

Senior Project Evaluation Rubric:

In the course of the senior design project students will be evaluated on their ability to:	<u>Exemplary</u>	<u>Proficient</u>	<u>Fair</u>	<u>Poor</u>
Identify and analyze the technical challenges posed by a significant research or implementation project.	The student is able to define and articulate a project topic and present an analysis which correctly identifies all major technical hurdles associated with carrying the project through to completion. The technical analysis clearly justifies the conclusions drawn and/or design choices made.	The student is able to define and articulate a project topic and present an analysis which correctly identifies most of the major technical hurdles associated with carrying the project through to completion. The technical analysis clearly justifies most of the relevant conclusions and/or design choices.	Student is able to define and articulate a project topic and present an analysis which correctly identifies some of the major technical hurdles associated with carrying the project through to completion. The technical analysis justifies some but not all of the conclusions drawn and/or design choices made.	Student is able to define and articulate a project topic but the analysis contains serious flaws. The technical analysis does not clearly justify the conclusions drawn and/or design choices made.
Identify and exploit technical information relevant to the project.	Student correctly identifies all major sources of relevant work both in industry and the academy. Student demonstrates a thorough understanding of the related art and is able to correctly place her work in context by comparing and contrasting her efforts to prior art.	Student correctly identifies most major sources of relevant work both in industry and the academy. Student demonstrates a good understanding of the related art and is able to correctly discuss other related work in the context of her own project.	Student correctly identifies some of the major sources of relevant work both in industry and the academy. Student demonstrates some understanding of the related art but does not fully appreciate where her project stands in relation to other efforts.	It appears as though the student spent ten minutes on a search engine. The student has not clearly demonstrated that he appreciates the technical context of the project.
Apply the knowledge gained through the course of study to address the technical challenges posed by the project.	Student employs appropriate analytical tools and/or software engineering techniques acquired in his course of study to the project at hand. The student clearly demonstrates mastery of several areas of the curriculum and is able to propose innovative solutions to the technical challenges posed by the project	Student employs appropriate analytical tools and/or software engineering techniques acquired in his course of study to the project at hand. The student clearly demonstrates mastery of many areas of the curriculum and is able to successfully complete the proposed project	Student employs appropriate analytical tools and/or software engineering techniques acquired in his course of study to the project at hand. The student demonstrates adequate command of some areas of the curriculum and is able to make significant progress towards addressing the technical challenges of the project	Student does not make use of analytical tools and/or software engineering techniques relevant to the project. The student does not demonstrate requisite command of the material covered in the curriculum.

<p>Effectively communicate technical information in both written and oral form:</p>	<p>Please refer to additional rubric specific to “TECHNICAL COMMUNICATION”</p>			
<p>Employ good project management skills:</p>	<p>Student correctly anticipates the technical and logistic challenges of the project. All required resources (technical skills, tools, data sets) are clearly identified and appropriate arrangements are made to secure them. Project objectives are reasonable and project milestones are well thought out. Student demonstrates good time management skills, works consistently and is able to stay on schedule.</p>	<p>Student correctly anticipates most of the technical and logistic challenges of the project. Most required resources are clearly identified and appropriate arrangements are made to secure them. Project objectives are mostly reasonable and project milestones are well thought out. Student demonstrates adequate time management skills and is able to stay on schedule or re-plan effectively in the face of unforeseen problems.</p>	<p>Student anticipates some of the technical and logistic challenges of the project. Some of the required resources are identified and appropriate arrangements are made to secure them. Project objectives are not clearly tied to milestones and the project schedule is not fully fleshed out. Student faces challenges staying on schedule.</p>	<p>Student fails to anticipate major technical and logistic challenges of the project. No clear plan for acquiring required resources. Project objectives are not reflected in milestones and the project schedule is not fully fleshed out. Student is unable to sustain progress towards project objectives.</p>