CIVIL ENGINEERING (BSCE - 131 hours)

Last updated: 6/7/2016

	GENERAL	EDUCATION & EXIT REQUIREMENTS (27	HOURS)
ENGLISH (9 hrs)		FKL SOCIAL & SCIENCE (3 hrs)	FKL FINE ARTS (3 hrs)
ENC1101	(3) Composition I	()()	_ ()
		FKL SOCIAL & BEHAVIORAL (3 hrs)	_
ENC1102	(3) Composition II	()	FKL HCDGC (3 hrs)
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ENC 3246	(3) Communications for Engineers (Exit L&W)	FKL HUMANITIES (3 hrs)	()
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	IV	IATHEMATICS AND SCIENCE (33 HOURS)	
MAC 2281	(4) Engr. Calculus I	CHM 2045 (3) Gen Chem I***	PHY 2048 (3) Physics w/ Calculus I
MAC 2282	(4) Engr Calculus II	CHM 2045L (1) Chem Lab	& 2048L (1) & Lab PHY 2049 (3) Physics w/ Calculus
MAC 2283	(4) Engr Calculus III	GLY 3850 (3) Geology for Engineers	& 2049L (1) & Lab
MAP 2302	(3) Diff Equations**	EGN 3443 (3) Eng Statistics I	
		ENGINEERING CORE (35 HOURS)	
EGN 1113	(3) Intro to Design Graphics	EGN 3321 (3) Dynamics	EGN 3353C (3) Basic Fluid Mechanic
EGN 3000	(1) Foundations of Engineering *	EGN 3331 (3) Mechanics of Materials	EGN 3365 (3) Materials Engineerin
EGN 3311	(3) Statics	EGN 3331L (1) MoM/Materials Lab	EGN 3373 (3) Intro to Electrical Sy
EGN 4453	(3) Numerical & Computer Tools I	EGN 3343 (3) Thermodynamics I	EGN 3615 (3) Engineering Econom
EGN 4454	(3) Numerical & Computer Tools II		
	:	SPECIALIZATION (36 HOURS) FOR BSCE	
ENV 4004L	(1) Environmental/Water	CONCENTRATION COURSES	TTE 4004 (3) Transportation
CES 3102	Lab (3) Structures I	(3)	Engineering I ENV 4001 (3) Environmental
			Engineering
CEG 4011	(3) Geotech I	(3)	_ CAPSTONE DESIGN REQ MW/MI
CEG 4011L	(1) Geotech/Trans Lab	(3)	(3)
CWR 4202	(3) Hydraulics	(3)	_
		(3)	CGN 4122 (1) Professional and Eth
			TOTAL DESIGN CREDITS

^{*} Substitution allowed for transfer students with AA degree

K = ClepA, B, C, D = Grade

^{**} 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			
<u></u>	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			
	Tachnical Floctive			
	Technical Elective Technical Elective			
CWD 4012				
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			
CWR 4541	Water Resources Engineering II			
ENV 4417	Water Quality and Treatment			
SUR 2101C	Land Surveying			
TTE 4003	Transportation and Society			
TTE 4005	Transportation Engineering II			
CWR 4541	Water Resources 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.

^{**}Please see academic advisor for selected special topic courses.