

UH-MECHANICAL ENGINEERING: BSME DEGREE PLAN

Effective: Fall 2023 (128 Total Credit Hours)

Name: _____
UH ID: _____

Fall	1	MATH 2312 MATH 2413*	CHEM 1111 CHEM 1311	MATH 2312 CHEM 1311	ENGI 1100 MATH 2413	ENGL 1301	GOVT 2306
	Spring	2	MATH 2413 MATH 2414*	CHEM 1111 CHEM 1112 CHEM 1312	CHEM 1311 CHEM 1312	ENGI 1100 + MATH 2413 + CHEM 1311/PHYS 2325 ENGI 1331	ENGL 1301 ENGL 1302
Fall	3	MATH 2414 MATH 2415*	PHYS 2325 PHYS 2326 MATH 2415	PHYS 2325, ENGI 1331 MECE 2336 (H) OR ENGR 2301 MATH 2415		GOVT 2305	LANG/PHIL/ CULTURE CORE
Spring	4	MATH 2414 MATH 3321	PHYS 2326, MATH 2415, CHEM 1112, CHEM 1312, ENGI 1331 MECE 2334	MECE 2336 OR ENGR 2301, ENGI 1331, MATH 2415 MECE 3336 MATH 3321	ENGI 1100 MECE 2361 ENGI 2304, MECT 3341	ENGI 1100, ENGL 1302, ENGR 2301 ENGI 2304	
Fall	5	MATH 2415, 3321 MATH 3363	CHEM 1112, 1312, MECE 2334 MECE 3345	MECE 3336 MECE 3369 MATH 3363	MECE 2361, 3336 MECE 3338	HIST 1301	SOC/BEH CORE
Spring	6		MECE 3345, ENGI 2304 MECE 3245	MECE 3369 MECE 3381 MATH 3363	MECE 2334, MECE 3336 MECE 3363 MATH 3363	MECE 2334, 3336, ENGI 2304 MECE 3360	HIST 1302 CREATIVE ARTS CORE
Fall	7	SENIOR STANDING IN MECH ENGR MECE ELEC		MATH 3363 MECE 4331 MECE 3381	MATH 3363, MECE 3363 MECE 4364	MECE 2334 MECE 4343 MECE 4364	MECE 3338, 3245, 3345, 3360, 3381 MECE 4340 MECE 4331, 4364
Spring	8	SENIOR STANDING IN MECH ENGR MECE ELEC	MECE 3360, 4364 MECE 4371 OR MECE4372		SENIOR STANDING IN MECH ENGR MECE ELEC	SENIOR STANDING IN MECH ENGR MECE ELEC	MECE 4340 MECE 4341

Course that can be taken outside UH

Experimental lab

* Can be replaced with MATH 1450 + 1451

Engineering course

Mechanics course

Materials course

Thermo-fluids course

Controls course

Capstone

MECE *** ← **Pre-req courses**

MECE ****

MECE *** ← **Co-req courses**

MECT 3341 is a required course

Revised on: 05/26/2023

UH - Mechanical Engineering: BSME Degree Plan. Effective Fall 2023

First advising contact is: Cyrena Edwards Bell, Advising Assistant
N207, Engineering Bldg. 1, 713-743-4500, cedwards4@uh.edu

Core	
ENGL 1301	Freshman Composition I (formerly UH's ENGL 1303)
ENGL 1302	Freshman Composition II (formerly UH's ENGL 1304)
HIST 1377	The United States to 1877
HIST 1378	The United States since 1877
GOVT 2306	U.S. and Texas Constitution and Politics (formerly UH POLS 1336)
GOVT 2305	U.S. Government: Congress, President and Courts (formerly UH's POLS 1337)
ENGI 2304	Technical Communications
For the Core requirements for: (i) Language, Philosophy & Culture, (ii) Social & Behavioral Sciences, and (iii) Creative Arts: Students need three courses. See UH Core Curriculum for approved list of courses.	
Natural Science and Mathematics	
CHEM 1311	Fundamentals of Chemistry - I (formerly UH's CHEM 1331)
CHEM 1111	Fundamentals of Chemistry Laboratory - I
CHEM 1312	Fundamentals of Chemistry - II (formerly UH's CHEM 1332)
CHEM 1112	Fundamentals of Chemistry Laboratory - II
MATH 2413	Calculus I (formerly UH's MATH 1431)
MATH 2414	Calculus II (formerly UH's MATH 1432)
MATH 2415	Calculus III (formerly UH's MATH 2433)
MATH 3321	Engineering Mathematics
MATH 3363	Introduction to Partial Differential Equations
PHYS 2325	University Physics I (formerly UH's PHYS 1321)
PHYS 2326	University Physics II (formerly UH's PHYS 1322)

Engineering	
MECT 3341	Computer-aided Drafting or equivalent required, but does not apply to BSME degree
ENGI 1100	Introduction to Engineering
ENGI 1331	Computing for Engineers
MECE 2334	Thermodynamics
MECE 2336 (H) or ENGR 2301	Mechanics I (Statics) (formerly UH's CIVE 2330)
MECE 2361	Mechanical Design I: Design Analysis and Synthesis
MECE 3245	Materials Science Laboratory
MECE 3336	Mechanics II (Dynamics)
MECE 3338	Dynamics and Control of Mechanical Systems
MECE 3345	Material Science
MECE 3360	Experimental Methods Laboratory
MECE 3363	Introduction to Fluid Mechanics
MECE 3369	Solid Mechanics
MECE 3381	Introduction to Finite Element Methods
MECE 4331	Design of Machine Elements
MECE 4343	Thermal Design
MECE 4340	Mechanical Engineering Capstone I
MECE 4341	Mechanical Engineering Capstone II
MECE 4364	Heat Transfer
MECE 4371	Thermal/Fluids Laboratory
MECE 4372	Mechanics, Controls and Vibrations Laboratory
Of the 4 required electives, only one may be non-MECE course	
Approved MECE Electives (must have senior standing in ME) are:	
MECE 3399 and MECE 4399 Senior Honors Thesis	
MECE 4398: Special Problems (no more than one course)	
MECE 53xx or higher	
CHEE, CIVE, ECE, ENGI, INDE, PETR, BIO 33xx or higher from an approved list (see advisor)	
MATH 43xx (may also be used to apply for a Math Minor) from an approved list (see advisor)	

Key

