

Bard Computer Science Program

2019-20 Moderation Guidelines

Before Moderation, a student in the Computer Science Program should complete or be enrolled in Computer Science (141 or 143), 145, and 201, as well as Mathematics 141 (or the equivalents). Students are expected to follow standard divisional procedures for Moderation and to fulfill the college-wide distribution and First-Year Seminar requirements. Along with the moderation papers, students will submit one of their programs that solves some significant problem. This program should improve upon a previous course, research or internship project. All programs must use appropriate data structures, be properly structured, fully debugged and tested, and thoroughly documented. A three-page paper will accompany the program (consider using LaTeX, but it is not required; the paper must be in PDF format). This paper will provide an analysis, explaining the significance of the algorithm implemented by the program, discuss the program's design, and provide results from executions of the program. Possible elements to include in the analysis are:

- proof of correctness;
- proof or experimental evidence of run-time behavior;
- exposition of mathematical underpinnings;
- empirical comparison with alternative approaches;
- statistical analysis that provides a formal hypothesis and statistical tests.

To graduate, a student in the program must take Computer Science 301, 305, and ~~312~~ 275 (Stats for Computing); one systems course such as 225, 226, 325, 326, 328, 335; at least two other computer science courses, one numbered above 201 and the other numbered 300 or above; and complete a Senior Project.

Due Dates:

- ❖ Moderation Papers (College due date, 15th of March this semester, 3 paper copies)
- ❖ Computer Program and analysis (24th of April, 3 paper copies of the report, share a Google drive folder that includes all of your materials with kohara@bard.edu)