

CIVL ENGINEERING 2021 / 2022
FALL TERM

Check frequently for updates.

January 5, 2022

5 Year Model

Monday	Tuesday	Wednesday	Thursday	Friday
8:30 MATH 2130 MATH 2132	8:30 CIVL 3710 CIVL 3760 MATH 2130 A02	8:30 MATH 2130 MATH 2132	8:30 CIVL 3710 CIVL 3760 MATH 2130 A02 STAT 2220	8:30 MATH 2130 MATH 2132
9:30 CIVL 2800 CIVL 3790 CIVL 4220 GEOL 1340	10:00 CIVL 3730 CIVL 4400	9:30 CIVL 2800 CIVL 3790 CIVL 4220 GEOL 1340	10:00 CIVL 3710 CIVL 3760	9:30 CIVL 2800 CIVL 3790 CIVL 4220 GEOL 1340
10:30 CIVL 3750 CIVL 4390		10:30 CIVL 3750 CIVL 4390		10:30 CIVL 3750 CIVL 4390
11:30 ENG 1440 A01/03 CIVL 4380 STAT 2220	11:30 ENG 1440 A02 CIVL 2840 CIVL 3690 MATH 2130 A02	11:30 ENG 1440 A01/03 CIVL 4380 STAT 2220	11:30 ENG 1440 A02 CIVL 3690 MATH 2130 MATH 2132	11:30 ENG 1440 A01/03 CIVL 4380 STAT 2220
12:30 CIVL 4250 ENG 3020 ENG 3000 A02	1:00 CHEM 1110 CIVL 4022 PHIL 2750* ENG 3000 A01	12:30 ENG 2040 A02 CIVL 4250 ENG 3020 ENG 3000 A02	1:00 CHEM 1110 CIVL 4022 PHIL 2750* ENG 3000 A01	12:30 ENG 2040 A01 CIVL 4250 ENG 3020 ENG 3000 A02
1:30 CIVL 3730 CIVL 4400		1:30 CIVL 3730 CIVL 4400		1:30 CIVL 3730 CIVL 4400
2:30 CHEM 1126 CIVL 3790 CIVL 4220 ENG 2040 A02	2:30 CIVL 2830 A01 CIVL 2840 B01 CIVL 3690 B01 CIVL 4380 GEOL 1340 B01	2:30 ENG 1440 A02 ENG 2040 A01 CIVL 3750 CIVL 4390 GEOL 1340 B02	2:30 CIVL 2830 A02 CIVL 2840 B02 CIVL 3690 B02 CIVL 4022 GEOL 1340 B03	2:30 ENG 1440 A01/03 CIVL 2800 CIVL 4250
3:30 CHEM 1126 CIVL 3790 CIVL 4220 ENG 2040 A02	4:00 CIVL 2830 A01 CIVL 2840 B01 CIVL 3690 B01 GEOL 1340 B01	3:30 ENG 1440 A02 ENG 2040 A01 CIVL 3750 CIVL 4390 GEOL 1340 B02	4:00 CIVL 2830 A02 CIVL 2840 B02 CIVL 3690 B02	3:30 ENG 1440 A01/03 CIVL 2800 CIVL 4250
4:30 CHEM 1126 ENG 2040 A02		4:30 ENG 2040 A01 CIVL 3750 GEOL 1340 B02	4:30 GEOL 1340 B03	4:30 CIVL 2800 CIVL 4250
	5:30 - 6:45	5:30 - 6:45	5:30 - 6:45	

Colour Codes:

 2nd year 3rd year 4th year 5th year Tech Elective Course
 offered fall & winter Sections in other depts.

