## **AEROSPACE ENGINEERING - STREAM C** 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 ELEC 3909 MAAE 4907** Differential Multivariable upholds course prerequisites. Course prerequisites Engineering Design Project (note b) Calculus for Linear Algebra for Equations & Mathematica Electromagnetic Calculus for Infinite Series for (1.0 credit) Eng. Students Eng. Students Methods I Waves 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 2nd Basic Science Chemistry for 2nd, 3rd, or 4th above the course box) vary year to Eng. Students Elective **ELEC 3105 AERO 3002 AERO 4003** year, please carefully review requirements for your **AERO 4504 ELEC 2501 ELEC 2507** Electromagnetic Aerospace Design Aerospace Systems Circuits & Signals Electronics I Avionics Systems catalog year. Fields & Practice 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 2101 MAAE 2400** SYSC 3501 **ELEC 2607 ELEC 3500 MAAE 2300 ECOR 1045 ECOR 1041** Engineering Thermodynamics Communication map. Contact your program advisor: Switching Circuits Digital Electronics Fluid Mechanics I Computation & Prog Dynamics & Heat Transfer Theory (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 **AERO 2001 MAAE 2202 MAAE 3500** Elective Elective **ELEC 3509** Aerospace **ECOR 1046 ECOR 1042** Mechanics of Feedback Control Engineering Elective Complementary **Notes** Electronics II Solids I Studies Elective Systems Mechanics Data Management (note a) Graphical Design (0.25 credit) (0.25 credit) (a) 1.5 credits in Mechanical and Aerospace Engineering (MAAE, AERO or MECH) at the 4000-level **ECOR 1048 ECOR 1044** or AERO 3240, AERO 3841, ELEC 4502, ELEC 4503, ELEC 2nd 2nd 2nd (0.25 credit) (0.25 credit) 4505, ELEC 4506, ELEC 4509, ELEC 4600, ELEC 4602, **ECOR 2050 CCDP 2100** ELEC 4609, ELEC 4703, ELEC 4706, ELEC 4707, ELEC **MAAE 2700 SYSC 3600** Elective **Elective** Design & Analysis Communication Engineering Elective Engineering Elective 4708, ELEC 4709, SYSC 4205, SYSC 4600 or SYSC 4607. ECOR 1055 **ECOR 1056** of Engineering Skills for Simulation (note a) (note a) Experiments Eng. Students Introduction to Introduction to Engineering Engineering (b) Students must complete all first and second year Disciplines I Disciplines II (0.0 credit) (0.0 credit) courses, as well as 3.5 credits of third year courses (with the exception of Complementary Studies Elective) to enroll in MAAE 4907 (Eng. Design Project).

**ECOR 2995** 

Engineering

Portfolio

(0.0 credit)

**ECOR 4995** 

Professional

Practice

(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 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.

**ECOR 3800** 

Engineering

Economics

**ECOR 1057** 

Engineering

Profession

(0.0 credit)

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

(c) ECOR 4995 can be taken in Winter term, if required

due to limited elective options in Winter term.