

UPEI Faculty of Sustainable Design Engineering (FSDE)

Year 1 Student Advisement Notes

2019-2020

- Effective Fall 2019, the Faculty of Sustainable Design Engineering program has new High School Admission requirements:

- Successful completion of Grade 12 examinations in a University Preparatory Program with an overall average of at least 70% in the following courses, with no grade less than 65% and with at least 70% in Grade 12 academic Mathematics:

- Grade 12 academic English
- Grade 12 academic Mathematics
- Two additional Grade 12 academic Science subjects: Biology, Chemistry* or Physics
- One additional Grade 12 academic course

* The prerequisite for Chemistry 1110 (a required course in the engineering program) is Grade 12 academic Chemistry or UPEI Chemistry 0001.

- Effective Fall 2019, UPEI 1010 is the only accepted first-year experience course as it is a prerequisite for ENGN 2210: Engineering Projects I.

- The 4-Year degree sequencing (Fall 2019 start) requires a 6 + 6 course load in Program Year 1 as follows:

Term 1 (Year 1 - Fall 2019 Semester)		Term 2 (Year 1 - Winter 2020 Semester)	
ENGN 1210	Engineering Communications	ENGN 1220	Engineering Analysis
ENGN 1230	Engineering Mechanics I: Statics	ENGN 1250	Materials Science
ENGN 1410	Sustainability in Engineering Design	ENGN 1310	Computer Programming
CHEM 1110	General Chemistry I	ENGN 1340	Engineering Mechanics II: Dynamics
MATH 1910	Single Variable Calculus I	MATH 1920	Single Variable Calculus II
UPEI 1010	Writing Studies	HUM	Category D - Humanities Elective

- The 5-Year degree sequencing (Fall 2019 start) has a 4 + 4 course load in Program Year 1 as follows:

Term 1 (Year 1 - Fall 2019 Semester)		Term 2 (Year 1 - Winter 2020 Semester)	
ENGN 1210	Engineering Communications	ENGN 1220	Engineering Analysis
ENGN 1230	Engineering Mechanics I: Statics	ENGN 1310	Computer Programming
ENGN 1410	Sustainability in Engineering Design	ENGN 1340	Engineering Mechanics II: Dynamics
MATH 1910	Single Variable Calculus I	MATH 1920	Single Variable Calculus II

- The 5-Year degree sequencing (Winter 2020 start) is as follows:

Term 1 (Year 1 - Fall 2019 Semester)		Term 2 (Year 1 - Winter 2020 Semester)	
		ENGN 1310	Computer Programming
		MATH 1910	Single Variable Calculus I
		UPEI 1010	Writing Studies
		HUM	Category D - Humanities Elective
Year 1 - Summer 2020 Session			
MATH 1920	Single Variable Calculus II		

- Refer to the Faculty's Program Info Sheets (attached) for detailed course sequencing for both 4-Year and 5-Year degree plans.
- Year 1 students must register for courses and sections according to either Course Plan A or Course Plan B (attached).
- Students should seek the advice of the Director of Student Experience for any course plan that deviates from these Year 1 plans.
- Sections for UPEI 1010, MATH 1910/1920 and CHEM 1110 fill up fast so register early.

FSDE Contact: Wayne Peters, Director of Student Experience
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June 21, 2019

UPEI Faculty of Sustainable Design Engineering (FSDE)
Year 1 Student Advisement Notes

2019-2020

Term 1 (Year 1 - Fall Semester)		Scheduled Times
ENGN 1210	Engineering Communications	Section 1 - M W, 11:30 - 2:20 Section 2 - T Th, 11:30 - 2:20 Section 3 - M W, 11:30 - 2:20 Section 4 - T Th, 11:30 - 2:20
ENGN 1230	Engineering Mechanics I: Statics	Section 1 - T Th, 10:00 - 11:15 <i>and</i> Lab - Section 1 - M, 2:30 - 5:20 Section 2 - T Th, 8:30 - 9:45 <i>and</i> Lab - Section 2 - F, 11:30 - 2:20
ENGN 1410	Sustainability in Engineering Design	Section 1 - M W F, 8:30 - 9:20 <i>and</i> Lab - Section 1 - F, 11:30 - 2:20 Section 2 - M W F, 10:30 - 11:20 <i>and</i> Lab - Section 2 - F, 2:30 - 5:20
CHEM 1110	General Chemistry	Section 1 - M W F, 8:30 - 9:20 Section 2 - M W F, 9:30 - 10:20 Section 3 - M W F, 10:30 - 11:20
		Lab - Section 1 - M, 1:30 - 5:30 Lab - Section 2 - T, 1:30 - 5:30 Lab - Section 3 - W, 1:30 - 5:30 Lab - Section 4 - Th, 1:30 - 5:30
MATH 1910	Single Variable Calculus I	Section 1 - M W F, 8:30 - 9:20; M, 2:30 - 3:20 Section 2 - M W F, 9:30 - 10:20; T, 2:30 - 3:20 Section 3 - M W F, 9:30 - 10:20; W, 3:30 - 4:20 Section 4 - M W F, 10:30 - 11:20; T, 3:30 - 4:20
		Tutorial 2 - W, 2:30 - 3:20 Tutorial 3 - M, 3:30 - 4:20 Tutorial 4 - T, 4:30 - 5:20 Tutorial 5 - W, 4:30 - 5:20 Tutorial 6 - Th, 4:30 - 5:20
UPEI 1010	Writing Studies	Multiple sections available

