

# Architectural Engineering, M.S.

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This degree program requires a minimum of 30 semester credit hours.

## Thesis Option

| Code                                | Title                                        | Semester<br>Credit<br>Hours |
|-------------------------------------|----------------------------------------------|-----------------------------|
| <b>Core Requirements</b>            |                                              |                             |
| AEEN 5301                           | Systems Integration and Modeling             | 3                           |
| AEEN 5302                           | Energy Statistics and Data Analysis          | 3                           |
| MEEN 5345                           | Cond and Convection Heat Trans               | 3                           |
| or AEEN 5304                        | Heat Transfer in Buildings                   |                             |
| AEEN 5311                           | Advanced Reinforced Concrete Design          | 3                           |
| or AEEN 5361                        | Advanced Structural Steel Design             |                             |
| <b>Thesis Requirement</b>           |                                              |                             |
| AEEN 5306                           | Thesis                                       | 3                           |
| AEEN 5306                           | Thesis                                       | 3                           |
| <b>Approved Electives</b>           |                                              | <b>12</b>                   |
| Select 12 hours from the following: |                                              |                             |
| AEEN 5303                           | Advanced Topics in Architectural Engineering |                             |
| AEEN 5307                           | Building Energy Audits                       |                             |
| AEEN 5308                           | Sustainable Buildings                        |                             |
| AEEN 5309                           | Lighting Systems and Design                  |                             |
| AEEN 5311                           | Advanced Reinforced Concrete Design          |                             |
| AEEN 5320                           | Foundation Engineering I                     |                             |
| AEEN 5321                           | Structural Dynamics                          |                             |
| AEEN 5322                           | Foundation Engineering II                    |                             |
| AEEN 5335                           | Prestressed Concrete                         |                             |
| AEEN 5337                           | Advanced Structural Analysis                 |                             |
| AEEN 5360                           | Advanced Structural Engineering              |                             |
| AEEN 5361                           | Advanced Structural Steel Design             |                             |
| CEEN 5324                           | Heavy Construction                           |                             |
| CEEN 5325                           | Risk Management Construction                 |                             |
| CEEN 5326                           | Adv Construction Management                  |                             |
| MEEN 5321                           | Advanced Fluid Mechanics                     |                             |
| MEEN 5345                           | Cond and Convection Heat Trans               |                             |
| MEEN 5347                           | Advanced Thermodynamics                      |                             |
| <b>Total Semester Credit Hours</b>  |                                              | <b>30</b>                   |

## Course Only Option

| Code                     | Title                               | Semester<br>Credit<br>Hours |
|--------------------------|-------------------------------------|-----------------------------|
| <b>Core Requirements</b> |                                     |                             |
| AEEN 5301                | Systems Integration and Modeling    | 3                           |
| AEEN 5302                | Energy Statistics and Data Analysis | 3                           |
| MEEN 5345                | Cond and Convection Heat Trans      | 3                           |
| or AEEN 5304             | Heat Transfer in Buildings          |                             |
| AEEN 5311                | Advanced Reinforced Concrete Design | 3                           |

or AEEN 5361                      Advanced Structural Steel Design

**Approved Electives** **18**

Select 18 hours from the following:

|           |                                              |
|-----------|----------------------------------------------|
| AEEN 5303 | Advanced Topics in Architectural Engineering |
| AEEN 5307 | Building Energy Audits                       |
| AEEN 5308 | Sustainable Buildings                        |
| AEEN 5309 | Lighting Systems and Design                  |
| AEEN 5311 | Advanced Reinforced Concrete Design          |
| AEEN 5320 | Foundation Engineering I                     |
| AEEN 5321 | Structural Dynamics                          |
| AEEN 5322 | Foundation Engineering II                    |
| AEEN 5335 | Prestressed Concrete                         |
| AEEN 5337 | Advanced Structural Analysis                 |
| AEEN 5360 | Advanced Structural Engineering              |
| AEEN 5361 | Advanced Structural Steel Design             |
| CEEN 5324 | Heavy Construction                           |
| CEEN 5325 | Risk Management Construction                 |
| CEEN 5326 | Adv Construction Management                  |
| MEEN 5321 | Advanced Fluid Mechanics                     |
| MEEN 5345 | Cond and Convection Heat Trans               |
| MEEN 5347 | Advanced Thermodynamics                      |

**Total Semester Credit Hours** **30**