



Syllabus
MAT1033 Intermediate Algebra

Term: FALL 2009-1

Reference #: 528343

Instructor's Name: M.Beylin

E-mail: mbeylin@mdc.edu

Office: Math Lab, Room # 2223

Mail-box: Math Lab, Room # 2223

Office Hours: MWF 6:40 - 7am; TR 6:55 – 7:25am

To leave a message for the instructor, please call the Math Lab at 305-237-3834 during its hours of operation:

MTWR 8:00 AM - 9:00 PM

F 8:00 AM - 4:00 PM

S 8:00 AM - 4:00 PM.

Course Description:

Through this course students develop various concepts of Algebra. Students will solve linear, quadratic, rational, and radical equations; graph linear equations and inequalities in one variable; graph linear equations in two variables; solve and graph systems of linear equations and inequalities in two variables; simplify rational expressions; simplify expressions containing rational exponents; simplify complex numbers; solve related applications.

AA degree-seeking students: Upon successful completion of MAT 1033 (grade of A, B or C), you should register for MGF 1106, MGF 1107, MAC 1105, or STA2023 depending on your major and the institution to which you are planning to transfer. Be sure to take your mathematics courses in consecutive terms

Credits: 3

Pre-requisites

MAT 0020 or MAT 0024 with grade of S, or appropriate placement score

Textbook

Beginning and Intermediate Algebra, 4th Ed, by Elayn Martin-Gay; Pub. Prentice Hall

Assistance

You can obtain assistance for mathematics classes in the Mathematics Laboratory, room 2223. There, you will find course-related videotapes and computer software, and tutors that can help you to successfully complete this course. The Math Lab is open during these hours:

MTWR 8:00 AM - 9:00 PM

F 8:00 AM - 4:00 PM

S 8:00 AM - 4:00 PM.

You do not need an appointment to get assistance from the tutors on the Floor, but the tutors on the Floor must help all the students and may have to take turns; they cannot work with one student for a prolonged period of time.

One-to-one tutoring (1 hour long session) is available by appointment only. Please visit the Math Lab and speak to any of the Supervisors to schedule an appointment.

If you have a problem with the Math Lab, please contact any of the supervisors: Arcides Acosta, Maliya Beylin, Jose De Paz, or Verdieu Lucas at 305-237-3834 or visit their offices in room 2223. If *after speaking with a supervisor* the problem persists, then you need to visit the chairperson, Dr. Alicia Giovino (office 1540) as the next step.

Classroom and Laboratory Etiquette

The instructor would like to welcome all students into an environment that creates a sense of community, pride, courtesy and respect; we are all here to work cooperatively and to learn together. In order to create a smooth and harmonious learning community, please make every attempt to come to all the class sessions, to come to class on time, and to stay until the end of the class session unless you have informed your instructor that you must leave early. There may be a time when you are unavoidably late for class. In that case, please come into the room quietly (through the back door if there is one) and choose a seat closest to the entrance.

Once the class session has begun, please do not leave the room and then re-enter unless it is an emergency. If you miss a class meeting for any reason, you are responsible for all material discussed, for announcements made in your absence, and for acquiring any materials that may have been distributed in class. You are responsible for contacting the instructor for this information.

It is important that we are all able to stay focused on the class discussion. For this reason, only one person in the class at a time should be speaking. Side conversations are distracting for surrounding students and for the instructor. Professional behavior is expected at all times. You are encouraged to ask questions.

Please refrain from bringing food or drinks into any classroom or the Math lab.

Beepers and Cellular telephones must be turned off. ***The vibrate mode is not considered turned off.*** Absolutely no text messaging or instant messaging is allowed in the classroom. The instructor may ask you to leave the classroom for the day if you are caught.

Problems with Instructor

If you are having a problem with your mathematics instructor, please see that instructor **during** office hours. Before or after class is generally not a good time to discuss a problem with an instructor who is either about to start class or on the way to the next class. If *after speaking with your instructor during office hours* you cannot resolve the problem, then you need to visit the chairperson, Dr. Alicia Giovinazzo (office 1540) as the next step.

Professional Student Behavior

The MDC Students' Rights and Responsibilities Handbook describes students' appropriate and inappropriate behaviors, along with their consequences. Additionally, please be aware that cheating, plagiarism, and disruptive behavior are not tolerated and can result in serious consequences such as failure of a course or dismissal from the college. For more information, go to http://www.mdc.edu/policy/student_rights_and_responsibilities.pdf.

Office Hours

Your professor urges you to avail yourself of his/hers individual instruction during office hours. Do not wait until you are in trouble. If you have been absent or late to class, please read the lesson you missed and come to his/her office prepared with questions.

