

TERM 8 - CLASS OF 2019 - Winter 2019

COMPLEMENTARY STUDIES

For graduation, you must also have passed the seven complementary studies courses with an average over these seven courses of at least 60%. If you have not already done so, please submit a [Complementary Studies Self Audit form.](#)

	Course #	Course Name	Instructor
ENGI	4102	Engineering Economics	Shekari, E
ENGI	8151	Technology, Sustainable Society and International Development	Hurley, S

TERM 8 - CLASS OF 2019 - Winter 2019**CIVIL**

Course #	Course Name	Instructor
	Required:	
ENGI 8152(004)	Engineering Professionalism II	Spracklin-Reid/Rosales
ENGI 8700	Civil Engineering Project - multiple sections	Bruneau, S/Peach, B
ENGI 8740	Contract Law and Labour Relations	Wellon, R

Technical Electives - choose three electives in total**Choose up to 3 electives from:**

ENGI 8705	Structural Building Systems	Adluri, S
ENGI 8713	Municipal Engineering	Snelgrove, K
ENGI 8717	Environmental Assessment	Saady, N
ENGI 8751	Coastal and Ocean Engineering	Bruneau, S
ENGI 8673	Subsea Pipeline Engineering	Shiri, H

Choose up to 1 elective from:

ENGI 8074	Arctic Ocean Engineering	Daley, C
ENGI 8676	Design of Natural Gas Handling Equipment	Aborig,A
ENGI 8670	Reliability Engineering (Distance)	Khan, F/TBA
ENGI 8690	Reservoir Engineering	Aborig,A
ENGI 8992	Arctic Offshore Engineering	Taylor, R.

TERM 8 - CLASS OF 2019 - Winter 2019**COMPUTER**

		Required:	
ENGI	8152(002)	Engineering Professionalism II	Spracklin-Reid/Rosales
ENGI	8854	CoE Design Project	Czarnuch, S
ENGI	8894	RT Operating Sys / Embedded and RT Systems Design	Anderson, J.
		Technical Electives (choose 2):	
ENGI	7680	Supervisory Control and Data Acquisition	Masek, V.
ENGI	8814	Computer Vision	Shehata, M.
ENGI	8877	Wireless and Mobile Communications	Ibrahim, A
ENGI	8824	Design of Digital Signal Processing Systems	TBA
ENGI	8826	Filter Synthesis	Arunthavanathan, R
ENGI	8868	Computer and Communications Security	Heys, H
		Computer Science elective (must be approved by Department Head)	
ENGI	8103	Engineering in Medicine	Nakhla, S
HKR	4703-002	Occupational Ergonomics and Sport Biomechanics	Byrne, J
		Free Elective:	
		approved by Department Head	

ELECTRICAL

		Required:	
ENGI	8152(002)	Engineering Professionalism II	Spracklin-Reid/Rosales
ENGI	8853	EE Design Project	Czarnuch, S
ENGI	8826	Filter Synthesis	Arunthavanathan, R
		Technical Electives (choose 2):	
ENGI	5865	Digital Systems	House, A
ENGI	7680	Supervisory Control and Data Acquisition	Masek, V.
ENGI	7814	Antennas	TBA
ENGI	8814	Computer Vision	Shehata, M.
ENGI	8824	Design of Digital Signal Processing Systems	TBA
ENGI	8877	Wireless and Mobile Communications	Ibrahim, A
ENGI	8845	Power System Operation	Liang, X
ENGI	8103	Engineering in Medicine	Nakhla, S
HKR	4703-002	Occupational Ergonomics and Sport Biomechanics	Byrne, J
		Free Elective:	
		approved by Department Head	

