

FALL 2019 - SCHEDULE OF COURSES  
 CIVIL, ENVIRONMENTAL & ARCHITECTURAL ENGINEERING

Courses are for **3 credits** unless otherwise noted. \* = cross-listed courses. \*\* = combined cap for both cross-listed sections.

Aug 14, 2019

CHANGES SINCE LAST PUBLISHED SCHEDULE ARE IN RED/BOLD

<u>COURSE</u>	<u>SEC</u>	<u>CL</u>	<u>TITLE</u>	<u>DAY</u>	<u>TIME</u>	<u>BLDG/ROOM</u>	<u>INSTRUCTOR</u>	<u>CAP</u>
AREN 1027	010		ENGINEERING DRAWING	TUTH	800-915	ECCR 200	CAYKO/GORE	106
	011		LAB	TUTH	915-1045	ECCE 141	CAYKO/GORE	46
	012		LAB	TUTH	1050-1220	ECCE 141	CAYKO/GORE	46
AREN 1316	001		INTRO TO AREN (1.0)	W	900-950	ECCE 1B41	TBD	49
AREN 2050	001		BUILDING MATERIALS AND SYSTEMS	TUTH	330-445	FLMG 154	MORRIS	48
AREN 2110	001	*	THERMODYNAMICS	MWF	200-250	FLMG 104	HERNANDEZ	77**
AREN 3010	001		ENERGY EFFICIENT BUILDINGS	TUTH	200-315	ECCE 1B41	ZHAI	48
AREN 3050	001		ENVIRONMENTAL SYSTEMS FOR BUILDINGS 1	TUTH	800-915	ECCR 155	WUJEK	48
AREN 3540	001		ILLUMINATION I	MWF	1000-1050	ECCR 155	SCHEIB	48
AREN 4035	001		ARCH STRUCTURES I	TUTH	500-615	ECCR 131	KEELY	28
			<i>For ENVD student only</i>					
AREN 4010	002	*	ENERGY SYSTEM MODELING & CONTROL	TU	500-730	ECCR 1B08	HENZE	20
AREN 4506	001		CONSTRUCTION ESTIMATING & SCHEDULING	TUTH	1100-1215	ITLL 1B50	JAVERNICK-WILL	48
AREN 4530	001		ADVANCED LIGHTING DESIGN	WF	900-1045	ECCE 1B47	VASCONEZ	25*
			ADDITIONAL MEETING TIME	F	1045-1145	ECCE 1B47	VASCONEZ	25*
AREN 4570	001	*	BULIDING ELECTRICAL SYSTEMS 1	TUTH	1230-145	ECCR 139	KRARTI	27**
AREN 4580	001	*	DAYLIGHTING	TUTH	1100-1215	ECCR 139	SCHEIB	27**
AREN 4830	007		SP TPC-OUTDOOR LIGHTING (1.0)	TH	500-550	ECCE 1B47	TBD	20
AREN 4830	004		SP TPC-ARCHITECTURAL LIGHTING DESIGN 1	TUTH	330-445	ECCE 1B41	VASCONEZ	30
			<i>For ENVD Lighting Certificate student only</i>					
AREN 4830	006		SP TPC-RESIDENTIAL DESIGN BUILD I	TH	530-800	ITLL 1B50	SCHEIB	25
AREN 4890	001	*	SUSTAINABLE BUILDING DESIGN	TUTH	1100-1215	ECCR 151	ZUO	48**
CVEN 1317	001		INTRO TO CVEN (1.0)	TU	200-250	FLMG 156	BIELEFELDT	68
CVEN 2012	010		INTRO TO GEOMATICS	MF	1200-1250	ECCR 105	PFEFFER	49
	011		LAB	M	200-450	ECCE 1B47	PFEFFER	12
	012		LAB	TU	200-450	ECCE 1B47	PFEFFER	13
	013		LAB	W	200-450	ECCE 1B47	PFEFFER	12
	014		LAB	TH	200-450	ECCE 1B47	PFEFFER	12
