Civil Engineering, B.S.

Name: _____ **SID:** _____ **Advisor:** _____

Transfer: _____ **Transfer Degree:** _____ **Grad. Req.: 120 cr. (min.)**

_____ ALEKS _____ Writing Placement ___ Writing Portfolio ___ EIT/FE exam ___Expt. Rqmt. Start sem: _____ Cert. sem: _____ Grad. sem: _____

Fall Semester - Year 1	Grade	Semester	Cr.
Chem 105 (Math 106 c// or ALEKS 50% or Math 108)			4
Math 171 [N, QUAN] (ALEKS 80% or Math 106 & Math 108 C or better)			4
Engl 101 [W, WRTG] (Writing Placement score 1)			3
Math 106 (If needed) (ALEKS 40%; or Math 101 or Math 103 min: C)			3
Math 108 (If needed) (Math 106: C or better)			2
Engr 120			2
History 105 (305 transfer student) [ROOT]			3
			16 / 17

Spring Semester - Year 1	Grade	Semester	Cr.
Biol 102 or Mbios 101 [BSCI]			4
Econs 101/102 [SSCI] (ALEKS 30% or Math 106, 108, 171, 201 or 202 c//)			3
Math 172 (Math 171)			4
UCORE (Refer to UCORE course list)			3
UCORE (Refer to UCORE course list)			3
Summer Semester			**17**
Math 172 (Math 171) If not previously completed ≥ C.			**4**

Fall Semester - Year 2	Grade	Semester	Cr.
CE 211 (Math 172 c//; Phys 201 c//)			3
ComSt 102 or HD 205 [COMM]			**3** / 4
EE 221 (Math 172, 220) (or Summer*)			**2**
Math 220 (Math 171 c//)			**2**
Math 273 (Math 172 C or better)			**2**
Phys 201 [PSCI] (Math 171 C or better)			**4**
			16 / 17

Spring Semester - Year 2 *(Complete Jr. Writing Portfolio)*	Grade	Semester	Cr.
CE 215 (CE 211 C or better)			3
Txfr. students: Take CE 215 at WSU TC the summer semester before fall classes.			
Math 315 (Math 220 and Math 273 C or better)			3
ME 212 (CE 211 C or better; Math 172 C or better)			3
Phys 202 or Chem 106 or Geol 102			4
UCORE (Refer to UCORE course list)			3
Summer Semester			**16**
EE 304 (Math 315 c//) or ME 301 (Math 315 c//) (or spring semester*)			**2**
EE 221 (Math 172, 220) (or fall semester*)			**2**

Fall Semester - Year 3	Grade	Semester	Cr.
CE 302 (Math 171 C or better; CE certified)			2
CE 315 (ME 212; CE certified)			3
CE 317 [M] (CE 215 C or better; CE 315 c//; CE certified)			3
CE 330 (CE 215 C or better; CE certified)			3
CE 341 (Chem 105; MBioS 101 recommended)			3
CstM 254 (CE certified)			2
ME 220 (CE 215 c//)			1
			17

Spring Semester - Year 3 **(Apply for graduation)**	Grade	Semester	Cr.
CE 303 (CE certified)			2
CE 322 (Math 360/370 c//; CE 302 c//; CE certified)			3
CE 351 (CE 315 C or better; CE certified)			3
EE 304 (or ME 301) (Math 315 c//) or (Phys 201) (or Summer*)			2
Engl 402/403 (Engl 101; junior standing)			3
Math 360 (or 370 - fall) (Stat 360/370 cross listed; Math 172 C or better)			3
			16

Fall Semester - Year 4	Grade	Semester	Cr.
CE 430 (S) (CE 330 C or better; Math 220; EE 221; CE certified)			3
CE 463			3
CE 475 (H, Des) (CE 317 or Geol 315; Math 140, 171 or 182 c//)			3
CE 480 [M] (Senior status; CE certified)			1
CE Tech Elective			3
CE 495 Engineering Internship			variable
			13+

Spring Semester - Year 4	Grade	Semester	Cr.
CE 414 (S, Lab) (CE 330; Math 360/370 c//; CE certified)			3
CE 433 (S, Des) (CE 330 C or better; CE certified)			3
CE 442 (E, Des) (CE 341 C or better; CE certified)			3
CE 451/460 (H, Des / H, Des) (CE 351 C or better; CE certified)			2
CE 465 [M, CAPS] (Senior standing; CE certified)			3
CE 466 (Senior standing; CE certified)			1
			15

This document is for unofficial planning purposes.
Refer to the WSU catalog for official information.

