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| **Assurance of Student Learning Report**  **2022-2023** | | |
| Ogden College | | SEAS |
| ***Construction Management 533*** | | |
| ***Dr. Stacy Wilson / Bashar Haddad*** | | |
| ***Is this an online program***?  Yes  No | Please make sure the Program Learning Outcomes listed match those in CourseLeaf . Indicate verification here  Yes, they match! (If they don’t match, explain on this page under **Assessment Cycle)** | |

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| --- | --- | --- | --- |
| ***Use this page to list learning outcomes, measurements, and summarize results for your program. Detailed information must be completed in the subsequent pages. Add more Outcomes as needed.*** | | | |
| **Program Student Learning Outcome 1: Graduates will demonstrate the skills of construction management competencies including estimating, planning, scheduling, project control, print reading, safety management, quality management and construction law.** | | | |
| **Instrument 1** | **Based on the internship host survey, our students will get ratings at or above very good in the “Technical Competence”, “Preparation for this job”, “Work productivity”, “Quality of Work”, “Project management”, and “ Overall performance” survey question** | | |
| **Instrument 2** | **Based on a juried performance of all final Senior Research projects, a committee of practicing professionals from the construction industry and faculty in related disciplines at least 90% of our students meeting the goals of the project with ratings at or above “4” on a 5-point scale.** | | |
| **Based on your results, check whether the program met the goal Student Learning Outcome 1.** | | **Met** | **Not Met** |
| **Program Student Learning Outcome 2: Upon graduation, our students have the ability to communicate effectively with a range of audiences** | | | |
| **Instrument 1** | **Based on a peer review of all final Senior Research projects, a committee of practicing professionals from the construction industry and faculty in related disciplines will find that at least our students meet the goals of the project with ratings at or above “3” on a 5-point scale.** | | |
| **Instrument 2** | **Based on a conducted employer survey (supervisor survey), our students will get ratings at or above 3 on a 4.0 scale**  **“Communication skills” Written and Verbal survey question.** | | |
| **Based on your results, check whether the program met the goal Student Learning Outcome 2.** | | **Met** | **Not Met** |
| **Program Student Learning Outcome 3: Graduates will have managerial and leadership experience through working in teams to solve problems, and participation in required internships.** | | | |
| **Instrument 1** | **Based on a peer review of all final Senior Research projects, by a committee of practicing professionals from the construction industry and faculty in related disciplines, our students will get ratings at or above “3” on a 5-point scale in the survey question on exhibiting fundamental managerial skills** | | |
| **Instrument 2** | **Based on internship host survey, our students will get ratings at 3 or above in a 5.0 scale on “Ability to solve problems”, “** **Reaction to being supervised”, “** **Relation with clients”,**  “**Relation with co-workers”** | | |
| **Based on your results, check whether the program met the goal Student Learning Outcome 3.** | | **Met** | **Not Met** |
| **Assessment Cycle Plan:** | | | |
| The assessment of student performance under Student Learning Outcomes 1, 2 and 3 is acceptable according to rubric-based evaluation of student work. Program assessment indicates the CM curriculum prepares graduates to be work ready in the construction industry. Graduates of the program have the required skills and abilities to be a successful construction managers. | | | |

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| **Program Student Learning Outcome 1** | | | | | | | |
| **Program Student Learning Outcome** | **Graduates will demonstrate the skills of construction management competencies including estimating, planning, scheduling, project control, safety management, quality management and construction law.** | | | | | | |
| **Measurement Instrument 1** | **Based on the internship host survey, our students will get ratings at or above very good in the “Technical Competence”, “Preparation for this job”, “Work productivity”, “Quality of Work”, “Project management”, and “ Overall performance” survey question** | | | | | | |
| **Criteria for Student Success** | **Work on Estimating projects,**  **Work on scheduling projects,**  **OSHA certificate**  **Effectively manage project activities** | | | | | | |
| **Program Success Target for this Measurement** | | | **Average of 3.0 on a 5.0 scale** | | **Percent of Program Achieving Target** | 4.6 | |
| **Methods** | Feedback from employers | | | | | | |
| **Measurement Instrument 2** | **Based on a juried performance of all final Senior Research projects, a committee of practicing professionals from the construction industry and faculty in related disciplines our students meet the goals of the project with ratings at or above “3” on a 5-point scale** | | | | | | |
| **Criteria for Student Success** | Senior research project | | | | | | |
| **Program Success Target for this Measurement** | | **Average of 3.0 on a 5.0 scale** | | **Percent of Program Achieving Target** | | **3.82** | |
| **Methods** | Student presentation of their work on the project.  Student submittal of estimates and work schedule  Construction Company representatives (Jury Panel) feedback on students’ work | | | | | | |
| **Based on your results, highlight whether the program met the goal Student Learning Outcome 1.** | | | | | | **Met** | **Not Met** |
| **Results, Conclusion, and Plans for Next Assessment Cycle (Describe what worked, what didn’t, and plan going forward)** | | | | | | | |
| **Results**: The assessment of student performance under Outcome 1 is acceptable according to rubric-based direct evaluation of student work. Graduates are completing relevant courses with satisfactory grades in the curriculum assuring that CM graduates have the ability to identify, formulate, and solve and manage construction methods and means by applying principles of Scheduling, estimating and contract management. The WKU Construction Management Program will continue to prepare graduates with the same curriculum content, and monitor this student learning outcome with these measures. No need for programmatic adjustments has been found  **Plans for Next Assessment Cycle**: The construction management faculty will continue with program assessment on an annual basis. The accrediting agency, ATMAE, requires continual improvement through systematic assessment of student learning outcomes. | | | | | | | |

