

Civil & Environmental Engineering Structural Engineering and Mechanics

ELECTIVES

The following course offerings are subject to change. For CEE course offerings, please refer to the CEE Projected Course Offerings and the Preliminary Time Schedule which can be found on the CEE Department website.
Refer to the UW Time Schedule when it becomes available for up-to-date information.

For courses outside the CEE Department, refer to the UW Time Schedule or the offering department for course offering details.

500-level Structural Engineering and Mechanics (SEM)

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|--|---|
| <input type="checkbox"/> CESG 508 Materials Modeling, 3 CR | <input type="checkbox"/> CESG 528 Wind Engineering Design, 3 CR |
| <input type="checkbox"/> CESG 505 Engineering Computing, 3 CR | <input type="checkbox"/> CESG 509 Reliability and Design, 3 CR |
| <input type="checkbox"/> CESG 506 Nonlinear Analysis of Structural Sys, 3 CR | <input type="checkbox"/> CESG 507 Structural Stability, 3 CR |
| <input type="checkbox"/> CESG 521 Advanced Reinforced Concrete, 3 CR | <input type="checkbox"/> CEE 599 Math Foundation of Continuum Mech, 3CR |
| <input type="checkbox"/> CESG 523 Advanced Structural Systems, 3 CR | |
| <input type="checkbox"/> CESG 524 Advanced Steel I, 3 CR | |
| <input type="checkbox"/> CESG 526 Earthquake Engineering I, 3 CR | |
| <input type="checkbox"/> CESG 527 Earthquake Engineering II, 3 CR | |

To meet the requirement of additional coursework, students may take courses from the SEM list above, or from the following list of approved electives (including CEE, AA, ME, MSE and AMATH).

CEE Electives

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|--|---|
| <input type="checkbox"/> CEE 404 Infrastructure Const, 3 CR | <input type="checkbox"/> CESI 588 Energy and the Environment, 3 CR |
| <input type="checkbox"/> CEE 453 Prestressed Concrete Design, 3 CR | <input type="checkbox"/> CESG 566 Geotechnical Earthquake Eng, 3 CR |
| <input type="checkbox"/> CEE 456 Structural Analysis, 5 CR | |

College of Engineering Electives

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|---|---|
| <input type="checkbox"/> AA 532 Mechanics of Composite Materials, 3 CR | <input type="checkbox"/> ME 556 Experimental Stress Analysis I, 3 CR |
| <input type="checkbox"/> AA 538 Intro to Structural Optimization, 3 CR | <input type="checkbox"/> ME 557 Experimental Stress Analysis II, 3 CR |
| <input type="checkbox"/> AA 543 Computational Fluid Dynamics, 3 CR | <input type="checkbox"/> ME 559 Introduction to Fracture Mechanics, 3 CR |
| <input type="checkbox"/> ME 415 Sustainability and Design for the Environ, 3 CR | <input type="checkbox"/> ME 564, 565 Mechanical Eng Analysis I, II, 3CR |
| <input type="checkbox"/> ME 515 Life Cycle Assessment, 3 CR | <input type="checkbox"/> MSE 431 Failure Anal and Durability of Matls, 3 CR |
| <input type="checkbox"/> ME 541 Fatigue of Materials, 3 CR | <input type="checkbox"/> MSE 462 Mechanical Behavior of Materials II, 3 CR |
| <input type="checkbox"/> ME 551, 552 Elasticity I, II, 3 CR | <input type="checkbox"/> MSE 475 Introduction to Composite Materials, 3CR |

