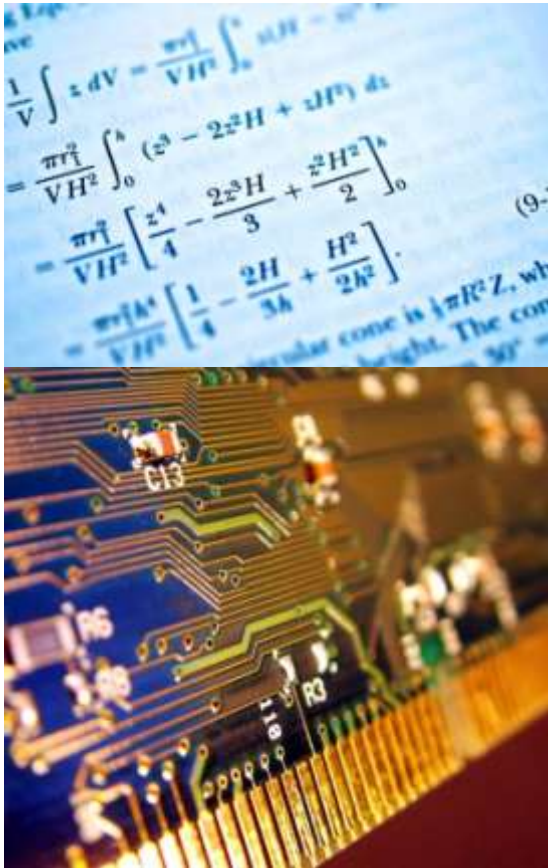


# Mathematics and Computing Science



## What is Mathematics and Computing Science?

**Mathematics** is the science and study of quantity, structure, space, and change. Mathematicians seek out patterns, formulate new assumptions, and establish truth by rigorous deduction from appropriately accepted theories and definitions.

**Computing Science** is the science of computational processes and systems, and studies the concepts of algorithm, complexity, information, randomness, language, artificial intelligence, system and software design and implementation, as well as the application of these concepts to areas like human communications, entertainment, administration, and physical, social and health sciences.

**Average Class Size:** 10-60

**Length of Program:** 3-4 years

**Example Careers:** Accountant, computer programmer, IT consultant, computer engineer, teacher, professor, mathematician, technical information specialist, etc.

For additional examples of which careers students have followed, visit: <http://www.smu.ca/administration/career/science.html>

## Program Requirements

Grade 12 Students must have:

- Grade 12 English Academic
- Pre Calculus 12 or Calculus 12
- 2 Academic 12 Science courses
- 1 additional Academic 12 course
- A minimum average of 65% with no mark below a 60%

## Your First Year

First year students must follow the Basic Science Requirements which allow you to explore subjects from Arts, Science and Commerce. These requirements help you develop important intellectual and academic skills. This will provide you with the solid foundation needed to begin your Science degree. Some courses you may take in your first year to help you prepare for Mathematics or Computing Science include:

**Introductory Calculus I MATH 1210**  
**Introductory Calculus II MATH 1211**



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**Accelerated Computer Programming  
and Problem Solving COMP 1228  
Internet Technologies & Web  
Programming COMP 2355**



Being in an interdisciplinary degree allows students to choose their area of interest. Some areas of focus include:

- Aerospace Engineering
- Astronomy
- Computer Engineering
- Economics
- Statistics
- Video Game Development
- Web Development
- Computer Animation
- Research

Please refer to our [Academic Calendar](#) for an inclusive list of courses, complete with course descriptions and detailed information about the program.

**Life as a Mathematics and  
Computing Science Student at Saint  
Mary's University**

At Saint Mary's there are many options for students to get involved on campus. The **Mathematics and Computing Science Society** is the perfect opportunity for Mathematics and Computing Science students. The society acts as a resource and social centre for students who are interested in Mathematics and Computing Science, or even those who are just interested in chatting with likeminded individuals. **The Mathematics and Computing Science Society** hosts an assortment of annual events, such as the **conferences and workshops, Pool Nights at Dooly's, and Movie and Comic Strip Nights** where students can showcase their work.



**Contact Information**

**Department of Math and Computing  
Science**

<http://www.smu.ca/academic/science/compsci/welcome.html>

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<http://www.smu.ca>



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