Computing and Mathematics SPECIALIST MAP
BACHELOR OF COMPUTING HONOURS (SPECIALIZATION)

MORE WAYS YOU CAN:

1ST AND 2ND YEAR

GET THE COURSES YOU NEED
1st year: Take MATH 110 or 111, MATH 120 or MATH 121 or MATH 122 or MATH 123, 124.

GET RELEVANT EXPERIENCE
Join one or more of the many computer related clubs on campus including the Queen's Game Developers, the FIRST Robotics Team, the Mostly Autonomous Sailboat Team. Look for research opportunities at the School of Computing and the Department of Math and Statistics.

GET CONNECTED WITH THE COMMUNITY
Join clubs on campus such as the Queen's Math Club, Math Bridge and the Math Investigations Program.

3RD AND 4TH YEAR

FOR Upper year requirements, see the School of Computing website.

Join the Queen's Reliable Software Technology Group or pursue opportunities at the Surveillance Studies Center.

Join professional associations like the Canadian Applied and Industrial Mathematics Society.

WHERE COULD I GO AFTER GRADUATION?
COMA is aimed at students aiming to do graduate work in Theoretical Computing or a branch of Computing requiring significant mathematical knowledge. As such, career options include:
- Researcher
- Optimization
- Cryptographer
- Data Analyst

WHAT CAN I LEARN STUDYING COMPUTING AND MATHEMATICS AT QUEEN'S?
- Proficiency in mathematics
- Computer programming and computational thinking
- Apply mathematical concepts and methods to computing

WHY STUDY COMPUTING AND MATHEMATICS AT QUEEN'S?
The Computing and Mathematics Specialization is intended for students aiming at graduate work in the theory of Computing or in an applied area of Computing that requires significant mathematical expertise, such as communications, optimization, security, or biomedical computing. This program will give students a potent combination of Computer Science and Mathematics as it relates to research in Computing, and will prepare graduates well for advanced degrees or careers in a variety of areas in industry.

Caution: This map is meant as a guide to suggest considerations throughout your university career. The activities, resources, and careers mentioned are possibilities – you are not restricted to them and don't have to follow this exact timeline.