

CSCI-331 Intro to AI: Syllabus

Spring 2024

331 Catalog Description

An introduction to the theories and algorithms used to create artificial intelligence (AI) systems. Topics include search algorithms, logic, planning, machine learning, and applications from areas such as computer vision, robotics, and natural language processing. Programming assignments are an integral part of the course.

Prerequisites: (CSCI-261 or CSCI-264) and (MATH-251 or STAT-205) or equivalent courses.

Instructor Contact

Jansen Orfan

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Website: <http://www.cs.rit.edu/~jro>

Office Hours:

See <http://www.cs.rit.edu/~jro> for current hours.

Course Policies and General Information on Assignments

All work in this course is to be completed individually unless specified otherwise. You may discuss the homework and labs **in general** with your classmates, tutors, and the instructor but **you are not allowed to share answers, notes, or code**. Discussing specific implementation details/solutions/answers with anybody else (include with people not in the class) is not permitted until the late deadline has passed. After that deadline, you are encouraged to discuss the assignment with your peers, the instructor, and anybody else who will listen.

The use of generative AI (e.g. GPT or other LLMs) is prohibited and considered academically dishonest. Furthermore, you will likely spend more time trying to get it to work correctly than you would spend getting help in office hours.

Assignment grades can be disputed within one week after you grade is received (either through myCourses or Gradescope). Dispute the grade with the instructor, not the grader.

The department's [policy on academic honesty](#), will be enforced if necessary. Don't cheat!

Programming Assignments

Work will be submitted through Gradescope.

Unless stated otherwise, all assignments must be written in Python3.8+ or Java17+.

Programs must compile and run through the Gradescope environment. The environment will have libraries similar to those found on the CS Linux machines. **Make sure the libraries you are using are available!**

Assignments are evaluated primarily through testcases.

Partial credit will not be awarded for code alone. I.e. if it does not run then it does not matter how "close" it was to working.

You may submit multiple times but your last submission is the one that will be graded. This includes any late deductions.

Late policy: You may submit up to 72 hours late with the following penalty applied:

- ~~≤ 24h~~ 100% 5%

Written Homework

Written work will be submitted via myCourses.

If you scan any handwritten homework be sure it is legible! If and only if you have the time, I suggest learning [LaTeX](#) to properly render any complex math that Word and other text editors struggle with.

Late policy: You may submit up to 1 day late with a penalty scaling from 5-20%

Reading Quizzes

Quizzes can be found on myCourses under, "Quizzes"

Quizzes are not timed but there are due dates - typically a few hours before class.

Pay attention to the quiz detail page. Some quizzes can be taken multiple times with the highest score kept, others only allow one attempt.

Often quizzes are on reading material not yet covered in lecture.

Late policy: Quizzes will not be accepted late.

Exams

Unless otherwise stated, Exams are closed book, notes, device, etc.

Late policy: Exams cannot be made up.

Materials

Required

Artificial Intelligence: A Modern Approach, 4th edition, Russell & Norvig, Prentice Hall, 2021
9780134610993

Additional Resources

[Knowledge Representation and Reasoning - Brachman and Levesque](#) is a great text book on logic and available online through the library.

Instructor notes (if needed) will be handed out as specified in the course schedule.

[The Course Schedule](#), including information about reading and homework assignments, quizzes, exams, etc., will be linked from the course web page.

When available, slides and examples will be posted online.

Grading (331)

Component	Weight
Final Exam	25%
Midterm Exams	25%
Reading Homework	10%
Practical Homework	10%
Programming Labs	30%

Letter Grades

Letter grades for the course are based on the following scale.

Letter Grade	Minimum course average for this grade
A	93%
A-	90%
B+	87%
B	83%
B-	80%
C+	77%
C	73%
C-	70%
D	60%
F	(0%)

CS Common Course Policies Include:

Rescheduling an Exam

Exams cannot be made up except for real emergencies in which case proper documentation (like a doctor's note) will be required. If at all possible, you should contact me prior to the exam. Oversleeping, cars that don't start etc. do not constitute a valid excuse.

RIT's Academic Senate revised the Final Examination Policies on March 28, 2013. Please refer to the policies for related questions.

Course Withdrawal

During the add/drop period, you may drop this course and it will disappear from your transcript. After that time, you can only withdraw from the course; the course will appear on your transcript with a grade of W. See the institute's calendar regarding the add/drop period and latest withdrawal date.

Disability Services

RIT is committed to providing reasonable accommodations to students with disabilities. If you would like to request accommodations such as special seating or testing modifications due to a disability, please contact the Disability Services Office. It is located in the Student Alumni Union, Room 1150; the web site is www.rit.edu/dso. After you receive accommodation approval, it is imperative that you see me during office hours so that we can work out whatever arrangement is necessary.

Academic Integrity

The DCS Policy on Academic Honesty will be enforced.

You should only submit work that is completely your own. Failure to do so counts as academic dishonesty and so does being the source of such work. Submitting work that is in large part not completely your own work is a flagrant violation of basic ethical behavior and will be punished according to department policy.