Term 2 (Year 1 - Winter Semester)		Scheduled Times
ENGN 1220	Engineering Analysis	Section 1 - M W, 11:30 - 2:20 Section 2 - T Th, 11:30 - 2:20 Section 3 - M W, 11:30 - 2:20 Section 4 - T Th, 11:30 - 2:20
ENGN 1250	Materials Science	Section 1 - T Th, 10:00 - 11:15 <i>and</i> Lab - Section 1 - T, 11:30 - 2:20 Section 2 - T Th, 8:30 - 9:45 <i>and</i> Lab - Section 2 - F, 11:30 - 2:20
ENGN 1310	Computer Programming	Section 1 - M W F, 8:30 - 9:20 <i>and</i> Lab - Section 1 - F, 11:30 - 2:20 Section 2 - M W F, 10:30 - 11:20 <i>and</i> Lab - Section 2 - M, 11:30 - 2:20
ENGN 1340	Engineering Mechanics II: Dynamics	Section 1 - T Th, 8:30 - 9:45 <i>and</i> Lab - Section 1 - Th, 11:30 - 2:20 Section 2 - T Th, 10:00 - 11:15 <i>and</i> Lab - Section 2 - W, 11:30 - 2:20 Section 3 - M W F, 3:30 - 4:20 <i>and</i> Lab - Section 3 - Th, 2:30 - 5:20
MATH 1920	Single Variable Calculus II	Section 1 - M W F, 8:30 - 9:20; M, 2:30 - 3:20 Section 2 - M W F, 9:30 - 10:20; T, 2:30 - 3:20 Section 3 - M W F, 9:30 - 10:20; Th, 3:30 - 4:20 Section 4 - M W F, 10:30 - 11:20; T, 3:30 - 4:20
		Tutorial 1 - W, 1:30 - 2:20 Tutorial 2 - W, 2:30 - 3:20 Tutorial 3 - M, 3:30 - 4:20 Tutorial 4 - M, 4:30 - 5:20 Tutorial 5 - T, 4:30 - 5:20 Tutorial 6 - Th, 4:30 - 5:20
HUM	Humanities Elective	Multiple offerings available

