New Jersey Institute of Technology

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CS 485: Selected Topics In CS

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Recommended Citation

IS-485 AI for Artificial Worlds Spring 2023

In person at GITC 3200

Lecture Day/Time: Wednesdays at 6pm.
Bring your own laptop

Instructor: Tomer Weiss, PhD | **Email**: tomer.weiss@njit.edu |

Virtual Office Hours: By appointment.

TA\Grader: TBA

OVERVIEW
Artificial worlds enables creators such as artists, programmers and scientists to realize their creative visions. This class is a seminar-oriented research course covering topics at the intersection of graphics, animation, and AI. This course will explore the recent research in AI, multi-agent simulation, artificial physics, content creation, including data-driven and deep learning methods.

COURSE STRUCTURE

BRING YOUR OWN COMPUTER, MOUSE, HEADPHONE, MICROPHONE, and WEBCAM to CLASS!!
Course is broken up into three sections: assignments, presentations, and project -- each focusing on refining your skills in artificial intelligence, visual programming and artificial worlds. Each section is oriented as a basis for the next one. Each week has three hours of class time. Instruction is accompanied by exercises to practice the new knowledge. Graded items include assignments, presentations, and projects, where the presentations and projects are due in class in form of a student presentation.

PEER MENTORING
Problem solving/troubleshooting/impediments: ask other students first, check out documentation and then ask the TA first, then ask the instructor. There will be technical and creative help forums on canvas, and students get credit by helping other students in those forums. Feel free to email students for help in the class as well or meet outside of class.

ACADEMIC INTEGRITY
The NJIT Honor Code will always be upheld. The work you do and submit is expected to

be the result of your effort only. CREDIT ALL WORK YOU USED FROM ANOTHER SOURCE.

Academic Integrity is the cornerstone of higher education and is central to the ideals of this course and the university. Cheating is strictly prohibited and devalues the degree that you are working on. As a member of the NJIT community, it is your responsibility to protect your educational investment by knowing and following the academic code of integrity policy that is found at: [http://www5.njit.edu/policies/sites/policies/files/academic-integrity-code.pdf (Links to an external site.)](http://www5.njit.edu/policies/sites/policies/files/academic-integrity-code.pdf).
Please note that it is my professional obligation and responsibility to report any academic misconduct to the Dean of Students Office. Any student found in violation of the code by cheating, plagiarizing or using any online software inappropriately will result in disciplinary action. This may include a failing grade of F, and/or suspension or dismissal from the university. If you have any questions about the code of Academic Integrity, please contact the Dean of Students Office at dos@njit.edu

ATTENDANCE POLICY
This is an in-person class. You need to attend the live classes to maximize your participation opportunities. Do your best to get feedback on your work, and ask questions anytime.

PARTICIPATION POLICY

Your active participation online and offline is expected. Participation can take the form of asking questions, providing answers, sharing helpful tips, volunteering for demonstrations, and anything that can help your peers understand the material.

CLASSROOM CONDUCT POLICY
Constructive involvement includes regular posting in all forums, constructive discussion, helping other students, and volunteering for demonstrations. Non-constructive involvement specifically includes non-participation in the forums, negative comments, and not offering a way to improve another student's project if you point out a criticism. Be respectful and a good class citizen, but make sure to give to student some useful advice.

Class Recordings: Class sessions may be recorded by the instructor. These recordings shall only be used as an educational resource and are not to be distributed or used outside of this class. Information on how to access recorded lectures will be made available by your instructor. Any recordings that contain identifiable information about students will not be used beyond this semester.

Class Recording Etiquette: Students are expected to respect their fellow students' privacy and freedom to learn without disruption. Students are not allowed to capture or reproduce anyone's name, image, or voice without permission. They must be polite and respectful in the online chat. Informal chat is okay, but typing is restricted to things that one would say out loud in front of the entire class. Students must always conduct themselves on their webcam video as they would in person in a classroom.

ACCOMODATIONS

If you need an accommodation please request those through the Office of Accessibility Resources and Services (OARS) at NJIT and inform the instructor at the beginning of the semester or at least one week before any deadline (which ever occurs first).

If you feel sick, please do NOT attend the in person class and contact your peers or instructor for class. If you need a medical or emergency excuse, please contact the dean of student with your documentation.

GRADING POLICY
Grading percentage may change at the discretion of the instructor:

Assignments worth 25% of final grade

Presentation is worth 25% of final grade

Project is worth 25% of final grade

Participation is worth 25% of final grade

EXTRA CREDIT
Overflow points counts as extra credit. You can collect those by participating in class whether you ask questions or answer questions, by participating (ask a question, share a resource, help another student), and performing well in the class tasks.

Late Policy: $2^{(n-1)}$ point penalty for "n" days late on an assignment, with a n=7 day limit to accept submissions. For example, after 5 days late you will receive a $2^{(5-1)}=16$ points deduction. No late submissions are possible for the presentation or project.

A 90-100 | B+ 86-89 | B 80-85 | C+ 76-79 | C 70-75 | D 60-69 | F < 59
Please note that a D is still a passing grade for IT students. It means the student did minimal work in the class, but still counts towards graduation as long as the total GPA is over 2.0.

Weekly Breakdown: TENTATIVE and shown on class website.