CS 411 - Artificial Intelligence I
Fall 2018
Assignment 12 - Graduate Section
Department of Computer Science, University of Illinois at Chicago

Total Points: 50

Write a program to define an MDP problem for a generic grid world (e.g. figure 17.1 of AIMA textbook page 646) and use **value iteration** to print the values of states in each iteration. After termination of the value iteration, the final policy should be printed.

Next, implement a **modified policy iteration** to calculate and print the optimal policy.

The description of MDP (T, R, gamma, and epsilon) should be loaded from the text file as input. You can use the sample input format included with the assignment or use your own. Also, include a write-up describing the format of the input file and how to run the program.

Programming Language
Java, Python or c++

Grading Rubric
Parse input text into MDP class => 5
Value Iteration => 15
Print values of states in each iteration=> 5
Policy Iteration => 15
Print final policy => 5
Writeup => 5