College of Architecture, Design & Construction

McWhorter School of Building Science

Building Science Construction, MBC (Army Corps)

Expected Outcome 1: Demonstration of Research Skills
Students graduating with a Master’s degree (MBC) in Building Construction will develop skills to research and systematically develop solutions of problems important for the construction industry while displaying the highest standards of ethical conduct.

Assessment Method 1: Faculty Evaluation of Students

Assessment Method Description
The graduate faculty that taught in the USACE Custom MBC program was asked to evaluate on how strongly they agree or disagree the students met this learning outcome (The rating was done on a five point likert scale with 5 representing the strongest level of agreement and 1 representing the lowest level of agreement). Eleven sub learning outcomes have been defined to fully epitomize all knowledge areas. Faculty members provided feedback about the cohort of students that were in the program. Results are compiled and lowest and highest mean response scores are reported.

Findings
The average of the lowest ratings for this leaning outcome was 3.67 and the average of the highest ratings was 4.83. The overall average for the eleven sub-outcomes representing this learning outcome was 4.31.

How did you use findings for improvement?
Faculty has expanded the asynchronous video content for conducting research and reporting the results of the research. Students were also provided with a timeline to assist in conducting research. The results from the survey also indicate that students performed well in accomplishing this learning outcome.
Additional Comments

Assessment Method 2: USACE (United States Army Corps of Engineers) Evaluation of their Personnel

Assessment Method Description
Since this is a custom program offered to USACE employees, and the courses taught were tailored to USACE requirements, it was important to get their feedback about the program. The USACE liaison was given a feedback form and was asked to provide feedback about how well USACE thought their personnel met each sub-outcome.

Findings
The average rating for this learning outcome was 5.0. This is again strong evidence that the graduates of the program met the learning outcome, as described by the client.

How did you use findings for improvement?
The feedback from USACE did not indicate any issues with students lacking in meeting this learning outcome.

Additional Comments

Expected Outcome 2: Excellence in Digital, Verbal, and Written communication
Students graduating with a Master’s degree (MBC) in Building Construction will demonstrate evidence of excellence in digital, verbal, and written communication.

Assessment Method 1: Faculty Evaluation of Students

Assessment Method Description
The graduate faculty that taught in the USACE Custom MBC program was asked to evaluate on how strongly they agree or disagree the students met this learning outcome (The rating was done on a five point likert scale with 5 representing the strongest level of agreement and 1 representing the lowest level of agreement). Eleven sub learning outcomes have been defined to fully epitomize all knowledge areas. Faculty members provided feedback about the cohort of students that
were in the program. Results are compiled and lowest and highest mean response scores are reported.

**Findings**
The average of the lowest ratings for this leaning outcome was 3.71 and the average of the highest ratings was 5.0. The overall average for the eleven sub-outcomes representing this learning outcome was 4.37.

**How did you use findings for improvement?**
Based on verbal feedback from the faculty, the current cohort of students was given extensive coaching regarding using digital tools in oral presentations. Students were coached about effective body language settings in oral presentations. The results from the survey also indicate that students performed well in accomplishing this learning outcome.

**Additional Comments**

**Assessment Method 2: USACE (United States Army Corps of Engineers) Evaluation of their Personnel**

**Assessment Method Description**
Since this is a custom program offered to USACE employees, and the courses taught were tailored to USACE requirements, it was important to get their feedback about the program. The USACE liaison was given a feedback form and was asked to provide feedback about how well USACE thought their personnel met each sub-outcome.

**Findings**
The average rating for this learning outcome was 5.0. This is again strong evidence that the graduates of the program met the learning outcome, as described by the client.

**How did you use findings for improvement?**
The feedback from USACE did not indicate any issues with students lacking in meeting this learning outcome.

**Additional Comments**
Expected Outcome 3: Mastery of Project Management Skills

Students graduating with a Master’s degree (MBC) in Building Construction will be able to assess the macro and micro principles of project management and be able to apply them on construction projects.

Assessment Method 1: Faculty Evaluation of Students

Assessment Method Description
The graduate faculty that taught in the USACE Custom MBC program was asked to evaluate on how strongly they agree or disagree the students met this learning outcome (The rating was done on a five point likert scale with 5 representing the strongest level of agreement and 1 representing the lowest level of agreement). Eleven sub learning outcomes have been defined to fully epitomize all knowledge areas. Faculty members provided feedback about the cohort of students that were in the program. Results are compiled and lowest and highest mean response scores are reported.

Findings
The average of the lowest ratings for this leaning outcome was 4.0 and the average of the highest ratings was 4.82. The overall average for the eleven sub-outcomes representing this learning outcome was 4.47.

How did you use findings for improvement?
Not-Applicable. This program will no longer be offered. The last students in this program will graduate in May-2014 and they have already completed the courses that relate to this learning outcome. The results however indicate that there is consensus among faculty that learning outcome #2 was met by the students.

Additional Comments

Assessment Method 2: USACE (United States Army Corps of Engineers) Evaluation of their Personnel

Assessment Method Description
Since this is a custom program offered to USACE employees, and the courses taught were tailored to USACE requirements, it was important
to get their feedback about the program. The USACE liaison was given a feedback form and was asked to provide feedback about how well USACE thought their personnel met each sub-outcome.

**Findings**
The average rating for this learning outcome was 4.91. This is again strong evidence that the graduates of the program met the learning outcome, as described by the client.

**How did you use findings for improvement?**
Not-Applicable. This program will no longer be offered. The last students in this program will graduate in May-2014 and they have already completed the courses that relate to this learning outcome.

**Additional Comments**

**Expected Outcome 4: Proficiency in Processes involved in Project Planning, Design, Construction and Post-occupancy**

*Students graduating with a Master’s degree in Building Construction will be able to evaluate and develop processes involved in the lifestyle of a construction project, from inception to post-occupancy.*

**Assessment Method 1: Faculty Evaluation of Students**

**Assessment Method Description**
The graduate faculty that taught in the USACE Custom MBC program was asked to evaluate on how strongly they agree or disagree the students met this learning outcome (The rating was done on a five point likert scale with 5 representing the strongest level of agreement and 1 representing the lowest level of agreement). Eleven sub learning outcomes have been defined to fully epitomize all knowledge areas. Faculty members provided feedback about the cohort of students that were in the program. Results are compiled and lowest and highest mean response scores are reported.

**Findings**
The average of the lowest ratings for this leaning outcome was 3.64 and the average of the highest ratings was 4.82. The overall average
for the eleven sub-outcomes for this learning outcome 4.14

**How did you use findings for improvement?**
Not-Applicable. This program will no longer be offered. The last students in this program will graduate in May-2014 and they have already completed the courses that relate to this learning outcome. The results however indicate that there is consensus among faculty that learning outcome #1 was met by the students.

**Additional Comments**

**Assessment Method 2:** USACE (United States Army Corps of Engineers) Evaluation of their Personnel

**Assessment Method Description**
Since this is a custom program offered to USACE employees, and the courses taught were tailored to USACE requirements, it was important to get their feedback about the program. The USACE liaison was given a feedback form and was asked to provide feedback about how well USACE thought their personnel met each sub-outcome.

**Findings**
The average rating for this learning outcome was 4.73. This is again evidence that the graduates of the program met the learning outcome, as described by the client.

**How did you use findings for improvement?**
Not-Applicable. This program will no longer be offered. The last students in this program will graduate in May-2014 and they have already completed the courses that relate to this learning outcome.

**Additional Comments**