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| **Assurance of Student Learning Report****2023-2024** |
| *Ogden College of Science and Engineering* | *Earth, Environmental, & Atmospheric Sciences* |
| *Emergency Management Disaster Science #1748* |
| *Josh Durkee* |
| ***Is this an online program***? [x]  Yes [ ]  No | Please make sure the Program Learning Outcomes listed match those in CourseLeaf . Indicate verification here [x]  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:**  Students completing the Emergency Management Disaster Science Certificate will be able to demonstrate an understanding of incident management. |
| **Instrument 1** | A demonstrative applied capstone project is given during the final required course of the certificate. The project consists of the collection of real-time intelligence of potential hazards and applying that intelligence to a simulated event. Students must demonstrate an understanding of incident management as they produce a tangible, comprehensive emergency action plan with simulated response efforts as part of a real-time experiment that unfolds across the final week.  |
| **Instrument 2** | An alternative applied capstone course with a traditional assessment that ties together key elements from previously required courses toward a comprehensive understanding of how to plan, mitigate, and expect post-disaster fallout of various environmental emergencies. In addition to final grades, a separate final comprehensive assessment is used to determine overall skill in incident management. |
| **Based on your results, check whether the program met the goal Student Learning Outcome 1.**  | **[x]  Met** | **[ ]  Not Met** |
| **Program Student Learning Outcome 2:**  Students completing the Emergency Management Disaster Science Certificate will be able to demonstrate an understanding of risk identification. |
| **Instrument 1** | A demonstrative applied capstone project is given during the final required course of the certificate. The project consists of the collection of real-time intelligence of potential hazards and applying that intelligence to a simulated event. Students must demonstrate an understanding of risk identification as they produce a tangible, comprehensive risk-idenfitication measures with simulated response efforts as part of a real-time experiment that unfolds across the final week.  |
| **Instrument 2** | An alternative applied capstone course with a traditional assessment that ties together key elements from previously required courses toward a comprehensive understanding of how to plan, mitigate, and expect post-disaster fallout of various environmental emergencies. In addition to final grades, a separate final comprehensive assessment is used to determine overall skill in risk identification. |
| **Based on your results, check whether the program met the goal Student Learning Outcome 2.**  | **[x]  Met** | **[ ]  Not Met** |
| **Program Student Learning Outcome 3:**  Students completing the Emergency Management Disaster Science Certificate will be able to demonstrate an understanding of emergency planning. |
| **Instrument 1** | A demonstrative applied capstone project is given during the final required course of the certificate. The project consists of the collection of real-time intelligence of potential hazards and applying that intelligence to a simulated event. Students must demonstrate an understanding of emergency planning as they produce a tangible, comprehensive mitigation plan with simulated response efforts as part of a real-time experiment that unfolds across the final week.  |
| **Instrument 2** | An alternative applied capstone course with a traditional assessment that ties together key elements from previously required courses toward a comprehensive understanding of how to plan, mitigate, and expect post-disaster fallout of various environmental emergencies. In addition to final grades, a separate final comprehensive assessment is used to determine overall skill in emergency planning. |
| **Based on your results, check whether the program met the goal Student Learning Outcome 3.**  | **[x]  Met** | **[ ]  Not Met** |
| **Assessment Cycle Plan:**  |
| At this time, we plan to utilize the same assessment at the end of the next academic year. |

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| **Program Student Learning Outcome 1** |
| **Program Student Learning Outcome**  | Students completing the Emergency Management Disaster Science Certificate will be able to demonstrate an understanding of incident management. |
| **Measurement Instrument 1**  | A demonstrative applied capstone project is given during the final required course of the certificate. The project consists of the collection of real-time intelligence of potential hazards and applying that intelligence to a simulated event. Students must demonstrate leadership and managerial roles as they produce a tangible, comprehensive emergency action plan with simulated response efforts in the form of written and presented portfolios. |
| **Criteria for Student Success** | The capstone is a pass/fail assessment, whereby a pass is considered no less than 80% successful completion of the project. |
| **Program Success Target for this Measurement** | 95% | **Percent of Program Achieving Target** | 100% |
| **Methods**  | N = 0; see MI2 |
| **Measurement Instrument 2** | An alternative applied capstone course with a traditional assessment that ties together key elements from previously required courses toward a comprehensive understanding of how to plan, mitigate, and expect post-disaster fallout of various environmental emergencies. In addition to final grades, a separate final comprehensive assessment is used to determine overall skill. |
| **Criteria for Student Success** | Criticial assessment for success is considered when the average final comprehensive score is considered no less than 80%. |
| **Program Success Target for this Measurement** | 80% | **Percent of Program Achieving Target** | 100% |
| **Methods** | Overall score: 87% | N = 17 |
| **Based on your results, highlight whether the program met the goal Student Learning Outcome 1.** | **[x]  Met** | **[ ]  Not Met** |
| **Results, Conclusion, and Plans for Next Assessment Cycle (Describe what worked, what didn’t, and plan going forward)** |
| These initial successes have provided a sufficient baseline for program assessment. Upon reflection and feedback from student and industry professionals, we plan to continue update course content to be less FEMA overspill and more applied and practical. Otherwise, enrollment continues to increaseand feedback remains positive.No follow-up is needed at this time.We plan to utilize the same assessment at the end of the academic year. |