CVEN 2121	001		ANALYTICAL MECHANICS I (STATICS)	MWF	900-950	ECCR 1B40	PFEFFER	106
CVEN 3161	010		MECHANICS OF MATERIALS I	MWF	900-950	FLMG 157	HUBLER	68
	011		LAB	W	200-350	ECCE 1B52	HUBLER	34
	012		LAB	W	400-550	ECCE 1B52	HUBLER	34
CVEN 3246	001		INTRO TO CONSTRUCTION	TUTH	1100-1215	FLMG 157	GOODRUM	77
CVEN 3246	400		INTRO TO CONSTRUCTION	MW	1100-1215	CMU	U. TECHERA	30
			<i>For CU-CMU partnership students only</i>					
CVEN 3256	001		CONSTRUCTION EQUIP METHODS	TUTH	200-315	FLMG 154	HALLOWELL	48
CVEN 3323	010		HYDRAULIC ENGINEERING	TUTH	930-1045	ECCR 245	GOOSEFF	106
	011		LAB	F	800-850	TBD	GOOSEFF	18
	012		LAB	F	900-950	TBD	GOOSEFF	18
	013		LAB	F	1100-1150	TBD	GOOSEFF	18
	014		LAB	F	100-150	TBD	GOOSEFF	18
	015		LAB	F	200-250	TBD	GOOSEFF	18
CVEN 3414	001		FUND ENV ENGINEERING	MWF	300-350	ECCR 200	TBD	106
CVEN 3414	400		FUND ENV ENGINEERING	MW	900-1015	CMU	SHOLTES	30
			<i>For CU-CMU partnership students only</i>					
CVEN 3525	001		STRUCTURAL ANALYSIS	MWF	900-950	ECCR 245	COROTIS	106
CVEN 3525	400		STRUCTURAL ANALYSIS	MW	200-315	CMU	U. TECHERA	30
			<i>For CU-CMU partnership students only</i>					
CVEN 3602	001		TRANSPORTATION SYSTEMS	MW	1100-1215	ECCE 1B47	TORRES-MACHI	25
CVEN 3708	010		GEOTECHNICAL ENGINEERING I	TUTH	200-315	ECCR 105	ZHANG	64
	011		LAB	M	100-250	ECCE 1B53	ZHANG	21
	012		LAB	W	1100-1250	ECCE 1B53	ZHANG	21
	013		LAB	W	100-250	ECCE 1B53	ZHANG	22
CVEN 3708	400		GEOTECHNICAL ENGINEERING I	TUTH	900-1050	CMU	SHOLTES	30
			<i>For CU-CMU partnership students only</i>					

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CVEN 3718	010		GEOTECHNICAL ENGINEERING II	TUTH	200-315	ECCR 155	DASHTI	48
	011		LAB	F	200-350	ECCE 1B53	DASHTI	24
	012		LAB	F	400-550	ECCE 1B53	DASHTI	24
CVEN 4147	001	*	CIVIL ENGINEERING SYSTEMS	TUTH	800-915	ECCE 1B41	SILVERSTEIN	27*
CVEN 4161	010	*	MECHANICS OF MATERIALS 2	MWF	900-950	KTCH 1B71	XI	48*
	011	*	LAB	M	600-850	ECCE 1B52	XI	48*
CVEN 4333	001		ENGINEERING HYDROLOGY	TUTH	1100-1215	DUAN G125	BERGSTROM	64
CVEN 4333	400		ENGINEERING HYDROLOGY	TUTH	100-215	CMU	SHOLTES	30
			<i>For CU-CMU partnership students only</i>					
CVEN 4353	002	*	GROUNDWATER ENGINEERING	TUTH	500-615	FLMG 157	GANGOPADHAY	86*
CVEN 4404	001	*	WATER CHEMISTRY (3.0)	MWF	1000-1050	FLMG 154	ROSARIO-ORTIZ	64*
