## **AEROSPACE ENGINEERING - STREAM B** Updated: 09/22/2022 Catalog Year: 202230 **FIRST YEAR SECOND YEAR** THIRD YEAR **FOURTH 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 AERO 3002 MAAE 4907** Differential Multivariable upholds course prerequisites. Course prerequisites Engineering Design Project (note b) Calculus for Linear Algebra for Equations & Mathematica Aerospace 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 **CHEM 1101** Elective 2nd 2nd Basic Science Chemistry for by 2nd, 3rd, or 4th above the course box) vary year Eng. Students Elective **AERO 2001 MAAE 2101 MAAE 3004 AERO 4602 AERO 4003** to year, please carefully review requirements for **MAAE 3300** Aerospace Dynamics of Aerospace Systems Introductory Engineering Fluid Mechanics II your catalog year. Machinery Aeroelasticity Dynamics Design Graphical Design **Academic Advising PHYS 1004** Elective Introductory Complementary Electromagnetism Obtaining regular academic advising and support Studies Elective & Wave Motion 2nd 2nd for course planning is essential for engineering students who are "off-pattern" from their program **MAAE 2202 MAAE 2400 MAAE 3202 AERO 3101 MAAE 4102** Elective **ECOR 1045** ECOR 1041 Mechanics of Materials: Strength Complementary Thermodynamics Mechanics of Lightweight map. Contact your program advisor: Computation & Prog Solids I & Heat Transfer Solids II Structures and Fracture Studies Elective (0.25 credit) (0.25 credit) First year students (new and returning): ECORSupport@carleton.ca **ECOR 1047** ECOR 1043 Visual Comm. Circuits Second year and higher students: (0.25 credit) (0.25 credit) 2nd 2nd 2nd maeadvising@cunet.carleton.ca **MAAE 2700 MAAE 3500 Elective MAAE 2300 AERO 3700 AERO 4608 ECOR 1046 ECOR 1042** Feedback Control Engineering Elective Notes Fluid Mechanics I Aerospace Material Composite Materials Materials Systems (note a) Mechanics Data Management (0.25 credit) (0.25 credit) (a) 0.5 credits from AERO 4609, MECH 4103, MECH 4104, or MECH 4604 AND 1.0 credits in Mechanical and **ECOR 1048 ECOR 1044** Aerospace Engineering (MAAE, AERO, MECH) at the 2nd 2nd 2nd (0.25 credit) (0.25 credit) 4000-level. **ECOR 2050 CCDP 2100 ELEC 3605 SYSC 3600** Elective **Elective** Design & Analysis Communication Electrical Systems & Engineering Elective Engineering Elective (b) Students must complete all first and second year ECOR 1055 **ECOR 1056** of Engineering Skills for Engineering Simulation (note a) (note a) Experiments Eng. Students Introduction to Introduction to courses, as well as 3.5 credits of third year courses (with Engineering Engineering the exception of Complementary Studies Elective) to Disciplines I Disciplines II (0.0 credit) (0.0 credit) enroll in MAAE 4907 (Eng. Design Project). (c) ECOR 4995 can be taken in Winter term, if required **ECOR 1057 ECOR 2995 ECOR 4995** due to limited elective options in Winter term. **ECOR 3800** Engineering Engineering Engineering Profession Portfolio Practice Economics (0.0 credit) (0.0 credit) (note c)

\*Arrow Legend Kindly note: this program map has been designed to ease course planning and registration for engineering students, information is accurate at the time this Required prerequisite 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. Concurrent prerequisite

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