Four (4) Year Degree Plan for Year 1 students - Starting Fall 2019

Term 1 (Year 1 - Fall 2019 Semester)			Sem Hrs	Term 2 (Year 1 - Winter 2020 Semester)			Sem Hrs
ENGN 1210	Engineering Communications	3	ENGN 1220	Engineering Analysis	3		
ENGN 1230	Engineering Mechanics I: Statics	3	ENGN 1250	Materials Science	3		
ENGN 1410	Sustainability in Engineering Design	3	ENGN 1310	Computer Programming	3		
CHEM 1110	General Chemistry I	3	ENGN 1340	Engineering Mechanics II: Dynamics	3		
MATH 1910	Single Variable Calculus I	4	MATH 1920	Single Variable Calculus II	4		
UPEI 1010	Writing Studies	3	HUM	Category D - Humanities Elective	3		
Term 3 (Year 2 - Fall 2020 Semester)				Term 4 (Year 2 - Winter 2021 Semester)			
ENGN 2130	Statistics for Engineering Applications	3	ENGN 2220	Engineering Projects II	3		
ENGN 2210	Engineering Projects I	3	ENGN 2360	Materials, Mechanics and Manufacturing	3		
ENGN 2310	Strength of Materials	3	ENGN 2620	Thermo Fluids II: Fluid Mechanics	3		
ENGN 2610	Thermo Fluids I: Thermodynamics	3	ENGN 2830	Digital Logic Design	3		
ENGN 2810	Electric Circuits	3	MATH 2610	Linear Algebra	3		
MATH 2910	Multivariable and Vector Calculus	4	MATH 3010	Differential Equations	3		
Term 5 (Year 3 - Fall 2021 Semester)				Term 6 (Year 3 - Winter 2022 Semester)			
ENGN 3220	Engineering Measurements	3	ENGN 3430	Technology Management and Entrepreneurship	3		
ENGN 3630	Thermo Fluids III: Heat Transfer and Thermodynamic Cycles	3	ENGN 3270	Machines and Automatic Control	3		
ENGN 3710	Project-Based Professional Practice I	6	ENGN 3720	Project-Based Professional Practice II	6		
ENGN 3810	Systems Engineering	3	ENGN 3820	System Dynamics with Simulation	3		
ENGN	Category B – Intro Focus Area Elective	3	ENGN	Category C - Focus Area Elective	3		
Term 7 (Year 4 - Fall 2022 Semester)				Term 8 (Year 4 - Winter 2023 Semester)			
ENGN 4210	Facilitated Study and Experimental Practice	3	ENGN 4720	Project-Based Professional Practice IV	6		
ENGN 4710	Project-Based Professional Practice III	6	ENGN	Category C - Focus Area Elective	3		
ENGN 4850	Computational Methods for Engineering Design	3	HUM	Category D - Humanities Elective	3		
ENGN	Category C - Focus Area Elective	3	SCI/BUS	Category E - Science/Business Elective	3		
Total Fall Semester Hours			71	Total Winter Semester Hours			70

Notes:

- A 60% minimum grade is required in each of ENGN 1210, 1220, 2210, 2220, 3710, 3720 and 4710 to proceed to the next course.
- The Category D - Humanities Elective is any course in the Faculty of Arts.
- The Category E – Science/Business Elective is any course from the Faculties of Science or Business that is not already part of the degree.

Elective Courses - Four (4) Year Degree Plan for Year 1 students - Starting Fall 2019

Degree Focus Areas

Students in Program Years 3 and 4 can enhance their technical knowledge by choosing one of three engineering focus areas: **Mechatronics, Sustainable Energy, or Bioresources**. A minimum of 4 focus area (FA) electives must be taken. The first focus area elective (Term 5, Program Year 3) must be the introductory elective course in either Mechatronics (ENGN 3340), Sustainable Energy (ENGN 3440), or Bioresources (ENGN 3540). The remaining focus area electives in Terms 6, 7 and 8 can be selected from any of the available courses listed below in any of the three focus areas. At least one of the focus area electives must be at the 4000 level.

Category B – Intro Focus Area Electives		Term 5 (Year 3 – Fall 2021 Semester)
ENGN 3340	Introduction to Mechatronics Engineering	
ENGN 3440	Introduction to Sustainable Energy Engineering	
ENGN 3540	Introduction to Bioresources Engineering	
Category C – Focus Area Electives		Term 6 (Year 3 – Winter 2022 Semester)
ENGN 3370	Mechatronic System Integration and Interface Design	
ENGN 3380	Real-time Embedded Systems	
ENGN 3390	Intro to Mechatronic Computer-Aided Product Development, Modelling and Simulation	
ENGN 3450	Wind and Water Power	
ENGN 3460	Solar Energy and Electricity Storage	
ENGN 3490	Chemical Energy Conversion	
ENGN 3570	Engineering Applications of Biological Materials	
ENGN 3580	Soil Mechanics	
Category C – Focus Area Electives		Term 7 (Year 4 – Fall 2022 Semester)
ENGN 4310	Advanced Fabrication Techniques and Computer-Integrated Manufacturing	
ENGN 4320	Control System Design	
ENGN 4330	Innovations in Biomedical Engineering	
ENGN 4410	Macro Energy Systems	
ENGN 4440	Advanced Energy Storage	
ENGN 4510	Geoinformatics in Bioresources	
ENGN 4530	Fundamentals of Agricultural Machinery	
Category C – Focus Area Electives		Term 8 (Year 4 – Winter 2023 Semester)
ENGN 4350	Advanced Robotic Dynamics and Control	
ENGN 4370	Fluid Power Control	
ENGN 4450	Fluid Loads on Energy Structures	
ENGN 4470	Micro Grids	
ENGN 4550	Biotechnological Processes	
ENGN 4830	Biomedical Signal Processing	

Elective courses offered subject to enrollment.

