



Department of Mathematics and Computer Science

Syllabus
Math 0320.034IN Fall 2022
Intermediate Algebra

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Please include your course & section in the subject line when emailing.

Virtual Student Hours: Four half-hour zoom links to student/office hours are in D2L Brightspace content. Students should feel free to ask MATH 1314 questions during this time frame as well as MATH 0320 questions. The office hours for the first couple of weeks will be on Sunday from noon to 2 pm. Starting in week 3, 9/4/2022, I expect that my office hours will move to Monday from 1:00 – 3:00 pm, but I will make an announcement in the course when that happens. You are always welcome to send email.

Important Note: Internet is required as is regular reading of College of the Mainland (COM) email.

This course uses Brightspace with integrated MyMathLab and COM email, so please check your email regularly. You will need access to the internet to gain access to course materials using D2L Brightspace, COM email, and MyMathLab (MML) software. *Some devices like iPads/tablets and cellphones present problems with gaining access to quizzes/tests, so they are not acceptable devices for this class.* If you do not have your own internet access, you can get access on campus in the Innovations Computer Lab, TVB 1324, the Library and the Tutoring Center, ICB 104.

1. Required Textbook/Materials

The textbook used in this course is: Intermediate Algebra, 8th edition, by Tobey, Slater, Blair and Crawford, published by Pearson. An electronic copy of the text is integrated into MyMathLab, so no hardcopy text is needed (unless you want one.) Please use the multimedia version of the textbook available in MyMathLab via the Multimedia Library Tab. Use this schedule found on this syllabus to determine the chapter/section to read. The multimedia textbook has embedded videos and worked examples so it is a huge help to master course material.

A scientific calculator is needed for this course and a graphing calculator is recommended (to be used also in MATH1314.) A Texas Instruments TI 83 Plus or TI 84 Plus is recommended. A TI 89 or higher cannot be used in this course, nor any internet accessing or CAS calculator. Do not use stored programs beyond what comes pre-packed in the calculator.

MyMathLab (Pearson)

Please access MyMathLab via Brightspace (in the content section of our course). A document in Course Administration walks you through using the MyMathLab course. Note that

MyMathLab contains course text, multimedia, homework, quizzes, tests and grades.

2. Course Description

This course is designed to develop skills and understanding in the following areas: relations and functions, inequalities, algebraic expressions and equations (absolute value, polynomial, radical, rational), with a special emphasis on linear and quadratic expressions and equations. This course does not transfer.

3. Course Requirements

Homework Assignments

There is an assigned homework for each section to be completed online using MyMathLab. *Most homework allows late submission with a 20% penalty on problems submitted after the due date, except if close to an exam or end of course, then there is no late submission option. Late close dates are as follows: All Exam 1 homework closes on 9/11/22; All Exam 2 homework closes on 9/25/22; All Exam 3 homework closes on 10/9/22; and all Exam 4 homework closes on 11/20/22. Please keep up with the course and do not procrastinate.*

Quizzes and Exams

There are six quizzes, four chapter exams and a comprehensive final exam. All of the quizzes and exams are to be done online using MyMathlab.

You may use your approved calculator (which does not access the internet or contain other than original stored programs) on all assessments. I suggest that you create a formula/concept sheet which has three columns, one for the name of the formula or concept, one for the formula or concept, and one for an example of the formula or concept. Study this document regularly and commit the formulas and concepts to memory, but keep the formula sheet handy in case you need it to check a problem on an assessment. **If you really get stuck, you may use your hardcopy textbook, and homework and class notes on assessments. No other material or help is allowed. Do your own work.**

You can retake each quiz just once (with its time frame) to improve your score; the higher score will be the one that counts. There are no retakes on exams. Quizzes have time limits of two hours; exam 1-4 as well as the final exam have time limits of two and one half hours. At most 4 percentage points of extra credit will be added to your final exam score (for a max score of 100%) for submitting a course evaluation.

4. Determination of Course Grade/Detailed Grading Formula

Grading Formula:

The course grade will be determined by the following formula:

$$\text{Final Average} = 64\% \text{ Chapter Exam Average} + 16\% \text{ Final Exam} \\ + 10\% \text{ Homework Average} + 10\% \text{ Quiz Average}$$

The Final Exam score will replace the lowest Chapter Exam Score when it is larger.

Grading Scale:

Grade A: Final Average in [89.5, 100]
Grade B: Final Average in [79.5, 89.5)
Grade C: Final Average in [69.5, 79.5)
Grade D: Final Average in [59.5, 69.5)
Grade F: Final Average in [0, 59.5)

5. **Make-up policy**

If you are unable to make a scheduled exam within days specified in the course outline, you will be allowed to make up the exam provided that you notify the instructor before the end of the scheduled exam period and have a legitimate reason for not being able to take the exam.

