COMMUNICATIONS ENGINEERING Catalog Year: 202330 Updated: 17/03/2023 **FOURTH YEAR FIRST YEAR SECOND YEAR** THIRD 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 SYSC 3310** SYSC 4907 / ECOR 4907 **MATH 1004 MATH 1104** SYSC 3503 Differ ential Multivariable Introduction to upholds course prerequisites. Course prerequisites Engineering Project Calculus for Linear Algebra for Equations & Communication Calculus for Real-Time Systems Infinite Series for (1.0 credit) Eng. Students Eng. Students Theory II are found in the Undergraduate Calendar course Eng. Students (note a) 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 **SYSC 4405 SYSC 4607** Chemistry for Basic Science 2nd, 3rd, or 4th above the course box) vary year to Digital Signal Wireless Eng. Students Elective **SYSC 2006** SYSC 4502 **SYSC 2010** year, please carefully review requirements for your Processing Communication SYSC 3500 Foundation Communication Programming of Imperative Software Signals & Systems catalog year. Project Programming (note a) Academic Advising **PHYS 1004** Elective Introductory Complementary Electromagnetism SYSC 4604 Obtaining regular academic advising and support Studies Elective SYSC 4700 & Wave Motion 2nd 2nd 3rd 2nd Telecomm. for course planning is essential for engineering Communication Engineering **SYSC 2320** Theory students who are "off-pattern" from their program SYSC 4602 **SYSC 2310** SYSC 2004 Computer ECOR 1041 **ECOR 1045** Introduction to Computer O.O. Software map. Contact your program advisor: Organization & Computation & Prop Digital Systems Communications Development Ar chitecture (0.25 credit) (0.25 credit) First year students (new and returning): ECORSupport@carleton.ca **ECOR 4995 ECOR 1043 ECOR 1047** SYSC 4701 Professional Communications Circuits Visual Comm Second year and higher students: Practice (0.25 credit) (0.25 credit) Systems Laboratory (note c) https://ughelp.sce.carleton.ca/ SYSC 2510 **ELEC 3909 ELEC 3509 ELEC 2501** Probability. Electromagnetic **ECOR 1042 ECOR 1046** Statistics & Random Notes Circuits & Signals Electronics I Waves Data Management Mechanics Processes (0.25 credit) (0.25 credit) (a) Requires C- (C minus) grade or better in SYSC 2006. **SYSC 4810** Elective Introduction to Complementary **ECOR 1044 ECOR 1048** Network & Software Studies Elective Dynamics (b) 1.0 credits in Electronics (ELEC) or Systems and (0.25 credit) (0.25 credit) Computer (SYSC) at the 3000- or 4000-level (may include **CCDP 2100 ECOR 2050 ECOR 3800** 1.0 credit in SYSC at the 5000-level). **ELEC 2507** Design & Analysis Communication Engineering Skills for ECOR 1055 **ECOR 1056** ofEngineering Electronics I Economics Ena. Students Experiments Introduction to Introduction to (c) ECOR 4995 can be taken in Fall term, if required due Elective Elective Engineering Engineering Disciplines I Disciplines II to limited elective options in Fall term. Engineering Elective Engineering Elective (0.0 credit) (0.0 credit) (note b) (note b) (d) Please review Engineering Portfolio submission and registration instructions. Students register for ECOR 2995 **ECOR 1057** once 4th year status is achieved, either before or IMPORTANT: A minimum grade of C- (C minus) is Engineering Profession **ECOR 2995 Engineering Portfolio** required in SYSC 2006 for degree progression. concurrent with ECOR 4995. (0.0 credit)

*Arrow Legend Required prerequisite

Concurrent prerequisite

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 EnaAcadSupport@carleton.ca for inquiries regarding this program map.

(note d) (0.0 credit)

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