Five (5) Year Degree Plan for Year 1 Students - Starting Fall 2019

Term 1 (Year 1 - Fall 2019 Semester)			Sem Hrs	Term 2 (Year 1 - Winter 2020 Semester)			Sem Hrs
ENGN 1210	Engineering Communications	3	ENGN 1220	Engineering Analysis	3		
ENGN 1230	Engineering Mechanics I: Statics	3	ENGN 1310	Computer Programming	3		
ENGN 1410	Sustainability in Engineering Design	3	ENGN 1340	Engineering Mechanics II: Dynamics	3		
MATH 1910	Single Variable Calculus I	4	MATH 1920	Single Variable Calculus II	4		
Term 3 (Year 2 - Fall 2020 Semester)			Sem Hrs	Term 4 (Year 2 - Winter 2021 Semester)			Sem Hrs
ENGN 2130	Statistics for Engineering Applications	3	ENGN 1250	Materials Science	3		
CHEM 1110	General Chemistry I	3	MATH 2610	Linear Algebra	3		
MATH 2910	Multivariable and Vector Calculus	4	MATH 3010	Differential Equations	3		
UPEI 1010	Writing Studies	3	HUM	Category D - Humanities Elective	3		
Term 5 (Year 3 - Fall 2021 Semester)			Sem Hrs	Term 6 (Year 3 - Winter 2022 Semester)			Sem Hrs
ENGN 2210	Engineering Projects I	3	ENGN 2220	Engineering Projects II	3		
ENGN 2310	Strength of Materials	3	ENGN 2360	Materials, Mechanics and Manufacturing	3		
ENGN 2610	Thermo Fluids I: Thermodynamics	3	ENGN 2620	Thermo Fluids II: Fluid Mechanics	3		
ENGN 2810	Electric Circuits	3	ENGN 2830	Digital Logic Design	3		
Term 7 (Year 4 - Fall 2022 Semester)			Sem Hrs	Term 8 (Year 4 - Winter 2023 Semester)			Sem Hrs
ENGN 3220	Engineering Measurements	3	ENGN 3430	Technology Management and Entrepreneurship	3		
ENGN 3630	Thermo Fluids III: Heat Transfer and Thermodynamic Cycles	3	ENGN 3270	Machines and Automatic Control	3		
ENGN 3710	Project-Based Professional Practice I	6	ENGN 3720	Project-Based Professional Practice II	6		
ENGN 3810	Systems Engineering	3	ENGN 3820	System Dynamics with Simulation	3		
ENGN	Category B – Intro Focus Area Elective	3	ENGN	Category C - Focus Area Elective	3		
Term 9 (Year 5 - Fall 2023 Semester)			Sem Hrs	Term 10 (Year 5 - Winter 2024 Semester)			Sem Hrs
ENGN 4210	Facilitated Study and Experimental Practice	3	ENGN 4720	Project-Based Professional Practice IV	6		
ENGN 4710	Project-Based Professional Practice III	6	ENGN	Category C - Focus Area Elective	3		
ENGN 4850	Computational Methods for Engineering Design	3	HUM	Category D - Humanities Elective	3		
ENGN	Category C - Focus Area Elective	3	SCI/BUS	Category E - Science/Business Elective	3		
Total Fall Semester Hours			71	Total Winter Semester Hours			70

Notes:

- A 60% minimum grade is required in each of ENGN 1210, 1220, 2210, 2220, 3710, 3720 and 4710 to proceed to the next course.
- The Category D - Humanities Elective is any course in the Faculty of Arts.
- The Category E – Science/Business Elective is any course from the Faculties of Science or Business that is not already part of the degree.

Elective Courses - Five (5) Year Degree Plan for Year 1 Students - Starting Fall 2019

Degree Focus Areas

Students in Program Years 3 and 4 can enhance their technical knowledge by choosing one of three engineering focus areas: **Mechatronics, Sustainable Energy, or Bioresources**. A minimum of 4 focus area (FA) electives must be taken. The first focus area elective (Term 7, Program Year 4) must be the introductory elective course in either Mechatronics (ENGN 3340), Sustainable Energy (ENGN 3440), or Bioresources (ENGN 3540). The remaining focus area electives in Terms 8, 9 and 10 can be selected from any of the available courses listed below in any of the three focus areas. At least one of the focus area electives must be at the 4000 level.

