

## Applied Mathematics

Home Department: Mathematical Sciences, Applied Mathematics Division  
Faculty of Science

### Description of focal area

Applied mathematics looks at real world applications of mathematical methods in fields such as science, engineering, business, computer science and industry. It is therefore a combination of mathematics, science and domain knowledge.

BDatSci			
Focal area: Applied Mathematics			
First year (120/128 credits)	Second year (128 credits)	Third year (128 credits)	Fourth year (132 credits)
<p><b>Compulsory modules</b> Computer Science 113/114(16), 144(16) Data Science 141(16) Mathematics 114(16), 144(16) Probability Theory and Statistics 114(16) Applied Mathematics 144(16)</p> <p><b>Plus one of</b> Actuarial Science 112(8) or Physics 114(16)</p>	<p><b>Compulsory modules</b> Data Science 241(16) Computer Science 214(16), 244(16) Mathematics 214(16) Mathematical Statistics 214(16), 245(8), 246(8) Applied Mathematics 214(16), 244(16)</p>	<p><b>Compulsory modules</b> Mathematical Statistics 312(16) Computer Science 315(16), 343(16) Data Science 316(16), 346(16) Applied Mathematics 314(16), 354(16), 364(16)</p>	<p><b>Compulsory modules</b> Introduction to Statistical Learning 441(12) Numerical Methods 441(16) Graph theory 441(16) Computer vision 441(16) Digital image processing 441(16) Machine Learning 441(16) Data Science Research Assignment 441(40)</p>