SOFTWARE ENGINEERING

Students wanting to register in 2nd year status requirement courses must complete all first year Science, Mathematics and Engineering courses [including a C- (C minus) grade or better in all ECOR 104x courses]

**NOTES**

1. Requires C- (C minus) grade or better in COMP 1005.
2. Requires C- (C minus) grade or better in COMP 1006.
3. 1.0 credit in Systems and Computer (SYSC) or electronics (ELEC) courses at the 3000-level or above.
4. 0.5 credit in Basic Science Majors or ELEC 2507 or 4C4704.

**2nd, 3rd & 4th year status as a prerequisite**

- dashed arrow indicates concurrent prerequisite, dashed box indicates zero credit course

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**FIRST YEAR**

**FALL**
- EOR 1045 Mechanics (0.25 credit)
- ECOR 1046 Visual Comm (0.25 credit)
- ECOR 1047 Data Management (0.25 credit)
- ECOR 1048 Mechanics (0.25 credit)
- ECOR 1051 Introduction to Digital Systems (0.25 credit)
- ECOR 1052 Introduction to Engineering Disciplines I (0.25 credit)
- ECOR 1053 Introduction to Engineering Disciplines II (0.25 credit)
- ECOR 1054 Introduction to Engineering Disciplines III (0.25 credit)
- ECOR 1055 Introduction to Engineering Disciplines IV (0.25 credit)
- ECOR 1056 Introduction to Engineering Disciplines V (0.25 credit)
- ECOR 1057 Engineering Prof (0.25 credit)

**WINTER**
- MATH 1004 Calculus for Eng. Students
- CHEM 1101 Chemistry for Eng. Students
- PHYS 1004 Introductory Electromagnetism & Wave Motion
- Elective Basic Science Elective
- Elective Complementary Studies Elective

**SECOND YEAR**

**FALL**
- EOR 2000 Intro to Computer Science
- EOR 2001 Intro to Data Science
- EOR 2002 Intro to Machine Learning
- EOR 2003 Intro to Artificial Intelligence
- EOR 2004 Intro to Quantum Computing
- EOR 2005 Intro to Blockchain Technology
- EOR 2006 Intro to Cybersecurity
- EOR 2007 Intro to Internet of Things
- EOR 2008 Intro to Human-Computer Interaction

**WINTER**
- EOR 3000 Intro to Software Engineering
- EOR 3001 Intro to Software Design
- EOR 3002 Intro to Software Architecture
- EOR 3003 Intro to Software Testing
- EOR 3004 Intro to Software Maintenance
- EOR 3005 Intro to Software Engineering Management
- EOR 3006 Intro to Software Quality Assurance
- EOR 3007 Intro to Software Prototyping
- EOR 3008 Intro to Software Configuration Management

**THIRD YEAR**

**FALL**
- EOR 4000 Advanced Software Engineering
- EOR 4001 Advanced Software Design
- EOR 4002 Advanced Software Architecture
- EOR 4003 Advanced Software Testing
- EOR 4004 Advanced Software Maintenance
- EOR 4005 Advanced Software Engineering Management
- EOR 4006 Advanced Software Quality Assurance
- EOR 4007 Advanced Software Prototyping
- EOR 4008 Advanced Software Configuration Management

**WINTER**
- EOR 5000 Advanced Software Engineering II
- EOR 5001 Advanced Software Design II
- EOR 5002 Advanced Software Architecture II
- EOR 5003 Advanced Software Testing II
- EOR 5004 Advanced Software Maintenance II
- EOR 5005 Advanced Software Engineering Management II
- EOR 5006 Advanced Software Quality Assurance II
- EOR 5007 Advanced Software Prototyping II
- EOR 5008 Advanced Software Configuration Management II

**FOURTH YEAR**

**FALL**
- EOR 6000 Research Project
- EOR 6001 Research Proposal
- EOR 6002 Research Administration
- EOR 6003 Research Skills Development
- EOR 6004 Research Publications
- EOR 6005 Research Grants
- EOR 6006 Research Ethics
- EOR 6007 Research Collaboration
- EOR 6008 Research Communication

**WINTER**
- EOR 7000 Research Project II
- EOR 7001 Research Proposal II
- EOR 7002 Research Administration II
- EOR 7003 Research Skills Development II
- EOR 7004 Research Publications II
- EOR 7005 Research Grants II
- EOR 7006 Research Ethics II
- EOR 7007 Research Collaboration II
- EOR 7008 Research Communication II

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**NOTES**

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2. Requires C- (C minus) grade or better in COMP 1006.
3. 1.0 credit in Systems and Computer (SYSC) or electronics (ELEC) courses at the 3000-level or above.
4. 0.5 credit in Basic Science Majors or ELEC 2507 or 4C4704.
5. Students must complete all first and second year courses, as well as 3.5 credits of third year (including Complementary Electives) to enrol in SYSC 4907.