Prerequisites

ENG 1440 A01	Statics	Fiorillo	
ENG 1440 A02	Statics	Khalid	
ENG 1440 A03	Statics	Semendary	
2nd Year			
MATH 2130	Math Analysis 1		MATH 1710,1210
CIVL 2830	Graphics	Laing	c CIVL 2840
CIVL 2840	CE Geomatics	Abdallah	p or c MATH 1210 c CIVL 2830
complete all first year courses			
3rd Year			
CHEM 1110	Interaction, React. & Chem prop		CHEM 1100 or CHEM 1300 (replaced 1310)
CHEM 1126	Intro to Chem Techniques		CHEM 1122 (replaced CHEM 1310)
STAT 2220	Eng Statistics		MATH 1710/1700
CIVL 2800	Solid Mech 1	Khalid	MATH 1710 or 1700, ENG 1440
CIVL 3750	Hydrology	Mantilla	p or c STAT 2220
ENG 3000	Eng Economics		(replaced CIVL 4050)
*Indigenous Knowledge Crs OR Comp Studies Crs OR PHIL 2750 (Enviro Opt ONLY)			
4th Year			
CIVL 3690	Enviro Eng Analysis	Gorczyca	CHEM 1310, ENG 2030/40, STAT 2220
CIVL 3730	Geo Mat Analysis	Alfaro	CIVL 2800,2770 GEOL 1340
CIVL 3760	Structural Analysis	Svecova	CIVL 2800
CIVL 3790	Transp Eng 1	Mehran	CIVL 2770,2780,2840 STAT 2220
1 tech elective			
5th Year			
CIVL 4220	Geotech Design	Blatz	CIVL 3730
CIVL 4380	Infrastructure	Isin	ENG 3000
CIVL 4390	Reinforced Conc Str	El-Salakawy	CIVL 2770, 3760
CIVL 4400	Trans Eng 2	Regehr	CIVL 3790
1 tech elective			
ENG 3020	Tech Soc		Written English Crse (replaced CIVL 4460)
Technical Electives - GROUP A			
CIVL 3710	e Finite Elem	Cha	CIVL 2790, 2800, 3590
CIVL 4022	e Des Concrete Mix	Bassuoni	CIVL 2770
CIVL 4250	e Grndwater Hydrol	Holländer	GEOL1340, CIVL2790 MATH 2130 2132
Technical Electives - GROUP B			
CIVL 4332	e Thesis Project	Svecova	120 credit hours, ENG 2030/40

(Take 5 elective courses in total)

 CIVL 2790, 2800, 3590
 CIVL 2770
 GEOL1340, CIVL2790 MATH 2130 2132
 (Max 2 courses from Group B - only 1 non CIVL)
 120 credit hours, ENG 2030/40

Technical electives vary from year to year. See website for complete list.

* Students admitted into the department in Fall 2021 or later require an Indigenous Knowledge Course. Students admitted prior to Fall 2021 require a complementary studies course. PHIL 2750 is the required course for Enviro Option ONLY. This requirement is in addition to the complementary studies course included in the first year program.

