MATH 3503: Discrete Mathematics Syllabus

Fall 2025

Oklahoma City University, Petree College of Arts & Sciences, Computer Science

1. Instructor Information & Course Material

Instructor: Tashfeen, Ahmad (SSM 202C, tashfeen@okcu.edu[1]).
Office Hours: Mondays, Wednesdays during 11:00 AM–1:30 PM or by appointment.[2]
Textbook: Chartrand, Gary & Zhang, Ping. *Discrete Mathematics*. Waveland Press, 2011.[3]
Time & Location: Monday, Wednesday, Friday during 10–10:50 AM in room 114 of the Sarkey's Center.

2. Tentative (Upon Class Progress) Schedule

Week	Chapters' Reading	Event	(%)
1	0, 1	Homework 1	10
2	2	Homework 2	10
3	3, 4		
4	3, 4	Homework 3	10
5	5		
6	5	Homework 4	10
7	0, 1, 2, 3, 4, 5		
8	0, 1, 2, 3, 4, 5	Midterm	10
9	8	Fall Break	
10			
11	8	Homework 5	10
12	9		
13	9	Homework 6	10
14	10	Thanksgiving	
15	10	Homework 7	10
16	0, 1, 2, 3, 4, 5, 8, 9, 10		
17	0, 1, 2, 3, 4, 5, 8, 9, 10	Final	15

Table 1. 5% is for quizzes and/or class participation.

3. Grading Criteria

When accepted, work that is $n < 3$ days late will receive no more than $100(1 - 0.1n)\%$ of credit. That is 10% deduction for each day late. For certain assignments and tasks, late work will not be accepted. Any submission that is not easy to read will receive a zero. We highly encourage you to typeset your homework.

Total $t\%$	Grade	Total $t\%$	Grade	Total $t\%$	Grade
		$t \geq 93$	A	$93 > t \geq 90$	A^-
$90 > t \geq 85$	B^+	$85 > t \geq 82$	B	$82 > t \geq 80$	B^-
$80 > t \geq 75$	C^+	$75 > t \geq 72$	C	$72 > t \geq 70$	C^-
$70 > t \geq 65$	D^+	$65 > t \geq 62$	D	$62 > t \geq 60$	D^-
$60 > t$	F				

Table 2. Please also see subsection 4.3.

[1] Prefix [XXXX1234] followed by a space to all emails sent to the instructor, e. g., "[CSCI2114] Help with Homework 7."
[2] Zoom for a virtual meeting.
[3] You may find a copy online.

4. Policies & Resources

4.1. **General Academic Guidelines.** For an up-to-date version of the guidelines please visit the university sharepoint, see the OCU course schedule website for the finals week schedule and visit the online classroom.

4.2. **Course Requirements & Objectives.** Students will develop the mathematical maturity necessary for the study of computer science. They will explore the foundational topics, including propositional logic, relations and formal mathematical proofs via various direct and indirect techniques. Additionally, students will delve into set theory, examining the properties (e. g., cardinality, countability etc) of fundamental sets such as integers and rationals. They will also investigate techniques in counting and combinatorics.

4.3. **Academic Integrity.** The cheating rule for this class is simple: *don't turn in anything you did not understand*. I don't care if you use ChatGPT, Google, ask your grandma or get help from elsewhere. I encourage you to get help and exhaust your resources. Though, if you turn in something (or answer a question with something you do not understand; can not explain) and I unsuccessfully ask you to explain your work, that will result in an *automatic F in the course* and disciplinary action will be taken. If you've been asked to demonstrate your work to the professor then you'll need to do so in his office hours or make an appointment. If you've been asked to demonstrate your work and you fail to do so, you will receive a zero in the assignment. For more, read the *Academic Honesty* section of the courses' catalogue.

A grade of Incomplete ("I") will only be assigned in case of documented extenuating circumstances. The "I" will be removed in accordance with university policy stated in the online undergraduate catalogue.

4.4. **Religious Accommodation.** Oklahoma City University seeks to be supportive of religious observance among the members of our diverse campus community and to be as accommodating as possible. Students should discuss with their instructor at the beginning of the semester forms of religious observance (dress, fasting, specific prayer times) that may affect their full participation in the course. Students should also compare the class schedule to their own religious calendar to determine if there will be any class days in which the student expects to be absent due to the observance of a religious holiday. *Students must notify the instructor, in writing, of the expected absence within the first two weeks of the semester.* The instructor will then work with the student to develop a plan to reschedule any exams, assignments, or course activities for that day. The instructor, at his/her own discretion, will make reasonable accommodations wherever possible. Students should recognize, however, that there may be some course aspects that cannot be rescheduled or accommodated, and it will therefore rest upon the student to determine whether they wish to remain enrolled in the course or have their grade potentially affected.

4.5. **Mission Statement.** The Petree College of Arts and Sciences provides a supportive, student-centered learning environment. Through an interdisciplinary curriculum that promotes active learning and individualized instruction, students are encouraged to think broadly, to find their passion, to collaborate with others, and to connect with the broader community.

4.6. **Grook.**

Put up in a place
where it's easy to see
the cryptic admonishment
T.T.T.

When you feel how depressingly
slowly you climb,
it's well to remember that
Things Take Time.

—Piet Hein