CVEN 4414	001	*	LAB (1.0)	TU	300-550	SEEL 315	ROSARIO-ORTIZ	16*
CVEN 4414	002	*	LAB (1.0)	W	300-550	SEEL 315	ROSARIO-ORTIZ	16*
CVEN 4414	003	*	LAB (1.0)	TH	300-550	SEEL 315	ROSARIO-ORTIZ	16*
CVEN 4414	004	*	LAB (1.0)	M	300-550	SEEL 315	ROSARIO-ORTIZ	16*
CVEN 4464	001	*	ENVIRONMENTAL ENGINEERING PROCESSES	MWF	900-950	FLMG 154	KORAK	64*
CVEN 4474	001	*	HAZARDOUS & INDUSTRIAL WASTE MGMT	TUTH	930-1045	ECCR 151	BIELEFELDT	48**
CVEN 4511	001	*	FINITE ELEMENT ANALYSIS	TUTH	930-1045	ECCE 1B41	REGUEIRO	49*
CVEN 4525	001	*	MATRIX STRUCTURAL ANALYSIS	TUTH	1100-1215	ECCE 1B47	SAOUMA	25*
CVEN 4555	001		REINF CONCRETE DESIGN	TUTH	930-1045	ITLL 2B10	LIEL	60
CVEN 4728	001	*	FOUNDATION ENGRG	TUTH	200-315	STAD 140	KAFASH?	27**
CVEN 4837	001	*	SP TPC-HUMANITARIAN RESP & DISASTER MGMT	TUTH	100-215	SEEC N125	SALVINELLI	40**
CVEN 4837	001	*	SP TPC-INTRO TO GLOBAL HLTH FOR ENGRGS (1.0)	M	500-730	DUAN G2B21	THOMAS	30**
			<i>Second 5 week session</i>					
CVEN 4837	400		SP TPC-GEO INFO SYSTM FOR CIVIL & ENVR SYSTM	TUTH	300-415	CMU	SHOLTES	30
			<i>For CU-CMU partnership students only</i>					
CVEN 4897	001		PROFESSIONAL ISSUES IN CVEN (2.0)	TUTH	1230-120	FLMG 154	BIELEFELDT	84
EVEN 1000	001		INTRO TO EVEN (1.0)	TH	200-250	FLMG 156	SUMMERS	84
EVEN 3012	001	*	THERMODYNAMICS	MWF	200-250	FLMG 104	HERNANDEZ	77**
EVEN 4100	010		ENVIRONMENTAL SAMPLING & ANALYSIS	TUTH	100-215	SEEC N128	RYAN	30
	011		LAB	TU	230-515	SEE NOTES	RYAN	30
EVEN 4404	001	*	WATER CHEMISTRY (3.0)	MWF	1000-1050	FLMG 154	ROSARIO-ORTIZ	64**
EVEN 4414	001	*	LAB (1.0)	TU	300-550	SEEL 315	ROSARIO-ORTIZ	16**
EVEN 4414	002	*	LAB (1.0)	W	300-550	SEEL 315	ROSARIO-ORTIZ	16**
EVEN 4414	003	*	LAB (1.0)	TH	300-550	SEEL 315	ROSARIO-ORTIZ	16**
EVEN 4414	004	*	LAB (1.0)	M	300-550	SEEL 315	ROSARIO-ORTIZ	16**
EVEN 4464	001	*	ENVIRONMENTAL ENGINEERING PROCESSES	MWF	900-950	FLMG 154	KORAK	64**
EVEN 4830	001		SP TPC-SUSTAINABLE ENERGY SYSTEMS ANALYSIS	TUTH	200-315	KCEN N252	WALKER	30
<b><u>OTHER COURSES TAUGHT BY CEAE FACULTY</u></b>								
ARCH 4010	004		ARCHITECTURAL APPRECIATION & DESIGN	MW	400-630	FLMG 33	CAYKO	18
ARCH 4010	005		ARCHITECTURAL APPRECIATION & DESIGN	MW	400-630	FLMG 33	GORE	18
<b><u>CANCELED/DELETED COURSES</u></b>								
CVEN 5286	001		DESIGN CONSTRUCTION OPERATIONS	TUTH	1100-1215	ECCE 1B41	GOODRUM	25
