

**CSCI E97**  
**Grade Sheet for Assignment 5**

Student \_\_\_\_\_ Graded by \_\_\_\_\_  
Grade: /45 + /5 => /50

**Design Document (45 points)**

<p>The design document (in PDF format)</p> <ul style="list-style-type: none"> <li>• Provides a <b>clear overview of the problem</b></li> <li>• Presents a short description of the <b>organization of the rest of the document</b></li> <li>• Provides an <b>overview of the requirements</b></li> </ul> <p><b>Use case diagram</b></p> <ul style="list-style-type: none"> <li>• With notes describing the actors and use cases</li> </ul>	/5
<p><b>Module component diagram</b></p> <p>Provides a module component diagram of services with descriptive text. Shows inter module dependencies.</p>	/5
<p><b>Class diagram</b></p> <ul style="list-style-type: none"> <li>• For each service: <ul style="list-style-type: none"> <li>○ Asteroid Inventory</li> <li>○ Spacecraft Management</li> <li>○ Mission Management</li> </ul> </li> <li>• Provides a clear model of the classes.</li> <li>• The diagram should show all dependencies and associations as well as inheritance relationships.</li> <li>• For each class, define attributes, associations, and methods</li> <li>• Cardinality of associations are specified</li> </ul>	/5
<p><b>Class dictionary</b></p> <ul style="list-style-type: none"> <li>• For each service: <ul style="list-style-type: none"> <li>○ Asteroid Inventory</li> <li>○ Spacecraft Management</li> <li>○ Mission Management</li> </ul> </li> <li>• Provides details on classes, properties, associations and methods, including type information and descriptions.</li> </ul>	/5

<ul style="list-style-type: none"> <li>Provides sufficient detail about how to implement the classes.</li> </ul>	
<b>Sequence diagrams</b> <ul style="list-style-type: none"> <li>Message flow for receiving status message from a spacecraft where spacecraft has discovered water on target asteroid</li> <li>Message flow for receiving a status message where the spacecraft has completed its mission</li> <li>Message flow for provisioning a new mission</li> </ul>	/5
<b>Activity diagram</b> <ul style="list-style-type: none"> <li>Provides a clear overview of the activities to provision a new mission.</li> </ul>	/5
<b>User interfaces</b> are defined with wire frames. Interaction with service interfaces is defined.	/5
<p>The design document makes it clear how the <b>design meets the requirements</b>. (requirements should be referenced from implementation section to help clarify how the design addresses requirements)</p> <p><b>Design patterns</b> are included in the design and their use is highlighted.</p>	/5
<p>General quality of document (clarity of design, completeness, readability)</p> <p><b>Includes sections on Testing and Risk.</b></p>	/5
Other comments	
<b>Grade</b>	/45

**Results document (5 points)**

<p>Document (in pdf format) describing your results</p> <ul style="list-style-type: none"><li>• Comments from peer design review</li><li>• What design patterns did you apply in this design?</li><li>• Did the modular approach to the design help?</li><li>• Did you find that you needed to go back and update modules to support modules designed later?</li><li>• Did the design review help improve your design?</li><li>• Did the reuse of the Authentication Service help or hinder your design?</li><li>• Do you think you could implement this design?</li></ul>	/5
<b>Grade</b>	/5