

EVALUATION RUBRIC FOR ECE 322 PROJECT SPECIFICATION

SECTIONS	LEVEL OF ACHIEVEMENT		
	5-4	3-2	1-0
1. BLOCK DIAGRAM SCORE: _____	<ul style="list-style-type: none"> Diagram includes all part of the design and cannot be decomposed further All signals (internal and external) and connections are defined (mechanical and electrical) on the diagram Diagrams are drawn using a CAD tool 	<ul style="list-style-type: none"> Diagram covers adequate scope for beginning design Major signals (internal or external) and connections are defined on the diagram Diagrams are drawn using a CAD tool 	<ul style="list-style-type: none"> Block diagram is missing, unintelligible, or inadequately decomposed. Major interfaces are missing Diagrams are not drawn using a CAD tool
2. INTERFACE DEFINITION SCORE: _____	<ul style="list-style-type: none"> All external and internal interfaces labeled in the block diagram are included Interfaces are completely defined. Interfaces include mechanical and electrical types Interface characteristics are in a tabular format 	<ul style="list-style-type: none"> Most interfaces labeled in the block diagram are included Interfaces are adequately defined Interfaces include mechanical and electrical types. Interface characteristics are in a tabular format. 	<ul style="list-style-type: none"> Major interfaces labeled in the block diagram are missing from interface definition. Interfaces are not adequately defined. Interface characteristics are not in a tabular format.
3. SCHEMATIC SCORE: _____	<ul style="list-style-type: none"> Schematics are drawn using a CAD tool All circuit elements are included and connections are drawn correctly All circuit elements labeled with reference and value All connections and isolations are obvious by using dots or skippers 	<ul style="list-style-type: none"> Schematics are drawn using a CAD tool Major circuit elements are included and connections are drawn correctly Some circuit elements labeled with name and value Most connections and isolations are obvious by using dots or skippers 	<ul style="list-style-type: none"> Schematics are not drawn using a CAD tool Critical mistakes in circuit element and connections drawn Circuit elements are not labeled with name and value Connections and isolations are ambiguous, no dots or skippers are used
4. THEORY OF OPERATION SCORE: _____	<ul style="list-style-type: none"> Concisely written description completely covers the operation of the circuit Explanation succinctly describes why the particular circuit topology/architecture is chosen Derivations of all major circuit components and values are shown, e.g. equations, estimations Additional considerations when circuit does not operate, e.g. high temperatures, interferences 	<ul style="list-style-type: none"> Description somewhat ambiguous but adequately covers the general operation of the circuit Explanation glosses over why the particular circuit topology/architecture is chosen Derivations of a few circuit components and values are shown Additional considerations are not included 	<ul style="list-style-type: none"> Description is ambiguous, insufficient, confusing, and does not cover the general operation of the circuit No explanation as to why the particular circuit topology/architecture is chosen No derivation of circuit components and values Additional considerations are not included