

*Course: MAC 1147 Precalculus , Section B51*

*Fall 2017*

*Prerequisite: MAC 1105 with a minimum grade of C or adequate placement test score. Students may **NOT** receive credit for this course if they already have credit in MAC 1140, MAC 2147, or MAC 1114.*

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***Topics Covered:** Polynomial and rational functions and their graphs, trigonometric functions and their graphs, inverse trig functions, trig identities and conditional equations, solving right and oblique triangles, polar coordinates, conic sections, sequence and series and the binomial theorem.*

***Objectives:** Upon successful completion of this course, students will be able to recall and apply formulas from Algebra and Trigonometry, make conceptual connections among the materials of this course and relate them to other courses, identify study skills that work best for them, and ready to take Calculus 1.*

***Instructor:** Mr. Rostamian*

***Time:** WF 1:00 pm-1:50 pm, & M 12:00 pm-1:50 pm*

***Office:** A1, room 376*

***Ph:** (305) 919 - 4048*

***Email:** rostamia@fiu.edu (Email is the **quickest** way to communicate with me.)*

***Office hours:** MWF 9:45am-10:45am, W 4:30pm-5:30pm, MF 3:00pm - 4:00pm*

***Text:** Algebra & Trigonometry by R. Blitzer, Pearson, 6th edition  
Textbook packaged with MyLabsPlus access code, ISBN 9781323656495  
MyLabsPlus Access Code alone, ISBN 9781323739778. *It is recommended that this homework component be combined with **Offline textbook homework particularly in sections on graphing and proofs of Trig identities.** Tests will cover both MyLabsPlus and text problems.**

***Math Department Website:** For tutoring schedule, Solution Manual, etc, visit [mathstat.fiu.edu](http://mathstat.fiu.edu)*

***Sections to be covered:***

***CHAPTER 2:** Review sections 2.2, 2.5, and 2.6 remember that you should have seen this material in MAC 1105.*

*Section 2.2 review objectives 4 and 5*

*Section 2.5 review objectives 1-4 and 7*

*Section 2.6 review objectives 1-3 and 5*

*Section 2.7 is reviewed with chapter 4.*

***CHAPTER 3:***

Section 3.3 cover objectives 1, 2, and 4  
Section 3.4 cover objectives 1-3  
Section 3.5 cover everything (symmetry is optional)  
Section 3.6 cover objectives 1-2.

**CHAPTER 4:** Review sections 2.7 and 4.1-4.4 remembering that students should have seen this material in MAC 1105.

Section 2.7 review objectives 2-3  
Section 4.1 you should be able to graph exponential functions, including shifts and reflections, and state the domain and range of these functions.  
Section 4.2 review the first 5 objectives, including examples with natural & common logarithms  
Section 4.3 review the first 5 objectives  
Section 4.4 review objectives 2-4.

**CHAPTER 5:**

Section 5.1 cover objectives 1-7  
Section 5.2 cover all 6 objectives  
Section 5.3 cover all 4 objectives  
Section 5.4 cover objectives 1-4  
Section 5.5 cover objectives 1-5  
Section 5.6 cover objectives 1, 3 and 5.  
Section 5.7 cover all 5 objectives  
Section 5.8 cover objective 1.

**CHAPTER 6:**

Section 6.1 cover objective 1  
Section 6.2 cover objectives 1, 2, & 3; you can avoid the tangent identities by dividing sine by cosine.  
Section 6.3 cover objective 1; you can avoid the tangent identity by dividing sine by cosine. (I strongly recommend that you study objectives 2 & 3 in this section. They will be covered if time allows.)  
Section 6.5 cover all 6 objectives.

**CHAPTER 7:**

Section 7.1 Cover objectives 1, 2 and 4  
Section 7.2 Cover objectives 1 and 2  
Section 7.3 Cover all 6 objectives  
Section 7.4 Cover objective 1. (At a minimum, we cover circles, cardioids and rose curves. There is no online homework for this section.)

**CHAPTER 10:**

We cover the conic sections in an informal manner. You do not need to know what a focus or a directrix is. You should be able to look at a second degree equation and identify which conic it is, and then draw the graph.

Section 10.1 Cover objectives 1, 2, & 3 (graph only)  
Section 10.2 Cover objectives 1, 2, 3, & 4 (graph only)  
Section 10.3 Cover objectives 1, 2, 3 (graph only) & problems 65 and 66 related to objective 4.

