| | | 2019 | 2020 | | | 2021 | | | 2022 | | | 2023 | | | 2024 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Course | Course Name | Fall | Spring | Summer | Fall | Spring | Summer | Fall | Spring | Summer | Fall | Spring | Summer | Fall | Spring | Summer | Fall |
| Civil and Architectural Engineering (CAE) | | | | | | | | | | | | | | | | | |
| CAE 100 | Introduction to Engineering Drawing and Design | X | | X | X | | X | X | | | X | | | X | | | X |
| CAE 101 | Introduction to AutoCAD Drawing and Design | | X | X | | X | X | | X | | | X | | | X | | |
| CAE 105 | Geodetic Science | X | | X | X | | X | X | | | X | | | X | | | X |
| CAE 110 | Professional Practice I | X | | | X | | | X | | | X | | | X | | | X |
| CAE 111 | Professional Practice II | | X | | | X | | | X | | | X | | | X | | |
| CAE 208 | Thermal-Fluids Engineering I | X | | X | X | | X | X | | | X | | | X | | | X |
| CAE 209 | Thermal-Fluids Engineering II | | X | X | | X | X | | X | | | | | | | | |
| CAE 221 | Engineering Geology | X | | X | X | | | | | | | | | | | | |
| CAE 286 | Theory and Concept of Structural Mechanics | X | | | X | | | X | | | X | | X | X | | X | X |
| CAE 287 | Mechanics of Structural Materials | | X | | | X | | | X | | | X | X | | X | X | |
| CAE 302 | Fluid Mechanics and Hydraulics | X | | X | X | | X | X | | X | X | X | | | X | | |
| CAE 303 | Structural Design I | X | | | X | | | X | | | X | X | | | X | | |
| CAE 304 | Structural Analysis I | X | | X | X | | X | X | | X | X | X | X | X | | X | X |
| CAE 307 | Structural Design II | | X | | | X | | | X | | | X | | | X | | |
| CAE 312 | Engineering Systems Analysis | | X | X | | X | X | | X | X | | X | | | X | | |
| CAE 315 | Materials of Construction | X | | | X | | | X | | | X | | | X | | | X |
| CAE 323 | Introduction to Geotechnical Engineering | | X | X | | X | | | X | | | X | | | X | | |
| CAE 331 | Building Science | X | | | X | | | X | | | X | | | X | | | X |
| CAE 383 | Electrical and Electronic Circuits | X | | | X | | | X | | | X | | | X | | | X |
| CAE 401 | Hydraulics, Hydrology, and Their Applications | | | | | | | | | | | | | | | | |
| CAE 402 | Introduction to Environmental Engineering and Sustainable Design | | X | | | X | | | | | | | | | | | |
| CAE 405 | Applications of Computational Fluid Dynamics in Engineering | | | | | | | | | | | | | | X | | |
| CAE 408 | Bridge and Structural Design | X | | | X | | | X | | | X | | | X | | | |
| CAE 410 | Introduction to Wind and Earthquake Engineering | | | | | | | | | | | | | | | | |
| CAE 411 | Structural Analysis II | | X | | | X | | | X | | | X | | | | | X |
| CAE 412 | Traffic Engineering Studies and Design | | | | | | | | | | | | | | | | |
| CAE 415 | Pavement Design, Construction and Maintenance | | | | | | | | | | | | | | | | |
| CAE 416 | Facility Design of Transportation Systems | | X | | | X | | | X | | | X | | | X | | |
| CAE 417 | Railroad Engineering and Design | X | | | X | | | X | | | X | | | X | | | X |
| CAE 419 | Introduction to Transportation Engineering and Design | X | | | X | | | X | | | X | | | X | | | X |
| CAE 421 | Risk Assessment Engineering | | | | | | | | | | | | | | | | |
| CAE 422 | Sprinklers, Standpipes, Fire Pumps, Special Suppression, and Detection Systems | | | | | | | | | | | | | | | | |
| CAE 424 | Introduction to Fire Dynamics | | | | | | | | | | | | | | | | |
| CAE 425 | Fire Protection and Life Safety in Building Design | | | | | | | | | | | | | | | | |
