

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

7/8/2013

Course	Course Title	CREDIT	FEEDS	Dept	Summer 2013	Fall 2013	Spring 2014	Summer 2014	Fall 2014	Spring 2015	Summer 2015	Fall 2015	Spring 2016	Summer 2016	Fall 2016	Spring 2017	Summer 2017	Fall 2017	Spring 2018	Course Coordinator
CCE 4003	INTRO TO CONST IND	3 3,0		20	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	Oloufa/Fries
CCE 4004	CONSTRUCTION METHODS	3 3,0		20	□	□	●	□	●	□	●	□	●	□	●	□	●	□	●	Behzadan/Tatari
CCE 4034	CONS EST & SCHEDULE	3 3,0		20		●			●		●		●		●		●		●	Oloufa/Tatari
CCE 4402	CONSTR EQUIPMT & PROD	3 3,0		20		●			●		●		●		●		●		●	Oloufa/Agoos
CCE 4810C	CONSTR ENGR DESIGN	3 2,2		20		●	●		●	●		●	●		●	●		●	●	Oloufa/Chair
CCE 4813	MECH & ELECT SYS BLDGS	4 4,0		20		●			●		●		●		●		●		●	Oloufa/Swami
CCE 5006	INFRASTRUCTURE SYS MGMT	3 3,0	✓	20		●			●		●		●		●		●		●	Oloufa
CCE 5205	DECISION SUPPORT INFRA PROJ	3 3,0	✓	20		●			●		●		●		●		●		●	Behzadan
CCE 5220	GREEN DESIGN & CONSTRUCTION	3 3,0	✓	20			●		●		●		●		●		●		●	Tatari
CCE 5937	CONSTRUCTION CONTRACTS	4 4,0	✓	20			□					□							□	Oloufa/Williams
CCE 6036	ADV CONS PLAN + CONTROL	3 3,0	✓	20			●			●		●							●	Oloufa
CCE 6045	COST ANALY SUSTAIN SYSTEMS	3 3,0	✓	20		□			●		●		●		●		●		●	Tatari
CCE 6211	DES & MODEL CONSTR PROCESS	3 3,0	✓	20			●			●		●							●	Behzadan
CEG 4011C	GEOTECH ENGR I	4 3,2		20	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	Chopra
CEG 4012	GEOTECH ENGR II	3 3,0		20	□	●	□	●	□	●	□	●	□	●	□	●	□	●	□	Chopra
CEG 4801C	GEOTECH DESIGN	3 2,2		20	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	Chopra/Chair
CEG 5405	SEEPAGE IN SOILS	3 3,0	✓	20								●							□	Nam
CEG 6065	SOIL DYNAMICS	3 3,0	✓	20		●					●								●	Nam
CEG 6115	FOUNDATION ENGR	3 3,0	✓	20			●			●		●				●			●	Sallam
CEG 6317	ADV GEOTECH ENGR	3 3,0	✓	20					●		●		●		●		●		●	Sallam
CES 4100C	STRUCT ANALYSIS I	4 3,3		20	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	Mackie
CES 4605	STEEL STRUCTURES	3 3,0		20	□	●	□	●	□	●	□	●	□	●	□	●	□	●	□	Catbas
CES 4702	REIF CONC STRUCTURES	3 3,0		20	□	●	□	●	□	●	□	●	□	●	□	●	□	●	□	Yun
CES 4743C	STRUCTURAL DESIGN	3 2,2		20	□	●	□	●	□	●	□	●	□	●	□	●	□	●	□	Catbas/Chair
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			●			●		●							●	Zaurin
CES 5706	ADV REIF CONCRETE	3 3,0	✓	20					●		●		●		●		●		●	Yun/Haber
CES 5821	MASONRY/TIMBER	3 3,0	✓	20					●				□						□	Chair/El-Bahy
CES 6010	STRUCTURAL RELIABILITY	3 3,0	✓	20						●									●	Mackie
CES 6116	FINITE ELEMENT STRUC ANALY	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 6220	WIND/EARTHQUAKE ENGR	3 3,0	✓	20								□							□	Mackie
CES 6230	ADV STRUC MECHANICS	3 3,0	✓	20		●					●								●	Yun
CES 6527	NON LINEAR ANALYSIS	3 3,0	✓	20			●					●							●	Mackie
CES 6715	PRESTRESSED CONCRETE	3 3,0	✓	20			●					●							●	Yun/Haber
CES NEW		3 3,0	✓	20						●									●	Yun
CES 6840	COMPOSITE STL/CONC STR	3 3,0	✓	20																
CES 6910	RESEARCH IN STRUCT ENGR	3 3,0	✓	20																
CGN 3501C	CIVIL ENGINEERING MATLS	3 2,3		20		●	●	□	●	●	□	●	●	□	●	●	□	●	●	Nam
CGN 3700C	CE MEASUREMENTS	4 3,2		20		●	●	□	●	●	□	●	●	□	●	●	□	●	●	Behzadan
CGN 4008C	CIVIL ENGINEERING CAPSTONE	3 2,2		20	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	Chair
CGN 5320C	GEOGRAPHIC INFO SYSTEMS	3 2,2	✓	20																
CGN 5506C	ASPHALT CONCRETE MIX DES	3 2,2	✓	20						●										Nam
CGN 6655	REG PLAN DES DEV	3 3,0	✓	20				□					□						□	Abdel-Aty
CWR 3201	ENGINEERING FLUID MECH	3 3,0		20	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	Hagen
CWR 4632C	WATER RESOURCES I	4 3,2		20	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	Wang
CWR 4633C	WATER RESOURCES II	3 3,2		20	●	●	●	●	●	●	●	●	□	●	●	●	●	●	●	Madani
CWR 4812C	WATER RESOURCES DESIGN	3 2,2		20	□	●	□	●	□	●	□	●	□	●	□	●	□	●	□	Nnadi/Chair
CWR 5125	GROUNDWATER HYDROLOGY	3 3,0	✓	20					●				●						●	Wang
CWR 5205	HYDRAULIC ENGINEERING	3 3,0	✓	20		●					●								●	Hagen
CWR 5515	NUMERICAL METHODS IN CEE	3 3,0	✓	20			●					●							●	Hagen
CWR 5545	WATER RESOURCES ENGRG	3 3,0	✓	20			●					●							●	Madani
CWR 5634	WAT RES CHANGING ENV	3 3,0	✓	20		●					●								●	Wang
CWR 6102	ADVANCED HYDROLOGY	3 3,0	✓	20			●					●							●	Chang/Wang
CWR 6126	GROUNDWATER MODELING	3 3,0	✓	20						●									●	Chang/Wang
CWR 6235	OPEN CHANNEL HYDRAULICS	3 3,0	✓	20						●									●	Nnadi
CWR 6236	RIVER ENGRG & SED TRNSPT	3 3,0	✓	20		●					●								●	Nnadi
CWR 6535	MDLG WATER RES SYSTEMS	3 3,0	✓	20						●									●	Hagen

