2000 Degree Plan For ME

**Lower Division**

- ENGR 1401 + Introduction to Engineering
- MATH 1411 + Calculus I
- ENGL 1311+ English Composition
- CHEM 1305

- UNIV 1301+ or 2350 +
- MATH 1312 + Calculus II (MATH 1411+)
- PHYS 2420 (MATH 1411+)

- BE 1205 + Graphic Fundamentals
- MATH 1312 + Calculus II (MATH 1411+)

- PHYS 2421 (PHYS 2420+ or PHYS 2410+, MATH 1312+)

- ENGL 1311+ English Composition
- CHEM 1105

- HIST 1301 + History of U.S. to 1865

- BE 2434 + Mechanics I (MATH 1411+)
- MATH 2313 + Calculus III (MATH 1312+)

- PHYS 2421 (PHYS 2420+ or PHYS 2410+, MATH 1312+)

- BE 2338+ Mechanics II (PHYS 2420+, MATH 1312+)
- MATH 2326 + Differential Equations (MATH 1312+)

- BE 2303 + Intro. To Material Science and Engineering (CHEM 1305+)

- UNIV 1301+ or 2350 +
- MATH 2313 + Calculus III (MATH 1312+)

- ENGL 1312+ Research and Critical Writing (ENGL 1311+)

- BE 2375 + Introduction to Thermal – Fluid Science (BE 2338 CONC)

- BE 2377+ Electrical Circuits and Motors (PHYS 2421+, MATH 1312+)

- BE 2375 + Introduction to Thermal – Fluid Science (BE 2338 CONC)

- BE 2303 + Intro. To Material Science and Engineering (CHEM 1305+)

**Upper Division**

- BE 3341 + Engineering Analysis (MATH 2313+, MATH 2326+)
- BE 3373 + Engineering Probability (MATH 2313+)

- HIST 1302 + History of the U.S. since 1865

- MECH 3354 Fluid Mechanics (BE 2375+, MATH 2326+)

- COMM 1302 + Business and Professional C.

- MECH 3305 Mechanical Engineering Lab (MATH 2313+, BE 2377+, BE 3373+)

- IE 3126 Industrial Engineering Lab (BE 2303+, BE 3373+)

- MECH 3365 Dynamic Response (BE 2338+, MATH 2326+)

- MECH 3376 Thermodynamics II (BE 2375+)

- MECH 4364 Mechanical Design (BE 2434+)

- MECH 4107 Mechanical Engineering Lab III (MECH 3305)

- MECH 4311 Automatic Controls (MECH 3365)

- MECH 4363 Kinematics of Mechanisms (BE 2338+, BE 3341+)

- MECH 4351 Heat Transfer (BE 3341+, BE 3354)

- MECH 4106 Mechanical Engineering Lab II (MECH 3305)

- MECH 4111 Controls Lab

- MECH 4355, MECH 4356, MECH 4368, MECH 4371, MECH 4395, IE 3377, IE4332, IE 4354, IE 4384, IE4385, IE4391

- MECH 4195 Senior Professional Orientation

- Technical Elective MECH or IE Course

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**Total Semester Credit Hours** 125

Prerequisites listed in parentheses

+ Grade of “C” or better required.

Approved technical electives are: MECH 4355, MECH 4356, MECH 4368, MECH 4371, MECH 4395, IE 3377, IE4332, IE 4354, IE 4384, IE4385, IE4391