| CAE 430 | Probability Concepts in Civil Engineering Design | | | | | | | | | | | | | | | | |
| CAE 431 | Steel Design | X | | X | X | | X | X | | X | X | | X | X | | X | X |
| CAE 432 | Concrete and Foundation Design | | X | X | | X | X | | X | X | | | X | X | | X | X |
| CAE 433 | Repair of Existing Building Structures | | | | | | | | | | | | | | | | |
| CAE 435 | Experimental Analysis of Structures | | | | | | | | | | | | | | | | |
| CAE 436 | Design of Masonry and Timber Structures | X | | | X | | | X | | | | | | | X | | |
| CAE 437 | Homeland Security Concerns in Engineering Systems | | X | | | X | | | X | | | X | | | | | |
| CAE 438 | Control of Building Environmental Systems | | | | X | | | X | | | | | | | | | |
| CAE 439 | Introduction to Geographic Information Systems | X | X | | X | X | | | X | | | X | | | X | | |
| CAE 453 | Measurement and Instrumentation in Architectural Engineering | | | | | | | | | | | | | | | | |
| CAE 457 | Geotechnical Foundation Design | X | | | X | | | X | | | X | | X | X | | X | X |
| CAE 461 | Plumbing and Fire Protection Design | X | | | X | | | X | | | X | | | X | | | X |
| CAE 462 | Sustainable Building Degin | | | | | | | | | | | | | | | | X |
| CAE 463 | Building Enclosure Design | X | | | X | | | X | | | X | | | X | | | |
| CAE 464 | HVAC Systems Design | | X | | | X | | | X | | | X | | | X | | |
| CAE 465 | Building Energy Conservation Technologies | X | | X | X | | | | | | X | | | X | | | |
| CAE 466 | Building Electrical/Lighting Systems Design | | X | | | | | | X | | | X | | | X | | |
| CAE 467 | Lighting Systems Design | | | | | X | | | | | | | | X | | | X |
| CAE 468 | Architectural Design | X | | | X | | | X | | | X | | | X | | | X |
| CAE 470 | Construction Methods and Cost Estimating | X | X | | X | X | | X | X | | X | X | | X | X | | X |
| CAE 471 | Construction Planning and Scheduling | X | X | | X | X | | X | X | | X | X | | | X | | X |
| CAE 472 | Construction Site Operation | | X | | | X | | | X | | | X | | | X | | |
| CAE 473 | Construction Contract Administration | | X | X | | X | X | | X | X | | X | | | X | | |
| CAE 474 | Introduction to Building Information Modeling (formerly EG 430) | | X | X | | X | X | | X | X | | X | X | | X | X | X |
| CAE 482 | Hydraulic Design of Open Channel Systems | | | | | | | | | | | | | | | | |
| CAE 486 | Soil and Site Improvement | | | | | | | | | | | | | | | | |
| CAE 491 | Undergraduate Research | | | | | | | | | | | | | | X | | |
| CAE 495 | Capstone Senior Design | X | X | | X | X | | X | X | | X | X | | X | X | | |
| CAE 496 | Fundamentals of Engineering Preparation | | | | | X | X | | X | X | | X | X | X | X | X | X |
| CAE 502 | Acoustics and Lighting | | | | | | | | | | | | | | | | |
| CAE 503 | Advanced Structural Analysis | X | | | X | | | X | | | X | | | X | | | X |
| CAE 504 | Seismic Retrofit and Earthquake Hazard Reduction | | | | | | | | | | | | | | | | |
| CAE 505 | Applications of Computational Fluid Dynamics in Engineering | | | | | | | | | | | | | | X | | |
| CAE 506 | Building Envelope Rehabilitation | | | | X | | | | | | X | | | | | | X |
| CAE 508 | Advanced Bridge Engineering | | X | | | X | | | | | | | | | | | |
| CAE 510 | Dynamics of Fire | | | | | | | | | | | | | | | | |
| CAE 511 | Fire Protection of Buildings | | | | | | | | | | | | | | | | |
| CAE 513 | Building Science | X | | | X | | | X | | | X | | | X | | | X |
| CAE 514 | Mathematical Methods for Structural Engineering | | | | | | | | | | X | | | | | | |
