

2006-07 CATALOG
CIVIL ENGINEERING

B.S. Degree Requirements
 134 Credits

GENERAL REQUIREMENTS

COMMUNICATIONS:- (9)

Engl 111X (3)____
 Engl 211X or 213X (3)____
 Comm 131X or 141X (3)____

PERSPECTIVES ON THE HUMAN CONDITION:- (18-22)

Complete the 6 courses listed **OR** 4 of those listed plus 2 semester length courses in a single AK Native or other non-English language or three semester length courses (9 credits) in American Sign Language.

Anth 100X/Soc 100X (3)____
 Econ/PS 100X (3)____
 Hist 100X (3)____
 Art/Mus/Thr 200X or Hum 201X or
 ANS 202X (3)____
 Engl/FL 200X (3)____
 BA 323X or Comm 300X or Just 300X or
 Nrm 303X or Phil 322X or PS 300X (3)____
 Language option as listed above:
 _____() _____() _____()

***MATHEMATICS:- (15)**

Math 200X (4)____ *Math 202X (4)____
 Math 201X (4)____ *Math 302 (3)____
 *Must earn a "C" or better in all math courses

***NATURAL SCIENCE:- (16)**

Chem 105X (4)____ Phys 211X (4)____
 Chem 106X (4)____ Phys 212X (4)____
 * Must earn a "C" or better

LIBRARY & INFO SKILLS:- (0-1)

LS competency test _____ OR
 LS 100X or 101X (1)_____

COMPLETE 2 DESIGNATED (W) COURSES AND
 1 DESIGNATED (O) COURSE OR 2 COURSES
 DESIGNATED (O/2) AT THE UPPER DIVISION LEVEL:

_____(W) _____(W)
 _____(O) OR _____(O/2) _____(O/2)

UPPER DIVISION CREDITS:- (39)

Transfer Credits _____
 UAF Credits (24)* _____
 TOTAL TO DATE: _____
 TO BE COMPLETED: _____

*a minimum of 24 UAF credits

**Designates only grades of "C" or better may be used to fulfill this requirement*

MAJOR REQUIREMENTS

***1. Complete the following:- (64)**

CE 112 (3)____
 CE 326 (4)____(W)
 CE 331 (3)____ (was CE 431)
 CE 334 (3)____
 CE 344 (3)____
 CE 400 (0)____(FE EXAM)
 CE 402 (3)____
 CE 432 (3)____
 CE 438 (3)____(O/W)
 CE 441 (4)____
 CE 490 (.5)____
 CE 491 (.5)____
 Drt 170 (3)____
 ES 101 (3)____
 ES 201 (3)____
 ES 209 (3)____
 ES 210 (3)____
 ES 301 (3)____
 ES 331 (3)____
 ES 341 (4)____
 ESM 422 (3)____
 ESM 450 (3)____(W)
 GE 261 (3)____

***2. Complete 12 credits of technical electives. Must include 3 credits in the field of environmental engineering or transportation, 6 credits of CE, ENVE, ESM courses or approved technical courses, and 3 credits of either ES 307 or ES 346. Up to two graduate level courses must be approved by advisor and the student must be within two semesters of graduation and have at least a 3.0 GPA to take graduate courses.**

ES 307 or 346 (3)____
 AND
 _____(3)____
 _____(3)____
 _____(3)____

Credits for core/general requirements:	58-59
Credits for major:	76
Total credits required for degree	134

(civl)

BACHELOR OF SCIENCE IN CIVIL ENGINEERING

First Year: Fall

ENGL 111X –Methods of Comm	3
MATH 200X-Calculus	4
ES 101 – Intro to Engineering	3
CHEM 105-General Chemistry	4
DRT 170-Beginning Autocad	3
	17

First Year: Spring

COMM 131X or COMM 141X	3
MATH 201X-Calculus	4
CE 112-Elementary Surveying	3
CHEM 106-General Chemistry	4
ES 201-Computer Techniques	3
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Second Year: Fall

MATH 202X-Calculus	4
PHYS 211-General Physics	4
ENGL 211X or 213X	3
ES 209- Statics	3
Perspectives on Human Condition	3
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Second Year: Spring

MATH 302-Differential Equations	3
PHYS 212-General Physics	4
ES 210-Dynamics	3
GE 261-General Geology for Engineers	3
Perspectives on the Human Condition	3
LS 101X-Library Info and Research	1
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Third Year: Fall

CE 334-Properties of Materials	3
ES 301-Engineering Analysis	3
ES 331-Mechanics of Materials	3
ES 341-Fluid Mechanics	4
CE 402-Intro Transportation Eng.	3
	16

Third Year: Spring

CE 326-Intro. To Geotech. Engineering	4
CE 441-Environ. Engineering	4
CE 431-Structural Engineering I	3
Technical Elective	3
Perspectives on Human Condition	3
	17

Fourth Year: Fall

CE 344-Water Resources Engineering	3
CE 432- Structural Engineering II	3
CE 490 - Civil Engineering Seminar	0.5
Technical Elective	3
Technical Elective*	3
Technical Elective*	3
Perspectives on Human Condition	3
	18.5

Fourth Year: Spring

ESM 450-Econ. Analysis & Operations	3
CE 438-Design of Engr. Systems	3
CE 491 - Civil Engineering Seminar	0.5
Technical Elective*	3
Perspectives on Human Condition	3
Perspectives on Human Condition	3
CE 400-EIT Exam	15.5
	15.5

**Complete 15 technical elective credits. Must include 9 credits of CE, ENVE or ESM courses, 3 credits of either ES 307 or 346, and 3 credits of approved technical courses. Students should consult their advisor. Only one graduate level course may count toward graduation as a technical elective.*

NOTE: The ability to utilize computers for normal class work is expected in all engineering classes above the 100 level.