

BACHELOR OF SCIENCE IN CIVIL ENGINEERING
CURRICULUM OUTLINE - CLASS OF 2016, 2017, 2018, 2019, 2020

Sample Only – Actual Curriculum Sequence May Deviate from Sample

	FALL	SPRING	SUMMER 1	SUMMER 2
Year 1	MATH1341 Calculus 1 for Engrs. 4 CHEM1151 General Chem. for Engrs. 4 CHEM1153 Recitation for CHEM1151 0 GE1110 Eng'g. Design 4 GE1000 Intro. to Eng'g. 1 NU Core Arts OR Humanities Lvl. 1 4	MATH1342 Calculus 2 for Engrs. 4 PHYS1151 Physics 1 for Engrs. 3 PHYS1152 Physics 1 Lab 1 PHYS1153 ILS for PHYS1151 1 GE1111 Eng'g. Prob. Solv. & Comp. 4 ENGW1111 College Writing 4	Vacation	Vacation
Year 2 (AA)	MATH2321 Calculus 3 for Engrs. 4 PHYS1155 Physics 2 for Engrs. 3 PHYS1156 Physics 2 Lab 1 PHYS1157 ILS for PHYS1155 1 CIVE2221 Statics & Strength 4 CIVE2222 Recitation for CIVE2221 0 CIVE2334 Environ. Eng'g. 1 4	MATH2341 Diff. Eq./Lin. Alg. 4 CIVE2000 Intro. to Eng'g. Co-op 1 CIVE2260 Materials 3 CIVE2261 Meas./Matls. Lab 2 CIVE2320 Struct. Analysis 1 4 CIVE2321 Recitation for CIVE2320 0 ECON1115 Macro or Micro Economics 4 <i>or 1116 (Social Science Lvl. 1)</i>	Vacation	Co-op
Year 2 (BB)	MATH2321 Calculus 3 for Engrs. 4 CIVE2000 Intro. to Eng'g. Co-op 1 CIVE2221 Statics & Strength 4 CIVE2222 Recitation for CIVE2221 0 CIVE2260 Materials 3 CIVE2261 Meas./Matls. Lab 2 CIVE2334 Environ. Eng'g. 1 4	Co-op	Co-op	Vacation
Year 3 (AA)	Co-op	CIVE2331 Fluid Mechanics 4 CIVE2340 Soil Mechanics 4 CIVE2341 Soil Mechanics Lab 1 Elective Civil Tech. Elective 1 3/4 Elective Science Elective 4	**CIVE2324 Concrete Design 4 Elective General Elective 1 4	Co-op
Year 3 (BB)	PHYS1155 Physics 2 for Engrs. 3 PHYS1156 Physics 2 Lab 1 PHYS1157 ILS for PHYS1155 1 CIVE2320 Struct. Analysis 1 4 CIVE2321 Recitation for CIVE2320 0 CIVE2331 Fluid Mechanics 4 ECON1115 Macro or Micro Economics 4 <i>or 1116 (Social Science Lvl. 1)</i>	Co-op	Co-op	MATH2341 Diff. Eq./Lin. Alg. 4 CIVE2340 Soil Mechanics 4 CIVE2341 Soil Mechanics Lab 1
Year 4 (AA)	Co-op	CIVE3000 Prof. Issues in Eng'g. 1 CIVE3464 Prob./Eng'g. Econ. 4 Elective Civil Tech. Elective 2 4 Elective Civil Tech. Elective 3 4 *ENGW3302 Adv. Writing for Prof. 4	Elective General Elective 2 4 Elective General Elective 3 4	Co-op
Year 4 (BB)	**CIVE2324 Concrete Design 4 CIVE3000 Prof. Issues in Eng'g. 1 Elective Civil Tech. Elective 1 3/4 Elective Science Elective 4 *ENGW3302 Adv. Writing for Prof. 4	Co-op	Co-op	Elective General Elective 1 4 Elective General Elective 2 4
Year 5 (AA)	Co-op	CIVE476x Sr. Design Project 5 Elective Civil Tech. Elective 4 4 Elective General Elective 4 4 Elective General Elective 5 4		
Year 5 (BB)	CIVE3464 Prob./Eng'g. Econ. 4 Elective Civil Tech. Elective 2 4 Elective Civil Tech. Elective 3 4 Elective General Elective 3 4	CIVE476x Sr. Design Project 5 Elective Civil Tech. Elective 4 4 Elective General Elective 4 4 Elective General Elective 5 4		

Revised 3/30/15

[* ENGW3315](#) is an acceptable substitution for engineering majors.

English course prefixes have changed from ENGL to ENGW. ENGW1111 is equivalent to ENGL1111. ENGW3302 is equivalent to ENGL3302. Effective Fall 2014, the ENGW 3301 course number will be retired. Students may take ENGW 3302 or ENGW 3315 to fulfill their Advanced Writing in the Technical Professions requirement. ENGW 3301 will still count towards the Advanced Writing in the Technical Professions requirement if the course was taken prior to Fall 2014.

****Steel Design** is an acceptable substitution for Concrete Design. If this option is chosen, Steel Design will not count for a technical elective and student must complete 4 other technical electives one of which can include Concrete Design.

Students must fill elective slots with the following:

NU Core Elective Requirements: 2 required - (One Arts Lvl. 1 **OR** Humanities Lvl. 1) **AND** (One Social Science Lvl. 1 (Social Science Lvl. 1 fulfilled by either ECON1115 or ECON1116))

General Elective Requirements: 5 required - Any 4 SH course that is not remedial or repetitive

Science Elective: 1 required - See approved Science elective list

Civil Engineering Technical Electives (TE): 4 required - This must include either Foundation Engineering, Hydrologic Engineering or Highway Engineering

Capstones (Senior Design Project):

CIVE4765 - Environmental capstone

CIVE4767 - Structural capstone

CIVE4768 - Transportation capstone

Electives may be interchanged. Please consult with your academic advisor.

The registrar's website provides a listing of degree requirements and the DARS system provides a degree audit utility for students.