**ECE 3544: Digital Design I**

**Project 1 (Part B): Simulation in the ModelSim Environment; Continuous Assignment Models**

Student Name:

Honor Code Pledge: I have neither given nor received unauthorized assistance on this assignment.

**Grading: The design project will be graded on a 100 point basis, as shown below:**

Manner of Presentation (30 points)

Completed cover sheet included with report (5 points)

Organization: Clear, concise presentation of content; Use of appropriate, well-organized sections (15 points)

Mechanics: Spelling and grammar (10 points)

Technical Merit (70 points)

General discussion: *Did you describe the objectives in your own words? Did you address the questions posed in the project specification? Did you discuss your conclusions and the lessons you learned from the assignment?* (10 points)

Design discussion: *What was your approach to deriving the circuit you had to design?* *How does the design process that resulted in your continuous assignment model compare to the one you used to obtain a structural model that used primitive gates? How applicable is the design process you followed in this assignment to larger and more general designs?* (10 points)

Testing discussion: *What was your approach to formulating your test benches, and how did you verify the correctness of your design and implementation?* (10 points)

Supporting figures (20 points total)

* *Correct waveforms showing simulation of both decoder modules.* (5 points)
* *Correct waveforms showing correct operation of your design.* (15 points)

Supporting files: *Do the submitted files produce the correct response?* (20 points)

**Project Grade**