CIVL ENGINEERING 2021 / 2022
WINTER TERM

Check frequently for updates.
January 5, 2022

5 Year Model

Prerequisites

Monday	Tuesday	Wednesday	Thursday	Friday
8:30 CIVL 3740 MATH 2132 MATH 2132 CIVL 4040	8:30 GEOL 1340 CIVL 4130 CIVL 4030	8:30 CIVL 3740 MATH 2132 MATH 2132 CIVL 4040	8:30 GEOL 1340 CIVL 4130 CIVL 4030	8:30 CIVL 3740 MATH 2132 MATH 2132 CIVL 4040
9:30 CIVL 2780 CIVL 4020 CIVL 4470	10:00 CIVL 2790 ENG 3000 A02 CIVL 3770	9:30 CIVL 2780 CIVL 4020 CIVL 4470	10:00 CIVL 2790 ENG 3000 A02 CIVL 4230	9:30 CIVL 2780 CIVL 4020 CIVL 4470
10:30 ENG 1440 A01 CIVL 3590 CIVL 4230	10:30 CIVL 2790 ENG 3000 A02 CIVL 3770	10:30 ENG 1440 A01 CIVL 3590 CIVL 4230	10:30 CIVL 2790 ENG 3000 A02 CIVL 4230	10:30 ENG 1440 A01 CIVL 3590 CIVL 4230
11:30 CIVL 2770 CIVL 3770 ENG 3020 A01	11:30 ENG 1440 A02 MATH 2132 CIVL 3740 CIVL 4130 CIVL 4040	11:30 CIVL 2770 CIVL 3770 ENG 3020 A01	11:30 ENG 1440 A02 CIVL 2780 CIVL 3700 MATH 2132	11:30 CIVL 2770 CIVL 3770 ENG 3020 A01
12:30	1:00 ENG 3000 A01 CIVL 3700	12:30 ENG 2040 A02	1:00 ENG 3000 A01 STAT 2220 CIVL 3700	12:30 ENG 2040 A01
1:30 CIVL 4410 CIVL 4100 ENG 3020 A02 STAT 2220	1:30 ENG 3000 A01 CIVL 3700	1:30 CIVL 4410 CIVL 4100 ENG 3020 A02 STAT 2220	1:30 ENG 3000 A01 STAT 2220 CIVL 3700	1:30 CIVL 4410 CIVL 4100 ENG 3020 A02 STAT 2220
2:30 ENG 2040 A02 CIVL 2770 B01 CIVL 4410 CIVL 4100	2:30 CIVL 3590 CIVL 4590	2:30 ENG 2040 A01 CIVL 2770 B02 CIVL 4020 CIVL 4470 ENG 1440 A02	2:30 CIVL 2790 CIVL 4590	2:30 ENG 1440 A01 GEOL 1340 B04 CIVL 4030
3:30 ENG 2040 A02 CIVL 2770 B01 CIVL 4410 CIVL 4100	4:00 CIVL 3590 CIVL 4590	3:30 ENG 2040 A01 CIVL 2770 B02 CIVL 4020 CIVL 4470 ENG 1440 A02	4:00 CIVL 2790 CIVL 4590	3:30 ENG 1440 A01 GEOL 1340 B04 CIVL 4030
4:30 ENG 2040 A02 CIVL 2770 B01		4:30 ENG 2040 A01 CIVL 2770 B02 CIVL 4470		4:30 GEOL 1340 B04
5:30 - 6:45	5:30 - 6:45 CIVL 4590	5:30 - 6:45	5:30 - 6:45 CIVL 4590	

ENG 1440 A01 ENG 1440 A02	Eng Statics Eng Statics	Khalid Khalid	
2nd Year CIVL 2790	Fluid Mech	Clark	ENG 1440, MATH 1710/1700
ENG 2030/2040 GEOL 1340 - B04 MATH 2132	Engineering Comm Dynamic Earth Math Analysis 2		Written English, ENG 1430 MATH 1710/1700, MATH 1210
3rd Year CIVL 2770 CIVL 2780 CIVL 3590 CIVL 3740 ENG 3000 A01	CE Materials CE Systems Num Methods Hydraulics Eng Economics	Bassuoni TBD Shalaby Dow	ENG 1440; CIVL 2800 MATH 1710/1700 COMP 1012, p or c MATH 2132 CIVL 2790 (replaced CIVL 4050)
4th Year CIVL 3700 CIVL 3770 1 or 2 tech electives	Enviro Eng Des Des of Steel Struc	Yuan Cha	CIVL 3690 CIVL 2770, 3760
5th Year ENG 3020 A01 CIVL 4590 1 or 2 tech electives	Tech Soc Design Project	Blatz/Lau	Written English Course (replaced CIVL 4460) ENG 2010/30/40, CIVL 2840, 3690, 3730 CIVL 3740, 3750, 3770, 3790

Technical Electives All Tech electives qualify for Civil program.
(Take 5 in total) e = Course also qualifies for environmental option.

Technical Electives - GROUP A			
CIVL 4020	Masonry Des	Fiorillo	CIVL, 2770, CIVL 3760
CIVL 4030	Adv. Struc Des	El-Salakawy	p or c CIVL 3770
CIVL 4040	Structural Dyn	Lau	CIVL 3760
CIVL 4100	e Eng Mngmt & Env	Gorczyca	p or c CIVL 3700
CIVL 4130	e Solid Waste Mgt	Wang	p or c CIVL 3700
CIVL 4230	Geotech Eng	Alfaro	CIVL 3730
CIVL 4410	Transportation Sys	Regehr	CIVL 3790
CIVL 4470	e Watershed Proc	TBD	CIVL 3750, p or c CIVL 3740
Technical Electives - GROUP B - (Max 2 courses from Group B - only 1 non CIVL)			
CIVL 4332	e Thesis Project	Svecova	120 credit hours, ENG 2010/30/40

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