413. MANE 3332 A grade of 'C' or better in CHEM 1309 and CHEM 1109; a grade of 'C' or better or concurrent enrollment in MECE 2140. A grade of 'C' or better in CHEM 1309 and CHEM 1109; a grade of 'C' or better or concurrent enrollment in MECE 2340.	
SECOND YEAR	H 3 4 3 1 1 3	Course # MANE 3351 PHYS 2425 MANE 4311 MECE 2340 MECE 2140 MANE 3300 Semester Total Ho	Course Title Manufacturing Engineering Analysis Physics for Scientists and Engineers I Quality Control Engineering Materials Engineering Materials Laboratory Computer-Aided Design	C C C	MATH 2414 and CSCI 1380 MATH 2413. MANE 3332 A grade of 'C' or better in CHEM 1309 and CHEM 1109; a grade of 'C' or better or concurrent enrollment in MECE 2140. A grade of 'C' or better in CHEM 1309 and CHEM 1109; a grade of 'C' or better or concurrent enrollment in MECE 2340. MANE 1204	
SECOND YEAR	H 3 4 3 1 1 3 17 4	Course # MANE 3351 PHYS 2425 MANE 4311 MECE 2340 MECE 2140 MANE 3300 Semester Total Ho MATH 2415	Course Title Manufacturing Engineering Analysis Physics for Scientists and Engineers I Quality Control Engineering Materials Engineering Materials Laboratory Computer-Aided Design	C	MATH 2414 and CSCI 1380 MATH 2413. MANE 3332 A grade of 'C' or better in CHEM 1309 and CHEM 1109; a grade of 'C' or better or concurrent enrollment in MECE 2140. A grade of 'C' or better in CHEM 1309 and CHEM 1109; a grade of 'C' or better or concurrent enrollment in MECE 2340. MANE 1204 MATH 2414 with a grade of 'C' or better.	
SECOND YEAR SPRING FALL	H 3 4 3 3 1 1 3 17 4 3	MANE 3351 PHYS 2425 MANE 4311 MECE 2340 MECE 2140 MANE 3300 Semester Total Ho MATH 2415 MANE 4340	Course Title Manufacturing Engineering Analysis Physics for Scientists and Engineers I Quality Control Engineering Materials Engineering Materials Laboratory Computer-Aided Design ours Calculus III Operations Research	C	MATH 2414 and CSCI 1380 MATH 2413. MANE 3332 A grade of 'C' or better in CHEM 1309 and CHEM 1109; a grade of 'C' or better or concurrent enrollment in MECE 2140. A grade of 'C' or better in CHEM 1309 and CHEM 1109; a grade of 'C' or better or concurrent enrollment in MECE 2340. MANE 1204 MATH 2414 with a grade of 'C' or better. Grade of 'C' or better in MANE 3351.	1 hour lab to count for 090 Core
SECOND YEAR	H 3 4 3 3 1 1 3 17 4 3 4 3 3 4 3 3	Course # MANE 3351 PHYS 2425 MANE 4311 MECE 2340 MECE 2140 MANE 3300 Semester Total Ho MATH 2415 MANE 4340 PHYS 2426	Course Title Manufacturing Engineering Analysis Physics for Scientists and Engineers I Quality Control Engineering Materials Engineering Materials Laboratory Computer-Aided Design ours Calculus III Operations Research Physics for Scientists and Engineers II Engineering Economics Fundamentals of Industrial Engineering	C C C C 03	MATH 2414 and CSCI 1380 MATH 2413. MANE 3332 A grade of 'C' or better in CHEM 1309 and CHEM 1109; a grade of 'C' or better or concurrent enrollment in MECE 2140. A grade of 'C' or better in CHEM 1309 and CHEM 1109; a grade of 'C' or better or concurrent enrollment in MECE 2340. MANE 1204 MATH 2414 with a grade of 'C' or better. Grade of 'C' or better in MANE 3351. PHYS 2425 and MATH 2414.	1 hour lab to count for 090 Core

!	Н	Course #	Course Title	Min. G	EC Prerequisite	Additional Notes
	3	Choose 1	American History (Core)	0	60	See General Education Core for more details. Options: HIST 1301 or HIST 2327
	3	MANE 4331	Manufacturing Planning and Control	С	Grade of 'C' or better in MANE 4340.	
	4	MANE 2403	Engineering Mechanics	С	Grade of 'C' or better in PHYS 2425.	
FAL	3	MATH 3341	Differential Equations		MATH 2414 with a grade of 'C' or better.	
