

UH - Mechanical Engineering: BSME Degree Plan - Effective Fall 2025

Fall /
Spring
Credit
Hours

Pre-req courses

MECE xxxx

Co-req courses

Student Name: _____

UHID: _____

		128						
1	15	MATH 2312 MATH 2413*	CHEM 1111 CHEM 1311	MATH 2312 CHEM 1311		ENGI 1100 MATH 2413	GOVT 2305	ENGL 1301
2	17	MATH 2413 MATH 2414*	CHEM 1111 CHEM 1112 CHEM 1312	CHEM 1311 CHEM 1312	PHYS 2325 MATH 2414	MATH 2413 + CHEM 1311/PHYS 2325 ENGI 1331	ENGL 1301 ENGL 1302	
3	18	MATH 2414 MATH 2415*	PHYS 2325 PHYS 2326 MATH 2415	PHYS 2325 MECE 2336 (H) OR ENGR 2301 MATH 2415, ENGI 1331		ENGI 1100 MECE 2261 ENGI 1331	GOVT 2306	LANG/PHIL/ CULTURE CORE
4	15	MATH 2414 MATH 3321	PHYS 2326, MATH 2415, CHEM 1112, 1312, ENGI 1331 MECE 2334		MECE 2336 OR ENGR 2301, ENGI 1331, 1100 MECE 3336 MATH 3321		ENGI 1100 MECE 2361 ENGI 2304, MECE 2261	ENGI 1100, ENGL 1302, ENGR 2301 ENGI 2304
5	18	MATH 2415, 3321 MATH 3363	CHEM 1112, 1312, MECE 2334 MECE 3345		MECE 2361, 3336 MECE 3338	MECE 3336 MECE 3369 MATH 3363	HIST CORE 1	SOC / BEH CORE
6	15		MECE 2334, 3336, ENGI 2304 MECE 3360		MECE 2334, 3336 MECE 3363 MATH 3363	MECE 3369 MECE 3381 MATH 3363	HIST CORE 2	CREATIVE ARTS CORE
7	15	Required: Select 2 out of 3 MECE labs	MECE 3360, 4364 MECE 4371	MATH 3363 MECE 4331 MECE 3381	MATH 3363, MECE 3363 MECE 4364 MECE 4364	MECE 2334 MECE 4343 MECE 4364	MECE 3338, 3345, 3360, 3381 MECE 4340: Capstone 1 MECE 4331, 4364	
8	15		MECE 3338, 3360 MECE 4372	MECE 3345, 3360, ENGI 2304 MECE 4373	SENIOR STANDING IN MECH ENGR MECE ELEC	SENIOR STANDING IN MECH ENGR MECE ELEC	SENIOR STANDING IN MECH ENGR MECE ELEC	MECE 4340 MECE 4341: Capstone II

Courses can be taken outside UH

Mechanics Sequence

Controls Sequence

Mech. Design Sequence

Thermo - Materials / fluids Sequence

* Can be replaced with MATH 1450+1451



Advisor: _____

Date: _____

MECE Undergraduate Advising Sharepoint Page:

<https://uofh.sharepoint.com/sites/MEUndergradAdvising>

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First advising contactis: Advising Assistant N207, Engineering Bldg. 1, meugrad@Central.UH.EDU, 713-743-4500

English and Core: Passing Grade D- or above

Course No.	Course Title
ENGL 1301	Freshman Composition I (formerly UH's ENGL 1303)
ENGL 1302	Composition II (formerly UH's ENGL 1304)
GOVT 2306	U.S. & TX Constitution & Politics (formerly UH POLS 1336)
GOVT 2305	U.S. Government: Congress, President, and Courts (formerly UH POLS 1337)
HIST CORE 1	American History I
HIST CORE 2	American History II
CORE	Language, Philosophy & Culture (Approved List)
CORE	Social & Behavioral Sciences (Approved List)
CORE	Creative Arts (Approved List)

Access link below for satisfactory CORE courses:

For the Core requirements for, see UH Core Curriculum for approved list of courses. [Click for link: https://publications.uh.edu/content.php?catoid=56&navoid=21428](https://publications.uh.edu/content.php?catoid=56&navoid=21428)

- (i) Language, Philosophy & Culture,
- (ii) Social & Behavioral Sciences, and
- (iii) Creative Arts
- (iv) American History I and II (6 total credit hours)

Natural Science & Mathematics: Passing Grade C- or above

CHEM 1311	Fundamentals of Chemistry I (formerly UH's CHEM 1331)
CHEM 1111	Fundamentals of Chemistry Lab I
CHEM 1312	Fundamentals of Chemistry II (formerly UH's CHEM 1332)
CHEM 1112	Fundamentals of Chemistry Lab 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: Passing Grade C- or above

Course No.	Course Title
ENGI 1100	Introduction to Engineering
ENGI 1331	Computing for Engineers
ENGR 2301 or MECE 2336(H)	Mechanics I (Statics) (formerly UH's CIVE 2330)
ENGI 2304	Technical Communications (Passing Grade C- or above)
MECE 2261	Mechanical Engineering Practicum
MECE 2361	Mechanical Design I: Design Analysis and Synthesis
MECE 2334	Thermodynamics
MECE 3336	Mechanics II (Dynamics)
MECE 3338	Dynamics and Control of Mechanical Systems
MECE 3345	Materials 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
MECE 4373	Applied Materials Science Laboratory

Of the 3 required electives, only one may be non-MECE course

Approved MECE Electives (must have senior standing in ME) are:

MECE 3399 / 4399	Senior Honors Thesis (Elective Option)
MECE 4398	Special Problems (No more than one course)
MECE 53XX+	Mechanical Engineering Electives (senior standing, advisor approval)
Approved Electives	CHEE, CIVE, ECE, ENGI, INDE, PETR, BIO 33xx+ or MATH 43xx+ (advisor approval)