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| **Program Student Learning Outcome 2** | | | | | | | |
| **Program Student Learning Outcome** | **Upon graduation, our students have the ability to communicate effectively with a range of audiences** | | | | | | |
| **Measurement Instrument 1** | **Based on a peer review of all final Senior Research projects, a committee of practicing professionals from the construction industry and faculty in related disciplines will find that at least our students meet the goals of the project with ratings at or above “3” on a 5-point scale.** | | | | | | |
| **Criteria for Student Success** | Numerical results from applying the rubric to student work should reach a minimum value of 3.0 on a 5.0 scale | | | | | | |
| **Program Success Target for this Measurement** | | | **Average of 3.0 on a 5.0 scale** | | **Percent of Program Achieving Target** | 3.81 | |
| **Methods** | Juried performance | | | | | | |
| **Measurement Instrument 2** | **Based on a conducted employer survey (supervisor survey), our students will get ratings at or above 3 on a 5.0 scale**  **“Communication skills” Written and Verbal survey question.** | | | | | | |
| **Criteria for Student Success** | Numerical results from applying the rubric to student work should reach a minimum value of 3.0 on a 5.0 scale | | | | | | |
| **Program Success Target for this Measurement** | | **Average of 3.0 on a 5.0 scale** | | **Percent of Program Achieving Target** | | **4.8** | |
| **Methods** | Internship survey | | | | | | |
| **Based on your results, circle or highlight whether the program met the goal Student Learning Outcome 2.** | | | | | | **Met** | **Not Met** |
| **Results, Conclusion, and Plans for Next Assessment Cycle (Describe what worked, what didn’t, and plan going forward)** | | | | | | | |
| **Results**: The assessment of student performance under Outcome 2 is acceptable according to rubric-based direct evaluation of student work. Graduates are completing these courses with satisfactory grades assuring that CM graduates have the ability to develop and conduct themselves professionally, and communicate with coworkers, management, and clients effectively. The WKU Construction Management Program will continue to prepare graduates with the same curriculum content, and monitor this student learning outcome with these measures. No need for programmatic adjustments has been found  **Plans for Next Assessment Cycle** The construction management faculty will continue with program assessment on an annual basis. The accrediting agency, ATMAE, requires continual improvement through systematic assessment of student learning outcomes. | | | | | | | |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Program Student Learning Outcome 3** | | | | | | | |
| **Program Student Learning Outcome** | **Graduates will have managerial and leadership experience through working in teams to solve problems, and participation in required internships** | | | | | | |
| **Measurement Instrument 1** | **Based on a peer review of all final Senior Research projects, by a committee of practicing professionals from the construction industry and faculty in related disciplines, our students will get ratings at or above “3” on a 5-point scale in the survey question on exhibiting fundamental managerial skills** | | | | | | |
| **Criteria for Student Success** | Critical thinking and team building/team work | | | | | | |
| **Program Success Target for this Measurement** | | | **Average of 3.0 on a 5.0 scale** | | **Percent of Program Achieving Target** | 4.75 | |
| **Methods** |  | | | | | | |
| **Measurement Instrument 2** | **Based on internship host survey, our students will get ratings at 3 or above in a 5.0 scale on “Ability to solve problems”, “** **Reaction to being supervised”, “** **Relation with clients”,**  “**Relation with co-workers”** | | | | | | |
| **Criteria for Student Success** | **Successful completion of the internship and submit the final report** | | | | | | |
| **Program Success Target for this Measurement** | | **Average of 3.0 on a 5.0 scale** | | **Percent of Program Achieving Target** | | **4.8** | |
| **Methods** | **Internship employer evaluation and faculty evaluation of the report** | | | | | | |
| **Based on your results, circle or highlight whether the program met the goal Student Learning Outcome 3.** | | | | | | **Met** | **Not Met** |
| **Results, Conclusion, and Plans for Next Assessment Cycle (Describe what worked, what didn’t, and plan going forward)** | | | | | | | |
| **Results**: The assessment of student performance under Outcome 3 is acceptable according to rubric-based direct evaluation of student work. Graduates are completing relevant courses which produce assessable problem solivng techniques artifacts within the CM curriculum assuring that CM graduates have the ability to construction problems effectively. The WKU Construction Management Program will continue to prepare graduates with the same curriculum content, and monitor this student learning outcome with these measures. No need for programmatic adjustments has been found.  **Plans for Next Assessment Cycle**: The construction management faculty will continue with program assessment on an annual basis. The accrediting agency, ATMAE, requires continual improvement through systematic assessment of student learning outcomes. | | | | | | | |

