

Syllabus for USC CSCI 561 (4 units)

# Foundations of Artificial Intelligence

## Spring 2017

### Overview

This course provides an overview of the field of Artificial Intelligence: foundations of symbolic intelligent systems, search, logic, knowledge representation, planning, learning. The syllabus is subject to change at the discretion of the course professors.

### Prerequisite

Recommended preparation: good programming and algorithm analysis skills.

### Lectures

5:00pm - 7:40pm on Tuesdays in SGM 124

### Discussions

Wednesday	10:00-10:50am	VHE-214
Wednesday	11:00-11:50am	VHE-214
Wednesday	3:00-3:50pm	THH-B9
Wednesday	4:00-4:50pm	THH-B9
Thursday	11:00-11:50am	THH-B9
Thursday	3:00-3:50pm	VKC-105
Thursday	4:00-4:50pm	VKC-109
Friday	11:00-11:50am	KAP-145
Friday	12:00-12:50pm	OHE-100B
Friday	12:00-12:50pm	DEN@Viterbi
Friday	2:00-2:50pm	KAP-148

### Exams

5:00pm - 6:20pm on February 14, March 21, and April 25.

### Textbook

Stuart Russell and Peter Norvig, *Artificial Intelligence: A Modern Approach*, 3rd Edition

See also <http://aima.cs.berkeley.edu/> for additional resources including

Code <http://aima.cs.berkeley.edu/code.html>

Demos <http://aima.cs.berkeley.edu/demos.html>

## **Professors**

Ning Wang, PhD ([nwang@ict.usc.edu](mailto:nwang@ict.usc.edu))

David V. Pynadath, PhD ([pynadath@usc.edu](mailto:pynadath@usc.edu))

Sheila Tejada, PhD (discussions) ([stejada@usc.edu](mailto:stejada@usc.edu))

## **Teaching Assistants**

Luenin Barrios - [lueninba@usc.edu](mailto:lueninba@usc.edu)

Chi-An Chen - [chianc@usc.edu](mailto:chianc@usc.edu)

Omid Davtalab - [davtalab@usc.edu](mailto:davtalab@usc.edu)

Bojun Huang - [bojunhua@usc.edu](mailto:bojunhua@usc.edu)

Ali Jalal-Kamali - [jalalkam@usc.edu](mailto:jalalkam@usc.edu)

Kan Qi - [kqi@usc.edu](mailto:kqi@usc.edu)

Hao Wu - [hwu732@usc.edu](mailto:hwu732@usc.edu)

## **Office Hours**

Ning Wang, David V. Pynadath:

3:00pm - 4:00pm on Tuesdays before lecture (SAL 322).

Sheila Tejada:

Thursday 1:00 – 3:00pm & by appointment (SAL 316)

TAs' office hours:

Monday 3pm – 5pm (Hao Wu, SAL Lab)

Monday 10:30am – 12:30pm (Bojun Huang, SAL Lab)

Wednesday 11:00am – 1:00pm (Chi-An Chen, SAL Lab)

Friday 8:00am – 10:00am (Omid Davtalab, SAL Lab)

Skype DEN Office hour (Kan Qi, time TBD)

## **Grading**

Grades for this course will be based on performance on homework and exams.

Homework 1: 5%

Homework 2: 10%

Homework 3: 10%

Exam 1: 25%

Exam 2: 25%

Exam 3: 25%

Based on previous semesters, we expect that letter grades for this course will follow this scale. The grading scheme may change. Final letter grades for this course are entirely at the discretion of the course professors.

85% or higher : A

80-85% : A-

75-80% : B+

70-75% : B

65-70 : B-

60-65% : C+

55-60% : C

50-55% : C-

## **Reading Assignments**

Readings from the book contain theoretical concepts, examples and usable code that will be very helpful for all the work in this course.

## **Homework Assignments**

There will be three homework assignments, which may consist of programming problems, open-ended essay questions, and questions representative of those that will appear on course exams. Programming problems may require the use of a specific programming language.

## **Course Exams**

There will be three in-class exams for this course, covering material presented in course lectures, discussion sections, homework assignments, and assigned readings.

## **Learning Management System**

This course will make extensive use of the online learning management system, DEN@Viterbi (<https://courses.uscden.net/d2l/login>)

## **Statement for Students with Disabilities**

Any student requesting academic accommodations based on a disability is required to register with Disability Services and Programs (DSP) each semester. A letter of verification for approved accommodations can be obtained from DSP. Please be sure the letter is delivered to me or the TA as early in the semester as possible. DSP is located in STU 301 and is open 8:30 a.m. – 5:00 p.m., Monday through Friday. The phone number for DSP is (213) 740-0776.

## **Statement on Academic Integrity**

USC seeks to maintain an optimal learning environment. General principles of academic honesty include the concept of respect for the intellectual property of others, the expectation that individual work will be submitted unless otherwise allowed by an instructor, and the obligations both to protect one's own academic work from misuse by others as well as to avoid using another's work as one's own. All students are expected to understand and abide by these principles. The Student Guidebook, SCampus (<http://scampus.usc.edu/>), contains the University Student Conduct Code (see University Governance, Section 11.00), while the recommended sanctions are located in Appendix A.

## **Emergency Preparedness/Course Continuity in a Crisis**

In case of a declared emergency if travel to campus is not feasible, USC executive leadership will announce an electronic way for instructors to teach students in their residence halls or homes using a combination of DEN@USC, teleconferencing, and other technologies. See the USC website (<http://preparedness.usc.edu/>) on Campus Safety and Emergency Preparedness.