## **AEROSPACE ENGINEERING - STREAM A** Updated: 09/22/2022 Catalog Year: 202230 **SECOND YEAR FIRST 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 3705 MAAE 4907 MATH 1004 MATH 1104 AERO 3002** Differential upholds course prerequisites. Course prerequisites Multivariable Calculus for Linear Algebra for Equations & Mathematica Aerospace Design Engineering Design Project (note b) Calculus for Eng. Students Eng. Students Infinite Series for Methods I & Practice (1.0 credit) 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 by 2nd, 3rd, or 4th above the course box) vary year Basic Science Chemistry for Elective Eng. Students **AERO 2001 MAAE 2101 MAAE 3004 MAAE 3202 AERO 4308** to year, please carefully review requirements for **AERO 4003** Aerospace Aircraft Stability Mechanics of Dynamics of Aerospace Systems Engineering your catalog year. & Control Dynamics Machinery Solids II 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 2400 MAAE 2202 MAAE 3400 AERO 4302** Elective **MAAE 3300 ECOR 1045 ECOR 1041** Mechanics of Thermodynamics Aerodynamics & Complementary map. Contact your program advisor: Fluid Mechanics II Computation & Prog Solids I & Heat Transfer Thermodynamics Heat Transfer 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 maeadvising@cunet.carleton.ca **MAAE 2700 MAAE 3500 AERO 4306 Elective MAAE 2300 AERO 3700** Feedback Control Aerospace Vehicle Engineering Elective **ECOR 1046 ECOR 1042** Notes Fluid Mechanics I Aerospace Materials Materials Systems Performance (note a) Data Managemen (0.25 credit) (0.25 credit) (a) 0.5 credits from AERO 4402, AERO 4442 or AERO 4607 AND 1.0 credits in Mechanical and Aerospace **ECOR 1048 ECOR 1044** Engineering (MAAE, AERO, MECH) at the 4000-level. **Dvnamics** Mechatronics 2nd 2nd 2nd (0.25 credit) (0.25 credit) **ECOR 2050 CCDP 2100 ELEC 3605 SYSC 3600 Elective** Elective Design & Analysis Communication Systems & Engineering Elective Engineering Elective (b) Students must complete all first and second year **ECOR 1056** of Engineering Skills for ECOR 1055 Simulation (note a) Engineering (note a) Experiments Eng. Students 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 Professional Engineering Profession Portfolio Practice Economics (0.0 credit) (0.0 credit) (note c)

\*Arrow Legend
Required prerequisite

Concurrent prerequisite

\*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 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 <a href="mailto:EngAcadSupport@carleton.ca">EngAcadSupport@carleton.ca</a> for inquiries regarding this program map.

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