MECHANICAL ENGINEERING CURRICULUM (Option A: last Name begins with A-K)

Semester 1 Semester 2 Semester 3 Semester 4 Semester 5 Semester 6 Semester 7 Semester 8 17 credits 17 credits 17 credits 16 credits 15.5 credits 17 credits 16.5 credits 15 credits **CHEM 110** 3 cr. CMPSC 200 or 201 3 cr. ME 370 ME 450 ME 440W 3 cr. Science elective 3 cr. ME 300 ME 320 3 cr. 3 cr. 3 cr. 3 cr. CHEM 112. BIOL 141 or MATLAB or C++ ENGR Thermodymanics Vibration of Mech Sys Fluid Flow Modeling Dynamic Systm Design Capstone Chem Principles P: EMCH 212, CMPSC 200/201 P: EMCH 212, MATH 251 PHYS 214 and CHEM 111 P· MΔTH 140 P: CHEM 110 P: ME 340 P·MF 370 P: Varify by selection P/C: MATH 141 P/C: MATH 141 MATH 220, MATH 251 ME 300, MATH 231 P/C: ME 348 P/C: IE 312, ENGL 202C MATH 140# MATH 141# MATH 251# MATH 231# 2 cr. ME 330 ME 340 ME 410 ETE 4 cr. 4 cr. 4 cr. 3 cr. 3 cr. 3 cr. Calc 2 Diff Equations Calc of Several Variables Computational Tools ME Design Methodolgy Heat Transfer ENGR Tech Selection Calc 1 i : MATH 140 : MATH 141 : MATH 141 P: EMCH 212 & 213, P: EDSGN 100 P: ME 320, MATH 220 P/C: Varify by selection P/C: ME 320, ME 360 MATH 251, PHYS 212 CMPSC 200/201 EDSGN 100 **PHYS 211** PHYS 212 MATH 220# 2 cr. ME 348 ME 360 ME 435 GTE 3 cr. 4 cr. 4 cr. 3 cr. 3 cr. 3 cr. Intro to Engr Design Mechanics Elect & Magnetism Matricies Circuit Analysis... Mechanical Design ME Systems Lab GTE Tech Selection P: PHYS 211, MATH 140 P: ME 348, ME 330 P/C: MATH 140 P: MATH 140 P: MATH 251, PHYS 212 P: FMCH 213 P/C: Varify by selection P/C: CMPSC 200/201 P/C: ME 320, ME 370 P/C: MATH 141 ENGL 15 ECON 102 or 104 3 cr. EMCH 211# EMCH 213# 3 cr. IE 312 ME 454 METE AHS gen ed ^ 3 cr. 3 cr. 3 cr. 3 cr. 3 cr. 3 cr. Rhetoric and Compsition Micro or Macro economics Statics Strength of materials ME Tech Selection Product Design.. Mechtatronics i (GS - Single domain) P: MATH 140 P: EMCH 211 P: FMCH 213 P: ME 348 P/C: Varify by selection P/C: MATSE 259 AHS gen ed ^ CAS 100 EMCH 212# 3 cr. ENGL 202C 3 cr. ETE AHS gen ed ^ 3 cr. Engr FYS 3 cr. 3 cr. MATSE 259 3 cr. 1 cr. Effective Speech Dynamics Prop&Proc ENGR Materials Technical Writing ENGR Tech Selection tudents who did not take a CoE : EMCH 211, MATH 141 : EMCH 213 : ENGL 15 P/C: Varify by selection FYS should verify completion of his requirement with ME adviser ME 490 AHS gen ed^ AHS gen ed ^ 3 cr. ME 390 GHW 0.5 cr. 0.5 cr. 1.5 cr. Acad & Career Development Professional Development : ME 390 GHW 1.5 cr.

ME Course Sequencing



C = concurrent

P = prerequsite

Dynamic Systems

Design Concentration

Completion of EMCH and MATH courses before the 5th semetser is important for future course sequencing
EMCH 210 or EMCH 210H is not a direct substitute for EMCH 211 & 213 requirements and should not be taken for ME_BS

^ US Cultures & IL Cultures and Integrative studies requirements are satisfied in conjunction with gen ed courses

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Courses applied toward major GPA calculation