



**DEGREE CHECKLIST
2017-2018**

**BACHELOR OF ENGINEERING (BEng)
ELECTRICAL ENGINEERING**

NAME

STUDENT #

Students are strongly advised to refer to online Academic Calendars before enrolling into courses: <http://calendars.registrar.yorku.ca/>

| | COURSES | CREDITS EARNED | GRADE |
|----------------------------|--|---------------------------|--------------|
| First Year Courses | | | |
| <input type="checkbox"/> | SC/CHEM 1100 4.00 Chemistry and Materials Science for Engineers | | |
| <input type="checkbox"/> | LE/EECS 1011 3.00 Computational Thinking Through Mechatronics | | |
| <input type="checkbox"/> | LE/EECS 1021 3.00 Object Oriented Programming from Sensors to Actuators | | |
| <input type="checkbox"/> | LE/EECS 1028 3.00 Discrete Mathematics for Engineers | | |
| <input type="checkbox"/> | LE/ENG 1101 4.00 Renaissance Engineer 1: Ethics, Communication and Problem Solving | | |
| <input type="checkbox"/> | LE/ENG 1102 4.00 Renaissance Engineer 2: Engineering Design Principles | | |
| <input type="checkbox"/> | SC/MATH 1013 3.00 Applied Calculus I | | |
| <input type="checkbox"/> | SC/MATH 1014 3.00 Applied Calculus II | | |
| <input type="checkbox"/> | SC/MATH 1025 3.00 Applied Linear Algebra | | |
| <input type="checkbox"/> | SC/PHYS 1800 3.00 Engineering Mechanics | | |
| <input type="checkbox"/> | SC/PHYS 1801 3.00 Electricity, Magnetism and Optics for Engineers | | |
| Second Year Courses | | | |
| <input type="checkbox"/> | LE/EECS 2021 4.00 Computer Organization | | |
| <input type="checkbox"/> | LE/EECS 2030 3.00 Advanced Object Oriented Programming | | |
| <input type="checkbox"/> | LE/EECS 2031 3.00 Software Tools | | |
| <input type="checkbox"/> | LE/EECS 2200 3.00 Electrical Circuits | | |
| <input type="checkbox"/> | LE/EECS 2210 3.00 Electronic Circuits and Devices | | |
| <input type="checkbox"/> | LE/EECS 2602 4.00 Signals and Systems in Continuous Time | | |
| <input type="checkbox"/> | LE/ENG 2001 3.00 Engineering Projects: Management, Economics & Safety | | |
| <input type="checkbox"/> | LE/ENG 2003 3.00 Effective Engineering Communication | | |
| <input type="checkbox"/> | SC/MATH 2015 3.00 Applied Multivariate and Vector Calculus | | |
| <input type="checkbox"/> | SC/MATH 2930 3.00 Introduction to Probability and Statistics | | |
| <input type="checkbox"/> | SC/PHYS 2020 3.00 Electricity and Magnetism | | |
| <input type="checkbox"/> | SC/PHYS 2211 1.00 Experimental Electromagnetism | | |
| <input type="checkbox"/> | At least 3 additional credits from SC/BIOL 1000 3.00, SC/BIOL 1001 3.00, SC/CHEM 1001 3.00, SC/CHEM 2011 3.00, LE/ESSE 1011 3.00, LE/ESSE 1012 3.00, SC/PHYS 1070 3.00 [alternatively SC/PHYS 1470 3.00], SC/PHYS 2010 3.00, SC/PHYS 2040 3.00, SC/PHYS 2060 3.00, HH/IHST 1001 3.00, HH/IHST 1002 3.00 | | |

| | COURSES | | CREDITS EARNED | GRADE |
|--|--------------------------|--|-------------------|-------|
| Third Year Courses | | | | |
| | <input type="checkbox"/> | LE/EECS 3201 4.00 Digital Logic Design | | |
| | <input type="checkbox"/> | LE/EECS 3215 4.00 Embedded Systems | | |
| | <input type="checkbox"/> | LE/EECS 3602 4.00 Systems and Random Processes in Discrete Time | | |
| | <input type="checkbox"/> | LE/EECS 3603 4.00 Electromechanical Energy Conversion | | |
| | <input type="checkbox"/> | LE/EECS 3604 4.00 Electromagnetic Theory and Wave Propagation | | |
| | <input type="checkbox"/> | LE/ENG 3000 3.00 Professional Engineering Practice | | |
| | <input type="checkbox"/> | ES/ENVS 2150 3.00 Environment, Technology and Sustainable Society or LE/ESSE 2210 3.00 Engineering and the Environment | | |
| | <input type="checkbox"/> | LE/ENG 4550 3.00 Introduction to Control Systems | | |
| EE Technical Electives see below (3-6 Credits) | <input type="checkbox"/> | | | |
| Complementary Studies (6 credits) | <input type="checkbox"/> | | | |
| | <input type="checkbox"/> | | | |
| Fourth Year Courses | | | | |
| | <input type="checkbox"/> | LE/ENG 4000 6.00 Engineering Project | | |
| Complementary Studies (6 credits) | <input type="checkbox"/> | | | |
| | <input type="checkbox"/> | | | |
| At least 28 additional credits of Electrical Engineering technical electives from the following two lists (normally to be taken in 3rd and 4th year): | | | | |
| a) At least 16 credits from a list of EE major courses: LE/EECS 3611 4.00, LE/EECS 3612 4.00, LE/EECS 4214 4.00, LE/EECS 4611 4.00, LE/EECS 4612 4.00, LE/EECS 4613 4.00, LE/EECS 4614 4.00, LE/EECS 4621 4.00, LE/EECS 4622 4.00, LE/EECS 4623 4.00, LE/EECS 4641 4.00, LE/EECS 4642 4.00, LE/EECS 4643 4.00 | <input type="checkbox"/> | | | |
| | <input type="checkbox"/> | | | |
| | <input type="checkbox"/> | | | |
| | <input type="checkbox"/> | | | |
| b) Additional credits from a list of general EECS courses below: LE/EECS 3213 3.00, LE/EECS 3214 3.00, LE/EECS 3221 3.00, LE/EECS 4201 3.00, LE/EECS 4210 3.00, LE/EECS 4215 3.00, LE/EECS 4221 3.00, LE/EECS 4352 3.00, LE/EECS 4403 3.00, LE/EECS 4404 3.00, LE/EECS 4413 3.00, LE/EECS 4421 3.00, LE/EECS 4422 3.00, LE/EECS 4452 3.00, LE/EECS 4471 3.00 | <input type="checkbox"/> | | | |
| | <input type="checkbox"/> | | | |
| | <input type="checkbox"/> | | | |
| | <input type="checkbox"/> | | | |
| | <input type="checkbox"/> | | | |
| TOTAL CREDITS & CGPA (minimum overall GPA of 5.00 required to graduate in the BEng program) | | | | |
| General Prerequisite: Most 2000-, 3000-, and 4000-level EECS courses require the following general (that is, common) prerequisites, in addition to other course-specific prerequisites: a cumulative grade point average of 4.50 or better over all completed major EECS courses. Note: "Major" courses are all EECS courses with second digit other than 5 and include LE/EECS 1028 3.00 (cross-listed to: SC/MATH 1028 3.00) and LE/EECS 1019 3.00 (cross-listed to: SC/MATH 1019 3.00). | | | | |
| Participation in the Co-Op Program is highly recommended for all engineering students, but is not a degree requirement. | | | | |
| Notes | | | | |
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| BEng, Electrical Engineering | | | | |
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