
| Ecological Design Challenge Rubric | | | | | |
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| Category | 4. Exemplary | 3. Very Good | 2. Fair | 1. Poor | Category Total |
| **1. Solution(s) for stabilizing the shoreline** | Student demonstrated exemplar engineering solutions that could result in practical applications for reducing flooding against future superstorms, high tides and high winds. | Student demonstrated very good engineering solutions that could result in practical applications for reducing flooding against future superstorms, high tides and high winds. | Student demonstrated fair engineering solutions and had some practical applications, but revisions would be needed prior to impacting flooding against future superstorms, high tides and high winds. | Student demonstrated poor or no engineering solutions and would need revisions prior to being applied that would result in reducing flooding against future superstorms, high tides and high winds. | |
| **2. Solution(s) for creating and maintaining shoreline habitat.** | Student demonstrated exemplar and innovative solutions that could result in practical applications for protecting plants, animals and the ecological conditions of shoreline habitats. | Student demonstrated very good solutions that could result in practical applications for protecting plants, animals and the ecological conditions of shoreline habitats. | Student demonstrated fair solutions and had some practical applications, but revisions would be needed prior to applying solutions for protecting plants, animals and the ecological conditions of shoreline habitats. | Student demonstrated poor or no significant revisions would be needed prior to applying solutions for protecting plants, animals and the ecological conditions of shoreline habitats. | |

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| **3. Upland area structural features related to human activities** | Student demonstrated exemplar and innovative engineering solutions that reduced the impact on coastal shoreline by human activities. | Student demonstrated very good engineering solutions that reduced the impact on coastal shoreline by human activities. | Student demonstrated fair engineering solutions but would need revisions that could reduce the impact on coastal shoreline by human activities. | Student demonstrated poor or no engineering solutions and would need significant revisions that could reduce the impact on coastal shoreline by human activities. | |
| 4. **Ecological monitoring and site study for resiliency solutions** | Student clearly demonstrated exemplar and practical resiliency solutions to ecological monitoring. | Student demonstrated very good resiliency solutions to ecological monitoring. | Student demonstrated fair resiliency solutions to ecological monitoring but needs additional explanation for the practical execution of the solutions that were presented. | Student demonstrated poor or no resiliency solutions to ecological monitoring and needs significant revisions for the practical execution of the limited solutions that were presented. | |
| 5**. Use of Technology and final presentation** | Student demonstrated exemplar use of technologies for research, data collection and documentation, and presented their findings using technology in a clear and understandable format to the intended audience. | Student demonstrated a good use of technologies for research, data collection and documentation, and presented their findings using technology in a clear and understandable format to the intended audience. | Student demonstrated a fair use of technologies for research, data collection and documentation; and presented their findings by using technology that was in a partially understandable format to the intended audience. | Student demonstrated a poor use of technologies for research, data collection and documentation; and did not present or only in part provided their findings by using technology that was not easily understood by the intended audience. | |
| **Total** | | | | | |