

MTH-120S-803FS

Quantitative Reasoning Syllabus Part 2 - ONLINE

Edison State Community College

3 Credit Hours

Professor: Lisa Hartwig; M.Ed.; Bowling Green State University 2009, Graduate Mathematics; Bowling Green State University, Ball State University, University of Phoenix 2020
Email/Phone: ehartwig@edisonohio.edu/937.381.1518
Office: Room 212; MW 9-10am and T/TH 9-10:30am; online as needed
Required Materials: Sobecki and Mercer, *Math in Our World*, 2nd Ed.
AND Aleks Homework card with access code that comes with your book
(YOU WILL WRITE IN THIS BOOK AND UPLOAD BOOK ASSIGNMENTS IN BLACKBOARD)

Tentative Weekly Schedule (subject to change). I RECOMMEND YOU PRINT THIS AND HANG IT ON YOUR REFRIGERATOR! **While some due dates may fall on holidays, assignments are still due. Please work ahead to ensure you complete all assignments on time.**

Week	Video, Book Activity, and ALEKS Homework:	Due Date BEFORE 11:59pm
Week 1	Register for ALEKS 2-1 Review of Percentages 2-2 Budgeting	8/31
Week 2	2-3 Simple Interest 2-4 Compound Interest	9/7
Week 3	2-5 Installment Buying 2-6 Education and Home Loans	9/14
Week 4	2-8 Income Taxes Exam 1 (2-1, 2-2, 2-3, 2-4, 2-5, 2-6, 2-8)	9/21
Week 5	3-1 Basic Probability 3-2 Sample Spaces and Counting Techniques	9/28
Week 6	3-3 Combinatorics 3-5 Odds and Expected Value	10/5
Week 7	4-1 Gathering and Organizing Data 4-2 Representing Data Graphically	10/12
Week 8	4-3 Measures of Average 4-4 Measures of Variation	10/19
Week 9	4-5 Measures of Position in a Data Set Exam 2 (3-1, 3-2, 3-3, 3-5, 4-1, 4-2, 4-3, 4-4, 4-5)	10/26
Week 10	4-6 Normal Distributions and Z-Scores 4-7 Applications of Normal Distributions	11/2
Week 11	4-8 Correlation and Regression Analysis 4-9 Misuses of Statistics	11/9
Week 12	5-2 The Basics of Graphing Functions 5-3 Modeling with Linear Functions	11/16
Week 13	5-4 Modeling with Quadratic Functions 5-5 Linear and Quadratic Regression	11/23
Week 14	Exam 3 (4-6, 4-7, 4-8, 4-9, 5-2, 5-3, 5-4, 5-5)	11/30
Week 15	Final Exam	12/7
Week 16	Class is over!	

To accommodate the needs of this course, the instructor may alter the syllabus at any time.

Course Rationale

Quantitative Reasoning can be defined as the application of mathematic skills to analyze and interpret real-world quantitative information in the context of a discipline to draw conclusions that are relevant to students in their daily lives.

Course Objectives

The students will

1. Engage in a meaningful intellectual experience.
2. Increase quantitative and logical reasoning abilities.
3. Improve ability to communicate quantitative and mathematical ideas.
4. Strengthen mathematical abilities that are necessary in other disciplines.

Grade Scale

90-100% A

80-89% B

70-79% C

60-69% D

0-59% F

Grade Weight Allocation

20% Aleks Homework

15% Bookwork

45% Exams

20% Final Exam

Weighted grades cannot be calculated by dividing points earned by total points.

Communication

This is an online course, therefore, reading the Announcements section of Blackboard weekly is required. This is how you and I remain on the same page.

The easiest and best way to communicate with me is through email. My email is listed on the first page of the syllabus, feel free to contact me at any time. I check my email frequently, however, please allow 24 hours as a maximum length of time for me to respond to you during the week and 48 hours on the weekend. All students **MUST** use their Edison email accounts when corresponding regarding this course. **Since this is an online course, it is imperative that you check your Edison email every day.** Your Edison State Outlook email is embedded within your free Microsoft Office 365 account. You can access this by going to Edison State's homepage, click on Current Students, and then Office 365. Put your email account on your phone! This is the main way I contact you.

