CSci 2312 Discrete Structures II - 3 credits - Vora

Fall 2015 schedule:

Lectures: Tuesday and Thursday, 4:45-6:00 pm, SEH 1300-1400

Discussion Section: Monday, 12:45-2:00 pm or Wednesday, 9:00-10:15 am, Tompkins 410

Instructor: Poorvi Vora, SEH 4610.

Instructor Office Hours: Tuesday and Thursday: 12:00-1:00 pm

IAs: Divya Nayak and YinYiing Yeoh

TA Office Hours: TBD

If the TA or the instructor is unable to hold office hours, this will be announced on Piazza or in class.

Course Website: on Piazza

Purpose of course: To provide an introduction to some discrete structures and mathematics used in computer science, such as: algorithmic number theory and graph theory. To build on the mathematical reasoning skills related to computer science concepts, as begun in CS 1312 (Discrete Structures I). CSci 2312 satisfies a mathematics requirement in the undergraduate CS curriculum at GW.

Course content: Algorithmic number theory, graph theory, advanced recurrences, sums and approximations.

Prerequisites: Introductory discrete math and single-variable calculus.


Grading: HWs (20%), quizzes and participation in lectures and online on Piazza (20%), two tests (15% each), final (25%), discussion session (5%). HWs are due by 6 pm on the due date. Late HWs are not allowed. You will not be allowed the use of laptops, PDAs or calculators and similar devices during quizzes, tests and finals.

Policy on collaboration: All examinations, papers, and other graded work products and assignments are to be completed in conformance with The George Washington University Code of Academic Integrity. You may discuss HWs among yourselves, and work on them in groups. However, each student is expected to write his or her own HW out independently; you may not copy one another's assignments, even in part. You may not copy material discussed on Piazza. While discussing HW problems on Piazza is allowed, you may not give out hints to the HW problems on Piazza.
You may not collaborate with others on the final, the tests or the quizzes except when told explicitly to work on a group quiz.

You are expected to cite all your sources in any written work that is not closed book: papers, books, web sites, discussions with others - faculty, friends, students. For example, if, in a group, one student has a major idea that leads to a solution to a HW problem, all other students in the group should cite this student. Similarly, if a student’s observation on Piazza results in improving your understanding of a problem and leads to an answer, you should cite the student.

Any violations will be treated as violations of the Code of Academic Integrity.

Accommodation: Any student who may need an accommodation based on the potential impact of a disability should contact the Disability Support Services office at 202-994-8250 in Rome Hall, Suite 102, to establish eligibility and to coordinate reasonable accommodations. For additional information please refer to: http://gwired.gwu.edu/dss/

Syllabus: This is a tentative syllabus. You will have assigned reading before each class. There will be a short quiz at the beginning of each discussion session and each Tuesday class on recent reading material. Additionally, there will be long quizzes at the end of each Thursday class, testing you on material taught in class up to the previous week. The final exam will be scheduled by the university.

Weeks 1-2: Module I: Asymptotics (2 weeks)
Weeks 3-5: Module II: Graph Theory (3 weeks)
Weeks 6-12: Module III: Number Theory (7 weeks)
Weeks 12-14: Module IV: Group Theory

8 October: Test 1; 17 November: Test 2

If you wish to avail of a religious accommodation on either test date, please let the instructor know in the first week of class.