

2025-2026 ISU Construction Engineering – 127 CR

Infrastructure Focus

Semester 1 – 16 CR	Semester 2 – 15 CR	Semester 3 – 18 CR	Semester 4 – 16 CR	Semester 5 – 15 CR	Semester 6 – 17 CR	Semester 7 – 15 CR	Semester 8 – 15 CR
CONE 1210 – 1 CR CONE Learning Community: Academic Life Fall only	CONE 1220 – 1 CR CONE Learning Community: Professional Life Spring only	CONE 2220 – 3 CR Contractor Organization and Management of Constr. Co: Completion of Basic Program	CONE 2410 – 3 CR Construction Materials and Methods Pre: Completion of Basic Program	CONE 3220 – 3 CR Constr. Equipment and Heavy Constr. Methods Fall only Pre: (CONE 2220 and CONE 2410)	CONE 3400 – 3 CR Concrete and Steel Construction Pre: CONE 2220, EM 3240	CONE 4220 – 3 CR Construction Cost Estimating and Cost Engineering Pre: CONE 2410, CONE 2510	CONE 4870** – 3 CR CONE Design I Pre: CONE 3400, CONE 3520, CONE 3530, CONE 4220, CONE 4410
ENGR 1010 – R CR Engineering Orientation Fall only	CE 1700 – 2 CR Graphics for Civil Engineering Co: MATH 1430 or MATH 1650	CE 1110 – 3 CR Geomatics Pre: CE 1600, CE 1700, MATH 1650	CONE 2510 – 1 CR Mechanical/Electrical Materials and Methods Co: CONE 2410	Law Elective: CONE 3800 – 3 CR or ACCT 2150 – 3 CR	CE 3820 – 3 CR Design of Concretes Pre: CE 2720	CONE 4410 – 3 CR Construction Planning, Scheduling, and Control Co: CONE 4220	CONE 4880** – 3 CR CONE Design II Pre: CONE 3400, CONE 3520, CONE 3530, CONE 4220, CONE 4410
MATH 1650 – 4 CR Calculus I (C- or higher required)	MATH 1660 – 4 CR Calculus II Pre: C- or higher in MATH 1650	MATH Elective: MATH 2650 – 4 CR or MATH 2070 – 3 CR	MATH 2670 – 4 CR Elem Diff Equations with Laplace Transforms Pre: C- or higher in MATH 1660	ABE 3780 – 3 CR Mechanics of Fluids Pre: CE 2720	CE 3600 – 4 CR Geotechnical Engineering Pre: EM 3240 Co: CONE 2410	*Engineering Topics Elective – 3 CR	*Engineering Topics Elective – 3 CR
CHEM 1670 – 4 CR General Chemistry for Engineering	PHYS 2310 – 4 CR Intro to Classical Physics I Pre: MATH 1650 Co: MATH 1660	PHYS 2320 – 4 CR Intro to Classical Physics II Pre: MATH 1660, PHYS 2310	CE 2720 – 2 CR Applied Engineering Statics Pre: CE 2710, PHYS 2310, PHYS 2310L Co: C- or higher in MATH 1660	EM 3240 – 3 CR Mechanics of Materials Pre: CE 2720	CE 3320 – 3 CR Structural Analysis I Pre: EM 3240	CE 3330 – 3 CR Structural Design I Pre: CE 3320, EM 3270	CE 3340 – 3 CR Reinforced Concrete Design I Pre: CE 3320, EM 3270
CE 1600 – 3 CR Engineering Problems Co: MATH 1650	PHYS 2310L – 1 CR Intro to Classical Physics I Lab Pre: MATH 1650 Co: MATH 1660, PHYS 2310	PHYS 2320L – 1 CR Intro to Class. Physics II Lab Pre: MATH 1660 Co: PHYS 2320	IE 3050 – 3 CR Engineering Economic Analysis Pre: MATH 1660	Engineering Statistics: STAT 2310 – 4 CR or STAT 3050 – 3 CR	EM 3270 – 1 CR Mechanics of Materials Lab Pre: EM 3240	*International Perspective – 3 CR	Business Communication Elective – 3 CR ENGL 3020, 3090, or 3140 (C or higher required)
ENGL 1500 – 3 CR Critical Thinking and Communication (C or higher required)	ENGL 2500 – 3 CR Written, Oral, Visual, and Elect. Comp (C or higher required) Pre: ENGL 1500 Co: LIB 1600	ECON 1010 – 3 CR or ECON 1020 – 3 CR	*Social Science and Humanities Elective – 3 CR		*US Cultures and Communities – 3 CR		
LIB 1600 – 1 CR Intro to College Level Research		CE 2710 – 1 CR Engr Foundations of Statics Pre: MATH 1650 Co: PHYS 2310, PHYS 2310L					

KEY

Pre: prerequisite
Co: corequisite
CR: credit

Infrastructure Focus

Construction Core
2.0 GPA Required

Basic Program
2.0 GPA Required

Notes

- Although this program chart is provided for your guidance, the University Catalog contains the definitive list of requirements.
 - To apply transfer course credit to your degree program, the university requires a grade of C or higher.
 - Courses may appear on multiple elective lists but may only be applied for **ONE** elective.
- *Choose elective from approved list.
**Must be within two semesters of graduation.

Social Science and Humanities Electives

Recommended by CONE Program

ANTHR 2100 – 3 CR
ANTHR 2200 – 3 CR
ANTHR 2300 – 3 CR
HIST 2800 – 3 CR
HIST 2840 – 3 CR
INTST 2350 – 3 CR
LDST 3220 – 3 CR
MGMT 3700 – 3 CR
MGMT 3710 – 3 CR

PHIL 2300 – 3 CR
PHIL 2350 – 3 CR
PHIL 3340 – 3 CR
PHIL 3430 – 3 CR
PSYCH 1010 – 3 CR
PSYCH 2300 – 3 CR
PSYCH 2800 – 3 CR
SOC 1340 – 3 CR

For more options, refer to the LAS Arts & Humanities
and Social Sciences lists.

Engineering Topics Electives

Recommended by CONE Program

CONE 4900 – 1-3 CR
CE 3550 – 3 CR
CE 3720 – 3 CR
CE 3880 – 3 CR
CE 4170 – 3 CR
CE 4460 – 3 CR

CE 4480 – 3 CR
CE 4510 – 3 CR
CE 4530 – 3 CR
CE 4600 – 3 CR
CE 4890 – 3 CR
GEOL 2010 – 3 CR

Other approved courses:

Any CE or CONE 3000-, 4000-, and 5000-level course not
required in your program (except CE 5940A and CE 5990)