

Class of 2018 - Term 7 - Spring 2017 Semester

Course	Complementary Studies	Instructor
8151	Technology,Sustainable Society & International Development (Distance)	Hurley, S

Course	Civil	Instructor
7704	Design of Steel Structures	Adluri S
7713	Hydrology and Water Resources	Daraio, J
7745	Highway Engineering	Spracklin-Reid, D
<u>Choose two electives from the following options:</u>		
6718	Environmental Geotechniques	Saadi, N
7706	Finite Element Analysis	Adluri S
7716	Hydrotechnical Engineering	Daraio, J
8671	Safety and Risk Engineering (Distance)	KhanF/Hashemi, S.J.
8692	Drilling Engineering	Butt, S

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Computer

7804	Computer Engineering Design Project I	Czarnuch, S
7824	Introduction to Digital Signal Processing	Power, S
7894	Concurrent Programming	Tavafi, F
<u>Choose two electives from the following options:</u>		
7825	Control Systems II	O'Young, S
7854	Image Processing and Applications	Czarnuch, S
7855	Communications electronics	Wanasinghe, T
7952	Robotics and Automation	Mann, G
8680	Process Control and Instrumentation	Iqbal T.
8863	Introduction to LSI Design/ASIC Design	Dong, X
8879	Digital Communications	Karami, E

Prior to term 8, students are advised to consider completing as much as possible of:

[- complementary studies requirements](#)

[- free elective requirements](#)

(during either term 7 or the fall work term).

Electrical

7803	Electrical Engineering Design Project I	Czarnuch, S
7824	Introduction to Digital Signal Processing	Power, S
<u>Choose three electives from the following options:</u>		
7825	Control Systems II	O'Young, S
7844	Power System Analysis	Jeyasurya, B.
7854	Image Processing and Applications	Czarnuch, S
7855	Communications electronics	Wanasinghe, T
7856	Renewable Energy Systems	Iqbal T.
7952	Robotics and Automation	Mann, G
8680	Process Control and Instrumentation	Iqbal T.
8879	Digital Communications	Karami, E

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Mechanical

Mechanical Core - All students are required to take:

7926	Mechanical Project I	De Silva, O/Muyzchka, Y
7930	Instrumentation and Experimental Design	De Silva, O/Muyzchka, Y

Plus one Free Elective from below:

Business 6049 - Entrepreneurship for Non-Business Students

Any 2000* level or higher University course

Any 3000*level or higher Engineering course

***Requires the approval of Department Head**

Students are required to select a stream path below, since many Term 8

Technical Electives require Term 7 courses as pre-requisites:

Mechanics and Materials

All stream students are required to take:

7911	Industrial Materials	Caines, S
7929	Mechanical Components Design II	Abedinilaksar, M/Rideout, C

Plus one Technical Elective from below:

7934	Finite Element Analysis	ElRuby, A
8971	Welding and Joining	Nasiri, A

Thermo Fluids

All stream students are required to take:

7901	Heat Transfer II	Pope K.
7903	Mechanical Equipment	Pope K.

Plus one Technical Elective from below:

7934	Finite Element Analysis	ElRuby, A
8970	Gas Dynamics	Nikapitiya, J

Mechatronics

All stream students are required to take:

7929	Mechanical Components Design II	Abedinilaksar, M/Rideout, C
7953	Mechatronics II	Mann, G

Plus one Technical Elective from below:

7825	Controls II	O'Young, S
7854	Image Processing and Applications	Czarnuch, S
7952	Robotics & Automation	Mann, G

Petroleum Technical Stream

All stream students are required to take:

8691	Advanced Petroleum Production Engineering	Zendeboudi, S
8692	Drilling Engineering	Butt, S

Plus one Technical Elective from below:

7903	Mechanical Equipment	Pope K.
8671	Safety and Risk Engineering (distance)	KhanF/Hashemi, S.J.

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ONAE

7000	Ocean Systems Design	Molyneux, D
7007	Ocean Engineering Materials	Moro, L
7033	Marine Hydrodynamics	Peng H.
7035	Seakeeping and Maneuvering of ocean Vehicles	Peng H.
<u>Choose one elective from the following options:</u>		
7706	Finite Element Analysis	Adluri, S
7934	Finite Element Analysis	TBA
7003	Small Craft Design	Moro, L
8691	Advanced Petroleum Production Engineering	Zendeboudi, S
8692	Drilling Engineering	Butt, S

Or a technical Elective approved by the Department Head

Process

7621	Process Dynamics and Control	Ahmed S.
7640	Process Engineering Project I	Ahmed, S
8677	Process Plant Design and Economics	Sripal, E

In addition to the three required course listed above, all students must register for two Technical Stream Courses. The recommended courses are as follows:

Petroleum Technical Stream

8692	Drilling Engineering	Butt, S
<u>Choose one electives from the following options:</u>		
8671	Safety and Risk Engineering (Distance)	KhanF/Hashemi, S.J.
8691	Advanced Petroleum Production Engineering	Zendeboudi, S

Process Technical Stream

7623	Process Simulation	Turco Neto, E
8671	Safety and Risk Engineering (Distance)	KhanF/Hashemi, S.J.