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CWR 6539	FIN ELEM SUR WTR MDLG	3	3,0	✓	20				●					●						Hagen
CWR 6660	WAT POLICY, PLNG & GOVERN	3	3,0	✓	20				●					●						Madani
EES 4111C	BIOL PROCESS CONTROL	3	2,3		20		●			●			●			●				Randall
EES 4202C	CHEM PROCESS CONTROL	4	3,3		20	●			●			●		●			●			Duranceau
EES 5318	INDUSTRIAL ECOLOGY	3	3,0	✓	20		●						●							Chang
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
ENV 3001	INTRO TO ENVIRON ENGR	3	3,0		20	●	●	●	●	●	●	●	●	●	●	●	●	●	●	Cooper
ENV 3930H	ST: WATER: DISEASE, SANIT,SUST	3	3,0		20	●			●					●						Randall
ENV 4120	AIR POLLUTION CONTROL	3	3,0		20		●		●			●		●				●		Cooper
ENV 4122C	AIR POLL CTRL DESIGN	3	2,2		20		●			●			●			●			●	Chair/Cooper
ENV 4300C	SOLID WASTE FACILITY DES	3	2,2		20															
ENV 4341	SOLID WASTE MGMT	3	3,0		20		●		●			●		●				●		Reinhart
ENV 4433C	ENV ENGR WASTEWATER DESIGN	3	2,2		20	●	□	●	□	●	□	●	□	●	□	●	□	●	□	Chair/Godlewski
ENV 4531	ENV OPS & PROCESSES I	3	3,0		20	●	●	●	●	●	●	●	●	●	●	●	●	●	●	Fries
ENV 4561	ENV OPS & PROCESSES II	3	3,0		20	●	□	●	□	●	□	●	□	●	□	●	□	●	□	Randall/Fries
ENV 4562C	ENV ENGR WATER TRTMT DESIGN	3	2,2		20		●		●			●		●			●		●	Chair/Duranceau
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				●							●				Duranceau
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		●			●			●			●				Duranceau
ENV 6016	BIOL TRTMT SYS	3	3,0	✓	20		●					●				●				Randall
ENV 6030	ENV BIOTECHNOLOGY	3	3,0	✓	20															
ENV 6046	MEMBRANE MASS TRANSFER	3	3,0	✓	20															Duranceau
ENV 6047	ENV INFORMATICS	3	3,0	✓	20					●						●				Chang
ENV 6055	FATE & TRNSPT SUB CONTAM	3	3,0	✓	20															Chang
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			●					●						●	Duranceau
ENV 6558	INDUSTRIAL WASTE TRTMT	3	3,0	✓	20		●					●						●		Randall
ENV 6616	RCVG WATER IMPACTS	3	3,0	✓	20															Duranceau
TTE 3810	HIGHWAY ENGINEERING	3	3,0		20		●	●	●	●	●	●	●	●	●	●	●	●	●	Abdel-Aty
TTE 4274	TRANSPORTATION ENGRG SYS	3	3,0		20		●	●	●	●	●	●	●	●	●	●	●	●	●	Radwan
TTE 4601C	URBAN SYSTEMS DESIGN	3	2,2		20	●		●	●	●	●	●	●	●	●	●	●	●	●	Chair
TTE 5204	TRAFFIC ENGINEERING	3	3,0	✓	20			●		●			●			●			●	Radwan
TTE 5256	TRAFFIC OPERATIONS	3	3,0	✓	20		●				●			●					●	Al-Deek
TTE 5805	GEOM DESIGN TRANS SYS	3	3,0	✓	20		●						●					●		Abdel-Aty
TTE 5835	PAVEMENT DESIGN	3	3,0	✓	20			●		●			●			●			●	Nam
TTE 6205	HIGHWAY CAPACITY	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
	□ = Course may be taught based on available resources

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