UCORE: [ROOT], [QUAN], [WRTG], [COMM], [SSCI], [HUM], [ARTS], [BSCI], [PSCI], [DIVR], [CAPS]

UCORE

[ROOT] History 105 or 305* - Roots of Contempory Issues (3)

[QUAN] Math 171 - Calculus I (4)

[WRTG] Engl 101 - Introduction to Writing (3)

[COMM] Communication (Com 102; Engl 402)

[SSCI] Econ 101 or 102 - Micro or Macro Economics

[HUM] Inquiry in the Humanities (3)

[ARTS] Inquiry in the Creative and Professional Arts (3)

[BSCI] Inquiry in the Natural Sciences (biological science)

[PSCI] Phys 201 - Physics for Scientists & Engineers (4)

[DIVR] Diversity (3)

[M] CE 317- Geotechnical Engineering (3)

[M] [CAPS] CE 465 - Integrated Civil Engineering Design (3)

AST

[ROOT] History 305* - Roots of Contempory Issues (3)
[DIVR] Diversity (3)

** History 305 is intended for students transferring approximately 45 semester credits.*

Notes:

120 credits (minimum) required for graduation

Civil Engineering degree: 127 credit hours (minimum)

AST Option (see Academic Plan notes)

CE courses - final gradeC or better

Experiential Requirement (refer to CE website; degree requirement)

Fundamentals of Engineering Exam (senior semester

Junior Writing Portfolio (60 credits)

Certification application deadlines - Refer to Civil Engineering website

Graduation app. deadlines - Refer to Academic Calendar

* Course is typically offered during this semester; however, scheduling is subject to change

Biol 102 General Biology (or Mbios 101Intro. Microbiology) (4)
CE 211 Statics (3)
CE 215 Mechanics of Materials (3)
CE 302 Introduction to Surveying (2)
CE 303 CE Computer Applications (2)
CE 315 Fluid Mechanics (3)
CE 317 Geotechnical Engineering [M] (3)
CE 322 Transportation Engineering (3)
CE 330 Structural Engineering (3)
CE 341 Environmental Engineering (3)
CE 351 Water Resources (3)
CE 414** Environmental Measures *(S, Lab/Des*) (3)
CE 430** Analysis of Indeterminate Structures (S) (3)
CE 433** Reinforced Concrete Design (S, Des) (3)
CE 442** Water/Waste Treatment Design (E, Des) (3)
CE 451** Open Channel Flow (H, Des) (3)
CE 460** Advanced Hydrology (H, Des) (3)
CE 463 Engineering Administration (3)
CE 465 Integrated Civil Engineering Design [T, M] (3)
CE 466 Fundamentals of Engineering Exam Review (1)
CE 475** Groundwater *(H, Des)* (3)
CE 480 Ethics & Professionalism [M] (1)
CE 495 Engineering Internship (variable)
CstM 254 Construction Graphics (2)
Chem 105 Principles of Chemistry I (4)
Chem 106 Principles of Chemistry II (4)
Com 102 Communication in an Information Society (3)
(or HD 205 Effect. Comm & Life Skills (3)
EE 221 Numerical Computing for Engineers (2)
EE 304 Electrical Circuits (or ME 301 Fund Therm Dyn.) (2)
Econs 101 Microeconomics (or Econs 102 Macroeconomics) (3)
Engl 101 Introduction to Writing (3)
Engl 402 Technical Writing (3)
ENGR 120 Innovation in Design (2)
Geol 101 Introduction to Geology (4)
History 105 Roots of Contempory Issues (or Hist 305 - Txfr students) (3)
Math 101 Intermediate Algebra (3)
Math 106 College Algebra (3) (If needed)
Math 108 Trigonometry (2) (If needed)
Math 171 Calculus I (4)
Math 172 Calculus II (4)
Math 220 Linear Algebra (2)
Math 273 Calculus III (2)
Math 315 Differential Equations (3)
Math 360 or 370 Statistics (3)
ME 212 Dynamics (3)
ME 220 Materials Lab (1)
ME 301 Fundamentals of Thermodynamics (3)
Phys 201 Physics for Scientists & Engineers I (4)
Phys 202 Physics for Scientists & Engineers II (4)

Courses listed are typical course offerings. Courses listed and order are subject to updating.

** CE electives. Total credit hours must be distributed so that 3 courses are design emphasis (DES). DES courses must be from at least 2 different areas.