Catalog Year: 202530 COMMUNICATIONS ENGINEERING

## **FIRST YEAR SECOND YEAR** THIRD YEAR **FOURTH YEAR Notes FALL FALL** WINTER WINTER **FALL** WINTER **FALL** WINTER Course Prerequisites and Year Status Requirements **MATH 1005** The Faculty of Engineering and Design strictly **MATH 2004** SYSC 3310 **MATH 1004 MATH 1104 ECOR 3800** SYSC 4907 / ECOR 4907 Differential Multivariable Introduction to upholds course prerequisites. Course prerequisites Engineering Project Calculus for Linear Algebra for Equations & Engineering Calculus for Real-Time Systems Eng. Students Infinite Series for (1.0 credit) Eng. Students Economics 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 2nd 2nd **PHYS 1004 CHEM 1101** 2nd, 3rd, or 4th above the course box) vary year to Chemistry for **SYSC 2320** Electromagnetism **SYSC 2310 SYSC 3600** SYSC 3501 **SYSC 4405** SYSC 4511 Eng. Students year, please carefully review requirements for your Computer & Wave Motion Introduction to Systems & Communication Digital Signal Digital Wireless Organization & catalog year. Digital Systems Simulation Theory Processing Communication Architecture **Academic Advising SYSC 1006** Elective Obtaining regular academic advising and support Foundation 2nd 2nd 3rd Complementary of Imperative for course planning is essential for engineering Studies Elective Programming **ECOR 2050 SYSC 3522** students who are "off-pattern" from their program **SYSC 2010** SYSC 3512 Design & Analysis Programming Computer SYSC 4505 SYSC 4700 of Engineering Software Lab map. Contact your program advisor: Project Communication Automatic Control Telecomm. Experiments (note a) Systems I Engineering First year students (new and returning): **ECOR 1031** ECORSupport@carleton.ca **ECOR 1033** Programming & Statics Data Management 2nd Second year and higher students: 2nd 2nd https://ughelp.sce.carleton.ca/ **SYSC 2510 ELEC 3105 ELEC 3909 ELEC 2501** Probability. Electromagnetic Electromagnetic Statistics & Random Circuits & Signals **Notes SYSC 4810** ECOR 4995 Fields Waves Processes Introduction to Professiona **ECOR 1032** Network & Software Practice **ECOR 1034** Circuits & (note d) (a) Requires C- (C minus) grade or better in SYSC 1006. Security Dynamics Mechatronics (b) 0.5 credit in Electronics (ELEC) or Systems and 2nd Computer (SYSC) at the 3000- or 4000-level (may include SYSC 2100 Elective 0.5 credit in SYSC at the 5000-level). **ELEC 2507 ELEC 3509** Algorithms & Data ECOR 1055 **ECOR 1056** Complementary Structures Introduction to Introduction to Studies Elective **Elective Elective** (note a) Engineering Engineering (c) 0.5 credit in either SYSC 4415 or SYSC 4416. Engineering Elective Engineering Elective Disciplines I Disciplines II (note b) (note c) (0.0 credit) (0.0 credit) (d) ECOR 4995 can be taken in Fall term, if required due to limited elective options in Fall term. **ECOR 1057 CCDP 2100** (e) Please review Engineering Portfolio submission and Elective Engineering Communication **IMPORTANT:** A minimum grade of C- (C minus) is Basic Science registration instructions. Students register for ECOR 2995 Profession Skills for **ECOR 2995 Engineering Portfolio** required in SYSC 1006 for degree progression. Elective (0.0 credit) Eng. Students (note e) (0.0 credit) once 4th year status is achieved, either before or 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

Concurrent prerequisite

Required prerequisite

Required prerequisite

Concurrent prerequisite

Required prerequisite

Required prerequisite

Adocument 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

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