6. **Attendance Policy**

You must log in and be active in MyMathLab each week, preferable at least three times. In addition to time spent in doing homework, taking quizzes and exams it will be necessary to study, using the course materials. Please plan to spend at least 4 hours per week to be successful in the class.

7. **Communicating with your instructor**

All electronic communication with the instructor must be through your COM email. Due to FERPA restrictions, faculty cannot share any information about performance in the class through other electronic means. I will make every effort to respond to your email within 24 hours of receiving it.

8. **Student Learning Outcomes**

Upon successful completion of M0320, students will:

1. Define, represent and perform operations on real and complex numbers.
2. Recognize, understand and analyze features of a function
3. Recognize and use algebraic (field) properties, concepts, procedures (including factoring), and algorithms to combine, transform, and evaluate absolute value, polynomial, radical, and rational expressions.
4. Identify and solve absolute value, polynomial, radical, and rational equations.
5. Identify and solve absolute value and linear inequalities.
6. Model, interpret and justify mathematical ideas and concepts using multiple representations.
7. Connect and use multiple strands of mathematics in situations and problems, as well as to the study of other disciplines.

9. **Academic Dishonesty**

Do your own work on assessments. College of the Mainland is committed to a high standard of academic integrity. All students are responsible for honesty and independent effort. Incidents of academic and scholastic dishonesty (including cheating, plagiarism, and collusion) will be dealt with in a manner that is consistent with College Policy and the Student Handbook. Any student found to have been academically dishonest on an assignment, quiz or exam will receive a zero for that assignment, quiz or exam and he or she will be referred to the Office of Student Conduct for further disciplinary action. Please read the sections on *Standards of Student Conduct and Discipline and Penalties* in the on-line Student Handbook.

10. Concerns

If you have any questions or concerns about any aspect of this course, please contact me using the contact information previously provided. If, after discussing your concern with me, you continue to have questions, please contact the Department Chair, Leslie Richardson, at (409) 933-8329, lrichardson@com.edu.

11. Course Calendar and Pacing

NOTE: The pace of the first three MATH0320 exams is fast to enable students to learn MATH0320 sufficiently to master MATH1314. After week 6, MATH0320 slows down and MATH1314 picks up. MATH0320 ends in the 14th week of the semester to allow students to focus on the completion of MATH1314.

Side-By-Side MATH 0320 – MATH 1314 Course Calendars

Date Range	MATH0320 Assignments/Assessments	Due Date	MATH1314 Assignments/Assessments
Week 1 8/22 – 8/28	Orientation Homework 2.3 Absolute Value Equations 2.6 Linear Inequalities 2.8 Absolute Value Inequalities Quiz A (Sections 2.6 & 2.8) 3.1 Graphing Linear Equations with Two Unknowns	8/28/2022	Orientation Homework
Week 2 8/29 – 9/4	3.2 Slope of a Line 3.3 Graphs and the Equations of a Line 3.5 Concept of a Function 3.6 Graphing Functions from Equations Quiz B (Sections 3.5 & 3.6)	9/4/2022	1.1 Introduction to Graphs
		9/7/2022 Census Day	
Week 3 9/5 – 9/11	Test 1 (2.3, 2.6 2.8, 3.2, 3.3, 3.5, 3.6) 4.1 Systems of Linear Equations in 2 Variables 4.3 Applications of Systems of Equations Quiz C (Section 4.3)	9/5/2022 Holiday 9/11/2022	1.2 Functions and Graphs
Week 4 9/12 – 9/18	5.4 GCF, Factoring by Grouping 5.5 Factoring Trinomials 5.6 Special Cases of Factoring 5.8 Solving Equations by Factoring Quiz D (Sections 5.5, 5.6 & 5.8)	9/18/2022	1.3/1.4 Linear Functions and Equations
Week 5 9/19 – 9/25	Test 2 (4.1, 4.3, 5.4, 5.5, 5.6 & 5.8) 5.2 Dividing Polynomials 5.3 Synthetic Division 6.1 Rational Expressions: Simplifying, Multiplying, Dividing	9/25/2022	1.5 Zeros of Linear Functions

