

| 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 | 4 | MAT 2140 | Calculus of Several Variables | 4 |
| MAT 215 | Calculus of Several Variables II | 4 | | | |
| 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 | 3 | 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 | | ** DISCONTINUED ** | | |
| ME 218 | Strengths of Materials | 3 | CE 2051 | Mechanics of Materials | 3 |
| ME 311 | Fluid Mechanics | 3 | CE 2061 | Fluid Mechanics | 3 |
| 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 | | | |

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|------------------------------------|---------------------------------|-------|------------------------------|--|-------|
| ** 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 | | | |
| CE 451 | Engineering Hydrology | 4 | | | |
| | 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 | | | |
| | NEW COURSE - No Articulation | | CE 4231 | Water Reclamation and Desalination | 3 |
| | NEW COURSE - No Articulation | | CE 4241 | Environmental Remediation | 3 |
| | NEW COURSE - No Articulation | | CE 4261 | Air Quality Engineering | 3 |
| | NEW COURSE - No Articulation | | CE 4271 | Unit Op and Process in Env Engr | 3 |

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| | 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 La | 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 431 | Struct Des--Timber | 2 | CE 4530 | Struct Des--Timber | 2 |
| CE 431L | 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 |
| 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 |

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| 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 |