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| **Program Student Learning Outcome 2** |
| **Program Student Learning Outcome**  | Students completing the Emergency Management Disaster Science Certificate will be able to demonstrate an understanding of risk identification. |
| **Measurement Instrument 1** | A demonstrative applied capstone project is given during the final required course of the certificate. The project consists of the collection of real-time intelligence of potential hazards and applying that intelligence to a simulated event. Students must demonstrate leadership and managerial roles as they produce a tangible, comprehensive emergency action plan with simulated response efforts in the form of written and presented portfolios. |
| **Criteria for Student Success** | The capstone is a pass/fail assessment, whereby a pass is considered no less than 80% successful completion of the project. |
| **Program Success Target for this Measurement** | 95% | **Percent of Program Achieving Target** | 95% |
| **Methods**  | N = 0; see MI2 |
| **Measurement Instrument 2** | An alternative applied capstone course with a traditional assessment that ties together key elements from previously required courses toward a comprehensive understanding of how to plan, mitigate, and expect post-disaster fallout of various environmental emergencies. In addition to final grades, a separate final comprehensive assessment is used to determine overall skill. |
| **Criteria for Student Success** | Criticial assessment for success is considered when the average final comprehensive score is considered no less than 80%. |
| **Program Success Target for this Measurement** | 80% | **Percent of Program Achieving Target** | 100% |
| **Methods** | Overall score: 92% | N = 17 |
| **Based on your results, circle or highlight whether the program met the goal Student Learning Outcome 2.** | **[x]  Met** | **[ ]  Not Met** |
| **Results, Conclusion, and Plans for Next Assessment Cycle (Describe what worked, what didn’t, and plan going forward)** |
| These initial successes have provided a sufficient baseline for program assessment. Upon reflection and feedback from student and industry professionals, we plan to continue update course content to be less FEMA overspill and more applied and practical. Otherwise, enrollment continues to increaseand feedback remains positive.No follow-up is needed at this time.We plan to utilize the same assessment at the end of the academic year. |

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| **Program Student Learning Outcome 3** |
| **Program Student Learning Outcome**  | Students completing the Emergency Management Disaster Science Certificate will be able to demonstrate an understanding of risk identification. |
| **Measurement Instrument 1** | A demonstrative applied capstone project is given during the final required course of the certificate. The project consists of the collection of real-time intelligence of potential hazards and applying that intelligence to a simulated event. Students must demonstrate leadership and managerial roles as they produce a tangible, comprehensive emergency action plan with simulated response efforts in the form of written and presented portfolios. |
| **Criteria for Student Success** | The capstone is a pass/fail assessment, whereby a pass is considered no less than 80% successful completion of the project. |
| **Program Success Target for this Measurement** | 95% | **Percent of Program Achieving Target** | 100% |
| **Methods**  | N = 0; see MI2 |
| **Measurement Instrument 2** | An alternative applied capstone course with a traditional assessment that ties together key elements from previously required courses toward a comprehensive understanding of how to plan, mitigate, and expect post-disaster fallout of various environmental emergencies. In addition to final grades, a separate final comprehensive assessment is used to determine overall skill. |
| **Criteria for Student Success** | Criticial assessment for success is considered when the average final comprehensive score is considered no less than 80%. |
| **Program Success Target for this Measurement** | 80% | **Percent of Program Achieving Target** | 100% |
| **Methods** | Overall score: 82% | N = 17 |
| **Based on your results, circle or highlight whether the program met the goal Student Learning Outcome 3.** | **[x]  Met** | **[ ]  Not Met** |
| **Results, Conclusion, and Plans for Next Assessment Cycle (Describe what worked, what didn’t, and plan going forward)** |
| These initial successes have provided a sufficient baseline for program assessment. Upon reflection and feedback from student and industry professionals, we plan to continue update course content to be less FEMA overspill and more applied and practical. Otherwise, enrollment continues to increaseand feedback remains positive.No follow-up is needed at this time.We plan to utilize the same assessment at the end of the academic year. |

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| **Program name:** | Emergency Management Disaster Science #1748 |   |
| **Department:** | Earth, Environmental, & Atmospheric Sciences |   |
| **College:** | Ogden College of Science and Engineering |   |   |  |  |
| **Contact person:** | Josh Durkee |   |   |  |  |
| **Email:** | joshua.durkee@wku.edu |   |
| **KEY:** |  |  |  |  |  |
| I = Introduced |  |  |  |  |  |
| R = Reinforced/Developed |  |  |  |  |  |
| M = Mastered |  |  |  |  |  |
| A = Assessed |  |  |  |  |  |
|  |  |  | **Learning Outcomes** |  |  |
|  |  |  | **LO1:** | **LO2:** | **LO3:** |
|  |  |  | Students completing the Emergency Management Disaster Science Certificate will be able to demonstrate an understanding of incident management. | Students completing the Emergency Management Disaster Science Certificate will be able to demonstrate an understanding of risk identification. | Students completing the Emergency Management Disaster Science Certificate will be able to demonstrate an understanding of emergency planning. |
| **Course Subject/Core Course** | **Number** | **Course Title** |   |   |   |
| EMDS | 400 | Emergency Management Policy and Practices | I | I | I |
| EMDS | 401 | Natural and Technological Disaster Risks |   | I/R | I |
| EMDS | 402 | Resiliency in Response to Terrorism and Violence | R | R | R |
| EMDS | 403 | Advanced Disaster Planning, Management, and Preparedness | R | R | R/M |
| EMDS | 404 | Trends in Disaster Preparedness and Management | M/A | M/A | M/A |