Calculator (Required)

A scientific calculator of any brand is recommended for this course. A graphing calculator is optional for this course--preferably a TI-83/84 model. Calculators capable of symbolic manipulation (e.g., TI-89, TI-Nspire, TI Voyage 200, HP-48, HP-50) are prohibited. The instructor may restrict calculator use on any assignment or exam.

Classroom Courtesy

Conduct yourself in a manner that is conducive to learning. Be kind, respectful, and professional in your communication with me. If you behave inappropriately, you will be removed from the class.

Expectations Outside of Class

Because this is a 3-credit hour, 16-week course, you can expect to spend 9-12 hours per week on videos, assignments, homework, exams, asking questions, and studying. The pace of this course moves very quickly and waiting until the last

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minute can be detrimental to your assignments and grades, due to questions you may have or technology issues. Starting your assignments on the day they are due means you are already behind. If this time requirement is not conducive to your lifestyle, I recommend you drop the course. If you are having trouble learning the content of this course online, I recommend you drop this course and register for it in person.

Attendance/Participation

Turning in your work on time is crucial to being successful in this course. Your *two* lowest book activity grades and your *two* lowest homework grades are automatically dropped from your final weighted average as they are entered into Blackboard. No exam grades will be dropped. I do not allow late or make-up homework or make-up exams, as it is not fair for the rest of the class who prepared for and turned their assignments in on time. You have access to all the due dates for all the assignments on the first day of class, so work ahead and plan accordingly. Procrastination is not your friend, so start your assignments early. If you begin your assignments the day they are due, you are behind.

Notes

You are expected to take clear and meaningful notes over every section covered in class. They will assist you in completing other assignments required for this class.

Weekly Book Activities

Book Activities must be completed and submitted prior to the due date and time. You will be required to SCAN or take a PHOTO of your assignments written in your book and UPLOAD them in the properly labeled assignment sections of our Blackboard course. By registering for any online course, you proved competency in the ability to submit assignments via Blackboard. Any technical issues or help doing so must be communicated to Edison State's IT Helpdesk at support@edisonohio.edu. You may not email your assignments, as I cannot track or grade them properly. **Late submissions for any reason will not be accepted.** To accommodate late or missed work, your two lowest book activities are dropped as they are entered into Blackboard. You can access all your due dates for each assignment on the first day of class, so work ahead and plan accordingly. Starting your assignments on the day they are due means you are already behind. Procrastination is not your friend when completing the book activities, so work ahead. If you begin your assignments the day they are due, you are behind.

Weekly Homework

Register for and complete your online homework assignments through the ALEKS link in our Blackboard course site, which will redirect you to the ALEKS site. You do not need the 10-character course code, but you will need the 20-character code that comes with your textbook. Your homework access code card comes wrapped inside your book, so be sure not to throw it away. Homework due dates are posted in ALEKS on the first day of class. Completing your homework in a timely manner is essential to success in this course. You have access to all the due dates for all the assignments on the first day of class, so work ahead and plan accordingly. You also have access to all the ALEKS homework assignments after the due date for you to review and study from. **Any homework submitted after the due date will earn a zero in the grade book.**

No late homework will be accepted. To accommodate, your two lowest homework grades are dropped as they are entered into Blackboard. Use the resources provided for you in Aleks to help you. You can also email me or utilize tutoring if you have questions. Please allow 24 hours during the week, and up to 48 hours on the weekend for me to respond. See the Academic Dishonesty section below for our institution's cheating policy. *All work must be completed by you and you only.* For technology issues with Aleks, it is your responsibility to contact Aleks Customer Support. Starting your assignments on the day they are due means you are already behind. Procrastination is not your friend when completing homework, so please work ahead. If you begin your assignments the day they are due, you are behind.

Contacting ALEKS Customer Support

Please do not email me for an extension due to issues you are having with your computer. If/When you run into technological issues with homework or exams, you must contact ALEKS Support. Since this is an online class, I cannot sit

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at your computer and help you with these types of issues. Waiting until the last minute for your assignments does not allow us time to work out these issues, so please work ahead on your assignments.