| CAE 515 | Building Information Modeling Applications for Building Performance | X | | | X | | | X | | | X | | | X | | | |
| CAE 517 | HVAC Systems Design | | X | | | | | | X | | | X | | | X | | |
| CAE 518 | Advanced Reinforced Concrete | X | | | X | | | X | | | | X | | | X | | |
| CAE 519 | Structural Forensic Engineering | | | | | X | | | | | | X | | | | | |
| CAE 520 | Buckling of Structures | | | | | | | | | | | | | | | | |
| CAE 522 | Structural Model Analysis | | | | | | | | | | | | | | | | |
| CAE 523 | Statistical Analysis of Engineering Data | | X | | | X | | | X | | | X | | | X | | |
| CAE 524 | Building Enclosure Design | X | | | X | | | X | | | X | | | X | | | |
| CAE 525 | Advanced Steel and Composite Structures | | X | | | X | | | X | | | X | | | X | | |
| CAE 526 | Energy Conservation Design in Buildings | X | | | X | | | | | | X | | | X | | | X |
| CAE 529 | Dynamics of Structures | | X | | | X | | | X | | | X | | | X | | |
| CAE 530 | Finite Element Method of Analysis | | | | | | | | X | | | | | | X | | |
| CAE 532 | Analysis of Plates and Shells | | | | | | | | | | | | | | | | |
| CAE 533 | Theory and Analysis of Thin Shells | | | | | | | | | | | | | | | | |
| CAE 534 | Computational Techniquas in Finite Element Analysis | | | | | | | | | | | | | | | | |
| CAE 535 | Nonlinear Finite Element Analysis | | | X | | | X | | | X | | | X | | | X | |
| CAE 537 | Homeland Security Concerns in Building Designs | | | | | | | | | | | | | | | | |
| CAE 538 | Control of Building Environmental Systems | | | | X | | | X | | | X | | | | | | |
| CAE 539 | Introduction to Geographic Information Systems | X | X | | X | X | | | X | | | X | | | X | | |
| CAE 540 | Asphalt and Concrete Mix Design | | | | | | | | | | | | | | | | |
| CAE 541 | Pavement Evaluation and Management | | | | | | | | | | | | | | | | |
| CAE 543 | Demand Models for Urban Transportation | | X | | | | | | X | | | | | | X | | |
| CAE 544 | Urban Transportation Planning | | | | X | | | | | | | | | | | | X |
| CAE 545 | Traffic Operations and Flow Theory | | | | | | | X | | | X | | | | | | X |
| CAE 546 | Public Transportation Systems | | | | | X | | | | | | X | | | | | |
| CAE 547 | Advanced Traffic Engineering | | | | X | | | | | | | | | X | | | |
| CAE 548 | Transportation Systems Management | X | | | | | | | | | X | | | | | | |
| CAE 549 | Transportation Economics, Development and Policy | | | | | | | | | | | | | | | | |
| CAE 550 | Applied Building Energy Modeling | | X | | | X | | | X | | | X | | | X | | |
| CAE 551 | Prestressed Concrete | | X | | | | | | X | | | | | | | | |
| CAE 552 | Sustainable Building Degin | | | | | | | | | | | | | | | | X |
| CAE 553 | Measurement and Instrumentation in Architectural Engineering | | | | | | | | | | | | | | | | |
| CAE 555 | Transportation Systems Evaluation | | | | | X | | | | | | X | | | | | |
| CAE 556 | Net Zero Energy Home Design Competition I | X | | | X | | | X | | | X | | | X | | | X |
| CAE 557 | Net Zero Energy Home Design Competition II | | X | | | X | | | X | | | X | | | X | | |
| CAE 558 | Urban Systems Engineering Design | | | | | | | | | | | | | | | | |
| CAE 559 | Urban Systems Engineering Seminar | | | | | | | | | | | | | | | | |
| CAE 560 | Plastic Methods | | | | | | | | | | | | | | | | |
| CAE 561 | Structural Reliability and Probabilistic Bases of Design | X | | | | | | X | | | X | | | X | | | |
