Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Group: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ Instructor: \_\_\_\_\_\_\_\_ LA: \_\_\_\_\_\_\_\_

SCIL 101 Biofuels Module Assessment Due: Monday Oct 3rd 2016 by 10 p.m. uploaded to Canvas (60 points)

**STUDENT WORK GOES HERE:**

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| --- |
| **1. Define the issue:**  |

**OPTIONS**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Type your 1st option here** | **Type your 2nd option here** | **Type your 3rd option here** | **Type your 4th option here** |
|  | Metric: | Performance score: | Metric: | Performance score: | Metric: | Performance score: | Metric: | Performance score: |
| **Type your 1st criteria here** |  |  |  |  |  |  |  |  |
| Weight: | Multiply the weight x the performance score in this cell |  |  |  |
| **Type your 2nd criteria here****CRITERIA** |  |  |  |  |  |  |  |  |
| Weight: |  |  |  |  |
| **Type your 3rd criteria here** |  |  |  |  |  |  |  |  |
| Weight: |  |  |  |  |
| Total weighted performance score: | Sum up the weighted performance scores in this cell |  |  |  |

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| **4. Information, Step 4: justification of assigning your performance scores:****Criteria 1:****Criteria 2:****Criteria 3:** |

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| 6. Choice:A) Choose an “option” based on the analysis undertaken.B) Why do you think this is the best option? |

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| 7. Review (Reflect on your own decision-making process using these steps):A) What do you think of the decision you have made? How could you improve the way you made the decision? B) Do you think your decision is viable? Why or why not? |

**8. Assigning Resources** Let’s say you have $10 million dollars to allocate towards any of these options for solving the problem. How would you allocate the money? Place $ amounts on one or more option to indicate how you would spend this money (it can all go to one option or could be split among several options):

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| **\_\_\_\_\_\_ Status quo: gasoline and diesel are dominant** (corn ethanol is primary biofuel, biofuels are supposed to increase in volume over the next 20 years)**\_\_\_\_\_\_ Support second generation biofuels (corn stover, sorghum, switchgrass etc)** (by increasing federal government spending on research and development or subsidies for these fuels)**\_\_\_\_\_\_ Promote and subsidize electric cars and renewable energy** (homes and business would produce their own solar or wind energy to power vehicles) **\_\_\_\_\_\_ Municipal solid waste to fuel** (research and development money to develop turning garbage into fuel)**\_\_\_\_\_\_ Educate and motivate to drive less and fly less** (Effective approaches and incentives need to be determined.) |

**9. Importance of issue -** Is this issue an important issue?

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| Rank the issue on a scale of 1 (not at all important) to 10 (one of the most important issues): \_\_\_\_\_\_\_\_\_\_\_Why? |

**10. Impact -** Is there anything you could do to impact this issue? What are some things you could do?

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**11. Your Actions -** Do you think your actions regarding this issue will make a difference? Why or why not?

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**After you have filled everything out in purple according to the instructions, save this document with your first and last name in the file extension, then upload this document to Canvas by Monday October 3rd at 10:00 p.m.**