

CMPS 580 Fall 2017

ARTIFICIAL INTELLIGENCE

Instructor	Osman Kandara (aka Dr. OK)
Office	142 T. T. Allain
Office Hours	TTh: 3:30pm - 5:00pm & 6:30pm - 7:30pm (as needed) MW: 2:00pm - 2:30pm Other time by appointment!
Contact	kandara@cmps.subr.edu Office: 771 - 3556 / Front Office: 771-2060 Cell: 200 - 4072 (NO CALLS AFTER 7:00PM PLEASE!)
Time/Location	5:00pm-6:20pm, TTh / Henry Thurman Jr. Hall, Room 209
Text Book	TBA

Course Topics

In this course, we review of attempts to initiate human and animal intelligence and of commercial spinoffs there from. Topics come from such diverse areas as machine perception, game-playing, autonomous robotics and knowledge engineering.

Goals/Student Learning Outcome

Goals:

We live in an 'smart apps/devices' age. As a result of this, smart apps/devices have become as part of our daily base live. A smart app/device is nothing but an artificially intelligent thing created/designed by intelligent 'us'. In order to create/design an artificially intelligent thing which is meant to be the replica of an intelligent being, we first have to understand the components of intelligence. In other words, we have to study to answer these types of questions: what makes us as intelligent? What are the functionalities of an intelligent being? How do we define something as intelligent? What are the characteristics of intelligence? How do we mimic those characteristics/functionalities? And so son.

Learning Outcome:

After successfully completing this course, students will be able to:

- understand the concept of being intelligent;
- know the characteristics of an intelligent being;
- develop/study algorithms mimicking intelligent behaviors;
- know real life application areas such as in robotics, health, security, etc.

Grading

Grading Scale	A – 90% to 100% B – 80% to 89% C – 70% to 79% D – 60% to 69% F – <60%
Assignments/projects	30%
Midterm	30%
Attendance, participation, quizzes, etc.	10%
Final	30%

Exam Schedule

Midterm – During the midterm week.

Final – As scheduled by the department.

All exams are comprehensive and/or they can be in a form of class presentation or take-home focusing on graduate level research activities.

Guidelines

1. Due for an assignment is the next class day unless otherwise said.
2. NO due extension.
3. NO sharing (*Punished severely!*)
Copying is considered scholastic dishonesty and is covered in University policy. Cheating will be prosecuted both in terms of grading and University sanctions.
4. NO late submission (*A late submission is worth ZERO!*)
5. NO curving.
6. NO Phones of any kind during class time.
7. NO makeup exam. At the instructor's discretion, the student may be allowed to use the final exam or the other one to cover the missed one at a certain percentage.
8. Reading the relevant chapters in the text book and reviving the class notes for the current topic being discussed before and after the class is expected.
9. *At any time without any advance notice, a short pop-up quiz should be expected. Those quizzes may also be considered as assignments or bonus points to the exams.*
10. At any given time without any advance notice, a new homework/programming assignment/project might be given in the class or through e-mails. Even if you have to miss the class, you are still responsible for it. *Instructor may choose certain assignments or certain questions in a particular assignment to grade instead of all.*
11. For any given assignment/project, it is your responsibility to clarify ambiguous parts. Sometimes, certain things might be left questionable by intention to challenge you to think and to ask questions about them.
12. **IT IS YOUR RESPONSIBILITY TO KEEP ALL THE GRADED MATERIALS GIVEN BACK TO YOU IN THEIR ORIGINAL FORMS UNTIL THE SEMESTER IS OVER AND TO PROVIDE WHEN ASKED.**
13. All the graded materials will be discarded if they are not picked up within 3 days.
14. For all the questions regarding a particular assignment grade you got, you should contact to the instructor. It has to be resolved within 5 business days.
15. Graduate students might get more assignments and/or different ones
16. Any failure of the any equipment that you use to do/submit/print the assignment within the last 48 hours is NOT an acceptable excuse. You had better expect such a bad luck all the time and you should start right away.
17. The programming/assignment/project guidelines that will be given to you should be observed very seriously. Even if your work produces the right output, you will lose 30 to 50 percent of the total grade if the guidelines are not followed.
18. Students with documented disabilities who believe that they may need accommodations in this class are encouraged to contact the Disability Services Coordinator in the Office of Disability Services, 246 A.C. Blanks Hall, [225-771-3546](tel:225-771-3546) (Voice), [225-771-3949](tel:225-771-3949) (Fax), as soon as possible to ensure that such accommodations are implemented in a timely fashion. Students who need accommodations must be registered with the Office of Disability Services. Students are responsible for informing the instructor of any instructional accommodations and/or special learning needs at the beginning of the semester. All discussions will remain confidential.