	3	MANE 3364	Manufacturing Processes	С	MECE 2140 and 2340.	
EAR	1	MANE 3164	Manufacturing Processes Lab		Credit for MECE 2140 and credit/registration in MANE 3364. MECE 2340 may not be taken concurrently.	
6	17 5	Semester Total Hou	irs		,	
盖	3	Choose 1	American History (Core)	0	60	See General Education Core for more details. Options: HIST 1302 or HIST 2328
	3	MECE 3321	Mechanics of Solids		A grade of C or better in MATH 2414 and MANE 2403.	
S	3	MANE 43XX or MANE 33XX	Prescribed Elective I			Advanced MANE course not being used to fulfill other degree requirements
SPRING	1	MANE 4173	Product Design and Mass Customization	С	MANE 3337.	
	3	MANE 3302	Computer-Aided Manufacturing		Credit/registration in MANE 3364.	
	3	MANE 4444	Modern Manufacturing Processes		Grade of 'C' or better in [MANE 3300, MANE 3337, MANE 3340, and MANE 3364].	
	16.5	Semester Total Hou	ire			
		Jointoolor Tolai 1100	113			
!	Н	Course #	Course Title	Min. G	EC Prerequisite	Additional Notes
!					EC Prerequisite 70	Additional Notes
!	Н	Course #	Course Title	0		Additional Notes See General Education Core Curriculum for options
!	н 3	Course # POLS 2305	Course Title U.S. Federal Govt & Politics	0	70	
FALL	Н 3 3	Course # POLS 2305 Choose 1	Course Title U.S. Federal Govt & Politics Creative Arts (Core)	0	70 50	See General Education Core Curriculum for options
	3 3 3	Course # POLS 2305 Choose 1 EECE 2317	Course Title U.S. Federal Govt & Politics Creative Arts (Core) Electrical and Electronic Systems	0	Grade of C or better in: PHYS 2426. Grade of 'C' or better in [MANE 3337 and MANE 3340] and credit for/registration in [MANE 4173, MANE 4311, MANE 4352 and MANE	See General Education Core Curriculum for options
	3 3 3	Course # POLS 2305 Choose 1 EECE 2317 MANE 4361 MANE 43XX or	Course Title U.S. Federal Govt & Politics Creative Arts (Core) Electrical and Electronic Systems Senior Design I	0	Grade of C or better in: PHYS 2426. Grade of 'C' or better in [MANE 3337 and MANE 3340] and credit for/registration in [MANE 4173, MANE 4311, MANE 4352 and MANE	See General Education Core Curriculum for options Advanced MANE course not being used to fulfill other
	3 3 3 3 3	POLS 2305 Choose 1 EECE 2317 MANE 4361 MANE 43XX or MANE 33XX	Course Title U.S. Federal Govt & Politics Creative Arts (Core) Electrical and Electronic Systems Senior Design I Prescribed Elective II Manufacturing Simulation	0	Grade of C or better in: PHYS 2426. Grade of 'C' or better in [MANE 3337 and MANE 3340] and credit for/registration in [MANE 4173, MANE 4311, MANE 4352 and MANE 4331].	See General Education Core Curriculum for options Advanced MANE course not being used to fulfill other
	3 3 3 3 3	POLS 2305 Choose 1 EECE 2317 MANE 4361 MANE 43XX or MANE 33XX MANE 4352	Course Title U.S. Federal Govt & Politics Creative Arts (Core) Electrical and Electronic Systems Senior Design I Prescribed Elective II Manufacturing Simulation	0 0	Grade of C or better in: PHYS 2426. Grade of 'C' or better in [MANE 3337 and MANE 3340] and credit for/registration in [MANE 4173, MANE 4311, MANE 4352 and MANE 4331].	See General Education Core Curriculum for options Advanced MANE course not being used to fulfill other
