

**Civil and Environmental Engineering
Tentative Five Year Course Planner**

7/31/2007

Course	Course Title	CREDIT	FEEDS	Dept	Summer 2007	Fall 2007	Spring 2008	Summer 2008	Fall 2008	Spring 2009	Summer 2009	Fall 2009	Spring 2010	Summer 2010	Fall 2010	Spring 2011	Summer 2011	Fall 2011	Spring 2012	Course Coordinator
EGN 3310	ENGR ANAL-STATICS	3,3,0		10	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	Chopra
EGN 3310H	ENGR ANAL STAT (HONORS)	3,3,0		10	●	●	●	●	□	●	●	●	●	●	●	●	●	●	□	Chopra
EGN 3331	MECHANICS OF MATLS	3,3,0		10	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	Chopra
GEO 1200	PHYS GEOGRAPHY	3,3,0		10	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	Fries
GEO 2370	RESOURCES GEOG	3,3,0		10	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	Chair
CCE 4003	INTRO TO CONST IND	3,3,0		20	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	Oloufa
CCE 4004	CONSTRUCTION METHODS	3,3,0		20	●	●	●	●	●	□	●	●	□	●	□	●	□	●	●	Khalafallah
CCE 4031	CONSTR PROJ MGMT	3,3,0		20																Oloufa
CCE 4034	CONS EST & SCHEDULE	3,3,0		20	●			●				●		●				●		Oloufa
CCE 4402	CONSTR EQUIPMT & PROD	3,3,0		20		●			□				□			□			□	Oloufa
CCE 4810	CONSTR ENGR DESIGN	4,4,0		20		●			●			●		●		●			●	Oloufa
CCE 4813	MECH & ELECT SYS BLDGS	4,4,0		20		●		●			●		●		●		●		●	Chandra
CCE 5006	INTRO TO CONST IND	3,3,0		20					□					□						Oloufa
CCE 5036	CONS ESTIM & SCHEDULE	3,3,0		20																Oloufa
CCE 5205	CONSTRUCTION METHODS	3,3,0		20			□					□							□	Khalafallah
CCE 5406	CONSTR EQUIPMT & PROD	3,3,0		20																Oloufa
CCE 5815	MECH & ELECT SYS BLDGS	4,4,0		20																Oloufa
CEG 3301	ENGR/ENVIR GEOLOGY	3,3,0		20				□			□			□			□			Kuo
CEG 4011C	GEOTECH ENGR I	4,3,2		20		●	●	●	●	●	●	●	●	●	●	●	●	●	●	Chopra
CEG 4801C	GEOTECH DESIGN	3,2,2		20	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	Chopra
CEG 4812	HISTOR DEV IN CIV ENGRG	1,1,0		20																Chair
CEG 5015	GEOTECH ENGR II	3,3,0	✓	20		●		□			●		□			●		●		Kuo
CEG 5700	GEO-ENVIRON ENGRG	3,3,0	✓	20		●						●		●		●		●		Reddi
CEG 6065	SOIL DYNAMICS	3,3,0	✓	20		●					●		●		●		●		●	Kuo
CEG 6115	FOUNDATION ENGR	3,3,0	✓	20		●			●			●		●		●		●		Kuo
CEG 6317	ADV GEOTECH ENGR	3,3,0	✓	20				●				●		●		●		●		Chopra
CES 4100	STRUCT ANALYSIS I	4,3,3		20	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	Zhao
CES 4101	MATRIX METH STRUCT ANALYSIS	3,3,0		20								●		●		●		●		Catbas
CES 4605	STEEL STRUCTURES	3,3,0		20		●		●			●		●		●		●		●	Catbas
CES 4608C	STEEL DESIGN	3,2,2		20		●		●		●		●		●		●		●		Catbas
CES 4702	REIF CONC STRUCTURES	3,3,0		20		●		●		●		●		●		●		●		Zhao
CES 4709C	CONCRETE DESIGN	3,2,2		20		●		●		●		●		●		●		●		Zhao
CES 5144	MATRIX METH STRUCT ANALYSIS	3,3,0	✓	20								●		●		●		●		Catbas
CES 5325	BRIDGE ENGINEERING	3,3,0	✓	20			●					●		●		●		●		Catbas
CES 5606	ADV STEEL STRUCTURES	3,3,0	✓	20					●					●		●		●		Catbas
CES 5706	ADV REIF CONCRETE	3,3,0	✓	20					●					●		●		●		Zhao
CES 5821	MASONRY/TIMBER	3,3,0	✓	20										●		●		●		Zhao
CES 6116	FINITE ELEMENTS	3,3,0	✓	20					●					●		●		●		Catbas
CES 6170	BNDRY ELEM CIV ENGR	3,3,0	✓	20		●						●		●		●		●		Chopra
CES 6209	DYNAMICS OF STRUC	3,3,0	✓	20						●				●		●		●		Catbas
CES 6218	STRUCTURAL STABILITY	3,3,0	✓	20										●		●		●		Zhao
CES 6220	WIND/EARTHQUAKE ENGR	3,3,0	✓	20		●					●			●		●		●		Mackie
CES 6230	ADV STRUC MECHANICS	3,3,0	✓	20		●					●			●		●		●		Zhao
CES 6527	NON LINEAR ANALYSIS	3,3,0	✓	20					●					●		●		●		Mackie
CES 6715	PRESTRESSED CONCRETE	3,3,0	✓	20										●		●		●		Zhao
CES 6840	COMPOSITE STL/CONC STR	3,3,0	✓	20										●		●		●		Zhao
CES 6910	RESEARCH IN STRUCT ENGR	3,3,0	✓	20										●		●		●		Catbas
CES NEW	RELIABILITY	3,3,0	✓	20			●				●			●		●		●		Mackie
CGN 3501C	CIVIL ENGINEERING MATLS	3,2,3		20		●	●	□	□		□	□		□	□		□	□		Kuo
CGN 4300	CIVIL ENGINEERING SYSTEMS	3,3,0		20			□			□			□			□				Radwan
CGN 4600	PUBLIC WORKS ENGINEERING	3,3,0		20																Dietz
CGN 4008C	CIVIL ENGINEERING CAPSTONE	3,2,2		20																Chopra
CGN 5320C	GEOGRAPHIC INFO SYSTEMS	3,2,2	✓	20				□			●		□			●		●		Nnadi
CGN 5504C	CIVIL ENGINEERING MATLS	3,2,2	✓	20																Kuo
CGN 5506C	ASPHALT CONCRETE MIX DES	3,2,2	✓	20					●										●	Kuo
CGN 6655	REG PLAN DES DEV	3,3,0	✓	20				□					□							Abdel-Aty
CWR 3201	ENGINEERING FLUID MECH	3,3,0		20	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	Hagen
CWR 4101C	HYDROLOGY	3,2,2		20	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	Wanielista
CWR 4203C	HYDRAULICS	3,2,2		20	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	Nnadi

