

## CURRENT QUARTER COURSE

## CIVIL ENGINEERING

## PROPOSED SEMESTER COURSE

No.	Title	Units	No.	Title	Units
MAT 114	Analytic Geometry & Calculus I	4	MAT 1140	Calculus I	4
MAT 115	Analytic Geometry & Calculus II	4	MAT 1150	Calculus II	4
MAT 116	Analytic Geometry & Calculus III	4			
MAT 214	Calculus of Several Variables I	3	MAT 2140	Calculus of Several Variables	4
MAT 215	Calculus of Several Variables II	3			
MAT 224	Elem Lin Algebra & Diff Eqns	4	MAT 2240	Elem Lin Algebra & Diff Eqns	3
PHY 131	General Physics	3	PHY 1510	Intro to Newtonian Mechanics	3
PHY 131L	General Physics Lab	1	PHY 1510L	Intro to Newtonian Mechanics Lab	1
PHY 132	General Physics	3	PHY 1520	Intro to Electromag & Circuits	3
PHY 132L	General Physics Lab	1	PHY 1520L	Intro to Electromag & Circuits Lab	1
PHY 133	General Physics	3			
PHY 133L	General Physics Lab	1			
CHM 121	General Chemistry	3	CHM 1210	General Chemistry	3
CHM 121L	General Chemistry Lab	1	CHM 1210L	General Chemistry Lab	1
CHM 122	General Chemistry	3			
CHM 122L	General Chemistry Lab	1			
CE 122	Introduction to Ciivl Engineering	1	** DISCONTINUED **		0
CE 127	Civil Engineering CAD I	1	CE 1001	Civil Engineering Design	1
CE 127L	Civil Engineering CAD I Laboratory	1	CE 1001L	Civil Engineering Design Laboratory	1
CE 128L	Civil Engineering CAD II Laboratory	1			
CE 134	Elementary Surveying	2	CE 1011	Surveying Engineering	3
CE 134L	Elementary Surveying Laboratory	2	CE 1011L	Surveying Engineering Lab	1
CE 220	Advanced Surveying	3			
CE 220L	Advanced Surveying Laboratory	1			
CE 362	Technical Communications	2	CE 2001	Technical Communications	3
CE 362A	Technical Communications Activity	1			
CE 301	Engineering Economics	4	CE 2021	Infrastructure Economics and Public Policy	3
CE 221	Civil Engineering Materials	2	CE 2030	Civil Engineering Materials	2
CE 221L	Civil Engineering Materials Laborator	1	CE 2030L	Civil Engineering Materials Laboratory	1
ME 214	Vector Statics	3	CE 2041	Engineering Statics	3
ME 215	Vector Dynamics	3	ME 2150	Vector Dynamics	3
ME 218	Strengths of Materials	3	<small>ME 2150 is not required in CE Option Semester Programs</small>		
ME 311	Fluid Mechanics	3	CE 2051	Mechanics of Materials	3
ME 301	ThermoDynamics	4	CE 2061	Fluid Mechanics	3
			ME 3010	ThermoDynamics	3

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No.	Title	Units	No.	Title	Units
CE 303	Computer Prog. And Num. Meth.	2	CE 2070	Computer Prog. And Num. Meth.	2
CE 303A	Computer Prog. And Num. Meth. Act	1			
** FOR ENVIRONMENTAL OPTION					
CE 351	Environmental Engineering	3	CE 3201	Environmental Engineering	3
CE 351L	Environmental Engineering Lab	1	CE 3201L	Environmental Engineering Lab	1
CE 332	Hydraulic Engineering	3	CE 3211	Water Resources Engineering	3
CE 332L	Hydraulic Engineering Lab	1			
	NEW COURSE - No Articulation		CE 3301	Engineering Geomatics	3
CE 325	Geotechnical Engineering I	3	CE 3401	Geotechnical Engineering	3
CE 326	Geotechnical Engineering II	2	CE 3401L	Geotechnical Engineering Lab	1
CE327L	Geotechnical Engineering Lab	1			
CE 331	Public Land Surveys	3	SEE EGR 322 FOR ARTICULATION		
CE 304	Structural Analysis I	3	CE 3501	Structural Analysis I	3
CE 305L	Structural Design Lab	1	CE 3501L	Structural Design Lab	1
CE 305	Structural Analysis II	3	CE 3510	Structural Analysis II	3
CE 306L	Structural Testing Lab	1	CE 3510L	Structural Testing Lab	1
CE 222	Highway Engineering	2	CE 3601	Transportation Engineering	3
CE 222L	Highway Engineering Lab	2	CE 3601L	Transportation Engineering Lab	1
CE 223	Transportation Engineering	3			
CE 223L	Transportation Engineering Lab	1			
	NEW COURSE - No Articulation		CE 4031	Sustainable Buildings & Infrastructure	3
**FOR GENERAL OPTION					
CE 431	Water Treatment Engineering	3	CE 3201	Environmental Engineering	3
CE 431L	Water Treatment Engineering Lab	1	CE 3201L	Environmental Engineering Lab	1
** FOR ENVIRONMENTAL OPTION					
CE 431	Water Treatment Engineering	3	CE 4201	Water & Wastewater Engr	3
CE 431L	Water Treatment Engineering Lab	1	CE 4201L	Water & Wastewater Engr Lab	1
CE 432	Wastewater Treatment Engr	3			
CE 432 L	Wastewater Treatment Engr Lab	1			
CE 451	Engineering Hydrology	4	CE 4211	Applied Hydrology	3
CE 457	Solid Waste Management	3	CE 4220	Solid and Haz Waste Engr	3
CE 434	Indust & Haz Waste Mgmt	3	CE 4220L	Solid and Haz Waste Engr Lab	1
CE 434L	Indust & Haz Waste Mgmt Lab	1			
CE 463	Water Reclamation	4	CE 4231	Water Reclamation and Desalination	3
CE 456	Ground Watr Mech & Remed	3	CE 4241	Environmental Remediation	3
CE 456L	Ground Watr Mech & Remed. & Lab	1			

