Professor: James Sochacki
Email: sochacki_js@lynchburg.edu (sochacki_js)
Office: Available Rooms
Office Hours: TuTh before and after class and by appointment
Website: http://powerseriessolutions.com/ (James Sochacki)

Class Time: TuTh 11:30-12:45 Last Class: Tuesday May 6, 2025.
(Spring Break: March 8 – 16, 2025)
Class Room: Hobbs-Sigler Hall 312

Course Description:

MATH 330 A. Discrete Mathematics

This course studies discrete structures that arise in mathematics, computer science, business and other areas of application. Topics covered may include, but are not limited to, the theory of counting, graph theory, enumeration, finite-state automata and formal languages.

Prerequisite: MATH 260W - Must be completed prior to taking this course.

Goals of the Course

To gain a better understanding of discrete and continuous mathematics and their usefulness in solving real world problems. To learn the theory of discrete mathematics and to apply it to solve problems in other disciplines.

Mathematics and Statistics courses are considered difficult subjects by most. To be successful in it you must attend class, do the homework assignments, keep up with the homework assignments and ask questions. Since we may have to change the syllabus, if you do not attend class you will miss these changes.

Grading:

We will have 9 turn in homework assignments worth 100 points each and a final exam worth 100 points for a total of 1000 points. I expect you to follow the University of Lynchburg code of honor on these. The 9 homework assignments that are to be turned in will be posted and will be clear that it is a turn in homework assignment. You may discuss the homework assignments with others in class but you must turn in your OWN written up solutions. Homework will be based on the lectures and reading assignments. Homework will graded on correctness, neatness and cleverness. The final exam will based on the 9 turn in homework assignments.

I grade on a straight scale:

A: 90-100
B: 80-89
C: 65-79
D: 50-64
F: Below 50

At any time you can figure out your grade by calculating your average. It is your responsibility to attend class and turn homework assignments in ON TIME. I do not go over missed lectures. If you miss a lecture then you should get the notes from someone in class. If you do not understand the notes then you should come see me. *You are encouraged to engage with other students in the class.*

Form study groups with others in the class and ask questions. Make it a good semester for you and for me.

Just like you pay for a ticket to go to a movie and then are expected to follow the rules of the movie theater, the same applies for this class. Everyone has the same right to learn the material. I expect everyone to respect each other, that all phones be shut off and that everyone is considerate and polite. **You have agreed to not cheat, lie or steal and to encourage your classmates to do the same.**

FINAL EXAM TIME: Tuesday May 13, 2025 12:00 – 3:00

It is your responsibility to be aware of add/drop dates, important dates and university policies. If you have situations during the semester in which we have to work together to make arrangements that is your responsibility and you must take care of this by talking with me before the class day or final exam.