



MATH 213 Syllabus

Basic Course Information:

Course Prefix/Number: MATH 213-03
Course Title: Discrete Mathematics
Class Meeting Times: 10:00 – 10:50 UTR
Instructional Modality: Hybrid
Class Location: A106

Instructor: Dr. Samer Assaf
Office Location: A327
Office Phone: ext. 3727
Email: sassaf@auk.edu.kw
Office Hours: 08:00 – 10:00 (UTR)

Note to Students

1. By enrolling in this course, you have agreed to adhere to the Classroom Guidelines found within this syllabus. You are additionally expected to observe University Policies found on the [University Publications Webpage](#).
2. Due to the abstract nature of this course, the notions may seem bewildering at first but, don't worry; this is normal. The course is designed to start slowly and then, over time, the pace will escalate, so that, with concerted time and perseverance on your part, you will adapt, appreciate, and benefit from it.
3. Please feel free to stop by my office during office hours or email me during office hours to receive a Zoom link for a meeting. If you are unable to make it during office hours above, email me your available schedule at least 48 hours in advance. My schedule permitting, I will endeavor to meet with you at a time suitable to us both. Remember, asking questions is one of the most valuable tools at your disposal.
4. Please make sure you have access to Moodle for a copy of the syllabus, grades, and other course materials. <https://lms.auk.edu.kw>

AUK Mission Statement:

The American University of Kuwait is a liberal arts institution dedicated to teaching, learning, and scholarship. The University offers programs that provide students with the knowledge and skills necessary for lifelong learning and professional success. AUK enriches society by fostering an environment that encourages critical thinking, effective communication, personal growth, service, and leadership.

Department/College Mission Statement:

The College of Arts and Sciences (CAS) is committed to cultivating lifelong learning that empowers students to pursue technical competency in professional fields, self-awareness, a sense of civic and moral responsibility, and a breadth of vision in the tradition of liberal arts education. The College offers quality undergraduate programs leading to a bachelor’s degree.

The Department of Mathematics and Natural Sciences is committed to excellence in teaching, research, and scholarly activities. The department prepares AUK students in different disciplines with the fundamental scientific and analytical skills critical to a quality liberal education. The department strives to prepare students to be successful in their careers and promotes lifelong learning.

Catalog Course Description:

This course is given at the elementary level. Topics include a review of basic algebra, linear equations and inequalities in one and two variables, graphs, exponents and polynomials, factoring and quadratics, rational expressions and equations, and systems of linear equations.

Credits: 3 Instruction Hours: 39

Prerequisites: Placement Test

* For a full list of equivalences, please check the online Course Description.

Course Learning Outcomes: Upon successful completion of the course, students will be able to:

Course Learning Outcomes (CLOs)
CLO1: Think logically, mathematically, and understand mathematical reasoning in order to be able to read, understand, and construct mathematical arguments.
CLO2: Familiarize themselves with certain discrete structures, such as sets, numbers, matrices, groups, graphs, trees, etc., and apply them in their projects of interest.
CLO3: Improve their problem-solving skills, develop their ability to present material and answer questions, coherently, completely and accurately, and be able to explain things to others clearly.
CLO2: Develop skills for teamwork by working in groups.

Course Delivery/Methodology:

For this course we will be meeting in-person and online alternating 2 days per week as per the Office of the Registrar’s email. Assignments will be completed on Webassign.net. Class key and other important materials can be found on Moodle.

Required Textbook:

Discrete Mathematics with Applications, 5th Edition, Susanna S. Epp.

Bought through www.Webassign.net

Coupon Code on Moodle.

Recommended/Supplemental Readings:

“*Book of Proofs*”, by Richard Hammack, 3rd edition.

