


ORIGINATOR'S SECTION:	
1. College: <input type="checkbox"/> CHABSS <input type="checkbox"/> CoBA <input type="checkbox"/> CoEHHS <input checked="" type="checkbox"/> CSM	Desired Term and Year of Implementation (e.g., Fall 2008): Spring 2017
2. Current Course abbreviation and Number: <u>CS471 (3) Introduction to Artificial Intelligence</u>	

TYPE OF CHANGE(S). Check ☒ all that apply.

Course Number Change	<input type="checkbox"/>	Delete Prerequisite	<input type="checkbox"/>	Other Prerequisite Change	<input checked="" type="checkbox"/>
Course Title Change	<input type="checkbox"/>	Add Corequisite	<input type="checkbox"/>	Grading Method Change	<input type="checkbox"/>
Unit Value Change	<input type="checkbox"/>	Delete Corequisite	<input type="checkbox"/>	Mode of Instruction Change (C/S Number)	<input type="checkbox"/>
Description Change	<input type="checkbox"/>	Add Consent for Enrollment	<input type="checkbox"/>	Consider for G.E. If yes, also fill out appropriate GE form.	<input type="checkbox"/>
Add Prerequisite	<input type="checkbox"/>	Delete Consent for Enrollment	<input type="checkbox"/>	Cross-list	<input type="checkbox"/>

Information in this section– both current and new – is required only for items checked (☒) above.**NEW INFORMATION:****CURRENT INFORMATION:**

3. Title:	Course abbreviation and Number:
4. Abbreviated Title for Banner (no more than 25 characters):	Title: (Titles using jargon, slang, copyrighted names, trade names, or any non-essential punctuation may not be used.)
5. Number of Units:	Abbreviated Title for PeopleSoft: (no more than 25 characters, including spaces)
6. Catalog Description:	Number of Units:
	Catalog Description: (Not to exceed 80 words; language should conform to catalog copy. Please consult the catalog for models of style and format; include all necessary information regarding consent for enrollment, pre- and/or corequisites, repeated enrollment, crosslisting, as detailed below. Such information does <u>not</u> count toward the 80-word limit.)

7. Mode of Instruction* (See pages 17-23 at <http://www.calstate.edu/cim/data-elem-dic/APDB-Transaction-DED-SectionV.pdf> for definitions of the Course Classification Numbers)

Type of Instruction	Number of Credit Units	Instructional Mode (Course Classification Number)
Lecture		
Activity		
Lab		

8. Grading Method:*

- ☐ Normal (N) (Allows Letter Grade +/-, and Credit/No Credit)
☐ Normal Plus Report-in-Progress (NP) (Allows Letter Grade +/-, Credit/No Credit, and Report-in-Progress)
☐ Credit/No Credit Only (C)
☐ Credit/No Credit or Report-in-Progress Only (CP)

Grading Method:*

- ☐ Normal (N) (Allows Letter Grade +/-, and Credit/No Credit)
☐ Normal Plus Report-in-Progress (NP) (Allows Letter Grade +/-, Credit/No Credit, and Report-in-Progress)
☐ Credit/No Credit Only (C)
☐ Credit/No Credit or Report-in-Progress Only (CP)

9. If the NP or CP grading system was selected, please explain the need for this grade option.

*If Originator is uncertain of this entry, please consult with Program Director/Chair.

CURRENT INFORMATION:

10. Course Requires Consent for Enrollment? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Faculty <input type="checkbox"/> Credential Analyst <input type="checkbox"/> Dean <input type="checkbox"/> Program/Department/Director/Chair
11. Course Can be Taken for Credit More than Once? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, how many times (including first offering)
12. Is Course Cross Listed: <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, indicate which course
13. Prerequisite(s): CS311
14. Corequisite(s):
15. Documentation attached: <input type="checkbox"/> Syllabus <input checked="" type="checkbox"/> Detailed Course Outline

NEW INFORMATION:

Course Requires Consent for Enrollment? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Faculty <input type="checkbox"/> Credential Analyst <input type="checkbox"/> Dean <input type="checkbox"/> Program/Department/Director/Chair
Course Can be Taken for Credit More than Once? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, how many times (including first offering)
Is Course Cross-listed? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, indicate which course and check "yes" in item #17 below.
Prerequisite(s): CS311. <i>May not be taken by students who have received credit for CS 571.</i>
Corequisite(s):

PROGRAM DIRECTOR/CHAIR - COLLEGE CURRICULUM COMMITTEE SECTION:*(Mandatory information – all items in this section must be completed.)*

16. Does this course fulfill a requirement for any major (i.e. core course or elective for a major, majors in other departments, minors in other departments)? ☒ Yes ☐ No

If yes, please specify:

Computer Science elective for Masters and Bachelors students

17. Does this course change impact other discipline(s)? *(If there is any uncertainty as to whether a particular discipline is affected, check "yes" and obtain signature.)* Check "yes" if the course is cross-listed. ☐ Yes ☒ No

If yes, obtain signature(s). Any objections should be stated in writing and attached to this form.

Discipline _____	Signature _____	Date _____	Support _____	Oppose _____
Discipline _____	Signature _____	Date _____	Support _____	Oppose _____


18. Reason(s) for changing this course:

CS471 is a subset of CS571 Artificial Intelligence in terms of the depth at which the topics are covered. Therefore, students should not take CS471 after taking CS571. The topics not covered in CS471 are highlighted in the course outline of CS571 (attached).

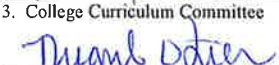
SIGNATURES : (COLLEGE LEVEL) :

Rika Yoshii 11-23-16

1. Originator (Please Print) _____ Date _____

2. Program Director/Chair  _____ Date 12/14/16

3. College Curriculum Committee _____ Date _____

4. College Dean (or Designee)  _____ Date 12/14/16

(UNIVERSITY LEVEL)

5. UCC Committee Chair _____ Date _____

6. Vice President for Academic Affairs (or Designee) _____ Date _____

7. President (or Designee) _____ Date _____

CS471 INTRODUCTION TO ARTIFICIAL INTELLIGENCE
Elective for CSIS Majors

Catalog Course Description: An introduction to the objectives and techniques used by practitioners and researchers in artificial intelligence. Explores a number of aspects of computational models of intelligence including problem solving (uninformed and informed strategies), game playing, knowledge representation, reasoning, planning, natural language processing (text and speech), and learning.

Textbook Required: Russell and Norvig. *Artificial Intelligence: A Modern Approach*. Third Edition. Pearson/Prentice-Hall, 2010.

Learning Outcomes: Upon completion of the course students should be able to:

1. Explain and trace various search algorithms.
2. Explain and trace other AI algorithms.
3. Explain basic knowledge representation techniques.
4. Explain and trace machine learning techniques.
5. Explain approaches to natural language processing.
6. Write programs that implement artificial intelligence algorithms.

Topics and the Order:

Topic	Readings in Book
Introduction	Chap. 1
Intelligent agents	Chap. 2
Environments	Chap. 2
Problem Solving Agents	Chap. 3: 3.1-3.3
Uninformed Search Strategies	Chap. 3: 3.4
Informed Search Strategies	Chap. 3: 3.5-3.6
Adversarial Search	Chap. 5
Constraint Satisfaction Problems	Chap. 6
Classical Planning	Chap. 10:10.1-10.3
Knowledge-Based Agents & Knowledge Representation	Chap. 7: 7.1-7.2
Learning From Examples	Chap. 18:18.9, 18.11
Natural Language Processing	Chap. 22
Natural Language for Communication	Chap. 23
Final Exam	