**iCAP Team Recommendation**

Name of iCAP Team: Energy

iCAP Team chair(s): Andrew Stumpf & Bill Rose Date 3/30/2022

Submitted to iWG:

Recommendation title: Campus Mobilization for Energy Saving: Buildings in Planning

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*For internal use only*: Date reviewed by iCAP Working Group:

Specific actions/policy recommendation:

Students will:

1. Be provided by F&S with project documentation including drawings, specifications, reports and other relevant documentation
2. Track compliance with State Energy Code by reviewing code requirements, employing modeling software, and reviewing submittals
3. Attending (with permission) meetings related to energy code compliance
4. Preparing an end-of-semester report on progress toward energy code compliance

Students will benefit by encountering a real-life architectural and construction planning experience, and by documenting the actual progress of energy-saving steps in the process.

Suggested unit/department to address implementation:

Architecture; Materials Science and Engineering; Agricultural and Biological Engineering; Institute for Sustainability, Energy, and Environment

Rationale for recommendation:
The recommendation for a Comprehensive Energy Plan is moving forward. The work under this plan will require a full report on energy usage and construction for approximately 300 campus buildings. The aim of this recommendation is to begin the work needed to achieve significant energy use reduction (30% to 70% range) in campus buildings, and to engage students in helping achieve these savings. The focus for this recommendation will be for campus buildings in the planning or early construction stage. This phase will be followed by a phase for existing campus buildings. We propose to interest appropriate departments in creating classwork for credit for the student work. The departments may include, but are not limited to Architecture, MScE, ABE. ISEE.

Connection to iCAP goals:
2.1: Energy Planning Document; 2.2: Increase Energy Efficiency; 2.2.2: Reduce Building-level Energy

Perceived challenges:
Determining whether an oversight group is needed to coordinate projects across departments

Anticipated timeline of implementation: Spring 2023 – Fall 2023

Anticipated budget (identify if cost is up-front or continuous):

Continuous costs could be included If financial support is deemed necessary to successful completion of these class projects.

Individual comments are required from each iCAP Team member (one or two sentences):

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| Team Member Name | Team Member’s Comments |
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Further explanation and background (can be supplied in an attachment):

Comments from consultation group (if any; these can be anonymous):

Draft Recommendation Y

**Campus Mobilization for Energy Saving. Phase 1—buildings in planning**

The recommendation for a Comprehensive Energy Plan is moving forward. The work under this plan will require a full report on energy usage and construction for approximately 300 campus buildings. The aim of this recommendation is to begin the work needed to achieve significant energy use reduction (30% to 70% range) in campus buildings, and to engage students in helping achieve these savings. The focus for this recommendation will be for campus buildings in the planning or early construction stage. This phase will be followed by a phase for existing campus buildings. We propose to interest appropriate departments in creating classwork for credit for the student work. The departments may include, but are not limited to Architecture, MScE, ABE. ISEE.

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Costs:

Incentive payments to departments would assist in getting the coursework on the books. Groups such as SEDAC could be paid to provide training and oversight. An end-of-semester and end-of-year event could be planned to bring the campus efforts together. A final report could be published compiling the individual efforts.

Schedule:

Work over the summer to get this in place for Fall 2022? Seems ambitious.

Concerns:

Would a campus group be formed to work with the departments? Or would the Energy Group find faculty members who would sponsor this effort?