

## Computer Science

Home Department: Mathematical Sciences, Computer Science Division  
Faculty of Science

### Description of focal area

Computer Science studies the principles and practice of computation and data processing; it considers problem-solving techniques and data manipulation for everything from routing data over the Internet and powering your social media feeds, to controlling GPS satellites, manufacturing robots, or even your computer.

BDatSci			
Focal area: Computer Science			
First year (120 credits)	Second year (128 credits)	Third year (128 credits)	Fourth year (132 credits)
<b>Compulsory modules</b> Computer Science 113(16), 144(16) Data Science 141(16) Mathematics 114(16), 144(16) Probability Theory and Statistics 114(16) Actuarial Science 112(8) Mathematics 154(16)	<b>Compulsory modules</b> Data Science 241(16) Computer Science 214(16), 244(16) Mathematics 214(16), 244(16) Mathematical Statistics 214(16), 245(8), 246(8) Operational Research 214(16)	<b>Compulsory modules</b> Mathematical Statistics 312(16) Computer Science 315(16), 314(16), 343(16), 344(16), 345(16) Data Science 316(16), 346(16)	<b>Compulsory modules</b> Introduction to Statistical Learning 441(12) Functional programming 441(16) Space Science algorithms 441(16) Computer Science 411(16) Advanced algorithms 441(16) Machine Learning 441(16) Data Science Research Assignment 441(40)