**CHAPTER 11:**

Section 11.1 Cover all 4 objectives

Section 11.2 Cover all 4 objectives  
Section 11.5 cover objectives 1 & 2

**Note:** You are **RESPONSIBLE** to know the materials on chapters P-2. **REVIEW** if needed.

There will be 4 tests (15% each), MyLabsPlus HW (15%) and a cumulative final exam (25%). **THE FINAL EXAM MUST BE TAKEN.** I will NEVER curve my grades.

**My grading scale is as follows:**

95% - 100%	A	74% - 76%	C+
90% - 94%	A-	67% - 73%	C
85% - 89%	B+	60% - 66%	D
80% - 84%	B	0% - 59%	F
77% - 79%	B-		

**Attendance** is **OPTIONAL** on non-test days. Please be on time. For each tardy, 3 points will be taken off from the test following the tardy days. **On test days, attendance is REQUIRED.** There are **NO MAKE UP TESTS.** If you miss a test, and in my opinion, the absence is excusable, then your final exam will count as a grade for the missing test. By excusable I mean hospital bill, accident report, arrest form, etc. **DO NOT MISS MORE THAN ONE TEST!** I will NOT accept any excuses, and I will NOT count your zero grad(s) by that of the Final exam, etc. Be on time on test days. **THERE WILL BE NO EXTRA TIME.**

**Required Materials:** A cheap (\$9-\$20) scientific calculator is all you need. If you are not sure how to tell if a calculator is scientific, it must have a key labeled SIN to be scientific. The only scientific calculators that you may **not** use are the Casio FX-82ES, FX-83ES, FX 85ES, Casio FX-115 (ES, MS, ES Plus or MS Plus), Casio FX-300 (ES, MS, ES Plus or MS Plus), Casio FX-350 (ES, MS, ES Plus or MS Plus), Casio FX-570ES, any Sharp Write View calculator, the HP SmartCalc 300s, the TI-36X Pro and the TI-30XS MultiView calculator. Graphing calculators and programmable calculators are not permitted. If you have to purchase a calculator, I recommend the **HYPERLINK** "[http://www.amazon.com/Texas-Instruments-TI-30XA-Scientific-Calculator/dp/B00000JBNS/ref=sr\\_1\\_2?ie=UTF8&qid=1377279741](http://www.amazon.com/Texas-Instruments-TI-30XA-Scientific-Calculator/dp/B00000JBNS/ref=sr_1_2?ie=UTF8&qid=1377279741)" **TI-30XA**. All tests must be written using pencil.

Turn **ALL** electronic devices off before entering the classroom. I do not initiate drops. If you plan to drop the course, then drop it before the deadline to avoid a grade of F. (The deadline for dropping classes with a grade of DR can be found on FIU's web page.)

**EARLY ALERT:** In an effort to help you succeed in your academic courses, FIU utilizes an Early Alert system. Instructors are now able to notify students' academic advisors if there are concerns about class performance. If an alert is submitted, your academic advisor will send you a message via your Student Dashboard (accessed via your MYFIU page) to discuss ways to improve your performance. Please respond to any communication you receive from your

*academic advisor about an early alert. Our goal with this program is to help you to be successful by identifying any issues as early on as possible and working to address them.*

### **Tutoring and Support Services:**

**On Campus Tutoring:** *The University Learning Center in GL 120 located in GL 120 at the Modesto Maidique Campus or in AC1 160 at the Biscayne Bay Campus. If you go and there are tutors available, you will get immediate help. Otherwise, you will have to make an appointment. The phone number is (305)348-2441 for MMC and (305) 919-5927 for BBC.*

**AAA Tutorial Program:** *Offered by the Office of Multicultural Programs and Services. Tutoring is free for all FIU students. The AAA Tutorial Office is located in GC 267 at the Modesto Maidique Campus or in WUC 253 on the Biscayne Bay Campus. Subjects include College Algebra, Trigonometry, Differential Equations, Finite Math, Statistics, Business Calculus, Pre-Calculus, Calculus I,II and III. If you want to make an appointment please call 305-348-6425 for MMC or 305-919-5817 for BBC or e-mail [aatutoringfiu@gmail.com](mailto:aatutoringfiu@gmail.com)*

**TEST DATES**( *tentative*): ***I reserve the right to change the test dates or any necessary changes to the contents of this syllabus. Changes will be announced ASAP.(about 3 days earlier.)***

*Test 1: September 27th*

*Test 2: October 18th*

*Test 3: November 8th*

*Test 4: November 29th*

*Final exam: TBA, Based on FIU Final Exam schedule.*

**GOOD LUCK.**