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CWR 4812C	WATER RESOURCES DESIGN	3	2,2	20	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	Nnadi

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CWR 5125	GROUNDWATER HYDROLOGY	3 3.0	✓	20		●						□						□		Yeh
CWR 5205	HYDRAULIC ENGINEERING	3 3.0	✓	20	●							●						●		Yeh
CWR 5515	NUMERICAL METHODS IN CEE	3 3.0	✓	20		●							●						●	Hagen
CWR 5545	WATER RESOURCES ENGRG	3 3.0	✓	20		●				●									●	Nnadi
CWR 6102	ADVANCED HYDROLOGY	3 3.0	✓	20			□			●						●				Wanielista
CWR 6126	GROUNDWATER MODELING	3 3.0	✓	20			□						□						□	Yeh
CWR 6235	OPEN CHANNEL HYDRAULICS	3 3.0	✓	20					●						●					Nnadi
CWR 6236	RIVER ENGRG & SED TRNSPT	3 3.0	✓	20	●							●						●		Nnadi
CWR 6532	MDLG SUB REAC CHEM TRNSP	3 3.0	✓	20				□						□						Yeh
CWR 6535	MDLG WATER RES SYSTEMS	3 3.0	✓	20					●							●				Hagen
CWR 6539	FIN DIFF/ELEM SUR WTR MDLG	3 3.0	✓	20					●						●					Hagen
EES 4111C	BIOL PROCESS CONTROL	3 2.3		20			●			●			●			●			●	Randall
EES 4202C	CHEM PROCESS CONTROL	3 2.3		20		●			●			●			●			●		Randall
EES 5318	INDUSTRIAL ECOLOGY	3 3.0	✓	20	●						●						●			Chang
EES 5605	OUTDOOR NOISE CONTROL	3 3.0	✓	20																Wayson
ENV 3001	INTRO TO ENVIRON ENGR	3 3.0		20	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	Cooper
ENV 4008C	WASTEWATER SYSTEMS DESIGN	3 2.2		20				●						●					●	Randall
ENV 4112C	AIR POLL MSRMNT LAB	3 2.2		20								●					●			Wayson
ENV 4120	AIR POLLUTION CONTROL	3 3.0		20		●			●			●			●		●		●	Cooper
ENV 4122C	AIR POLL CTRL DESIGN	3 2.2		20			●			●			●			●			●	Cooper
ENV 4300C	SOLID WASTE FACILITY DES	3 2.2		20	●			●			●			●			●			Reinhart
ENV 4341	SOLID WASTE MGMT	3 3.0		20		●			●			●			●			●		Reinhart
ENV 4432	POTABLE WATER TRTMT	3 3.0		20																Randall
ENV 4531	WASTEWATER TRTMT PROC	3 3.0		20																Randall
ENV 4561	ENV ENGR PROC DESIGN	4 4.0		20	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	Fries
ENV 4562C	ENV ENGR SYSTEMS DESIGN	3 2.2		20			●			●			●			●			●	Taylor
ENV 4563	ENV CONTROL SYSTEMS	3 3.0		20																Dietz
ENV 5071	ENV ANALY TRANSP SYST	3 3.0	✓	20																Wayson
ENV 5116C	AIR POLL MONITORING	3 2.3	✓	20																Wayson
ENV 5334	CHARAC HAZ WASTE SITES	3 3.0	✓	20																Reinhart
ENV 5335	HAZ WASTE MGMT	3 3.0	✓	20																Reinhart
ENV 5356	SOLID WASTE MGMT	3 3.0		20		●			●			●			●			●		Reinhart
ENV 5410	DRINKING WATER TRTMT	3 3.0	✓	20																Taylor
ENV 5505	SLUDGE MGMT OPS	3 3.0	✓	20				●						●						Randall