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No.	Title	Units	No.	Title	Units
	NEW COURSE - No Articulation		CE 4261	Air Quality Engineering	3
	NEW COURSE - No Articulation		CE 4271	Unit Op and Process in Env Engr	3
	NEW COURSE - No Articulation		CE 4281	River Mechanics	3
CE 420	Digital Mapping	3	CE 4301	Digital Mapping	2
CE 420L	Digital Mapping Lab	1	CE 4301L	Digital Mapping Lab	1
CE 313	Land Survey Descriptions	4	CE 4321	Subdiv Engr & Land Survey Descr	3
CE 482	Subdivision Design	3	CE 4321L	Subdiv Engr & Land Survey Descr Lab	1
CE 482L	Subdivision Design Lab	1			
CE 484	Geographical Info Sys	3	CE 4331	GIS Apps in Engr & Remote Sensing	3
CE 484L	Geographical Info Sys Lab	1	CE 4331L	GIS Apps in Engr & Remote Sensing Lab	1
CE 311	Geodesy & Sattelite Surveying	2	CE 4341	Satellite Surveying in Engr	2
CE 311L	Geodesy & Sattelite Surveying Lab	1	CE 4341L	Satellite Surveying in Engr Lab	1
CE 427	Photogram & Remote Sens	3	CE 4350	Photogrammetry	2
CE 427L	Photogram & Remote Sens Lab	1	CE 4350L	Photogrammetry Lab	1
CE 424	Foundation & Retaining Wall Des	4	CE 4400	Foundation & Retaining Wall Design	3
	NEW COURSE - No Articulation		CE 4451	Pavement Design & Construction	3
	NEW COURSE - No Articulation		CE 4461	Rock Mechanics	3
CE 437	Slope Stability & Earth Dams	3	CE 4470	Slope Stability & Earth Dams	3
CE 437L	Slope Stability & Earth Dams Lab	1			
CE 421	Struct Des--Reinforced Concrete	4	CE 4510	Struct Des--Reinforced Concrete	3
CE 442	Masonry Design	4	CE 4520	Masonry Design	
CE 433	Struct Des--Timber	2	CE 4530	Struct Des--Timber	2
CE 433L	Struct Des--Timber Lab	1	CE 4530L	Struct Des--Timber Lab	1
CE 476	Bridge Design	4	CE 4540	Bridge Design	3
CE 406	Struct Des--Steel	4	CE 4560	Struct Des--Steel	3
CE 445	Earthquake Engineering	4	CE 4571	Intro to Earthquake Engr & Struct Dyn.	3
CE 471	AE Studio -- Timber	3	CE 4580	AE Studio -- Timber	2
CE 471L	AE Studio -- Timber Lab	1	CE 4580L	AE Studio -- Timber Lab	1
CE 472	AE Studio -- Pre-Cast Concrete	3	CE 4590	AE Studio -- Pre-Cast Concrete	2
CE 472L	AE Studio -- Pre-Cast Concrete Lab	1	CE 4590L	AE Studio -- Pre-Cast Concrete Lab	1
	NEW COURSE - No Articulation		CE 4611	Design of Trans Facilities	3
			CE 4611L	Design of Trans Facilities Lab	1
	NEW COURSE - No Articulation		CE 4631	Transportation Sys Des & Op	3

No.	Title	Units	No.	Title	Units
CE 428	Urban Transportation	3	CE 4631	Transportation Planning & Mgmt	3
CE 428L	Urban Transportation Lab	1	CE 4631L	Transportation Planning & Mgmt Lab	1
	NEW COURSE - No Articulation		CE 4681	Multimodal Traffic Analysis	3
CE 429	Traffic Engineering	3	CE 4690	Traffic Engineering	3
CE 429L	Traffic Engineering Lab	1	CE 4690L	Traffic Engineering Lab	1
CE 488	Computer Meth. of Struct. Analysis	3	** DISCONTINUED **		
CE 491	Comp Civil Enigneering Design I	1	EGR 4810	Proj Des Principles & Applications I	1
CE 492	Comp Civil Enigneering Design III	2	EGR 4820	Proj Des Principles & Applications II	1
CE 493	Comp Civil Enigneering Design III	1	EGR 4830	Proj Des Principles & Applications III	1
EGR 445	Role of Des. Prof. In Society	4	EGR 4050	Role of Des. Prof. In Society	3
EGR 322	California Land & Boundaries Law	4	EGR 3221	Calif Bndry Law and Public Lands	3
CE 331	Public Land Surveys	3	EGR 3221A	Calif Bndry Law and Public Lands Act	1
IME 301	Statistics	3	IME 3010	Statistics	2
IME 402	Ethical Concepts in Tech & App Sci	4	IME 4020	Ethical Concepts in Tech & App Sci	3