FRESHMAN YEAR

18 hrs.

- CHEM 101 General Chemistry (4)
- ENGL 101 Intro. to Acad. Discourse (3)
- MATH 101 Calculus I (4) → PHYS 101 General Physics I (4)
- IAS 121 Language Foundation (2)
- PE 101 Health & Physical Edu. I (1)

16 hrs.

- ENGL 102 Intro. to Report Writing (3) — ENGL 101
- ICS 104 Intro. to Prog. in Python & C (3)
- MATH 102 Calculus II (4) — MATH 101 → PHYS 102 General Physics II (4) — PHYS 101
- IAS 111 Belief & its Consequences (2)

SOPHOMORE YEAR

16 hrs.

- CE 202 Statics & Strength of Materials (3) — PHYS 101
- MATH 201 Calculus III (3) — MATH 102
- ME 203 Thermodynamics I (3) — MATH 102, PHYS 102
- ME 210 ME Drawing and Graphics (3)
- MSE 201 Mat. Sci. & Eng. (3) — CHEM 101, MATH 102
- MSE 202 Mat. Sci. & Eng. Lab (1)

17 hrs.

- ENGL 214 Academic & Professional Communication (3) — ENGL 102
- ISE 291 Intro. to Data Science (3) — ICS 104, MATH 102
- MATH 208 Elements of Differential Equations (3) — MATH 102
- ME 201 Dynamics (3) — CE 202
- ME 204 Thermodynamics II (3) — ME 203
- ME 218 Intro. ME Design (2) — ME 210, PHYS 102

JUNIOR YEAR

17 hrs.

- COE 292 Intro. to Artificial Intelligence (3) — ISE 291
- EE 236 EE Principles & Applications (3) — MATH 102, PHYS 102
- EE 237 EE Principles & Applications Lab (1)
- ME 301 Machine Design I (3) — CE 202, ME 218
- ME 311 Fluid Mechanics (3) — MATH 201, ME 201, ME 203
- ME 322 Manufacturing Processes (3) — ME 210, ME 216, ME 217
- ME 323 Manufacturing Lab (1)

17 hrs.

- BUS 200 Business & Entrepreneurship (3)
- CGS 392 Career Essentials (1)
- IAS 212 Professional Ethics (2) — IAS 111
- STAT 319 Prob. & Stat. for Engineers (3) — MATH 102
- ME 302 Machine Design II (3) — ME 301
- ME 303 Mechanical System Design Lab (1)
- ME 315 Heat Transfer (3) — ME 204, ME 311
- ME 316 Thermo-Fluids Lab (1)

SUMMER

- ME 399 Summer Training (0) — BUS 200, ENGL 214, ME 204

SENIOR YEAR

14 hrs.

- MATH 371 Intro. Numerical Methods (3) — MATH 201
- ME 401 System Dynamics & Control (3) — EE 234, EE 235, MATH 208, ME 315
- ME 402 Measurements & Control Lab (1)
- ME 411 Senior Design Project I (0) — BUS 200, ME 315 Co-Req: ME 302, ME 303
- ME 4XX ME Elective I (3)
- ME 4XX ME Elective II (3)

13 hrs.

- GS XXX General Studies Elective (3)
- IAS XXX Islamic/Arabic Elective (2) — IAS 212
- ME 412 Senior Design Project II (3) — ME 411
- ME 4XX ME Elective III (3)
- XE XXX Technical Elective (3)

Total Credit Hours: 129

NAME:_____

ID No.: _____

KEY

- Pre-Requisites
- Co-Requisites
- Credit Hours
- General Education Requirements
- Core Requirements
- Elective Requirements
- Technical Training

Degree Plan Chart for Mechanical Engineering (New-ME) Revised January, 2025