



## College Of Engineering Mechanical Engineering New Study Plan

**139 Total Credit Hours**  
updated as of FALL 2022

Freshman					Sophomore	Junior			Senior
First Semester 18H					First Semester 18H	First Semester 18H			First Semester 18H
2H ALIS 1211: Arabic & Islamic Studies					Sophomore Level → 1H ASSE 2111: Learning Outcome Ass. I	3H MEEN 3394: Computer Aided Design	← MEEN 2313 (c)MEEN 3391	MEEN 3394 →	3H MEEN 4393: Machine Design
1H PHED 1111: Active Living Style					COMM 1312 → 3H COMM2311: Oral Communication	3H MEEN 3311: Manufacturing Processes	← MEEN 2311	MEEN 3395 MEEN 3432 →	3H MEEN 4392: Feedback Control
3H COMM 1311: Written Comm.					MATH1423 → 2H GEEN2211: Engineering Computing	3H MEEN 3322: Thermodynamics II	← GEEN 2313, concurrent reg in GEEN 3311	(90 Student Cr. Hours)	3H GEEN 4311: Engineering Economy
2H UNIV 1211: Prof. Development					2H UNIV 1213: Leadership & Teamwork	3H GEEN 3311: Intro. to Fluid Mechanics	← GEEN 2313	MEEN 3322 MEEN 3333 →	3H MEEN 4322: Power Generation
4H MATH 1422: Calculus I	← PRPM 0022 or placement test or skill & knowledge thereof	MATH 1423 →	3H MATH 1324: Calculus III	3H MEEN 3391: Design of Mechanisms	← MEEN 2312 (c) MEEN 3394	MEEN 3301 MEEN 3394 & Dept. Approval	→	3H MEEN 4396: Mech. Eng. Senior Design I	
4H PHYS 1421: Physics for Engineers I		PHYS 1421 MATH 1422 →	4H PHYS 1422: Physics for Engineers II	2H ALIS 2211: Linguistic Communication Skills (Arabic)			**Graduation year and dept. approval. Select from list.	3H MEEN XXXX: Elective *1	
2H GEEN 1211: Intro. to Engineering	← PRPM 0022	GEEN 2311 →	3H MEEN 2312: Engineering Mechanics II: Dynamics	1H MEEN 3101: Machine Shop Practice and Safety	← (c) MEEN 3311				
Second Semester 17H					Second Semester 17H	Second Semester 16H			Second Semester 14H
1H PHED 1112: Healthy Behaviors & Management					2H ALIS 1212: Social System in Islam	3H GEEN 3314: Electric Circuits & Electronics	← PHYS 1422 & Junior Level Standing (>60 Cr.)	GEEN 4311 MEEN 4396 →	3H MEEN 4397: Mech. Eng. Senior Design II
3H GEEN 2311: Engineering Mechanics I: Statics	← (P)PHYS 1421 (C) MATH 1423	COMM 2311 →	3H COMM 2312: Technical Comm.	2H ASSE 3211: Learning Outcome Ass. II	← ASSE 2111 & Junior Level			2H ALIS 2212: Biography of Prophet Mohammed (Arabic)	
3H COMM 1312: Writing & Research	← COMM 1311	MATH 1324 CHEM 1421 →	3H GEEN 2313: Thermodynamics I	4H MEEN 3432: Computational Methods	← GEEN 2211 MATH 2332		MEEN 3322 MEEN 3333 →	3H MEEN 4311: Principles of HVAC	
2H UNIV 1212: Critical Thinking					3H MEEN 2311: Materials Engineering	3H MEEN 3333: Heat Transfer	← GEEN 3311	**Graduation year and dept. approval. Select from list.	3H MEEN XXX Elective *2
4H MATH 1423: Calculus II	← MATH 1422	MATH 1324 →	3H MATH 2332: Differential Equations	3H MEEN 3395: Mech. Vibration	← MEEN 3391 (c)GEEN 3314		Select from list.	3H Social Science Elective	
4H CHEM 1421: Chem. for Engineers I	← PRPM 0022	GEEN 2311 MATH 1324 →	3H MEEN 2313: Solid Mechanics	1H MEEN 3111: Thermofluids & Energy Lab.	← MEEN 3311				

### Summer Semester 3H

3H MEEN 3301: Internship	← End of Junior Year
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- How to read study plan:**
- The dotted-lined square indicates a pre-requisite class
  - Social Science Electives. Select from the following courses: **GEGR 1311** World Regional Geography, **HIST 1311** World Civilizations; **PSYC 1311** Intro. to Psychology, **SUST 1311** Intro. to Sustainability, **FREN 1311** Intro. to French Language, **SPAN 1311** Intro. to Spanish Language, **ECON 1311** Intro. to Macroeconomics, **ECON 1312** Intro. to Microeconomics
  - \*1 & \*2 MEEN Electives. Select from the following courses: **MEEN 4312** Fluid Mechanics - Pre-req.: GEEN 3311 Intro to Fluid Mechanics/MEEN 3322 Thermodynamics II; **MEEN 4315** Principle of Building Energy Analysis - Pre-req.: MEEN 3322 Thermodynamics II /MEEN 3333 Heat Transfer; **MEEN 4331** Internal Combustion Engines - Pre-req.: MEEN 3322 Thermodynamics II / MEEN 3333 Heat Transfer; **MEEN 4332** Turbomachinery - Pre-req.: MEEN 3322 Thermodynamics II /MEEN 3333 Heat Transfer; **MEEN 4341** Corrosion Engineering - Pre-req.: MEEN 3322 Thermodynamics II / MEEN 333 Heat Transfer/MEEN 2311 Materials Eng; **MEEN 4344** Materials in Design - Pre-req.: MEEN 3311 Manufacturing Processes /MEEN 4393 Machine Design; **MEEN 4351** Intermediate Dynamics - Pre-req.: MEEN 3395 Mechanical Vibrations; **MEEN 4394** Advanced Control Systems - Pre-req.: MEEN 4392 Feedback Control