AREN 4130	001	*	OPTICAL DESIGN	MW	530-645	ECCR 110	JONGEWAARD	27**
AREN 5130	001	*	OPTICAL DESIGN	MW	530-645	ECCR 110	JONGEWAARD	25**

**GRADUATE COURSES ARE LISTED ON PAGE 3**

<u>COURSE</u>	<u>SEC</u>	<u>CL</u>	<u>TITLE</u>	<u>DAY</u>	<u>TIME</u>	<u>BLDG/ROOM</u>	<u>INSTRUCTOR</u>	<u>CAP</u>
<b>BUILDING SYSTEMS</b>								
AREN 5001	001		BUILDING ENERGY SYSTEMS	TUTH	930-1045	CASE RM - TBD	BAKER, SCHEIB	25
AREN 5010	002	*	ENERGY SYSTEM MODELING & CONTROL	TU	500-730	ECCR 1B08	HENZE	20**
AREN 5890	001	*	SUSTAINABLE BUILDING DESIGN	TUTH	1100-1215	ECCR 151	ZUO	48**
CVEN 5830	002	*	SP TPC-ELECTRICAL SYSTEMS 1	TUTH	1230-145	ECCR 139	KRARTI	27**
CVEN 5830	003	*	SP TPC-DAYLIGHTING	TUTH	1100-1215	ECCR 139	SCHEIB	27**
<b>CIVIL SYSTEMS</b>								
CVEN 5147	001	*	CIVIL ENGINEERING SYSTEMS	TUTH	800-915	ECCE 1B41	SILVERSTEIN	30**
CVEN 5147	001B		CIVIL ENGINEERING SYSTEMS		<b>DISTANCE</b>	<b>SECTION</b>	SILVERSTEIN	10
CVEN 5537	001		NUMERICAL METHODS IN CIVIL ENG	MWF	1000-1050	ECCE 1B41	REGUEIRO	27
	001B		NUMERICAL METHODS IN CIVIL ENG		<b>DISTANCE</b>	<b>SECTION</b>	REGUEIRO	15
CVEN 5837	001	*	SP TPC-HUMANITARIAN RESP & DISASTER MGMT	TUTH	100-215	SEEC N125	SALVINELLI	40**
CVEN 5837	001B		SP TPC-HUMANITARIAN RESP & DISASTER MGMT		<b>DISTANCE</b>	<b>SECTION</b>	SALVINELLI	15
<b>CONSTRUCTION</b>								
CVEN 5246	001		LEGAL ASPECTS	TH	500-750	ECCE 1B41	WALSH/ZEHNER	25
CVEN 5276	001		ENGINEERING RISK AND DECISION ANALYSIS	TUTH	930-1045	ECCR 139	MOLENAAR	28
CVEN 5836	001		SP TPC-CEM FUNDAMENTALS	TUTH	1230-145	FLMG 156	MORRIS	48
<b>EDC</b>								
CVEN 5919	001	*	SUSTAINABLE COMM DVLP 1	TUTH	230-345	SEEC N128	KLEES	35**
CVEN 5939	001		SCD FIELD PRACTICUM	M	400-600	SEEC N124	KLEES	30
CVEN 5969	001		WAT SAN HYG	TUTH	400-515	SEEC N126	KLEES	20
CVEN 5969	002		WAT SAN HYG (2.0) 10 WKS	TUTH	400-515	SEEC N126	KLEES	20
CVEN 5969	003		WAT SAN HYG (1.0) 5 WKS	TUTH	400-515	SEEC N126	KLEES	20
CVEN 5838	001		SP TPC-INTRO TO DVLP ECO FOR ENGINEERS (1.0)	TUTH	10-1115	SEEC N128	PLATAIS	20
			<i>First 5 weeks session</i>					
CVEN 5838	001	*	SP TPC-INTRO TO GLOBAL HEALTH FOR ENGRS (1.0)	M	500-730	DUAN G2B21	THOMAS	30**
			<i>Second 5 week session</i>					
<b>ENVIRONMENTAL</b>								
CVEN 5404	001		WATER CHEMISTRY	TUTH	830-945	SEEC S125	RYAN	30