Week 6 9/26 – 10/2	6.2 Add/Subtract Rational Expressions 6.3 Complex Rational Expressions 6.4 Rational Equations Quiz E (Sections 6.1 & 6.4)	10/2/2022	Quiz 1: Sections 1.1-1.5
Week 7 10/3 – 10/9	Test 3 (5.2, 5.3, 6.1, 6.2, 6.3 & 6.4)	10/9/2022	2.1 Increasing/Decreasing Piecewise Functions 2.2 Algebra of Functions
Week 8 10/10 – 10/16	7.6 Complex Numbers Quiz F (Section 7.6)	10/16/2022	2.3 Composition of Functions 2.5 Transformations of Functions Exam 1 (Chapters 1 & 2, excluding 2.4)
Week 9 10/17 – 10/23	8.1 Quadratic Equations		3.2 Quadratic Functions 3.3 Graphs of Quadratic Functions 4.1 Polynomial Functions
Week 10 10/24 – 10/30	8.2 Quadratic Formula	10/30/2022	4.2 Graphs of Polynomial Functions 4.3 Remainder, Factor Theorems 4.5 Rational Functions Quiz 2 Finding Zeros (over 3.2, 4.3, 4.5)
Week 11 10/31 – 11/6	7.5 Radical Equations	11/6/2022	4.6 Inequalities Exam 2 (Chapters 3 and 4) 5.1 Inverse Functions
Week 12 11/7 – 11/13	5.7 Factor Polynomial Completely	11/13/2022	5.2 Exponential Functions 5.3 Logarithmic Functions Quiz 3 Graphing Techniques (over 5.1-5.3) 5.4 Properties of Logarithmic Functions
Week 13 11/14 – 11/20	Test 4 (5.7, 7.5, 7.6, 8.1, 8.2)	11/18/2022 W-Day 11/20/2022	5.5 Exponential, Logarithmic Equations 5.6 Modeling with Exponential and Logarithmic Functions <i>Exam 3 opens early due to Thanksgiving</i>
Week 14 11/21 – 11/27	Comprehensive Final Exam opens early	11/24–25 Holiday	All assignments due 11/28/2022 Exam 3 (Chapter 5) 6.1/6.3 Solving Linear Systems 2-D general as well as via Gaussian/Gauss-Jordan Elimination 6.2 Solving Linear Systems 3-D
Week 15 11/28 – 12/4	Comprehensive Final Exam closes this week	12/4/2022	6.4 Matrix Operations Quiz 4 (over 6.1-6.4) Exam 4 (Chapter 6) Review for Final Exam Homework (due 12/5/2022) Final Exam opens on Saturday, 12/4/2022
Week 16 12/5 - 12/8		12/7	Final Exam (due Tuesday, 12/7/22)

Institutional Policies and Guidelines

Grade Appeal Process: Concerns about the accuracy of grades should first be discussed with the instructor. A request for a change of grade is a formal request and must be made within six months of the grade assignment. Directions for filing an appeal can be found in the student handbook. <https://build.com.edu/uploads/sitecontent/files/student-services/Student_Handbook_2019-2020v5.pdf. *An appeal will not be considered because of general dissatisfaction with a grade, penalty, or outcome of a course. Disagreement with the instructor's professional judgment of the quality of the student's work and performance is also not an admissible basis for a grade appeal.* https://build.com.edu/uploads/sitecontent/files/student-services/Student_Handbook_2019-2020v5.pdf

Academic Success & Support Services: College of the Mainland is committed to providing students the necessary support and tools for success in their college careers. Support is offered through our Tutoring Services, Library, Counseling, and through Student Services. Please discuss any concerns with your faculty or an advisor.

ADA Statement: Any student with a documented disability needing academic accommodations is requested to contact Michelle Brezina at 409-933-8124 or mvaldes1@com.edu. The Office of Services for Students with Disabilities is located in the Student Success Center.

Textbook Purchasing Statement: A student attending College of the Mainland is not under any obligation to purchase a textbook from the college-affiliated bookstore. The same textbook may also be available from an independent retailer, including an online retailer.

Withdrawal Policy: Students may withdraw from this course for any reason prior to the last eligible day for a "W" grade. Before withdrawing students should speak with the instructor and consult an advisor. Students are permitted to withdraw only six times during their college career by state law. The last date to withdraw from the 1st 8-week session is October 5. The last date to withdraw from the 16-week session is November 18. The last date to withdraw for the 2nd 8-week session is December 1.

FN Grading: The FN grade is issued in cases of *failure due to a lack of attendance*, as determined by the instructor. The FN grade may be issued for cases in which the student ceases or fails to attend class, submit assignments, or participate in required capacities, and for which the student has failed to withdraw. The issuing of the FN grade is at the discretion of the instructor. The last date of attendance should be documented for submission of an FN grade.

Early Alert Program: The Student Success Center at College of the Mainland has implemented an Early Alert Program because student success and retention are very important to us. I have been asked to refer students to the program throughout the semester if they are having difficulty completing assignments or have poor attendance. If you are referred to the Early Alert Program you will be contacted by someone in the Student Success Center who will schedule a meeting with you to see what assistance they can offer in order for you to meet your academic goals.

Resources to Help with Stress:

If you are experiencing stress or anxiety about your daily living needs including food, housing or just feel you could benefit from free resources to help you through a difficult time, please click here <https://www.com.edu/community-resource-center/>. College of the Mainland has partnered with free community resources to help you stay on track with your schoolwork, by addressing life issues that get in the way of doing your best in school. All services are private and confidential.

You may also contact the Dean of Students office at deanofstudents@com.edu or communityresources@com.edu.