

| MAE Approved Technical Elective List*                             |   |
|---|---|
| originally approved Fall 2020, confirmed Fall 2025                |   |
| Course Number   | Course  |
| AE 8***   | Any 8000 level AE/AREN course   |
| AE 9***   | Any 9000 level AE/AREN course   |
| Examples could be as follows. For full list, see academic catalog |   |
| AE 8920   | Individual Instruction in Architectural Engineering   |
| AE 8010   | Graduate Project  |
| AE 8110   | Indoor Air Quality Engineering  |
| AE 8330   | Advanced Architectural Acoustics  |
| AE 8940   | Special Topics in AE  |
|   | <i>Health and the Built Environment</i>   |
|   | <i>Healthcare Design &amp; Construction</i>   |
|   | <i>Renewable Energy</i>   |
|   | <i>Advanced Prototyping Building</i>  |
|   | <i>Infrastructure and Community Resilience</i>  |
|   |   |
| CIVE 8***   | Any 8000 level CIVE course  |
| CIVE 9***   | Any 9000 level CIVE course  |
| Examples could be as follows. For full list, see academic catalog |   |
| CIVE 998  | Special Problems in Civil Engineering   |
| CIVE 842  | Structural Dynamics   |
| CIVE 846  | Steel Design II   |
| CIVE 849  | Intro Finite Element Analysis   |
| CIVE 948  | Blast-Resistant Structural Design   |
| CIVE 834  | Soil Mechanics II   |
| CIVE 859  | Reliability of Structures   |
|   |   |
| CONE 8***   | Any 8000 level CONE course  |
| CONE 9***   | Any 9000 level CONE course  |
| Examples could be as follows. For full list, see academic catalog |   |
| CONE 8176   | Formwork Systems  |
| CONE 8506   | Sustainable Construction  |
| CNST 8986   | Special Topics in CM (Alternative Project Delivery)   |
|   |   |
| ECEN 8***   | Any 8000 level ECEN course  |
| ECEN 9***   | Any 9000 level ECEN course  |
| Examples could be as follows. For full list, see academic catalog |   |
| ECEN 806  | Power Systems Analysis  |
|   |   |
| MECH 8***   | Any 8000 level MECH course  |
| MECH 9***   | Any 9000 level MECH course  |
|   |   |
| MATH 8456   | Machine Learning and Data Mining  |
|   |   |
| THEA 8665   | Stage and TV Lighting   |
|   |   |
| STAT 8416   | Introduction to Data Science  |
| STAT 8426   | Exploratory Data Visualization and Quantification   |
| STAT 8456   | Introduction to Machine Learning and Data Mining  |
|   |   |
| CNST 898  | The Surprise Challenges in Occupational Safety and Health for Construction Engineering and Management |
|   |   |

\* Courses listed above are considered pre-approved for the Electives in the MAE curriculum.  
If a student wishes for another course to count as an elective, that course must be approved by a faculty vote.