

CSCI 580: Artificial Intelligence

Abbreviated Syllabus for Fall Semester 2010

Visit <http://www.ecst.csuchico.edu/~juliano/csci580> for additional detail.

Prerequisites

- CSCI 311, *Algorithms and Data Structures*, with a grade of C- or higher
- Senior-level standing recommended

Description

3 units. An introduction to the basic principles, techniques, and applications of Artificial Intelligence. Coverage includes knowledge representation, logic, inference,

problem solving, search algorithms, game theory, perception, learning, planning, and agent design. Students will program with AI language tools. Additional areas may include expert systems, machine learning, natural language processing, and computer vision.

This semester, students will be expected to program in multiple languages including Prolog, Python, and C/C++. Sample applications will be in data mining and robotics.

Class #	Section	Act	Days	Time	Room	Instructor(s)
3383	CSCI 580-01	DIS	M	500-750pm	OCNL 121/246	Dr. J Juliano@csuChico.edu

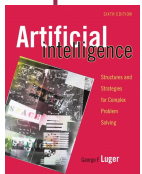
Instructor Information

Dr. Juliano (a.k.a. Dr. J)
<http://www.ecst.csuchico.edu/~juliano>

Office Hours: **OCNL 415** (days/times published online)
Tel 530 898-4619 / 6442 (dept office)
Fax 530 898-5995
Appointments and walk-ins welcome.

2. Students are expected to familiarize themselves with Dr. J's general policies and expectations as detailed online at [/~juliano/Teaching/Policies.html](http://www.ecst.csuchico.edu/~juliano/Teaching/Policies.html) – particularly those dealing with *Academic Integrity*.

Required Textbook



Artificial Intelligence: Structures & Strategies for Complex Problem Solving, 6/e
George F. Luger, 2009.
Pearson Education, Boston, Massachusetts.
ISBN: 978-0321545893

Grade Evaluation

Theoretical Component (50%)	
40%	Midterm , Mon, Oct 11, 5:00–6:15 pm
60%	Final Exam , Mon, Dec 13, 6:00–7:50 pm
Practical Component (50%)	
100%	Homework (Individual; presented/defended orally in class) and/or Projects (Individual or group; presented/defended orally in class and supported by formal documentation)

See the on-line syllabus for details of final grade calculation.

Additional Requirements

1. Students are expected to open and maintain a *Chico State Connection* (CSC) Portal (see <http://portal.csuchico.edu>) account in order to access up-to-date *WebCT/Vista* tools that include an on-line calendar of events, access to the class gradebook, etc.

Additional Information

<http://www.ecst.csuchico.edu/~juliano/csci580/>
<http://www.ecst.csuchico.edu/~juliano/AI/>
<http://vista.csuchico.edu>