Category B – Intro Focus Area Electives		Term 7 (Year 4 – Fall 2022 Semester)
ENGN 3340	Introduction to Mechatronics Engineering	
ENGN 3440	Introduction to Sustainable Energy Engineering	
ENGN 3540	Introduction to Bioresources Engineering	
Category C – Focus Area Electives		Term 8 (Year 4 – Winter 2023 Semester)
ENGN 3370	Mechatronic System Integration and Interface Design	
ENGN 3380	Real-time Embedded Systems	
ENGN 3390	Intro to Mechatronic Computer-Aided Product Development, Modelling and Simulation	
ENGN 3450	Wind and Water Power	
ENGN 3460	Solar Energy and Electricity Storage	
ENGN 3490	Chemical Energy Conversion	
ENGN 3570	Engineering Applications of Biological Materials	
ENGN 3580	Soil Mechanics	
Category C – Focus Area Electives		Term 9 (Year 5 – Fall 2023 Semester)
ENGN 4310	Advanced Fabrication Techniques and Computer-Integrated Manufacturing	
ENGN 4320	Control System Design	
ENGN 4410	Macro Energy Systems	
ENGN 4440	Advanced Energy Storage	
ENGN 4510	Geoinformatics in Bioresources	
ENGN 4530	Fundamentals of Agricultural Machinery	
ENGN 4330	Innovations in Biomedical Engineering	
Category C – Focus Area Electives		Term 10 (Year 5 – Winter 2024 Semester)
ENGN 4350	Advanced Robotic Dynamics and Control	
ENGN 4370	Fluid Power Control	
ENGN 4450	Fluid Loads on Energy Structures	
ENGN 4470	Micro Grids	
ENGN 4550	Biotechnological Processes	
ENGN 4830	Biomedical Signal Processing	

Elective courses offered subject to enrollment.

Five (5) Year Degree Plan for Year 1 Students - Starting Winter 2020

Term 1 (Year 1 - Fall 2019 Semester)			Sem Hrs	Term 2 (Year 1 - Winter 2020 Semester)			Sem Hrs
				ENGN 1310	Computer Programming		3
				MATH 1910	Single Variable Calculus I		4
				UPEI 1010	Writing Studies		3
				HUM	Category D - Humanities Elective		3
Year 1 - Summer 2020 Session							
MATH 1920	Single Variable Calculus II		4				
Term 3 (Year 2 - Fall 2020 Semester)				Term 4 (Year 2 - Winter 2021 Semester)			
ENGN 1210	Engineering Communications		3	ENGN 1220	Engineering Analysis		3
ENGN 1230	Engineering Mechanics I: Statics		3	ENGN 1250	Materials Science		3
ENGN 1410	Sustainability in Engineering Design		3	ENGN 1340	Engineering Mechanics II: Dynamics		3
MATH 2910	Multivariable and Vector Calculus		4	MATH 2610	Linear Algebra		3
CHEM 1110	General Chemistry I		3				
Term 5 (Year 3 - Fall 2021 Semester)				Term 6 (Year 3 - Winter 2022 Semester)			
ENGN 2130	Statistics for Engineering Applications		3	ENGN 2220	Engineering Projects II		3
ENGN 2210	Engineering Projects I		3	ENGN 2360	Materials, Mechanics and Manufacturing		3
ENGN 2310	Strength of Materials		3	ENGN 2620	Thermo Fluids II: Fluid Mechanics		3
ENGN 2610	Thermo Fluids I: Thermodynamics		3	ENGN 2830	Digital Logic Design		3
ENGN 2810	Electric Circuits		3	MATH 3010	Differential Equations		3
Term 7 (Year 4 - Fall 2022 Semester)				Term 8 (Year 4 - Winter 2023 Semester)			
ENGN 3220	Engineering Measurements		3	ENGN 3430	Technology Management and Entrepreneurship		3
ENGN 3630	Thermo Fluids III: Heat Transfer and Thermodynamic Cycles		3	ENGN 3270	Machines and Automatic Control		3
ENGN 3710	Project-Based Professional Practice I		6	ENGN 3720	Project-Based Professional Practice II		6
ENGN 3810	Systems Engineering		3	ENGN 3820	System Dynamics with Simulation		3
ENGN	Category B – Intro Focus Area Elective		3	ENGN	Category C - Focus Area Elective		3
Term 9 (Year 5 - Fall 2023 Semester)				Term 10 (Year 5 - Winter 2024 Semester)			
ENGN 4210	Facilitated Study and Experimental Practice		3	ENGN 4720	Project-Based Professional Practice IV		6
ENGN 4710	Project-Based Professional Practice III		6	ENGN	Category C - Focus Area Elective		3
ENGN 4850	Computational Methods for Engineering Design		3	HUM	Category D - Humanities Elective		3
ENGN	Category C - Focus Area Elective		3	SCI/BUS	Category E - Science/Business Elective		3
Total Fall Semester Hours			68	Total Winter Semester Hours			73