[Book of Proof \(vku.edu\)](http://vku.edu)

Evaluations and Grading:

Evaluation Type	Weight
Mathematics Essay	1%
Assignments	20%
Midterm Exam Wednesday 31 – March – 2022 (Odd) Monday 03 – April – 2022 (Even)	39%
Final Exam	40%
Total	100%

Assessment Guidelines

1. For online assessments, please ensure that you log in at least 10 minutes in advance to circumvent any log in issues that may happen.
2. Midterm proper camera setup is a setup where the instructor can see you, the pen you are holding, and the material you are writing on in the same frame. Please make sure not to use your phone to log in as you will need it to scan your solutions.
3. The instructor should be receiving your camera broadcast continuously for your submission to be valid. In the unfortunate case of a video interruption, please contact your instructor for a makeup. The instructor reserves the right to choose the midterm makeup testing methodology.
4. Assignments are posted every Saturday. No extensions will be given, as the assignment will be created with a 7-day deadline.
5. Unless proper documentation is provided, any missed assessment will result in a zero mark (0). A missed Final Exam will result in a fail for not attending (FN).
6. It is your responsibility to ensure that you have all the necessary materials and equipment required to complete the assessment successfully. Include a supply of extra pens and pencils as borrowing during the assessment will NOT be permitted.
7. Snacks and beverages will be allowed during Midterm and Final Exam ONLY. Please ensure that they present minimal smells and sounds so as not to disturb other students. The instructor reserves the right to suspend this privilege should it be abused.

AUK Official Grading Scale:

Letter Grade	Percentage	University Points
A	94-100	4.0
A-	90-93	3.7
B+	87-89	3.3
B	84-86	3.0
B-	80-83	2.7
C+	77-79	2.3
C	74-76	2.0
C-	70-73	1.7
D+	67-69	1.3
D	64-66	1.0
D-	60-63	0.7
F	0-59	0.0

Course Policies/Student Responsibilities:

1. We will treat each other with respect. We will address others in the manner they prefer to be addressed.
2. We will adhere to the university's dress code guidelines. We will sit up straight and shoes are to remain on at all times.
3. Class will begin promptly at the start of the period and will end when the instructor dismisses the class. Make every effort to ensure that you are logged in or in class and ready for the class to begin when the instructor arrives as random arrivals and exits are distracting and hinder the learning process.
4. The **ONLY** Beverage and Snack permitted in class is **WATER** in a see-through container.
5. You are encouraged to raise your hand if there is something you do not understand. Questions are an invaluable learning tool, therefore; strive to ask when you encounter a challenging concept. Restricting your questions to the material at hand is expected and appreciated.
6. Unless instructed otherwise, all electronic devices will be on silent or turned off completely and stowed away. Any non-sanctioned use of an electronic device in class may result in the student being marked absent for the day.
7. Please make sure to allow 48 hours to receive a response for your email. The instructor usually checks emails during office hours. The instructor reserves the right not to respond to emails whose answers can be found in the syllabus or in a previous communication.
8. Be sure to email your instructor if you experience any doubt in understanding a concept. Mathematics is layered like a cake. Let's make sure you understand the bottom layers in order to feel comfortable with the top ones later on.

9. If logging in online, you are expected to log in at least 5 minutes before class time with a working camera and microphone.
10. A student needs to be in class or logged in for the whole duration of the class with a working camera and microphone to be considered present. Absent students have the responsibility of acquiring missed material and information from their peers.
11. The instructor reserves the right to mark a student absent and not allowed in class in case of extreme and/or repeated lateness.
12. This class is a learning-conducive, student-centered environment. Be sure to participate even if you are uncertain of your answer. Enjoy the class, while allowing others to enjoy it too. Refrain from ridiculing answers or engaging in any distributive behavior. Learning is a journey of beautiful adventure and exploration.
13. Students behaving in a manner that threatens the environment mentioned above will receive a warning, asked to change their place, or in extreme cases; be removed from class, marked as absent and the Student Code of Conduct policy enforced.

AUK Attendance Policy:

Any student who misses more than 15% of class sessions of any course during a semester should expect to fail, unless she/he submits documented evidence to the course instructor of inpatient medical care, death of an immediate family member, academic instructional activities, or national athletic activities. If excused, students are required to satisfy all coursework due or assigned during their absence as determined by the course instructor. If a student does not submit documented evidence for her/his absence exceeding the limit, it is the student's responsibility to withdraw from the course by the specified deadline, as indicated on the academic calendar. Students who withdraw from a course receive a grade of "W". Students who do not withdraw from a course nor submit supporting documents for excessive absences will receive a grade of "FN" (failure for non-attendance).