Attendance

The number one key to educational success is to attend classes. Students are responsible for any work missed when absent. Class attendance will be recorded daily. ***Frequent absences may cause you to be drop from the course.*** You should make it an effort to be in class, and on time. *Lateness is rude and disruptive.*

Registration

It is your responsibility to make sure that you are registered for this course. Be sure to obtain a copy of your schedule to verify the reference number and that you do not have any outstanding fees. *You will not be allowed to take the final exam if you are not in your instructor's class roster* so make sure to resolve any issues prior to the final exam date.

Withdrawal

If you feel that you will be unable to complete the requirements for passing this class, it is important that you drop the class by the college's "drop date" as established by the registrar's office. You should speak to your instructor prior to making the decision to drop. Remember that it is your responsibility to drop a class, not the instructor's. If extenuating circumstances such as illness, accident, change in employment situation, etc., prevent you from continuing to attend your class **before** the drop date, speak to your instructor first and if needed, to the Chairperson, Dr. Alicia Giovinazzo (office 1540) to assess your options. If such a situation occurs **after** the drop date, you should contact the instructor for information as to how you can complete the requirements for passing the course.

Homework

At the discretion of the instructor, homework may be completed on line or on paper. Homework completed on paper is turned in to the instructor at the beginning of class on the day of each unit test and is generally checked for completion. All work must be shown. Your complete name and MDC-ID, instructor's name and reference number, book section numbers and problem numbers must be clearly written on your homework. Section numbers must be highlighted. The homework must be turned in stapled together and in the proper order. Homework may not be turned in late.

Grading

In this class, you will have

- 4 Departmental Unit Exams
- Short in-class quizzes, at the instructor's discretion
- Online quizzes, homework and reviews, at the instructor's discretion
- A Departmental Mid-Term Exam
- A Departmental Final Exam, which is cumulative and must be taken during final exam week on the date and time designated by the registrar's office (<http://www.mdc.edu/main/finals>).

A grade of 60% or higher in the final exam is a requirement to pass the course even if the student has passing scores on the in-class exams.

Grading scale: The final grade will be based on the following components

4 in-class Exams	40 %	Average of 90-100%	A
Homework	10 %	Average of 80-89%	B
Quizzes	10 %	Average of 70-79%	C
Mid Term	10 %	Average of 60-69%	D
Cumulative Final Exam	<u>30 %</u>	Average below 60%	F
Total	100%		

If you miss an Exam, then your grade on the missed Exam is a zero. **There are no exceptions.**

In addition, at the discretion of the instructor, students may be assessed through various in-class activities such as board work and small group presentations.

Incomplete

The grade of *I (Incomplete)* is given in the rare case that a student is **passing** a class but for some extenuating circumstance is unable to complete the last part (usually the final exam) of the class. ***If you are not passing your class, it is not possible for your instructor to give you an I.*** Note that you will have one full term (Fall or Winter) to complete the requirements of your Incomplete Contract. If you do not complete your requirements in that time, the **I** generally will automatically change to an **F** on your records. The instructor makes the determination as to whether you are eligible for an Incomplete.

MDC Email Account

Students are **required** to activate and use their MDC email account. The MDC account allows students to receive email from their instructors and get notification/announcements or other pertinent information from the College

Important Dates

Class begins		
Weekdays and Evening		M Aug 24
Weekend (Saturday and Sunday)		S Aug 29
Last day to Withdraw with a Grade of W		T Nov 3
Last day of Final Exams		F Dec 18
Holydays	Labor Day: S Sep 5, U Sep 6, M Sep 7	
	Veterans Day: W Nov 11	
	Thanksgiving: R Nov 26, F Nov 27, S Nov 28, U Nov 29	

Miami-Dade Learning Outcomes

As graduates of Miami Dade College, students will be able to:

1. Communicate effectively using listening, speaking, reading, and writing skills.
2. Use quantitative analytical skills to evaluate and process numerical data.
3. Solve problems using critical and creative thinking and scientific reasoning.
4. Formulate strategies to locate, evaluate, and apply information.
5. Demonstrate knowledge of diverse cultures, including global and historical perspectives.
6. Create strategies that can be used to fulfill personal, civic, and social responsibilities.
7. Demonstrate knowledge of ethical thinking and its application to issues in society.
8. Use computer and emerging technologies effectively.
9. Demonstrate an appreciation for aesthetics and creative activities.
10. Describe how natural systems function and recognize the impact of humans on the environment.

Each course taken at the college addresses some of these Learning Outcomes. Intermediate Algebra (MAT1033) addresses outcomes 1, 2, 3, 4, and 8.

