AEROSPACE ENGINEERING - STREAM A Catalog Year: 202330

Updated: 30/03/2023 **FIRST YEAR SECOND YEAR** THIRD YEAR **FOURTH YEAR** Notes **FALL WINTER FALL** WINTER **FALL** WINTER **FALL** WINTER Course Prerequisites and Year Status Requirements The Faculty of Engineering and Design strictly MATH 1005 **MATH 2004** MAAE 4907 / ECOR 4907 upholds course prerequisites. Course prerequisites **MATH 1004 MATH 1104 MATH 3705 AERO 3002** Differential Multivariable Calculus for Linear Algebra for Equations & Mathematica Aerospace Design Engineering Design Project (note b) are found in the Undergraduate Calendar course Calculus for Infinite Series for (1.0 credit) Eng. Students Eng. Students Methods I & Practice Eng. Students descriptions, and are indicated by arrows* between Eng. Students 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 Chemistry for Basic Science **AERO 4003 AERO 4308** Elective Eng. Students **AERO 2001** to year, please carefully review requirements for **MAAE 3004** MAAE 3202 MA AE 2101 Aerospace Systems Aircraft Stability Aerospace your catalog year. & Control Mechanics of Engineering Dynamics of Design Engineering Dynamics Machinery Solids II Graphical Design Academic Advising **PHYS 1004** Elective Introductory Complementary Obtaining regular academic advising and support Electromagnetism **AERO 4302** Studies Elective Elective & Wave Motion for course planning is essential for engineering 2nd Aerodynamics & Complementary students who are "off-pattern" from their program Heat Transfer Studies Elective **MAAE 2202 MAAE 3400 MAAE 2400 MAAE 3300** map. Contact your program advisor: ECOR 1045 ECOR 1041 Mechanics of Thermodynamics Fluid Mechanics II Computation & Prog Solids I & Heat Transfer Thermodynamics (0.25 credit) (0.25 credit) <u>First year students</u> (new and returning): ECORSupport@carleton.ca **ECOR 1047 ECOR 1043 AERO 4306** Elective Visual Comm. Circuits Second year and higher students: Aerospace Vehicle Engineering Elective (0.25 credit) (0.25 credit) 2nd Performance (note a) maeadvising@cunet.carleton.ca **MAAE 2700** MA AE 3500 **MAAE 2300 AERO 3700** Engineering Feedback Control **ECOR 1046 ECOR 1042** Notes Aerospace Materials Fluid Mechanics I Materials Systems Mechanics (0.25 credit) (0.25 credit) (a) 0.5 credits from AERO 4402, AERO 4442 or AERO Elective **Elective** 4607 AND 1.0 credits in Mechanical and Aerospace Engineering Elective Engineering Elective **ECOR 1044** (note a) (note a) **ECOR 1048** Engineering (MAAE, AERO, MECH) at the 4000-level. Dynamics Mechatronics 2nd 2nd 2nd (0.25 credit) (0.25 credit) (b) Students must complete all first and second year **ECOR 2050** CCDP 2100 **ELEC 3605** SYSC 3600 courses, as well as 3.5 credits of third year courses (with Design & Analysis Communication Systems & ECOR 1055 **ECOR 1056** of Engineering Skills for the exception of Complementary Studies Elective) to Engineering Simulation Experiments Introduction to Eng. Students enroll in MAAE 4907 or ECOR 4907 (Eng. Design Project). **ECOR 4995** Engineering Disciplines I Disciplines II Professional (0.0 credit) (0.0 credit) Practice (c) ECOR 4995 can be taken in Winter term, if required (note c) due to limited elective options in Winter term (d) Please review Engineering Portfolio submission and **ECOR 1057 ECOR 3800** Engineering registration instructions. Students register for ECOR 2995 Engineering Profession ECOR 2995 Engineering Portfolio once 4th year status is achieved, either before or Economics (0.0 credit) (note d) (0.0 credit) concurrent with ECOR 4995.

*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 EnaAcadSupport@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