**\*\*\* Please include Curriculum Map (below/next page) as part of this document**

**Construction Management Program**

**Relationship of Student Outcomes to Required Courses in the Curriculum**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Outcome 1** | **Outcome 2** | **Outcome 3** |
| AS 163 | X |  |  |
| MFGE 217 | X |  |  |
| CM 261 | X |  |  |
| CM 262 | X |  |  |
| CM 282 | X | X |  |
| AS 305 | X |  |  |
| SEAS 310 | X |  |  |
| SEAS 325 | X | X |  |
| SEAS 271 | X |  |  |
| SEAS 371 | X |  |  |
| SEAS 390 | X | X |  |
| SEAS 394 | X |  |  |
| SEAS 398 | X | X | X |
| CE 160/161 | X |  | X |

**Relationship of Student Outcomes to Elective Courses in the Curriculum**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Outcome 1** | **Outcome 2** | **Outcome 3** |
| CM 250/CE 303 | X |  | X |
| CE 316 | X |  |  |
| CM 363 | X | X | X |
| CM 462 | X | X | XX |
| CM 490 | X | X | X |
| CM 346/CE 410 | X |  |  |

**SCHOOL OF ENGINEERING AND APPLIED SCIENCES**

AMS490B– Senior Research, Construction Management (Spring 2019)

**Bashar Haddad Ph.D.**

*Email*: bashar.haddad@wku.edu

*Phone*: 270-745-3414

Shape, rectangle

Description automatically generated

**AMS 490B- Final Presentation Evaluation Form**

**Guests & Participants -** Your opinion matters to us. Using the survey instrument below, please circle one answer foreach question. There is space below for additional comments. If you run out of space, please feel free to write on the back of this form. **Thanks for attending today!**

**Your Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Group #: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:**

**The Presenter(s):**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  | Poor | Fair | Good | Very Good | Excellent |
| 1 | The presenter delivered the material in a clear and structured manner. | 1 | 2 | 3 | 4 | 5 |
|  |  |  |  |  |  |  |
| 2 | The presenter was knowledgeable about the topic and any related | 1 | 2 | 3 | 4 | 5 |
|  | issues. |  |  |  |  |  |
| 3 | The presenter maintained my interest during the entire presentation. | 1 | 2 | 3 | 4 | 5 |
|  |  |  |  |  |  |  |
| 4 | The presenter answered questions effectively. | 1 | 2 | 3 | 4 | 5 |
|  |  |  |  |  |  |  |
| 5 | The presenter was enthusiastic about the topic. | 1 | 2 | 3 | 4 | 5 |
|  |  |  |  |  |  |  |
| 6 | The presenter was well organized and prepared. | 1 | 2 | 3 | 4 | 5 |
|  |  |  |  |  |  |  |