- Notes:
- A 60% minimum grade is required in each of ENGN 1210, 1220, 2210, 2220, 3710, 3720 and 4710 to proceed to the next course.
 - The Category D - Humanities Elective is any course in the Faculty of Arts.
 - The Category E – Science/Business Elective is any course from the Faculties of Science or Business that is not already part of the degree.

Elective Courses – Five (5) Year Degree Plan for Year 1 Students - Starting Winter 2020

Degree Focus Areas

Students in Program Years 3 and 4 can enhance their technical knowledge by choosing one of three engineering focus areas: **Mechatronics, Sustainable Energy, or Bioresources**. A minimum of 4 focus area (FA) electives must be taken. The first focus area elective (Term 7, Program Year 4) must be the introductory elective course in either Mechatronics (ENGN 3340), Sustainable Energy (ENGN 3440), or Bioresources (ENGN 3540). The remaining focus area electives in Terms 8, 9 and 10 can be selected from any of the available courses listed below in any of the three focus areas. At least one of the focus area electives must be at the 4000 level.

Category B – Intro Focus Area Electives		Term 7 (Year 4 – Fall 2022 Semester)
ENGN 3340	Introduction to Mechatronics Engineering	
ENGN 3440	Introduction to Sustainable Energy Engineering	
ENGN 3540	Introduction to Bioresources Engineering	
Category C – Focus Area Electives		Term 8 (Year 4 – Winter 2023 Semester)
ENGN 3370	Mechatronic System Integration and Interface Design	
ENGN 3380	Real-time Embedded Systems	
ENGN 3390	Intro to Mechatronic Computer-Aided Product Development, Modelling and Simulation	
ENGN 3450	Wind and Water Power	
ENGN 3460	Solar Energy and Electricity Storage	
ENGN 3490	Chemical Energy Conversion	
ENGN 3570	Engineering Applications of Biological Materials	
ENGN 3580	Soil Mechanics	
Category C – Focus Area Electives		Term 9 (Year 5 – Fall 2023 Semester)
ENGN 4310	Advanced Fabrication Techniques and Computer-Integrated Manufacturing	
ENGN 4320	Control System Design	
ENGN 4410	Macro Energy Systems	
ENGN 4440	Advanced Energy Storage	
ENGN 4510	Geoinformatics in Bioresources	
ENGN 4530	Fundamentals of Agricultural Machinery	
ENGN 4330	Innovations in Biomedical Engineering	
Category C – Focus Area Electives		Term 10 (Year 5 – Winter 2024 Semester)
ENGN 4350	Advanced Robotic Dynamics and Control	
ENGN 4370	Fluid Power Control	
ENGN 4450	Fluid Loads on Energy Structures	
ENGN 4470	Micro Grids	
ENGN 4550	Biotechnological Processes	
ENGN 4830	Biomedical Signal Processing	

Elective courses offered subject to enrollment.

Four (4) Year Degree Plan for Year 1 Students - Fall 2019 - Course Plan A

UPEI Faculty of Sustainable Design Engineering 2019-2020
 FALL - Year 1 - Course Plan 4A

	Monday			Tuesday			Wednesday			Thursday			Friday		
	ENGN-A	MATH	CHEM	ENGN-A	MATH	CHEM	ENGN-A	MATH	CHEM	ENGN-A	MATH	CHEM	ENGN-A	MATH	CHEM
8:30	ENGN 1410-1						ENGN 1410-1						ENGN 1410-1		
9:00															
9:30		MATH 1910-2	CHEM 1110-2					MATH 1910-2	CHEM 1110-2					MATH 1910-2	CHEM 1110-2
10:00		MATH 1910-3		ENGN 1230-1				MATH 1910-3		ENGN 1230-1				MATH 1910-3	
10:30		MATH 1910-4	CHEM 1110-3					MATH 1910-4	CHEM 1110-3					MATH 1910-4	CHEM 1110-3
11:00															
11:30	ENGN 1210-1						ENGN 1210-1						ENGN 1410-1		
12:00	OR						OR						LAB		
12:30	DESIGN						DESIGN								
1:00															
1:30															
2:00						CHEM 1110-2							CHEM 1110-4		
2:30	ENGN 1230-1				MATH 1910-2	LAB		MATH 1910-2					LAB		
3:00	LAB							Tutorial							
3:30					MATH 1910-4			MATH 1910-3							
4:00															
4:30					MATH 1910-4			MATH 1910-5			MATH 1910-6				
5:00					Tutorial			Tutorial			Tutorial				

