

## BIOMED – Realistic Impact Rubric

Course: \_\_\_\_\_

Date: \_\_\_\_\_

Student(s): \_\_\_\_\_

	<b>3 - Excellent</b>	<b>2 - Good</b>	<b>1 - Adequate</b>	<b>0 - Inadequate</b>
For All Realistic Constraints:	<ul style="list-style-type: none"> <li>Analysis correctly reasons how the design is constrained and provides sufficient, in-depth discussion in a clear and easy to follow manner.</li> </ul>	<ul style="list-style-type: none"> <li>Analysis correctly reasons how the design is constrained but provides only a cursory discussion.</li> </ul>	<ul style="list-style-type: none"> <li>Analysis contains a mixture of correct and incorrect reasoning as to how the design is constrained.</li> </ul>	<ul style="list-style-type: none"> <li>Analysis incorrectly reasons how the design is constrained.</li> </ul>

Impact	Pertinent Questions	Applicable?	Score
Economic	<ul style="list-style-type: none"> <li>What are the development costs?</li> <li>What are the production costs?</li> <li>What are the operational costs?</li> </ul>	Yes   No	3   2   1   0
Environmental	<ul style="list-style-type: none"> <li>What valuable resources are being used?</li> <li>Is pollution being produced as a result of production and/or use of the product?</li> </ul>	Yes   No	3   2   1   0
Sustainability	<ul style="list-style-type: none"> <li>To what degree over time will the product be useful and viable?</li> <li>Can the resources associated with the product be used effectively in a sustainable economy?</li> </ul>	Yes   No	3   2   1   0
Manufacturability	<ul style="list-style-type: none"> <li>Can the product be built?</li> <li>How can the product be designed to eliminate manufacturing errors?</li> <li>How can the product be designed to minimize manufacturing costs?</li> </ul>	Yes   No	3   2   1   0
Ethical	<ul style="list-style-type: none"> <li>Are there any foreseen potential conflicts with a profession's Code of Ethics arising from the development or use of the product?</li> </ul>	Yes   No	3   2   1   0
Health and Safety	<ul style="list-style-type: none"> <li>Are there any laws that determine how safe this product has to be?</li> <li>Are there related ethical issues?</li> <li>Are there relevant health effects that are affected by this product?</li> </ul>	Yes   No	3   2   1   0
Social	<ul style="list-style-type: none"> <li>What anticipated impacts will the product have within a community?</li> </ul>	Yes   No	3   2   1   0
Political	<ul style="list-style-type: none"> <li>Is the project being conducted for a governmental entity?</li> <li>Is the project being regulated, or being proposed for regulation, by a governmental entity?</li> </ul>	Yes   No	3   2   1   0

**Total Possible Points = 24**

Comments:

Evaluator Signature: \_\_\_\_\_