

# **New Construction and Major Renovations Requirements**

## **Purpose**

As a leader in higher education, the University of Central Florida sets the standard for being excellent stewards of environmental resources. UCF's construction of new facilities, renovation of existing facilities, and continued maintenance operations must provide exemplary examples of the high standards for stewardship it encompasses. These construction requirements represent the minimum requirements mandated by UCF to achieve the high standards of environmental stewardship it seeks.

## **Implementation**

It is the responsibility of the architect/engineer (A/E) to insure the requirements established within the "Construction Requirements" of UCF's Energy and Sustainability Policy are achieved. UCF expects the A/E to be knowledgeable of the "Construction Requirements." The A/E should contact the Center for Energy and Sustainability to review these requirements and address any questions.

Where possible, the A/E should identify and make recommendations to incorporate construction design, techniques, products or other design or construction related methods and principles, which will enhance operational sustainability and reduce energy consumption of the construction project. The A/E will forward any recommendations to the Center for Energy and Sustainability who will coordinate a review with the vice president of Administration and Finance, director of Facilities Planning and the director of Physical Plant to determine which recommendations, if any, will be incorporated within the design.

At the completion of schematic design, conceptual design, 50% construction document and 90% construction document phases, the A/E will provide UCF with a comprehensive report detailing the accomplishment of the "Construction Requirements" within each phase of the design process. In preparing the report, the A/E will follow the format provided by Facilities Planning.

The A/E will forward the report to the Center for Energy and Sustainability. They will coordinate a review of the report with the vice president of Administration and Finance, director of Facilities Planning and the director of Physical Plant. Where the report is incomplete or the "Construction Requirements" are not fully incorporated within the design phase, the A/E, at its cost, will complete the report and make revisions, to the design phase being reviewed, to incorporate any items identified in the "Construction Requirements" that were not included.

All new construction shall be registered with the US Green Building Council (USGBC) and meet a minimum Leadership in Energy and Environmental Design (LEED) Silver rating utilizing NC 2.1 rating system. Once the project is completed it must receive a minimum of a silver certification.

There are a number of LEED credits which have been identified as crucial to meeting UCF's goal to construct more energy efficient and sustainable buildings.

The following LEED credits are required to be achieved and are not optional:

1. Credit SS 6.1 Storm water management, rate and quantity
2. Credit SS 6.2 Storm water management, treatment
3. Credit SS 7.2 Heat Island Effect, Roof
4. Credit WE 1.1 Water efficient landscaping
5. Credit WE 1.2 Water efficient landscaping
6. Credit WE 2 Innovative wastewater technologies
7. Credit WE 3.1 Water use reduction 20%
8. Credit WE 3.2 Water use reduction 30%
9. Credit EA 1 Optimize energy (minimum 5 points must be achieved)
10. Credit EA 3 Additional commissioning
11. Credit EA 5 Measurement and verification
12. Credit IE 1 Carbon dioxide monitoring
13. Credit IE 7.1 Thermal comfort
14. Credit IE 7.2 Thermal comfort, permanent monitoring

The remaining credits needed to achieve the Silver rating must be determined by the design team for each project.