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All Majors - Complementary Studies

SUBJ	Course Number	Section	Course Name	Instructor
ENGI	4102	081	Engineering Economics (Distance)	Peach, B.
ENGI	8104	081	Critical Thinking about Tech, Sci and Engi	Rosales, J
ENGI	8151	081	Technology, Sustainabile Society & Int'l Devlpmt.	Hashemi, J

CIVIL

SUBJ	Course Number	Section	Course Name	Instructor
	See offerings		Complementary Studies Course	
CIV	6470	001	Thermal Sciences	George Mann
CIV	6330	001	Structural Analysis I	Dhar, A
CIV	6520	001	Design of Concrete and Masonry Structures	Hussein, A
CIV	6120	001	Hydraulics	Abdel-Razek, A.
CIV	6820	001	Project Planning & Construction Management	Kennedy, G.

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			Computer	
SUBJ	Course Number	Section	Course Name	Instructor
	See offerings		Complementary Studies Course	
ECE	6500	001	Computer Architecture	Nasiri, H.
ECE	6600	001	Communication Principles	Wanasinghe, T.
ECE	6610	001	Communication Networks	Wang, J.
ECE	6400	001	Software development practice	Shahidi, R.
	Choose 1 from the following technical electives or subject to approval by Department Head:			
COMP	3401	001	Introduction to Data Mining	Patra, P.
COMP	3200	001	Algorithmic Techniques for AI	Wareham, H.
ECE	6200	001	Industrial Controls and Instrumentation	Masek, V.
			Students in the Biomedical Stream:	
HKR	2311		Intro to Anatomy and Physiology (Distance)	Behm, D.

			Electrical	
SUBJ	Course Number	Section	Course Name	Instructor
	See offerings		Complementary Studies Course	
ECE	6700	001	Electromagnetic Fields	Salmani Arani, M.
ECE	6800	001	Rotating Machines	Masek, V.
ECE	6200	001	Industrial Controls and Instrumentation	Masek, V.
ECE	6600	001	Communication Principles	Wanasinghe, T.
	Choose 1 from the following technical electives or subject to approval by Department Head:			
ECE	6810	001	Power Electronics	Khan, A
ECE	6610	001	Communication Networks	Wang, J.
			Students in the Biomedical Stream:	
HKR	2311		Intro to Anatomy and Physiology (Distance)	Behm, D.

			Mechanical	
SUBJ	Course Number	Section	Course Name	Instructor
	See offerings		Complementary Studies Course	
			Required courses for ALL Mechanical students	
ME	6202	001	Control Systems I	Zou, T.
ME	6303	001	Mechanical Vibrations	Rideout G.
ME	6403	001	Heat Transfer I	Muzychka Y.
ME	6701	001	Computer Aided Engineering Applications	De Silva O.
ME	6702	001	Mechanical Component Design I	Yang J.

In addition to the above courses, Biomedical Stream students must take one additional course.

			Biomedical Stream students only	
HKR	2311		Introduction to Anatomy and Physiology (Distance)	Behm, D.

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Mechatronics

SUBJ	ourse Numbe	Section	Course Name	Instructor
	See offerings		Complementary Studies Course	
			Required courses for ALL Mechatronics students	
ECE	6810	001	Power Electronics	Khan, A
ME	6202	001	Control Systems I	Zou, T.
ME	6303	001	Mechanical Vibrations	Rideout G.
ME	6701	001	Computer Aided Engineering Applications	De Silva O.
ME	6702	001	Mechanical Component Design I	Yang J.

ONAE

SUBJ	Course Number	Section	Course Name	Instructor
	See offerings		Complementary Studies Course	
ONAE	6002	001	Ship Structures I	Daley, C.
ONAE	6005	001	Floating Ocean Structures Design	Peng, H.
ONAE	6036	001	Dynamics of Ocean Vehicles	Peng, H.
ONAE	6046	001	Marine Engineering Systems	Walker, D.
ONAE	6055	001	Marine Cybernetics	Smith, D.

Process

SUBJ	Course Number	Section	Course Name	Instructor
	See offerings		Complementary Studies Course	
PROC	6025	001	Process Modelling and Analysis	Azargohar, R.
PROC	6031	001	Chemical Reaction Engineering	Hawboldt, K.
PROC	6061	001	Process Fluid Dynamics II	Zendehboudi, S.
PROC	6071	001	Process Equipment Design II	Zhang, Yan
			Choose **one** of the following	
PROC	6202	001	Offshore Petroleum Geology and Technology	Butt, S
PROC	6151	001	Sustainable Engineering in Processing Industries	Azargohar, R