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MECHANICAL

		Required:	
ENGI	8152(001)	Engineering Professionalism II	Spracklin-Reid/Rosales
ENGI	8926	Mechanical Project II	Sharan, A
		9 credit hours from Technical Stream Courses	
		Students may experience scheduling difficulties if courses are selected from more than one technical stream.	
		Complementary studies course may be taken out of term if not yet completed as per Complementary Studies Self Audit form.	
		<u>Mechanics and Materials</u>	
		<u>All stream students are required to take:</u>	
ENGI	8933	Fatigue and Fracture	Nasiri, A
		<u>Plus two technical electives from below:</u>	
ENGI	8103	Engineering in Medicine	Nakhla, S
ENGI	8911	Corrosion and Corrosion Control	Shirokoff, J.
ENGI	8937	Machine Dynamics	Yang, J
ENGI	8946	Modelling and Simulation of Dynamic Systems	Rideout G.
ENGI	8982	Mechanical Behaviour of Composites	Nakhla, S
ENGI	8992	Arctic Offshore Engineering	Taylor, R.
		<u>Mechatronics</u>	
		<u>All stream students are required to take:</u>	
ENGI	8946	Modelling and Simulation of Dynamic Systems	Rideout G.
		<u>Plus two technical electives from below:</u>	
ENGI	8103	Engineering in Medicine	Nakhla, S
ENGI	8814	Computer Vision	Shehata, M.
ENGI	8826	Filter Synthesis	TBA
ENGI	8937	Machine Dynamics	Yang, J
		<u>Petroleum Technical Stream</u>	
		<u>All stream students are required to take:</u>	
ENGI	8690	Reservoir Engineering	Aborig, A
		<u>Plus two technical electives from below:</u>	
ENGI	8673	Subsea Pipeline Engineering	Shiri, H
ENGI	8676	Design of Natural Gas Handling Equipment	TBA
ENGI	8911	Corrosion and Corrosion Control	Shirokoff, J.
ENGI	8992	Arctic Offshore Engineering	Taylor, R.
		<u>Thermo Fluids</u>	
		<u>All stream students are required to take:</u>	
ENGI	8903	Design of Thermal Systems	Muzychka, Y
		<u>Plus two technical electives from below:</u>	
ENGI	8103	Engineering in Medicine	Nakhla, S
ENGI	8984	Sustainable Energy Systems	Pope, K
ENGI	8947	Computational Fluid Mechanics	Hookey, N
ENGI	8965	Advanced Fluid Dynamics	Duan, X
		<u>Biomedical Stream</u>	
		<u>All stream students are required to take:</u>	
HKR	4703-001	Occupational Ergonomics and Sport Biomechanics	Byrne, J
		<u>Plus two technical electives from below:</u>	
ENGI	8103	Engineering in Medicine	Nakhla, S
ENGI	8814	Computer Vision	Shehata, M.
ENGI	8947	Computational Fluid Mechanics	Hookey, N

* Other courses may be taken with approval of Department Head

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		Required:	
ENGI	8152(005)	Engineering Professionalism II	Spracklin-Reid/Rosales
ENGI	8000	ONAE Project	Veitch, B
		Technical Electives (choose 3):	
ENGI	8054	Advanced Marine Vehicles	Molyneux, D
ENGI	8074	Arctic Ocean Engineering	Daley, C
ENGI	8075	Finite Element Analysis of Marine Structures	Quinton, B
ENGI	8670	Reliability Engineering (Distance)	Khan, F/TBA
ENGI	8673	Subsea Pipeline Engineering	Shiri, H
ENGI	8751	Coastal and Ocean Engineering	Bruneau, S
		Other courses with permission from the Department Head	

Term 8, Class of 2019 should follow the 2015-16 University Calendar

PROCESS

ENGI	8152(003)	Engineering Professionalism II	Spracklin-Reid/Rosales
ENGI	8640	Process Engineering Project	James, L
		<u>Process Technical Stream</u>	
ENGI	7651	Industrial Pollution Control	Zhang, Yahui
ENGI	7691	Mineral and Metallurgical Process Engineering	Zhang, Yahui
		Choose one of:	
ENGI	8670	Reliability Engineering (Distance)	Khan, F/TBA
ENGI	8692	Drilling Engineering for Petr. Explor. & Prod.	Butt, S
ENGI	8911	Corrosion and Corrosion Control	Shirokoff, J.
		<u>Petroleum Technical Stream</u>	
ENGI	8690	Reservoir Engineering	Aborig, A
ENGI	8692	Drilling Engineering for Petr. Explor. & Prod.	Butt, S
		Choose one of:	
ENGI	8670	Reliability Engineering (Distance)	Khan, F/TBA
ENGI	8676	Design of Natural Gas Handling Equipment	Aborig, A

One Free Elective

one free elective which must be a 5000-level or higher Engineering course, or a 2000-level or higher course either from the Faculty of Arts or the Faculty of Science or a 3000-level or higher course from the Faculty of Business Administration. Selection of a course must be approved by the Department Head.