Term 1 (Year 1 - Fall 2019 Semester)		Sem Hrs
ENGN 1210	Engineering Communications	3
ENGN 1230	Engineering Mechanics I: Statics	3
ENGN 1410	Sustainability in Engineering Design	3
CHEM 1110	General Chemistry I	3
MATH 1910	Single Variable Calculus I	4
UPEI 1010	Writing Studies	3

Notes:

- Section 1 or 3 plus applicable Design Studio (LAB) - **Lecture/Lab section must match**
- Section 1 plus LAB Section 1 - **Lecture/Lab section must match**
- Section 1 plus LAB Section 1 - **Lecture/Lab section must match**
- Section 2 or 3 plus LAB - Choose lab section 2 or 4 (Additional sections available in the evening)
- Section 2, 3 or 4 plus TUTORIAL - choose any tutorial that is available
- UPEI 1010 is cross listed-with ENG 1010. **Search ENG 1010 for available times.**

Four (4) Year Degree Plan for Year 1 Students - Fall 2019 - Course Plan B

UPEI Faculty of Sustainable Design Engineering 2019-2020

FALL - Year 1 - Course Plan 4B

	Monday			Tuesday			Wednesday			Thursday			Friday		
	ENGN-B	MATH	CHEM	ENGN-B	MATH	CHEM	ENGN-B	MATH	CHEM	ENGN-B	MATH	CHEM	ENGN-B	MATH	CHEM
8:30		MATH 1910-1	CHEM 1110-1	ENGN 1230-2				MATH 1910-1	CHEM 1110-1	ENGN 1230-2				MATH 1910-1	CHEM 1110-1
9:00															
9:30		MATH 1910-2	CHEM 1110-2					MATH 1910-2	CHEM 1110-2					MATH 1910-2	CHEM 1110-2
10:00		1910-3						1910-3						1910-3	
10:30	ENGN 1410-2						ENGN 1410-2						ENGN 1410-2		
11:00															
11:30				ENGN 1210-2						ENGN 1210-2			ENGN 1230-2		
12:00				1210-4						1210-4			LAB		
12:30				DESIGN						DESIGN					
1:00															
1:30			CHEM 1110-1 LAB												
2:00															
2:30		MATH 1910-1				MATH 1910-2			MATH 1910-2					ENGN 1410-2	
3:00									Tutorial					LAB	
3:30		MATH 1910-3						MATH 1910-3							
4:00		Tutorial													
4:30					MATH 1910-4			MATH 1910-5				MATH 1910-6			
5:00					Tutorial			Tutorial				Tutorial			

Term 1 (Year 1 - Fall 2019 Semester)		Sem Hrs
ENGN 1210	Engineering Communications	3
ENGN 1230	Engineering Mechanics I: Statics	3
ENGN 1410	Sustainability in Engineering Design	3
CHEM 1110	General Chemistry I	3
MATH 1910	Single Variable Calculus I	4
UPEI 1010	Writing Studies	3

Notes:

- Section 2 or 4 plus applicable Design Studio (LAB) - **Lecture/Lab section must match**
- Section 2 plus LAB Section 2 - **Lecture/Lab section must match**
- Section 2 plus LAB Section 2 - **Lecture/Lab section must match**
- Section 1 or 2 plus LAB - Choose lab section 1 or 3 (Additional sections available in the evening)
- Section 1, 2, or 3 plus TUTORIAL - choose any tutorial that is available
- UPEI 1010 is cross listed-with ENG 1010. **Search ENG 1010 for available times.**

UPEI Faculty of Sustainable Design Engineering (FSDE) 2019-2020
Four (4) Year Degree Plan for Year 1 Students - Winter 2020 - Course Plan A

UPEI Faculty of Sustainable Design Engineering 2019-2020
 WINTER - Year 1 - Course Plan 4A

