**Architectural Engineering**

**Architectural Engineering and Related Course Offerings**

In addition to the catalog courses listed below, new courses with “59700” designators are routinely offered within the architectural engineering program. Students are encouraged to evaluate whether these additional courses would help address their specific education and research needs.

***Architectural Engineering Courses***

CE 41300 **or** CE 41400

CE 51300 – Lighting in Buildings (Spring)

CE 51401 – Building Controls (Spring)

CE 51501 – Building Energy Audits (Fall)

CE 59700 – Sustainable Building Design, Construction, and Operation (Fall)

ME 51800 – Analysis of Thermal Systems (Fall)

***Related Courses****(partial list)*

CE 47900 – Design of Building Components and Systems (Fall or Spring)

CE 49700 – Building Information Modeling (Fall or Spring)

CE 69700 – Building Thermal Analysis (Spring)

CE 69700 – Airflow Modelling in the Built Environment (Fall)

CS 50100 – Computing For Science and Engineering (Fall)

CS 51400 – Numerical Analysis (Fall)

EAS 59100 – Solar and Terrestrial Radiation (Fall)

ECE 46200 – Object Oriented Programming Using C++ And Java (Fall)

ECE58000 – Optimization Methods for Systems and Control (Spring)

EEE 55500 – Life Cycle Assessment: Principles and Applications (Fall or Spring)

MA 52100 – Introduction to Optimization Problems (Fall)

MA 52700 – Advanced Mathematics for Engineers and Physicists I (Fall)

MA 52800 – Advanced Mathematics for Engineers and Physicists II (Spring)

ME 41300 – Noise and Acoustics (Spring)

ME 41800 – Engineering of Environmental Systems and Equipment (Spring)

ME 50500 – Intermediate Heat transfer (Fall)

ME 51300 – Engineering Acoustics (Fall)

ME 58100 – Numerical Methods (Fall)

ME 59700 – Sustainable Energy Options & Analysis (Fall)

ME 59700 – Solar Energy Engineering (Fall or Spring)

ME 60600 – Radiation Heat Transfer (Fall)

ME 60800 – Numerical Methods in Heat, Mass, and Momentum Transfer (Spring)

ME 61000 – Boundary Layer Theory (Spring)

ME 50900 – Intermediate Fluid Dynamics (Fall)

ME 60500 – Convection of Heat and Mass (Spring)

ME 61400 – Computational Fluid Dynamics (Spring)

STAT 51100 – Statistical Methods (Fall or Spring)

STAT 51200 – Applied Regression Analysis (Fall, Spring, Summer)