Mechanical Engineering Curriculum Flowchart (123 credits)

Catalog Years 2014-15 to present
Class of 2018 and beyond

14 credits

Senior
Fall

ENL 101
Crit Writing and Reading I
[3] (Fall/Spring)

University Studies
3B Elective
[3] (Spring/Fall)

Senior
Spring

MNE 498
ME Design Project II
[2] (Spring)

University Studies
4C Elective
[3] (Spring/Fall)

Senior
Fall

MNE 497
ME Design Project I
[2] (Fall)

University Studies
4A Elective
[3] (Spring/Fall)

Senior
Spring

Technical Elective
[3] (Spring/Fall)

Technical Elective
[3] (Spring/Fall)

Junior
Fall

MNE 391
Systems Design & Controls
[4] (Spring)

MNE 292
Thermal Systems Design
[4] (Fall)

Junior
Spring

MNE 392
Design for Manufacturing
[4] (Fall)

MNE 393
Advanced Structures
[4] (Fall)

Junior
Fall

ECE 211
Electrical Eng. I
[3] (Spring)

ECE 251
Electrical Eng. I Lab
[1] (Spring)

Science Elective
Must be on approved list
[3] (Spring/Fall)

Junior
Spring

MNE 382
Electrical Eng. II
[4] (Spring)

MNE 383
Principles of Controls
[4] (Spring)

Junior
Fall

MNE 384
Control Systems Design
[4] (Fall)

MNE 385
Control Systems Theory
[4] (Fall)

Junior
Spring

MNE 386
Advanced Dynamics
[4] (Spring)

MNE 387
Thermodynamics II
[4] (Spring)

Senior
Fall

MNE 483
Thermal Engineering
[4] (Fall)

MNE 484
Advanced Materials Science
[4] (Fall)

Senior
Spring

MNE 485
Advanced Structural Mechanics
[4] (Spring)

MNE 486
Advanced Dynamics
[4] (Spring)

Sophomore
Fall

EGR 241
Eng. Mechanics I
[3] (Fall/Spring)

MNE 281
Thermal Engineering
[4] (Fall)

Sophomore
Spring

EGR 242
Eng. Mechanics II
[3] (Spring)

MNE 282
Advanced Materials Science
[4] (Spring)

Sophomore
Fall

EGR 303
Eng. Economics
[3] (Fall)

MNE 283
Advanced Structural Mechanics
[4] (Fall)

Sophomore
Spring

EGR 401
Intro. to Appl. Chem Lab
[1] (Fall/Spring)

MNE 284
Advanced Dynamics
[4] (Fall)

Sophomore
Fall

CHM 151 or 153
Prin Mod. Chem for Engr
[3] (Fall/Spring)

MNE 285
Thermodynamics II
[4] (Fall)

Sophomore
Spring

CHM 151 or 153
Prin Mod. Chem for Engr
[3] (Fall/Spring)

MNE 286
Advanced Structural Mechanics
[4] (Fall)

Freshman
Fall

EGR 111
Intro. To Eng. & Computing
[3] (Fall)

MTH 153 (or 151)
Calculus Appl Sci & Eng I
[4] (Fall/Spring)

Freshman
Spring

MTH 154 (or 152)
Calculus Appl Sci & Eng II
[4] (Fall/Spring)

PHY 111 (or 113)
Physics for Sci. and Eng I
[4] (Fall/Spring)

Freshman
Fall

MTH 211
Diff. Equations Engineers
[3] (Spring/Fall)

MTH 212
Diff. Equations Engineers
[3] (Spring/Fall)

Freshman
Spring

MTH 213 (or 211)
Calculus Appl Sci & Eng III
[4] (Fall/Spring)

PHY 112 (or 114)
Physics for Sci. and Eng II
[4] (Fall/Spring)

Freshman
Fall

MTH 213 (or 211)
Calculus Appl Sci & Eng III
[4] (Fall/Spring)

PHY 112 (or 114)
Physics for Sci. and Eng II
[4] (Fall/Spring)

Freshman
Spring

MTH 212
Diff. Equations Engineers
[3] (Spring/Fall)

MTH 213 (or 211)
Calculus Appl Sci & Eng III
[4] (Fall/Spring)

Freshman
Fall

MTH 213 (or 211)
Calculus Appl Sci & Eng III
[4] (Fall/Spring)

PHY 112 (or 114)
Physics for Sci. and Eng II
[4] (Fall/Spring)

Freshman
Spring

MTH 212
Diff. Equations Engineers
[3] (Spring/Fall)

MTH 213 (or 211)
Calculus Appl Sci & Eng III
[4] (Fall/Spring)