CVEN 5404	002B		WATER CHEMISTRY		<b>DISTANCE</b>		BILGIN	15
CVEN 5464	001		ENVIRONMENTAL ENGINEERING PROCESSES	TUTH	1130-1245	SEEC N125	SUMMERS	28
CVEN 5464	001B		ENVIRONMENTAL ENGINEERING PROCESSES		<b>DISTANCE</b>	<b>SECTION</b>	SUMMERS	15
CVEN 5474	001		HAZARDOUS & INDUSTRIAL WASTE MGMT	TUTH	930-1045	ECCR 151	BIELEFELDT	48
	001B		HAZARDOUS & INDUSTRIAL WASTE MGMT		<b>DISTANCE</b>	<b>SECTION</b>	BIELEFELDT	15
CVEN 5484	001		APPLIED MICROBIOLOGY & TOXICOLOGY	TUTH	230-345	SEEC C315	HERNANDEZ	30
CVEN 5584	001		WATER LEADERSHIP & MANAGEMENT	W	330-615	ECCE 1B41	KUCHENRITHER	30
CVEN 5584	001B		WATER LEADERSHIP & MANAGEMENT		<b>DISTANCE</b>	<b>SECTION</b>	KUCHENRITHER	15
CVEN 5594	001		WATER REUSE	M	500-730	SEEC N128	BECKER	20
<b>GEOTECH</b>								
CVEN 5708	001		SOIL MECHANICS	TUTH	330-445	ECCR 135	ZHANG	20
CVEN 5728	001	*	FOUNDATION ENGRG	TUTH	200-315	STAD 140	KAFASH?	27**
CVEN 5798	001		DYNAMICS OF SOILS/FOUND	MWF	1000-1050	KCEN S163	PAK	20
CVEN 5818	001		GEOTECHNICAL EARTHQUAKE ENGRG	TUTH	930-1045	ECCR 155	DASHTI	27
<b>MECHANICS</b>								
CVEN 5111	001		INTRO TO STRUCTURAL DYNAMICS	MW	100-215	ECCE 1B41	POURAHMADIAN	49
CVEN 5161	010	*	ADVANCED MECHANICS OF MATERIALS 1	MWF	900-950	KTCH 1B71	XI	48**
	011	*	LAB	M	600-850	ECCE 1B52	XI	48**
CVEN 5511	001	*	FINITE ELEMENT ANALYSIS	TUTH	930-1045	ECCE 1B41	REGUEIRO	49**
	001B		FINITE ELEMENT ANALYSIS		<b>DISTANCE</b>	<b>SECTION</b>	REGUEIRO	15
CVEN 6831	002		SP TPC - ADVANCED COMPUTATIONAL FAILURE ANALY:	TUTH	1230-145	ECCE 1B47	SONG	27
<b>STRUCTURES</b>								
CVEN 5525	001	*	MATRIX STRUCTURES ANALYSIS	TUTH	1100-1215	ECCE 1B47	SOUMA	25**
CVEN 5575	001		ADVANCED STEEL DESIGN	TUTH	1230-145	KCEN S163	HEARN	20
<b>WATER</b>								
CVEN 5313	001		ENVIRONMENTAL FLUID MECHANICS	MW	330-445	SEEC C315	CRIMALDI	30
CVEN 5323	002		APPLIED STREAM ECOLOGY	TUTH	1000-1115	SEEC N129	MCKNIGHT	30
CVEN 5333	001		PHYS HYDROL/HYDROCLIMATOLOGY	TUTH	230-345	SEEC N129	GOOSEFF	30
CVEN 5353	002	*	GROUNDWATER HYDROLOGY	TUTH	500-615	FLMG 157	GANGOPADHAY	86**
CVEN 5423	001		WATER RESOURCES ENGINEERING	MWF	130-220	SEEC N128	KASPRZYK	30
CVEN 6393	001		WATER RESOURCES SEMINAR (1.0)	W	1100-1150	ECCE 1B41	BALAJI	48
CVEN 6833	001		ADVANCED DATA ANALYSIS	TUTH	1000-1115	SEEC C315	BALAJI	18