



Course Catalog

Mechanical Engineering

Total Semester Credit Hours: 139

Freshman Program

<i>First Semester</i>	<i>Hours</i>
ALIS 1211: Arabic Language / Islamic Studies	2
COM 2311: Oral Communications	3
COMM 1311: Written Communication	3
UNIV 1211: Professional Development and Competencies	2
MATH 1422: Calculus I	4
PHYS 1421: Physics for Engineers	4
GEEN 1211: Introduction to Engineering	2
Total Hours:	20

<i>Second Semester</i>	<i>Hours</i>
ALIS 1212: Arabic Language / Islamic Studies	2
PHED 1111: Physical Education	1
COMM 1312: Writing and Research	3
UNIV 1212: Critical Thinking and Problem Solving	2
MATH 1423: Calculus II	4
CHEM 1421: Chemistry for Engineers I	4
Social Science Elective*	3
Total Hours:	19

**Select any Social Science course from the College Core Curriculum.*

Sophomore Program

<i>First Semester</i>	<i>Hours</i>
ALIS 2211: Arabic Language / Islamic Studies	2
ASSE 2111: Learning Outcome Assessment I	1
PHED 1112: Physical Education	1

UNIV 1213: Leadership and Teamwork.....	2
MATH 1324: Calculus III.....	3
PHYS 1422: Physics for Engineers II.....	4
GEEN 2311: Statics and Dynamics I.....	3
Total Hours:	16

<i>Second Semester</i>	<i>Hours</i>
ALIS 2212: Arabic Language / Islamic Studies	2
COMM 2312: Technical and Professional Communications	3
GEEN 2313: Thermodynamics I	3
GEEN 2312: Introduction to Computing.....	3
MATH 2332: Differential Equations.....	3
MEEN 2312: Statics and Dynamics II.....	3
MEEN 2211: Materials Engineering	2
Total Hours:	19

Junior Program

<i>First Semester</i>	<i>Hours</i>
TBD.....	2
ASSE 3211: Learning Outcome Assessment II	2
MEEN 3211: Introduction to Manufacturing Systems	2
MEEN 3322: Thermodynamics II	3
GEEN 3311: Introduction to Fluid Mechanics	3
MEEN 3391: Mechanical Engineering Design I	3
MEEN 3332: Computational Methods	3
Total Hours:	18

<i>Second Semester</i>	<i>Hours</i>
TBD.....	2
MEEN 2313: Mechanics of Solids	3
MEEN 3212: Manufacturing Methods in Design.....	2
GEEN 2314: Circuits I.....	3
MEEN 3333: Heat Transfer	3
MEEN 3392: Mechanical Engineering Design II.....	3
Total Hours:	16

Senior Program

<i>First Semester</i>	<i>Hours</i>
TBD.....	2
MEEN 3393: Mechanical Engineering Design III.....	3
MEEN 4301: Mechanical Engineering Lab I	3
GEEN 3211: Engineering Economy	2
MEEN 4322: Power Generation	3
MEEN Elective**	3

Total Hours: 16

***Select from MEEN 4312: Fluid Mechanics, MEEN 4315: Building Energy Analysis, MEEN 4331: Internal Combustion Engines, MEEN 4332: Turbomachinery, MEEN 4341: Corrosion Engineering, MEEN: 4344 Materials in Design, MEEN 4351: Intermediate Dynamics, or MEEN 4392: Advanced Control Systems.*

Second Semester

Hours

ASSE 4311: Learning Outcome Assessment III (ME Design IV)	3
MEEN 4302: Mechanical Engineering Lab II	3
MEEN 4311: Principles of HVAC	3
MEEN Elective**	3
Social Science Elective*	3

Total Hours: 15

** Select any Social Science course from the College Core Curriculum*

***Select from MEEN 4312: Fluid Mechanics, MEEN 4315: Building Energy Analysis, MEEN 4331: Internal Combustion Engines, MEEN 4332: Turbomachinery, MEEN 4341: Corrosion Engineering, MEEN: 4344 Materials in Design, MEEN 4351: Intermediate Dynamics, or MEEN 4392: Advanced Control Systems.*