

**A (Program Name):**

Software Engineering

**B (Program Description):**

Software Engineering is a 4-year program of study taught by the Department of Computing and Software. This program provides an excellent foundation in relevant engineering practices and methodologies as well as fundamental computer science, followed by rigorous study of how to engineer safe, correct and sustainable software. Admission is via a two-step process: students must first be admitted to a common first year (Engineering 1), then applications are made for admission to a chosen specializations. After three further years of study, successful students will obtain a B.Eng. (Bachelor of Engineering) degree. As Software Engineering is accredited by Professional Engineers of Ontario (PEO), students are eligible to apply for a Professional Engineer (P.Eng.) designation.

**C (Program Specific story):**

Software Engineering graduates are in high demand in today's IT market. Our program provides excellent engineering and computing education and so the graduates are hired in a wide variety of positions within the computing market. The Software Engineering program at McMaster is especially strong for those wishing to build "Engineering Software", such as embedded and/or safety critical software; as well as those interested in high-assurance software. Students interested in management positions can further benefit from the Management option.

**D (Program specific contacts):**

- Associate Chair for Undergraduate Studies: Dr. W. Kahl
- Undergraduate Advisor for Software Engineering: Dr. J. Carette

**E (Area of interests):**

Software Engineering graduates can find employment in a wide variety of industries, from IT firms, and also in places where software is 'hidden', such as automotive, nuclear, medical, manufacturing, and retail.

**F (Program streams or specialties):**

The program can be coupled with two optional study streams: Management and Society. The Management option provides students with knowledge and tools for successful management careers, while the Society option provides students with an understanding of a wide variety of social aspects of engineering and their impact on society, be it sustainability, climate change, or the social impact of engineering projects. Any program can be coupled with a co-op or internship.

**G (Career possibilities):**

Most graduates start out being developers, but a wide variety of software-intensive industries, from large companies to start-ups. McMaster, through The Forge, provides a lot of help to entrepreneurial students with bright new ideas.

**H (Program Co-op Info):**

<https://www.eng.mcmaster.ca/co-op-career/co-op-program>