CIVIL ENGINEERING (BSCE - 131 hours)

Last updated: 6/10/2010

Name: _____ USF ID: _____

GENERAL EDUCATION & EXIT REQUIREMENTS (27 HOURS)

ENGLISH (9 hrs)

___ ENC1101 (3) Composition I

___ ENC1102 (3) Composition II

___ ENC 3246 (3) Communications for Engineers (Exit L&W)

SOCIAL & BEHAVIORIAL (6 hrs)

___ _____ ( ) _____

___ _____ ( ) _____

HUMANTIES (6 hrs)

___ _____ ( ) _____

___ _____ ( ) _____

FINE ARTS (3 hrs)

___ _____ ( ) _____

HCDGC (3 hrs)

___ _____ ( ) _____

MATHEMATICS AND SCIENCE (33 HOURS)

___ MAC 2281 (4) Engr. Calculus I

___ MAC 2282 (4) Engr Calculus II

___ MAC 2283 (4) Engr Calculus III

___ MAP 2302 (3) Diff Equations**

___ CHM 2045 (3) Gen Chem I***

___ CHM 2045L (1) Chem Lab

___ GLY 3850 (3) Geology for Engineers

___ EGN 3443 (3) Eng Statistics I

___ PHY 2048 & 2048L (3) Physics w/ Calculus I (1) & Lab

___ PHY 2049 & 2049L (3) Physics w/ Calculus II (1) & Lab

ENGINEERING CORE (35 HOURS)

___ EGS 1113 (3) Intro to Design Graphics

___ EGN 3000 (1) Foundations of Engineering *

___ EGN 4427 (3) Numerical & Computer Tools

___ EGN 3311 (3) Statics

___ EGN 4454 (3) Computer Skills

___ EGN 3321 (3) Dynamics

___ EGN 3331 (3) Mechanics of Materials

___ EGN 3331L (1) MoM/Materials Lab

___ EGN 3343 (3) Thermodynamics I

___ EGN 3353C (3) Basic Fluid Mechanics

___ EGN 3365 (3) Materials Engineering I

___ EGN 3373 (3) Intro to Electrical Sys I

___ EGN 3615 (3) Engineering Economy I

SPECIALIZATION (36 HOURS) FOR BSCE

___ ENV 4004L (1) Environmental/Water Lab

___ CES 3102 (3) Structures I

___ CEG 4011 (3) Geotech I

___ CEG 4011L (1) Geotech/Trans Lab

___ CWR 4202 (3) Hydraulics

CONCENTRATION COURSES

___ _____ (3) _____

___ _____ (3) _____

___ _____ (3) _____

___ _____ (3) _____

___ _____ (3) _____

___ TTE 4004 (3) Transportation Engineering I

___ ENV 4001 (3) Environmental Engineering

CAPSTONE DESIGN REQ MW/MI

___ _____ (3) _____

___ CGN 4122 (1) Professional and Ethics

___ **TOTAL DESIGN CREDITS**

CLAST: _____ GORDON: _____ FLENT: _____ ABET D & B: _____

Code: T = Transfer W = Waived K = Clep A, B, C, D = Grade

* Substitution allowed for transfer students with AA degree ** EGN 3433 substitutes for MAP 2302 *** CHS 2440 substitues for CHM 2045

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Civil Engineering Concentration and Capstone Design Requirements

The following is a list of possible concentration electives that students may take. It is important that students adhere to prequisites and corequisites in choosing their electives. Civil Engineering students take one of 3 tracks listed next:

Structures/Materials/Geotechnical Track

_____	CES 4702	Concepts of Concrete Design *
_____	CES 4605	Concepts of Steel Design*
_____	CGN 4851	Concrete Construction Materials*
	CEG 4012	Geotechnical Engineering II
		or
_____	TTE 4005	Transportation Engineering II
_____		Technical Elective
_____	CES 4750	Capstone Structures/Materials/Geotechnical Design

Geotechnical/Transportation Track

_____	CGN 4851	Concrete Construction Materials*
_____	CEG 4012	Geotechnical Engineering II*
_____	TTE 4005	Transportation Engineering II*
_____		Technical Elective
_____		Technical Elective
_____	CEG 4850	Capstone Geotechnical/Transportation Design

Environmental/Water Resources Track

_____	ENV 4417	Water Quality and Treatment*
_____	CWR 4540	Water Resources Engineering*
	CEG 4012	Geotechnical Engineering II
		or
_____	TTE 4005	Transportation Engineering II
_____		Technical Elective
_____		Technical Elective
_____	CWR 4812	Capstone Water Resources/Environmental Design

The program supports the following technical elective courses:

_____	CCE 4031	Construction Management
_____	CEG 4012	Geotechnical Engineering II
_____	CES 4605	Concepts of Steel Design
_____	CES 4702	Concepts of Concrete Design
_____	CGN 4851	Concrete Construction Materials
_____	CGN 4933	Special Topics in Civil & Environmental Engineering**
_____	CRW 4540	Water Resources Engineering I
_____	SUR 2101C	Engineering I and Land Surveying
_____	TTE 4003	Transportation and Society
_____	TTE 4005	Transportation Engineering II

Students may, with the help of their advisor, formulate their own track to meet the requirements for a bachelor's degree in civil engineering. This track will consist of five electives coupled with a capstone design course (18 total credit hours).

* Required for concentration.

All courses are 3 credits

**Please see academic advisor for selected special topic courses.