ENV 5517	CHEM & BIO PROCESSES	3 3.0	✓	20		●						●						●		Randall
ENV 5636	ENV & WATER RESOURCES	3 3.0	✓	20		●						●						●		Chang
ENV 6015	PHYS/CHEM TRTMT SYS	3 3.0	✓	20		●			●			●			●			●		Taylor
ENV 6016	BIOL TRTMT SYS	3 3.0	✓	20			●			●			●			●			●	Randall
ENV 6046	MEMBRANE MASS TRANSFER	3 3.0	✓	20																Taylor
ENV 6055	FATE & TRNSPT SUB CONTAM	3 3.0	✓	20																Reinhart
ENV 6xxx	ADV TOPICS SOLID WASTE	3 3.0	✓	20									●						●	Reinhart
ENV 6058	PARTICLE PROC AQUATIC SYS	3 3.0	✓	20																New Faculty
ENV 6106	ATMOS DISPERSION MDLG	3 3.0	✓	20			●						●						●	Cooper
ENV 6126	DES AIR POLLUTION CONTROLS	3 3.0	✓	20						●						●				Cooper
ENV 6336	SITE REMED & HAZ WAS TRTMT	3 3.0	✓	20																Randall
ENV 6347	HAZ WASTE INCINERATION	3 3.0	✓	20		●						●						●		Cooper
ENV 6504L	UNIT OPS & PROCESS LAB	3 1.6		20							●						●			Randall
ENV 6515L	BIO UNIT OPS & PROCESS LAB	3 1.6		20																Randall
ENV 6519	AQUATIC CHEM PROCESSES	3 3.0	✓	20				●						●						Taylor
ENV 6558	INDUSTRIAL WASTE TRTMT	3 3.0	✓	20					●						●					Randall
ENV 6616	RCVG WATER IMPACTS	3 3.0	✓	20																Taylor
SUR 2101C	SURVEYING	3 2.3		20	●		●	□	●	●	●	□	●	●	□	●	●	□	●	Chair
TTE 4004	TRANSPORTATION ENGRG	4 4.0		20		●	●	●	●	●	●	●	●	●	●	●	●	●	●	Abdel-Aty
TTE 4601C	URBAN SYSTEMS DESIGN	3 2.2		20		●	●	●	●	●	●	●	●	●	●	●	●	●	●	Radwan
TTE 5204	TRAFFIC ENGINEERING	3 3.0	✓	20			●			●			●			●			●	Radwan
TTE 5700	RAILROAD ENGINEERING	3 3.0	✓	20																Radwan
TTE 5805	GEOM DESIGN TRANS SYS	3 3.0	✓	20		●			●			●			●			●		Abdel-Aty
TTE 5835	PAVEMENT DESIGN	3 3.0	✓	20	●			●			●			●			●			Kuo
TTE 6205	HIGHWAY CAPACITY	3 3.0	✓	20		●			●			●			●			●		Al-Deek

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					Summer 2007	Fall 2007	Spring 2008	Summer 2008	Fall 2008	Spring 2009	Summer 2009	Fall 2009	Spring 2010	Summer 2010	Fall 2010	Spring 2011		Summer 2011	Fall 2011	Spring 2012		
TTE 6256	TRAFFIC OPERATIONS	3	3,0	✓	20		●			●			●				●			●		Al-Deek
TTE 6270	INTELLIGENT TRANS SYS	3	3,0	✓	20			●				●					●				●	Al-Deek
TTE 6315	TRAFFIC SAFETY ANALYSIS	3	3,0	✓	20		●					●								●		Abdel-Aty
TTE 6526	PLANNING & DESIGN AIRPORTS	3	3,0	✓	20		●															Radwan
TTE 6625	MASS TRANSPORTATION SYS	3	3,0	✓	20				□													Radwan

KEY:	●	= Course scheduled to be taught	Engineering Core
	□	= Course may be taught based on available resources	Undergraduate Graduate

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CAP: Course Scheduling/5 Year Course Planning