| CAE 562 | Engineering Behavior of Soil | | | X | | | | | | | | | | | | | |
| CAE 563 | Advanced Soil Mechanics Laboratory | | | X | | | | | | | | | | | | | |
| CAE 564 | Design of Foundations, Embankments and Earth Structures | | | X | | | | | | | | | | | | | |
| CAE 565 | Rock Mechanics and Tunneling | | | | | | | | | | | | | | | | |
| CAE 566 | Earthquake Engineering and Soil Dynamics | | | X | | | X | | | | | | | | | | |
| CAE 568 | Transportation Asset Management | | X | | | | | | X | | | | | | X | | |
| CAE 569 | Construction Methods, Cost Estimating, and Project Budgeting | | | | X | X | | X | X | | X | X | | X | X | | X |
| CAE 570 | Legal Issues in Civil Engineering | X | | | X | | | X | X | | X | | | X | | | X |
| CAE 571 | Lean Construction and Control | X | X | | X | X | | X | X | | X | X | | X | X | | X |
| CAE 572 | Construction Cost Accounting and Control | | | X | | | X | | | X | | | X | | | X | |
| CAE 573 | Construction Management with Building Information Modeling | | | X | | | X | | | X | | | X | | | X | |
| CAE 574 | Economic Decision Analysis in Civil Engineering | X | X | | X | X | | X | | | X | | | X | | | X |
| CAE 575 | Systems Analysis in Civil Engineering | X | | | X | X | | X | | | X | | | X | | | X |
| CAE 576 | Applications of Unmanned Aerial Vehicles (UAVs or "Drones") for Construction Projects | | X | | | X | | | X | | | X | | | X | | |
| CAE 577 | Construction Equipment Management | | X | | | X | | | X | | | X | | | X | | |
| CAE 578 | Construction Claims Management | | | X | | | X | | | X | | | X | | | X | |
| CAE 579 | Real Estate Fundamentals for Engineers and Architects | X | | | X | | | X | | | X | | | X | | | X |
| CAE 580 | Intelligent Transportation Systems | X | | | | | | X | | | | | | X | | | |
| CAE 581 | Algorithms in Transportation | | | | | | | | | | X | | | | | | |
| CAE 582 | Structural Wind and Earthquake Engineering | | | | | | | | | | | | | | | | |
| CAE 583 | Performance-Based Structural and Seismic Design of Buildings and Bridges | | | | | | | | | | | | | | | | |
| CAE 584 | Stormwater Management | | | | | | | | | | | | | | | | |
| CAE 586 | Seismic Design of Building and Bridge Structures | X | | | X | | | | | | | | | | | | |
| CAE 589 | Groundwater Hydrology and Sampling | | | | | | | | | | | | | | | | |
| CAE 590 | Geotechnical Landfill Design and Maintenance | | | | | | | | | | | | | | | | |
| CAE 724 | Introduction to Acoustics | | | | | | | | | | | | | | | | |
| Engineering Management (EMGT) | | | | | | | | | | | | | | | | | |
| EMGT 363 | Creativity, Inventions, and Entrepreneurship for Engineers and Scientists | | | | | | | | | | | | | | | | |
| EMGT 406 | Entrepreneurship and Intellectual Property Management | X | X | | X | X | | X | X | | | X | | | X | | |
| EMGT 470 | Project Management | X | | | | X | | | X | | | X | | | X | | |
| EMGT 523 | Statistical Analysis of Engineering Data | | X | | | X | | | X | | | X | | | X | | |
| EMGT 574 | Economic Decision Analysis | X | | | X | | | X | | | X | | | X | | | |
| EMGT 575 | Systems Analysis in Engineering | X | | | X | | | X | | | X | | | X | | | |
| Environmental Engineering (ENVE) | | | | | | | | | | | | | | | | | |
| ENVE 201 | Earth and Environmental Science | | | | | | | X | | | X | | | X | | | X |
| ENVE 401 | Introduction to Water Resources Engineering | | | | | | | X | | | | | | X | | | X |
| ENVE 402 | Introduction to Environmental Engineering and Sustainable Design | | X | | | X | | | | | | X | | | X | | |
