## **AEROSPACE ENGINEERING - STREAM C** Updated: 29/02/2024 Catalog Year: 202430 **FOURTH YEAR FIRST YEAR SECOND YEAR** THIRD YEAR **Notes** FALL **WINTER FALL WINTER FALL** WINTER **FALL** WINTER Course Prerequisites and Year Status Requirements The Faculty of Engineering and Design strictly upholds **MATH 1005 MATH 2004** course prerequisites. Course prerequisites are found in **MATH 1004 MATH 1104 MATH 3705 ELEC 3909** MAAE 4907 / ECOR 4907 Differ ential Multivariable Engineering Design Project (note b) Calculus for Linear Algebra for Equations & Electromagnetic the Undergraduate Calendar course descriptions, and are Calculus for Infinite Series for (1.0 credit) Eng. Students Eng. Students Methods I Waves Eng. Students indicated by arrows\* between courses in this program Eng. Students Year status in Engineering prerequisites (as noted by 2nd, 4th 3rd, or 4th above the course box) vary year to year, please **CHEM 1101** Elective 2nd 2nd 2nd Basic Science Chemistry for carefully review requirements for your catalog year. **AERO 4003 AERO 4504** Elective Eng. Students **ELEC 3105 AERO 3002** Aerospace Systems **ELEC 2501 ELEC 2507** Avionics Systems Electromagnetic Aerospace Design Design Circuits & Signals Electronics I & Practice Fields Academic Advising **PHYS 1004** Obtaining regular academic advising and support for Elective Introductory Complementary course planning is essential for engineering students who Electromagnetism Studies Elective & Wave Motion are "off-pattern" from their program map. Contact your 2nd 2nd **MAAE 2400** SYSC 3501 program advisor: Thermodynamics Communication **MAAE 2101** & Heat Transfer Theory **ELEC 2607 ELEC 3500 MAAE 2300** First year students (new and returning): **ECOR 1045** ECOR 1041 Engineering Fluid Mechanics I Switching Circuits Digital Electronics ECORSupport@carleton.ca Computation & Prog Statics Dynamics (0.25 credit) (0.25 credit) Second year and higher students: maeadvising@cunet.carleton.ca **ECOR 1047 ECOR 1043** Elective Elective Visual Comm. Circuits Engineering Elective Complementary (0.25 credit) (0.25 credit) 2nd 2nd Studies Elective (note a) Notes **AERO 2001** MAAE 2202 MAAE 3500 **ELEC 3509** Aerospace **ECOR 1046** ECOR 1042 Mechanics of Feedback Control (a) 1.5 credits in Mechanical and Aerospace Engineering Engineering Electronics II Solids I Systems Mechanics Data Management Graphical Design (MAAE, AERO or MECH) at the 4000-level (0.25 credit) (0.25 credit) or AERO 3240, AERO 3841, ELEC 4502, ELEC 4503, ELEC Elective Elective 4505, ELEC 4506, ELEC 4509, ELEC 4600, ELEC 4602, Engineering Elective Engineering Elective **ECOR 1048 ECOR 1044** (note a) (note a) ELEC 4609, ELEC 4703, ELEC 4706, ELEC 4707, ELEC Dynamics Mechatronics 4708, ELEC 4709, SYSC 4205, SYSC 4600 or SYSC 4607. 2nd 2nd 2nd (0.25 credit) (0.25 credit) **ECOR 2050 CCDP 2100 MAAE 2700 SYSC 3600** (b) Students must complete all first and second year Design & Analysis Communication Systems & courses, as well as 3.5 credits of third year courses (with Skills for ECOR 1055 **ECOR 1056** ofEngineering Materials Simulation Experiments Eng. Students Introduction to Introduction to the exception of Complementary Studies Elective) to **ECOR 4995** Engineering Engineering enroll in MAAE 4907 or ECOR 4907 (Eng. Design Project). Disciplines I Disciplines II Professional (0.0 credit) (0.0 credit) Practice (note c) (c) ECOR 4995 can be taken in Winter term, if required due to limited elective options in Winter term.

\*Arrow Legend

→ Required prerequisite

Concurrent prerequisite

**ECOR 1057** 

Engineering

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

**ECOR 3800** 

Engineering

Economics

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

(d) Please review Engineering Portfolio submission and

once 4th year status is achieved, either before or

concurrent with ECOR 4995.

registration instructions. Students register for ECOR 2995

ECOR 2995 Engineering Portfolio

(note d) (0.0 credit)