**The Presentation:**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  | Poor | Fair | Good | Very Good | Excellent |
| 7 | The presentation was concise and informative. | 1 | 2 | 3 | 4 | 5 |
|  |  |  |  |  |  |  |
| 8 | The presentation contained practical examples and useful techniques | 1 | 2 | 3 | 4 | 5 |
|  | that applied to current work. |  |  |  |  |  |
| 9 | The visual aids were effective. | 1 | 2 | 3 | 4 | 5 |
|  |  |  |  |  |  |  |
| 10 | Overall, I would rate this presentation/instruction as: | 1 | 2 | 3 | 4 | 5 |
|  |  |  |  |  |  |  |
| 11 | Would you recommend this presentation to others? | NO |  | | | YES |
|  |  |  |  |
| 12 | ***Overall score out of 100 points (please provide an approximate score)*** *🡺 🡺 🡺🡺 🡺 🡺🡺 🡺 🡺🡺 🡺 🡺🡺* | | | | | ***/ 100*** |

**Additional Comments**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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### WKU_Cup_tall

**School of Engineering and Applied Science**

**EVALUATION OF STUDENT PROGRESS for Work Experience**

***To be completed by Supervisor***

\*\*\*Please Type or Print\*\*\*

|  |  |  |
| --- | --- | --- |
| Name ▶ | Employer ▶ |  |
| Supervisor ▶ | Position Held ▶ | |
| Work Period ▶ From To | |  |
| Your e-mail ▶ Your Phone #▶ | | WKU ID ▶ |
| Course # ▶ **AMS** - Term ▶ | CRN# ▶ | Credit Hours ▶ |

**WORK PERFORMANCE**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ***Please rate by circling appropriate number*** | | | | | | |
| **Characteristic** | **Outstanding (A)** | **Very Good (B)** | **Acceptable (C)** | **Poor (D)** | **Unacceptable (F)** | **N/A ✓** |
| Attendance & punctuality | **4** | **3** | **2** | **1** | **0** |  |
| Preparation for this job | **4** | **3** | **2** | **1** | **0** |  |
| Work productivity | **4** | **3** | **2** | **1** | **0** |  |
| Quality of work | **4** | **3** | **2** | **1** | **0** |  |
| Time management | **4** | **3** | **2** | **1** | **0** |  |
| Project management skills | **4** | **3** | **2** | **1** | **0** |  |
| Technical competence | **4** | **3** | **2** | **1** | **0** |  |
| Problem solving abilities | **4** | **3** | **2** | **1** | **0** |  |
| Practical application of skills | **4** | **3** | **2** | **1** | **0** |  |
| Overall performance | **4** | **3** | **2** | **1** | **0** |  |

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| **EMPLOYABILITY** |
| **Comments related to work performance.** |
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**EVALUATION OF STUDENT PROGRESS for Work Experience (continued)**

**PROFESSIONAL QUALITIES**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Please rate by circling appropriate number** | | | | | | |
| **Characteristic** | **Outstanding (A)** | **Very Good (B)** | **Acceptable (C)** | **Poor (D)** | **Unacceptable (F)** | **N/A ✓** |
| Ability to learn | **4** | **3** | **2** | **1** | **0** |  |
| Communication skills: Verbal | **4** | **3** | **2** | **1** | **0** |  |
| Communication skills: Written | **4** | **3** | **2** | **1** | **0** |  |
| Adaptability | **4** | **3** | **2** | **1** | **0** |  |
| Appearance | **4** | **3** | **2** | **1** | **0** |  |
| Attitude | **4** | **3** | **2** | **1** | **0** |  |
| Dependability | **4** | **3** | **2** | **1** | **0** |  |
| Self-motivated | **4** | **3** | **2** | **1** | **0** |  |
| Judgment | **4** | **3** | **2** | **1** | **0** |  |
| Reaction to being supervised | **4** | **3** | **2** | **1** | **0** |  |
| Relation with clients | **4** | **3** | **2** | **1** | **0** |  |
| Relation with co-workers | **4** | **3** | **2** | **1** | **0** |  |
| Ability to plan work or projects | **4** | **3** | **2** | **1** | **0** |  |
| Respect for diversity | **4** | **3** | **2** | **1** | **0** |  |
| Demonstrates responsible citizenship | **4** | **3** | **2** | **1** | **0** |  |

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| --- |
| **Comments:** |
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* **Would you consider hiring this student full time if an opportunity arises? \_\_\_\_\_\_ Yes \_\_\_\_\_ No**

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| **Comments:** |
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* **If you were assigning a grade to the student, what would you recommend? (Using the rate above) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
* **Has this evaluation been discussed with the student? \_\_\_\_\_\_ Yes \_\_\_\_\_ No**

|  |  |  |  |
| --- | --- | --- | --- |
| **Student Signature:** |  | **Date:** |  |
| **Supervisor Signature:** |  | **Date:** |  |

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