

## CSI 460 - Artificial Intelligence

**Instructor:** Dr. Shaun D. Ramsey   **Email:** sramsey2@washcoll.edu  
**Phone:** (410)810-7485               **Office:** DUNN N102

**Office Hours:**                               DUNN N102 M 10:30-11:20, R 1:00:-2:15  
and F 10:30-11:20

**Text:** *Artificial Intelligence* by Russell and Norvig

**Overview:** Artificial Intelligence involves learning how to solve a variety of problems using computers. Topics include the philosophy of AI, state-space search, search strategies, analysis of algorithms, heuristics, mini-max, a-star and more.

**Exams:** Tentative exam dates are: 10/7 and 11/11. There is no final exam. An absence on the day of the exam will result in a grade of 0. Except in cases of very extreme emergency, exams must be taken on the day the exam is given. Before a make-up test is scheduled, documentation of the extreme emergency must be given. Make-up exams for tests missed due to an extreme emergency will be arranged for a time that is mutually convenient for the student and Dr. Ramsey.

**Attendance:** Attendance is mandatory in this course. On your fourth absence, you automatically fail the course. As a matter of courtesy, you are expected to notify Dr. Ramsey before class describing the reason of your absence. You must be present on the day of an exam or you will receive a 0.

There is no distinction between excused and unexcused absences. It is quite likely that I will email you to discuss the reasons you have missed the class, but it is ultimately your duty to keep track of your absences and to contact me. Missing a class may result in missed classwork and/or quizzes. There are no make-up quizzes or classwork. It is your responsibility to obtain assigned homework, announcements and class notes from a classmate.

**Grading:** This course is a writing course with two exams, two papers, regular writing assignments and other programming homework. These 6 pieces (2+2+1+1) will be weighted at 16% each. The last 4% of your grade will be based on participation. So come to class ready to be engaged! Programming assignments must be handed in on time and compile. Late home-

work (and programming that does not compile) will receive a grade of 0. Homework is due by the beginning of class on the day it is due. Do not 'touch' or modify your files on the server after handing in the assignment as this will change the time stamp. If you miss an assignment, you should always make up the work for consideration, review and mark up.

**Academic Honesty:** You are always subject to the Honor Code of Washington College. Always sign the honor code on materials that you hand in to me. All work must be your own.

**Accommodations:** If you have an accommodation that has been reported to the college, please let me know as soon as possible so I can work to meet your accommodation.

**Suggestions:** Get connected and involved. You may point out programming errors and discuss design with others, but all code must be of your own creation. Copying another students code will result in immediate failure of the course.

### Rough Outline

Week 1	AI/History
Week 2	Environments
Week 3	Agents
Week 4	State-Space, Successor Function
Week 5	Search Strategies
Week 6	Informed Search, Exam 1, Journals
Week 7	Local Search Algorithms
Week 8	CSPs, Rough Paper 1
Week 9	Mini-max Final Paper 1
Week 10	Evaluations, Heuristics
Week 11	Speaker, Exam 2, Journals
Week 12	Inferencing, Chaining,
Week 13	Knowledge Bases
Week 14	Mancala Rough Paper 2
Week 15	Paper 2, Journals