

Online Course Offerings - Fall 2021 - Winter 2022

Course	Name	Term	Delivery	Schedule	Notes
AER1216H	Fundamentals of UAVs	F	Async	Schedule	
AER1403H	Advanced Aerospace Structures	F	Sync	Schedule	
AER1513H	State Estimation for Aerospace Vehicles	F	Sync	Schedule	
AER1601H	Aerospace Engineering and Operations Management	F	Sync	Schedule	Restricted to AER students
APS1001H	Project Management	F/W	Async	Schedule	
APS1004H	Human Resources Management: An Engineering Perspective	W	Sync	Schedule	
APS1009H	Natural Resources Management	F	Sync	Schedule	
APS1012H	Management of Business Innovation and Transformational Change	W	Sync/Async	Schedule	
APS1013H	Applying Innovation in Engineering and Business Operations	F	Sync/Async	Schedule	
APS1016H	Financial Management for Engineers	F	Async	Schedule	
APS1020H	International Business for Engineers	F	Sync	Schedule	
APS1023H	New Product Innovation	F	Sync	Schedule	
APS1028H	Operations and Production Management for Manufacturing and Services	W	Sync/Async	Schedule	
APS1035H	Technology Sales for Entrepreneurs	F	Sync/Async	Schedule	
APS1049H	Management Consulting For Engineers	F	Sync/Async	Schedule	
APS1050H	Blockchain Technologies And Cryptocurrencies	F/W	Sync	Schedule	
APS1051H	Portfolio Management Praxis Under Real Market Constraint	F/W	Sync	Schedule	
APS1052H	A.I. in Finance	F/W	Sync	Schedule	
APS1070H	Foundations of Data Analytics and Machine Learning	F/W	Sync	Schedule	Meng students have priority
APS1080H	Introduction to Reinforcement Learning	F/W	Async	Schedule	
APS1088H	Business Planning and Execution for Canadian Entrepreneurs	F	Sync/Async	Schedule	
APSS500H	Research Methods and Project Execution	W	Synif	Schedule	Research stream course; in-person final or assessment
BME1453H	Genomics and Synthetic Nucleic Acid Technologies	F	Sync	Schedule	Research Stream Course
BME1454H	Regenerative Medicine: Fundamentals and Applications	F	Sync	Schedule	Research Stream Course
BME1466H	Advanced Topics on Magnetic Resonance Imaging	W	Async	Schedule	Research Stream Course
BME1471H	Rehabilitation Engineering	W	Sync	Schedule	Research Stream Course
BME1472H	Fundamentals of Neuromodulation Technology and Clinical Applications	F	Sync	Schedule	Research Stream Course
BME1478H	Coding for Biomedical Engineers	W	Async	Schedule	Research Stream Course
BME1500H	Topics in Neuromodulation	F	Sync	Schedule	Research Stream Course
CHE1053H	Electrochemistry	W	Sync	Schedule	
CHE1100H	Fundamentals of Chemical Engineering	F	Async	Schedule	
CHE1107H	Applied Mathematics	F	Sync	Schedule	
CHE1123H	Liquid Biofuels	W	Sync	Schedule	
CHE1125H	Modelling and Optimization of Chemical/Biomedical Networks	F	Sync	Schedule	
CHE1147H	Data Mining in Engineering	F	Async	Schedule	
CHE1148H	Data Process Analytics	W	Async	Schedule	
CHE1151H	Engineering Systems Sustainability	F	Sync	Schedule	
CHE1213H	Corrosion	W	Sync	Schedule	
CHE1333H	Introduction to Nanomaterials and Nanomedicine	F	Async	Schedule	
CIV1398H	Waterpower Essentials	F	Async	Schedule	
CIV1399H	Passive Water Treatment Systems	F	Async	Schedule	
CIV1508H	Airport Planning and Engineering	F	Sync	Schedule	Online only for first 3 weeks
ECE1094H	Power System Operations and Economics	F	Sync	Schedule	updated-Aug 19
ECE1513H	Introduction to Machine Learning	F/W	Async	Schedule	updated-Aug 19
ECE1762H	Algorithms and Data Structures	F	Sync	Schedule	updated-Aug 19
ECE1779H	Introduction to Cloud Computing	F/W	Sync	Schedule	restricted to ECE Students; updated Aug 19
JCC1313H	Environmental Microbiology	F	Synif	Schedule	in-person final or assessment
JCR1000Y	Interdisciplinary Approach to Global Challenges	F	Sync	Schedule	Full credit course - runs Sept - Apr
JEB1433H	Medical Imaging	W	Sync	Schedule	Research Stream Course
JPB1022H	Human Physiology as Related to Engineering II	F	Sync	Schedule	Research Stream Course
JTC1134H	Applied Surface and Interface Science	W	Sync	Schedule	
MIE1080H	Healthcare Robotics	W	Sync	Schedule	
MIE1622H	Computational Finance and Risk Management	W	Sync	Schedule	
MIE1624H	Introduction to Data Science and Analytics	F/W	Sync	Schedule	
MIE1628H	Big Data	F/W	Sync	Schedule	
MSE1061H	Engineered Ceramics	F	Asyif	Schedule	Asynchronous delivery with In Person Final
TEP1010H	Cognitive and Psychological Foundations of Effective Leadership	W	Async	Schedule	
TEP1026H	Positive Psychology for Engineers	F	Async	Schedule	
APS1018H	The Engineer in Society: Ethics, History, Philosophy	S	Sync/Async	Schedule	Added Sept 03-2021

Updated Sept 3, 2021

Please be advised that online courses have enrolment limits, much like in-person courses. Enrolment in the courses is not guaranteed.

- **Online Synchronous (SYNC)** meeting sections require online attendance at a specific time for some or all activities. Attendance at a specific location is not required for any activities or exams.
- **Asynchronous (ASYNCR)** meeting sections do not require attendance at a specific time or location for any activities or exams.
- **Online Synchronous (In Person Final) (SYNIF)** meeting sections may require attendance at a specific time and location for the final exam or final assessment (subject to adjustments imposed by public health requirements). Online attendance at a specific time is required for some or all other activities.

F = Fall Term; W = Winter Term