

CSCI 681 (CSCI 323): *Theory of Artificial Intelligence* Abbreviated Syllabus for Spring Semester 2005

Visit <http://www.ecst.csuchico.edu/~juliano/csci323> for additional detail.

Prerequisites

- CSCI 584 (CSCI 223), *Artificial Intelligence*
- *Classified* graduate-level standing or permission of instructor

Description

An in-depth study of current techniques, applications, and issues in artificial intelligence. Suitable topics include advanced knowledge representation; natural language understanding; machine learning; theory of functional programming; cognitive science; neural networks; philosophy and artificial intelligence.

TRACS Call #	Section	Act	Days	Time	Room	Instructor
14413	CSCI 323-01	DIS	M W	9:00 am – 10:50 am 9:00 am – 9:50 am	OCNL 438	Dr. J Juliano@csuChico.edu

Instructor Information

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

Office Hours: T.B.A.

OCNL 222
Tel 530 898-4619 / 6442 (dept office)
Fax 530 898-5995
Appointments and walk-ins welcome.

Required Textbook

Artificial Intelligence: A Modern Approach, 2/e.
Stuart Russell and Peter Norvig, 2003.
Prentice Hall, Upper Saddle River, NJ.
ISBN 0-13-790395-2.

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 on-line calendar of events, current scores, discussion board, etc.
2. Students are expected to read the material in advance and to lead discussions of various topics covered. Students should be familiar with uninformed search algorithms (depth-first and breadth-

first methods), discrete probability (random variables, expectation, simple counting), propositional logic (boolean algebra), basic algorithms and data structures, basic computational complexity, and basic calculus.

Grade Evaluation

Theoretical Component (50%)	
40%	Midterm, Mon, March 7, 9:00 am – 10:50 am
60%	Finals, Mon, May 16, 10:00 am – 11:50 am
Practical Component (50%)	
100%	Participation in class discussions <ul style="list-style-type: none"> • may include at least one research paper • possible peer review/evaluation of research papers • possible written homework

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

Additional Information

[http://www.ecst.csuchico.edu/~juliano/csci323/
/~juliano/csci323/Slides/
/~juliano/AI/](http://www.ecst.csuchico.edu/~juliano/csci323/~juliano/csci323/Slides/~juliano/AI/)
<http://portal.csuchico.edu>