- Communicate effectively using listening, speaking, reading, and writing skills.
This course requires reading and understanding the material covered in the textbook. Students will need to pay attention in class and may periodically be asked to explain a concept discussed in class.
- Use quantitative analytical skills to evaluate and process numerical data.
The student will have the opportunity to develop these skills in solving applications of linear equations in two variables. They will also develop the ability to read and interpret graphs that represent linear patterns of data.
- Solve problems using critical and creative thinking and scientific reasoning.
Some of the applications of systems of linear equations in two variables and of rational expressions will require the use of critical and creative thinking. They may at times need to use a chart to organize the information given in the problem. The problem solving approach they will use in this course constitutes an important contribution to the development of their scientific reasoning ability.
- Formulate strategies to locate, evaluate, and apply information.
The areas that will provide students with this opportunity are applications of linear equations.
- Use computer and emerging technologies effectively.
Most homework assignments and quizzes will be posted on line on the Course Compass/My Math Lab website. Students will develop the ability to use these computer resources to monitor their progress and to help them reach a better understanding of the concepts, ideas and applications discussed in the course. They will also have the opportunity to use the external links posted on the website to explore topics related to the course goals and objectives.

MAT1033

Syllabus, Homework Assignments
Tentative Schedule (16 Week term)

Week	Sect.	Topic	Suggested Homework
1	3.1	Rectangular Coordinate System	1 – 10 all, 17-35 odd, 39-65 odd
	3.2	Graphing Linear Equations	1 – 53 odd
2	3.3	Intercepts	1 – 51 odd
	3.4	Slope and Rate of Change	1 – 69 odd Integrated Review: Pg. 213 #1 – 15 odd
3	3.5	Equations of Lines	1 – 73 odd
	Review of chapter 3		On line Quiz 1 (Review for Exam 1)
===== Departmental Exam # 1 =====			
4	4.1	Solving Systems of Linear Equations by Graphing	1 – 51 odd
	4.2	Solving Systems of Linear Equations by Substitution	1 – 35 odd
5	4.3	Solving Systems of Linear Equations by Addition	1 – 51 odd Integrated Review: Pg. 267 #1 -21 odd
	4.5	Problem Solving	1 – 21 odd, 35, 37 On line Quiz 2
6	9.4	Graphing Linear Inequalities in two Variables	1 – 6 all, 7 – 41 alternate odd, 43 - 71 odd
	===== Departmental Exam # 2 =====		
	10.1	Radicals	1 – 75 odd
7	10.2	Rational Exponents	1 – 97 odd
	10.3	Simplifying Radical Expressions	1 – 71 odd
8	10.4	Adding, Subtracting and Multiplying Radical Expressions	1 – 71 odd
	10.5	Rationalizing Denominators and numerators	1 – 34 alternate odd, 35-47 odd, 49 – 66 alternate odd Integrated Review: Pg. 615 #1 – 37 all
9	10.6	Radical Equations	1 – 61 odd
	10.7	Complex Numbers	10.7: 1 – 23 odd On line Quiz 3 (Review of Chapter 10)
Review for the Mid Term			
===== Departmental Midterm =====			
10		Factoring review	Integrated Review: Pg 402 #1 – 99 odd
	6.6	Solving Quadratic Equations by Factoring	1 – 75 odd; On line Quiz 4 (chapter 6)
11	7.1	Simplifying Rational Expressions	1 – 55 odd
	7.2	Multiplying and Dividing Rational Expressions	1 – 57 odd
	5.6	Division of Polynomials (Long Division)	1 - 27 odd
12	7.3	Adding and Subtracting Rational Expressions with Common Denominators	1 – 61 odd
	7.4	Adding and Subtracting Rational Expressions with unlike Denominators	1 – 67 odd

Week	Sect.	Topic	Suggested Homework
13	7.5	Solving Equations containing Rational Expressions	1 – 53 odd; Integrated Review: Pg. 471 #1-21 odd; On line Quiz 5
	===== Departmental Exam # 3 =====		
	7.6	Problem Solving	1 – 27 odd, 31 – 37 odd, 43, 47 – 51 odd, 57, 61, 65 – 69 odd
14	Cont 7.6	Problem Solving	
	8.4	Problem Solving Continued (Direct and Inverse Variation)	1 – 25 odd
	7.7	Simplifying Complex Fractions	1 – 49 odd
15	11.1	Solving Quadratic Equations by Completing the Square	1 – 73 alternate odd
	11.2	Solving Quadratic Equations using the Quadratic Formula	1 – 57 odd
	Review for Exam 4		
	===== Departmental Exam # 4 =====		
16	Review for the Final		
	===== Departmental Final Exam =====		