Catalog Year: 202230

Ena. Students

Processes

IMPORTANT: A minimum grade of C- (C minus) is

required in SYSC 2006 for degree progression.

COMPUTER SYSTEMS ENGINEERING Updated: 04/18/2022 **FOURTH YEAR FIRST YEAR SECOND YEAR** THIRD YEAR **Notes 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 4907 / ELEC 4907 **MATH 1104** SYSC 3020 SYSC 3010 Differ ential Multivariable upholds course prerequisites. Course prerequisites Engineering Project Linear Algebra for Equations & Computer Systems Calculus for (1.0 credit) Infinite Series for Eng. Students Development Project Engineering are found in the Undergraduate Calendar course Eng. Students Eng. Students descriptions, and are indicated by arrows* between courses in this program map. **PHYS 1004** Year status in Engineering prerequisites (as noted by 2nd 2nd 2nd, 3rd, or 4th above the course box) vary year to Electromagnetism **SYSC 2006 SYSC 3310** & Wave Motion SYSC 2004 **SYSC 3303 SYSC 4310** Elective year, please carefully review requirements for your Foundation Introduction to O.O. Software Real-Time Computer Systems Complementary of Imperative Real-Time Systems catalog year. Development Concurrent Systems Studies Elective Ar chitecture Programming (note a) Academic Advising Elective Complementary Obtaining regular academic advising and support Studies Elective 2nd 2nd for course planning is essential for engineering **SYSC 2100** students who are "off-pattern" from their program **SYSC 2310 SYSC 3600** SYSC 4602 Elective SYSC 3320 Algorithms & Data **ECOR 1045** Introduction to Systems & Computer Systems Computer Engineering Elective map. Contact your program advisor: Structures Digital Systems Simulation Design Communications (note b) (note a) (0.25 credit) First year students (new and returning): ECORSupport@carleton.ca **ECOR 1047** Visual Comm Second year and higher students: (0.25 credit) 2nd https://ughelp.sce.carleton.ca/ **SYSC 2320** SYSC 4001 SYSC 3501 **SYSC 4805** Elective **ELEC 2501** Computer Operating Systems Communication Computer Systems Engineering Elective ECOR 1046 Organization & Notes Circuits & Signals Design Lab (note a) Theory (note b) Mechanics Ar chitecture (0.25 credit) (a) Requires C- (C minus) grade or better in SYSC 2006. **ECOR 1048** (b) 1.5 credits in Electronics (ELEC) or Systems and Computer Dynamics 2nd (0.25 credit) (SYSC) at the 3000- or 4000-level (may include up to 1.0 credits in SYSC at the 5000-level) or MECH 4503 **CCDP 2100** SYSC 2510 **ECOR 2050 SYSC 4810 Elective ELEC 2507** Communication Design & Analysis Probability. Introduction to Engineering Elective Skills for Statistics & Random Network & Software **ECOR 1056** ofEngineering Electronics I

3rd

ECOR 3800

Engineering

Economics

(c) ECOR 4995 can be taken in Fall term, if required due to limited elective options in Fall term.

(note b)

ECOR 4995

Professional

Practice

(note c)

Security

*Arrow Legend Required prerequisite

Concurrent prerequisite

Introduction to

Engineering

Disciplines II

(0.0 credit)

FALL

MATH 1004

Calculus for

Eng. Students

CHEM 1101

Chemistry for

Eng. Students

Elective Basic Science

Elective

ECOR 1041

Computation & Prop

(0.25 credit)

ECOR 1043

Circuits

(0.25 credit)

ECOR 1042

Data Management

(0.25 credit)

ECOR 1044

Mechatronics

(0.25 credit)

• ECOR 1055

Introduction to

Engineering

Disciplines I

(0.0 credit)

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

Experiments

ECOR 2995

Engineering

Portfolio

(0.0 credit)

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