FOURTH YEAR FALL	3 3 3 3 3 3	POLS 2305 Choose 1 EECE 2317 MANE 4361 MANE 43XX or MANE 33XX MANE 4352 Semester Total Hot	Course Title U.S. Federal Govt & Politics Creative Arts (Core) Electrical and Electronic Systems Senior Design I Prescribed Elective II Manufacturing Simulation Irs	0 0	Grade of C or better in: PHYS 2426. Grade of 'C' or better in [MANE 3337 and MANE 3340] and credit for/registration in [MANE 4173, MANE 4311, MANE 4352 and MANE 4331]. Grade of 'C' or better in MANE 3332.	See General Education Core Curriculum for options Advanced MANE course not being used to fulfill other
FOURTH YEAR FALL	H 3 3 3 3 3 3 18 5	POLS 2305 Choose 1 EECE 2317 MANE 4361 MANE 43XX or MANE 33XX MANE 4352 Semester Total Hou POLS 2306 MANE 43XX or MANE 4XXX or MANE 4XX or MANE 4XXX or MANE 4XXX or MANE 4XXX or MA	Course Title U.S. Federal Govt & Politics Creative Arts (Core) Electrical and Electronic Systems Senior Design I Prescribed Elective II Manufacturing Simulation Irs Texas Government & Politics	0 0	Grade of C or better in: PHYS 2426. Grade of 'C' or better in [MANE 3337 and MANE 3340] and credit for/registration in [MANE 4173, MANE 4311, MANE 4352 and MANE 4331]. Grade of 'C' or better in MANE 3332.	See General Education Core Curriculum for options Advanced MANE course not being used to fulfill other degree requirements Advanced MANE course not being used to fulfill other degree requirements
	H 3 3 3 3 3 18 §	POLS 2305 Choose 1 EECE 2317 MANE 4361 MANE 43XX or MANE 33XX MANE 4352 Semester Total Hou POLS 2306 MANE 43XX or MANE 43XX or MANE 33XX	Course Title U.S. Federal Govt & Politics Creative Arts (Core) Electrical and Electronic Systems Senior Design I Prescribed Elective II Manufacturing Simulation Irs Texas Government & Politics Prescribed Elective III	0 0 0	Grade of C or better in: PHYS 2426. Grade of 'C' or better in [MANE 3337 and MANE 3340] and credit for/registration in [MANE 4173, MANE 4311, MANE 4352 and MANE 4331]. Grade of 'C' or better in MANE 3332.	See General Education Core Curriculum for options Advanced MANE course not being used to fulfill other degree requirements Advanced MANE course not being used to fulfill other degree requirements
FOURTH YEAR FALL	3 3 3 3 3 3 3 3 4	POLS 2305 Choose 1 EECE 2317 MANE 4361 MANE 43XX or MANE 33XX MANE 4352 Semester Total Hou POLS 2306 MANE 43XX or MANE 4322	Course Title U.S. Federal Govt & Politics Creative Arts (Core) Electrical and Electronic Systems Senior Design I Prescribed Elective II Manufacturing Simulation Irs Texas Government & Politics Prescribed Elective III Robotics & Industry Automation	0 0 0	Grade of C or better in: PHYS 2426. Grade of 'C' or better in [MANE 3337 and MANE 3340] and credit for/registration in [MANE 4173, MANE 4311, MANE 4352 and MANE 4331]. Grade of 'C' or better in MANE 3332. Grade of 'C' or better in either [MANE 2403 or MECE 2301 or ENGR 2301] and credit/registration in MATH 3341.	See General Education Core Curriculum for options Advanced MANE course not being used to fulfill other degree requirements Advanced MANE course not being used to fulfill other degree requirements

CORE: The 2023-2024 list of core courses can be found in the 2023-2024 Undergraduate Catalog: www.utrgv.edu/catalog > See 'Core Curriculum'

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.