| ENVE 403 | Introduction to Occupational and Environmental Health and Safety | | | | | X | | | X | | | | | | | | |
| ENVE 404 | Water and Wastewater Engineering | | X | | | | | | X | | | | | | | | |
| ENVE 423 | Geoenvironmental Engineering | | | | | | | | | | | | | | X | | |
| ENVE 463 | Introduction to Air Pollution Control | X | | | X | | | X | | | X | | | | X | | |
| ENVE 476 | Engineering Control of Industrial Hazards | | | | | | | | | | | | | | | | |
| ENVE 485 | Industrial Ecology | | | | | | | | | | | | | | | | |
| ENVE 495 | Environmental Capstone Design | | | | | | | | | | | | | | X | | |
| ENVE 497 | Special Project | | | | | | | | | | | | | | X | X | |
| ENVE 501 | Environmental Chemistry | X | | | X | | | X | | | X | | | X | | | X |
| ENVE 503 | Introduction to Occupational and Environmental Health and Safety | | | | | X | | | X | | | | | | | | |
| ENVE 506 | Chemodynamics | X | | | X | | | X | | | X | | | X | | | X |
| ENVE 513 | Biotechnological Processes in Environmental Engineering | | | | | | | | | | | | | | | | |
| ENVE 523 | Geoenvironmental Engineering | | | | | | | | | | | | | | X | | |
| ENVE 528 | Modeling of Environmental Systems | X | | | | | | | | | | | | | | | |
| ENVE 542 | Physiochemical Processes in Environmental Engineering | | X | | | X | | | | | X | | | | | | |
| ENVE 551 | Industrial Waste Treatment | | | | | | | | | | | | | | | | |
| ENVE 561 | Design of Environmental Engineering Processes | | | | | | | | | | | | | | | | |
| ENVE 570 | Air Pollution Meteorology | | | | | | | | | | | | | | | | |
| ENVE 576 | Indoor Air Pollution | | | X | | | | | | | | X | | | X | | |
| ENVE 577 | Design of Air Pollution Control Devices | | X | | | | | | | | | | | | | | |

| | | 2019 | 2020 | | | 2021 | | | 2022 | | | 2023 | | | 2024 | | |
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| **Course** | **Course Name** | **Fall** | **Spring** | **Summer** | **Fall** | **Spring** | **Summer** | **Fall** | **Spring** | **Summer** | **Fall** | **Spring** | **Summer** | **Fall** | **Spring** | **Summer** | Fall |
| ENVE 578 | Physical and Chemical Processes for Industrial Gas Cleaning | | | | | X | | | | | | | | | | | |
| ENVE 580 | Hazardous Waste Engineering | X | | | X | | | | | | | | | | | | |
| Engineering Graphics (EG) | | | | | | | | | | | | | | | | | |
| EG 225 | Engineering Graphics for Non-Engineers | X | X | | | X | | | X | | | X | | | X | | |
| EG 305 | Advanced Engineering Graphics and Design | X | X | | | X | | | | | | | | | | | |
| EG 306 | Engineering Descriptive Geometry | X | | | X | | | | | | | | | | | | |
| EG 325 | Advanced Engineering Graphics for Non-Engineers | X | X | X | X | X | X | X | | X | X | | | X | | | X |
| EG 329 | Graphic Representation for Non-Engineers | X | | X | X | | | | | | | | | | | | |
| EG 405 | Mechanical Design Graphics | | X | X | | X | X | | | | | | | | | | |
| EG 406 | Technical and Pictorial Illustration | | X | X | | X | X | | | | | | | | | | |
| EG 409 | Computer-Generated Pictorial Projections | | | | | | | | | | | | | | | | |
| EG 419 | Computer Graphics in Engineering | X | X | X | X | X | X | X | X | X | X | X | | | | | |
| EG 425 | Computer Graphics for Non-Engineers | X | X | X | X | | X | X | X | X | X | X | | | | | |
| EG 429 | Computer Graphics for Desktop Publishing | | X | | | X | | | | | | | | | | | |
| EG 430 | Introduction to Building Information Modeling (now CAE 474) | | X | X | | X | X | | | | | | | | | | |