

Project Rubric for TA Fall 2022 Updated for 250 points grading

250 points + points for the team presentation

- [5 points] There should be some sort of display of the board itself each turn. This can be text output to the screen if you wish. [+5 points for good graphics, if pictures are presents]
- [5 points] A user should be able to select whether they are playing a 2-person game or playing against the computer.
- 3 documents and Py – package should be provided
 - 50 points
 - Document 1: is **technical documentation** for developers like you. In this document, you should include technical information like what you used and how. You should give at least 5 examples of methods/ techniques you implemented from the class lectures, for example: [5x5 point per example = total 25 points]
 - Top-down and/or Bottom-up design processes
 - Incremental (pyramid-style) development
 - Functions, modules, loops, and so on...
 - Using methodical debugging approaches to find and handle bugs[25points] In this package you should include a full set of tests, and ensuring the program meets all tests. You may include any other useful information. You can picture if you are selling your program, what would you include here?
 - Document 2: [100 points] **Design Document and Work Statement.**
 - [5 points] Cover page containing:
 - Section Number
 - Semester (e.g. Fall 2019)
 - Team Number
 - Team Members
 - Team Member contact information
 - [10 points] code of cooperation
 - [10 points] table with time effort / task load table per team member.
if a team member is not listed or did not contribute, deduct these 5 points or do not give any points at all for the project to that person. Provide a list of what each team member contributed to the project. Be specific: it is not enough to say “team member X helped code”. You should identify exactly which parts each person did on the project.
 - [10 points. List of modules, variables, functions, any of those]
List any **external** modules (if any) that you included (outside of the Python Standard Library) that someone would need to install to run your program.
 - [10 points] a **history** of your code developing: debugging, changing of algorithms, changing ideas and goals. More details on what to include her see below.
 - i. Project management process.
 - ii. Functional block diagrams

- iii. Design concepts
- iv. Brainstorming ideas
- v. System charts, sketches, or drawings
- vii. Collected data
- viii. Test cases, etc.
- [10 points] List what was accomplished from your original plan
- [10 points] List any items not accomplished from your original plan
- [10 points] Provide a brief (1-3 paragraph) summary of your team's work. What problems did you encounter along the way, and what incorrect assumptions did you have that led you to be able to accomplish less or more than originally planned?
- [10 points] Provide a brief (1-2 paragraph) "reflection" statement. Given what you now know from the project, how would have approached it differently from the beginning?
- [5 points] Pagination of each page within the Design Notebook
- [100 points] **Document 3:** A user manual for a player where you explain the rules of the game.

The minimum requirements will account for 80% of the overall grade. Earning more than 80% will require adding additional functionality or features beyond the minimum. Examples of additional functionality (you are not limited to these – these are just some ideas) could include:

- [+ 10 points for Using AI] A more advanced game (i.e. chess is more complex than a basic game like Connect 4). Games with randomness (like Backgammon) would also be more advanced. A game like ordinary tic-tac-toe would lose some credit in this category.
- Computer AI behavior. Making "smarter" moves, etc. Even making a random move from the set of all available moves is a slight improvement over the minimum. Somehow trying to determine a "best" move is even better.
- [10 points] A win/loss record-keeping system, high score, etc.
- [10 points] A better user interface (e.g. a graphical user interface)
- [10 points] screenshots of the game should have been
- [10 points] manual should be sufficient to understand how to play a game
- [10 points] a clear understanding of how to track the winning
- [20 points] py files any sort are provided