	Monday			Tuesday			Wednesday			Thursday			Friday		
	ENGN-A		MATH	ENGN-A		MATH	ENGN-A		MATH	ENGN-A		MATH	ENGN-A		MATH
8:30	ENGN 1310-1			ENGN 1340-1			ENGN 1310-1			ENGN 1340-1			ENGN 1310-1		
9:00															
9:30			MATH 1920-2						MATH 1920-2						MATH 1920-2
10:00			1920-3	ENGN 1250-1					1920-3	ENGN 1250-1					1920-3
10:30			MATH 1920-4						MATH 1920-4						MATH 1920-4
11:00															
11:30	ENGN 1220-1			ENGN 1250-1			ENGN 1220-1			ENGN 1340-1			ENGN 1310-1		
12:00	1220-3			LAB			1220-3			LAB			LAB		
12:30	DESIGN						DESIGN								
1:00															
1:30									MATH 1920-1						
2:00									Tutorial						
2:30						MATH 1920-2			MATH 1920-2	ENGN 1340-3					
3:00									Tutorial	LAB					
3:30	ENGN 1340-3		MATH 1920-3			MATH 1920-4	ENGN 1340-3					MATH 1920-3	ENGN 1340-3		
4:00			Tutorial												
4:30			MATH 1920-4			MATH 1920-5						MATH 1920-6			
5:00			Tutorial			Tutorial						Tutorial			

Term 2 (Year 1 - Winter 2020 Semester)		Sem Hrs
ENGN 1220	Engineering Analysis	3
ENGN 1250	Materials Science	3
ENGN 1310	Computer Programming	3
ENGN 1340	Engineering Mechanics II: Dynamics	3
MATH 1920	Single Variable Calculus II	4
HUM	Category D - Humanities Elective	3

Notes:

- Section 1 or 3 plus applicable Design Studio (LAB) - **Lecture/Lab section must match**
- Section 1 plus LAB Section 1 - **Lecture/Lab section must match**
- Section 1 plus LAB Section 1 - **Lecture/Lab section must match**
- Section 1 or 3 plus applicable LAB Section - **Lecture/Lab section must match**
- Section 2, 3 or 4 plus TUTORIAL - choose any tutorial that is available
- Any course in Faculty of Arts

Four (4) Year Degree Plan for Year 1 Students - Winter 2020 - Course Plan B

UPEI Faculty of Sustainable Design Engineering 2019-2020

WINTER - Year 1 - Course Plan 4B

	Monday			Tuesday			Wednesday			Thursday			Friday		
	ENGN-B		MATH	ENGN-B		MATH	ENGN-B		MATH	ENGN-B		MATH	ENGN-B		MATH
8:30			MATH 1920-1	ENGN 1250-2					MATH 1920-1	ENGN 1250-2					MATH 1920-1
9:00															
9:30			MATH 1920-2						MATH 1920-2						MATH 1920-2
10:00			1920-3	ENGN 1340-2					1920-3	ENGN 1340-2					1920-3
10:30	ENGN 1310-2						ENGN 1310-2						ENGN 1310-2		
11:00															
11:30	ENGN 1310-2			ENGN 1220-2			ENGN 1340-2			ENGN 1220-2			ENGN 1250-2		
12:00	LAB			1220-4			LAB			1220-4			LAB		
12:30				DESIGN						DESIGN					
1:00															
1:30									MATH 1920-1						
2:00									Tutorial						
2:30			MATH 1920-1			MATH 1920-2			MATH 1920-2	ENGN 1340-3					
3:00									Tutorial	LAB					
3:30	ENGN 1340-3		MATH 1920-3				ENGN 1340-3					MATH 1920-3	ENGN 1340-3		
4:00			Tutorial												
4:30			MATH 1920-4			MATH 1920-5						MATH 1920-6			
5:00			Tutorial			Tutorial						Tutorial			

Term 2 (Year 1 - Winter 2020 Semester)		Sem Hrs
ENGN 1220	Engineering Analysis	3
ENGN 1250	Materials Science	3
ENGN 1310	Computer Programming	3
ENGN 1340	Engineering Mechanics II: Dynamics	3
MATH 1920	Single Variable Calculus II	4
HUM	Category D - Humanities Elective	3

Notes:

- Section 2 or 4 plus applicable Design Studio (LAB) - Lecture/Lab section must match
- Section 2 plus LAB Section 2 - Lecture/Lab section must match
- Section 2 plus LAB Section 2 - Lecture/Lab section must match
- Section 2 or 3 plus applicable LAB Section - Lecture/Lab section must match
- Section 1, 2, or 3 plus TUTORIAL - choose any tutorial that is available
- Any course in Faculty of Arts