## MECHANICAL ENGINEERING Updated: 05/24/2022 Catalog Year: 202230 **FOURTH YEAR FIRST YEAR SECOND YEAR** THIRD YEAR **Notes FALL** WINTER **FALL** WINTER **FALL** WINTER **FALL** WINTER Course Prerequisites and Year Status Requirements **MATH 1005** The Faculty of Engineering and Design strictly **MATH 2004 MATH 1004 MATH 1104 MATH 3705** MECH 3002 **MAAE 4907** Differential Multivariable upholds course prerequisites. Course prerequisites Engineering Design Project (note b) Calculus for Linear Algebra for Equations & Mathematica Machine Design Calculus for Eng. Students Infinite Series for (1.0 credit) Eng. Students Methods I & Practice are found in the Undergraduate Calendar course Eng. Students Eng. Students descriptions, and are indicated by arrows\* between courses in this program map. Year status in Engineering prerequisites (as noted by **CHEM 1101** Elective 2nd 2nd Basic Science Chemistry for 2nd, 3rd, or 4th above the course box) vary year to Eng. Students Elective **MAAE 2101 MAAE 2001 MAAE 3202 MAAE 3004 Elective MECH 4003** year, please carefully review requirements for your Engineering Engineering Mechanics of Dynamics of Mechanical Systems Complementary catalog year. Graphical Design Solids II Machinery Studies Elective Dynamics Design **Academic Advising PHYS 1004** Elective Introductory Complementary Electromagnetism Obtaining regular academic advising and support Studies Elective & Wave Motion 2nd 2nd 2nd for course planning is essential for engineering students who are "off-pattern" from their program **MAAE 2400 MAAE 2202 MAAE 3500 Elective MAAE 3300 MECH 4406 ECOR 1041 ECOR 1045** Feedback Control Thermodynamics Mechanics of Engineering Elective map. Contact your program advisor: Fluid Mechanics II Heat Transfer Computation & Prog & Heat Transfer Solids I Systems (note a) (0.25 credit) (0.25 credit) First year students (new and returning): ECORSupport@carleton.ca **ECOR 1043 ECOR 1047** Second year and higher students: 2nd (0.25 credit) (0.25 credit) 2nd 2nd maeadvising@cunet.carleton.ca **MAAE 2700 MECH 3700 MAAE 4102 SYSC 3600 Elective MAAE 2300** ECOR 1042 ECOR 1046 Engineering Principles of Materials: Strength 8 Engineering Elective **Notes** Fluid Mechanics I Materials Simulation Manufacturing Fracture (note a) Data Management Mechanics (0.25 credit) (0.25 credit) (a) 2.0 credits in Mechanical and Aerospace Engineering (MAAE, AERO or MECH) at the 4000-level **ECOR 1044 ECOR 1048** or ELEC 4504 or ELEC 4602. 2nd 2nd (0.25 credit) (0.25 credit) **ECOR 2050** (b) Students must complete all first and second year **ELEC 3605 MAAE 3400** Elective **Elective ECOR 3800** Design & Analysis Flectrical Applied Engineering Elective Engineering Elective courses, as well as 3.5 credits of third year courses (with Engineering ECOR 1055 **ECOR 1056** of Engineering Engineering Thermodynamics (note a) (note a) Experiments Economics Introduction to Introduction to the exception of Complementary Studies Elective) to Engineering Engineering enroll in MAAE 4907 (Design Project). Disciplines I Disciplines II (0.0 credit) (0.0 credit) (c) ECOR 4995 can be taken in Fall term, if required due 4th to limited elective options in Fall term. **ECOR 1057 ECOR 2995 CCDP 2100 ECOR 4995** Engineering Engineering

Portfolio

(0.0 credit)

\*Arrow Legend Required prerequisite Concurrent prerequisite

Profession

(0.0 credit)

Kindly note: this program map has been designed to ease course planning and registration for engineering students, information is accurate at the time this document is produced. Prerequisites, course titles, course offerings, and course schedule patterns are based on the academic year in which this map was prepared and are subject to change. Please contact EngAcadSupport@carleton.ca for inquiries regarding this program map.

Communication

Skills for

Eng. Students

\*\*Please run your <u>audit</u> after making any registration changes to verify they have been applied successfully

Professional

Practice

(note c)