Exams – 3 Unit Exams

You will be required to prepare for and take all exams on their scheduled dates and within the allotted time. You will be allowed one (1) attempt for each exam. Exams are timed and once you begin, you must finish the exam in the same sitting. **There will be no make-up or re-do exams.** All exams are graded fully on correctness, and some questions have multiple parts. **Exams can be found in our Blackboard course site, which will then direct you to access the ALEKS online exams.** You may use your calculator and any handwritten notes on your exam. You may NOT use your cell phone calculator or any other device that can access the internet. Once you complete a question on your ALEKS exam, you may not move backwards. If you'd like to take an exam before it appears in ALEKS, please email me and I will open it early for you. See the Academic Dishonesty section below for our institution's cheating policy. *All work must be completed by you and you only.* Procrastination is not your friend when completing exams, so work ahead. Be sure to read the Blackboard announcement regarding partial credit on your exams.

Final Exam

Your final exam will be cumulative. The final exam policies are the same as the unit exams, and the final exam will be taken online in ALEKS. There is not review sheet, so study the entire course. If you fail to complete the final exam prior to the due date, you will receive a failing grade for the course. At the end of the course, your final grade is your grade. I do not change grades for any reason, including but not limited to athletic eligibility, graduation requirements, etc. Put in hard work and diligence throughout the semester and do not ask me to change your final grade.

Extra Credit

There will be no extra credit, so please do not ask for it. Here are some suggestions for work you can put in throughout the semester: sign up for tutoring at the beginning of the semester on the Edison State Library website for free tutoring, ask when you have questions on the material, turn in your assignments completed, spend a minimum of 12-16 hours outside of class time working on the coursework (book assignments, asking questions, homework, and studying), do not skip any assignments, take detailed notes that will make sense to you when you study, make flash cards to help you remember tough topics/formulas/definitions and study them often, practice questions in ALEKS that you missed the first time and rework them until you understand, check your email and your Blackboard course every day. If you need more ideas, please ask. Starting your assignments on the day they are due means you are already behind. Procrastination is not your friend.

Writing Policy

Due to the nature of this course, it is crucial that your mathematical explanations are written clearly and concisely. Your written work will be graded not only on its content, but also on your use of language. Organization, clarity, grammar, spelling, and punctuation will be considered when grading.

eTutoring and Tutoring Center

All students enrolled at Edison are eligible to receive learning assistance services. Learning assistance services includes in person and tutoring, and both are free to Edison students. Visit <https://www.edisonohio.edu/tutoring-center/> to sign up for tutoring.

Academic Dishonesty

Because engaging in dishonest practices undermines the trust that is essential in any social relationship, honesty is expected in all matters. Academic honesty requires that you never submit another's work as your own. You will not plagiarize from a printed source, an electronic source, or another student's work, nor will you allow someone else do your work. You will not copy from another student's examination or use unauthorized notes. You will not avoid the timely completion of work by misrepresenting the conditions that cause you to miss a deadline or an examination. You will not assist another student in any dishonest practice. If you engage in academic dishonesty, you will receive a failing

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grade for the course. Additionally, students are expected to be familiar with and to uphold all student rights and responsibilities as outlined in the student handbook. Read the student handbook for more details.

ARTIFICIAL INTELLIGENCE RESTRICTIVE POLICY

Students cannot use AI tools such as ChatGPT on exams in this course. All assignments should be prepared entirely by the student. Developing strong competencies in this area will prepare you for a competitive workplace. Therefore, AI-generated submissions are prohibited and will be treated as academic misconduct.

TESTING YOUR FAITH ACT POLICY

Edison State Community College is committed to providing an environment respectful of students' beliefs. Students are permitted to be absent for up to 3 days each semester based on their faith, religion, or spiritual belief system with no academic penalty. Students must complete the Testing Your Faith Act Accommodations Form, <https://www.edisonohio.edu/services-support/registration-records>, located in "Forms" and provide a copy to their individual faculty within 14 days from the start of the course. The entire policy can be found in the student handbook at <https://www.edisonohio.edu/services-support/student-resources>.