



College Of Engineering Mechanical Engineering New Study Plan

139 Total Credit Hours
updated as of FALL 2024

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	MEEN 3394 MEEN 3311 →	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 GEEN3314 →	3H MEEN 4392: Feedback Control
3H COMM 1311: Written Comm.			MATH1423 GEEN 1211 →	2H GEEN2211: Engineering Computing		3H MEEN 3322: Thermodynamics II	←	GEEN 2313	MEEN 3301 →	3H GEEN 4311: Engineering Economy
2H UNIV 1211: Prof. Development			UNIV 1211	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	MEEN 3301 MEEN 3333 →	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: Ethics in Islam		ALIS 1212	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	←	MEEN 2311		
Second Semester 17H			Second Semester 17H			Second Semester 16H			Second Semester 14H	
1H PHED 1112: Healthy Behaviors & Management		PHED 1111	ALIS 1211	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	←	PHYS 1421	COMM 2311 →	3H COMM 2312: Technical Comm.		2H ASSE 3211: Learning Outcome Ass. II	←	ASSE 2111 & Junior Level	ALIS 2211 →	2H ALIS 2212: Biography of Prophet Mohammed (Arabic)
3H COMM 1312: Writing & Research	←	COMM 1311	MATH 1423 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		UNIV 1211	GEEN 2311 CHEM 1421 →	3H MEEN 2311: Materials Engineering		3H MEEN 3333: Heat Transfer	←	GEEN 3311	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	Select from list. →	3H Social Science Elective
4H CHEM 1421: Chem. for Engineers I	←	PRPM 0022	MEEN 2312 →	3H MEEN 2313: Solid Mechanics		1H MEEN 3111: Thermofluids & Energy Lab.	←	GEEN 3311		

Summer Semester 3H
3H MEEN 3301: Internship

End of Junior Year or 90 Cr. Hours

How to read study plan:

1.

The dotted-lined square indicates a pre-requisite class

2. **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, **DANT 1311** Digital Anthropology
- FREN 1311** Intro. to French Language, **SPAN 1311** Intro. to Spanish Language, **ECON 1311** Intro. to Macroeconomics, **ECON 3312** Intro. to Microeconomics, **FURS 1311** Introduction to Futures Skills, **FUTR 1311** Introduction to Futures Studies
3. **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