Code of Academic Honesty and Integrity:

Upon admission to the American University of Kuwait, students agree to act responsibly in all areas of academic, personal and social conduct and to take full responsibility for their individual and collective action. Such regulations are found in the American University of Kuwait Catalogue, Student Handbook, and the AUK website at www.auk.edu.kw. Any question of interpretation regarding the code of academic honesty and Integrity shall be reported to the appropriate academic dean. The Code shall be reviewed annually at the discretion of the academic deans. Any student or student organization found to have committed the cited violations or misconduct, either on or off campus, is subject to the disciplinary sanctions outlined in adjudication procedures.

Plagiarism:

The term "plagiarism" includes, but is not limited to, an attempt of an individual to claim the work of another as the product of his or her own thoughts regardless of whether that work has been published. Plagiarism includes, but is not limited to, quoting improperly or paraphrasing text or other written materials without proper citation on an exam, term paper, homework, or

other written material submitted to an instructor as one's own work. Plagiarism also includes handing in a paper to an instructor that was purchased from a term paper service or downloaded from the Internet and presenting another person's academic work as one's own.

Cheating:

The term "cheating" includes but is not limited to, copying homework assignments from another student; working together with another individual on a take-home test or homework when not approved by the instructor, looking at and/or copying text, notes or another person's paper during an examination when not permitted to do so. Cheating also includes the giving of work information to another student to be copied and/or used as his or her own. This includes but is not limited to giving someone answers to exam questions either when the exam is being given or after having taken an exam; informing another student of specific questions that appear or have appeared on an exam in the same academic semester; giving or selling a term paper, report, project or other restricted written materials to another student.

Academic Support:

Learning Support Services focuses on empowering students to become independent and successful learners by developing their literacy skills, enhancing their understanding, and helping them improve their academic and study skills. Learning Support Services is comprised of two centers: the Tutoring Center and the Writing Center. The Tutoring Center provides free academic support in various subjects to AUK student. Email: tutoringcenter@auk.edu.kw.

The Writing Center provides multilingual support (English, Arabic, French, and Spanish) through individual or small-group consultations. Email: writingcenter@auk.edu.kw

Disability Accommodations:

AUK provides equal and inclusive educational environment in order to enable all students to meet and perform requisite academic standards and to participate in the opportunities and activities of its community. If you believe you can benefit from accommodations for a learning, physical, or mental health disability, [click here to book a session through the Counseling Center/Disability Services Booking Page](#), to ask about disability services at AUK, initiate an accommodation plan, or receive disability services. You can also email counseling@auk.edu.kw if you need assistance in booking a session.

Late and Missing Work Policy: Late work is not accepted.

Make-Up Work Policy: As per the Assessment Guidelines

Communication Policy:

1. Visit this [link](#) to learn more on "how to email a professor".
2. Do not send an email asking and/or complaining about grades. If you have inquiries, schedule an appointment to meet in person to review areas of improvement.
3. Do not write in all CAPITALS. This makes it seem that you are shouting at the receiver.
4. Read and reread your emails before sending. Double check spelling, grammar, proper titles, etc.
5. Make sure to indicate your class number and section in the title.

6. Make sure to allow 48 hours to receive a response for your email. The instructor reserves the right not to respond to emails whose answer can be found in the syllabus or in a previous communication and/or to emails that do not adhere to proper Email Etiquette.
7. If I do not respond within 48 hours, please re-send the email.
8. Emails sent on weekends will be responded to on Sunday at the earliest.

Technology Issues: Please email me in case of any technological issue as soon as it happens. In case of any Webassign issues, please contact customer support, the link can be found on Moodle.

Course Schedule:

Week	Topic	Assignments
1	2.1	
2	2.2, 2.3	
3	3.1	
4	3.2, 3.3	
5	4.1, 4.2	
6	4.3	
7	4.4	
8	4.5	
9	4.7	
10	5.1, 5.2	
11	5.3	
12	6.1, 6.2, 6.3 ^(TP)	
13	8.1, 8.2	
14	8.3	
15	8.4 ^(TP)	
16	Final Exam Week	Final Exam

Syllabus Changes: The instructor reserves the right to amend this syllabus in any way deemed necessary. However, should that happen, students will be given due and proper notice.