

# College Algebra and Trigonometry I

MA 15300-04

Spring 2014

**Instructor:** John LaMaster

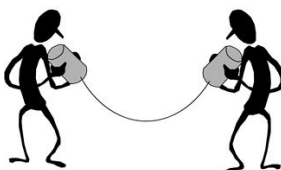
**Course Web Site:** <http://ipfw.blackboard.com>

**Class Meetings:** MWF: 11:00 a.m. – 11:50 a.m. KT 123

**Office:** Kettler 264

**Office Hours:** Monday: 10:00 a.m. – 10:50 a.m.  
Tuesday: 12:00 p.m. – 1:00 p.m.  
Wednesday: 10:00 p.m. – 10:50 p.m.  
Thursday: 12:00 p.m. – 1:00 p.m.  
Also with John by appointment or chance or e-mail or Skype™.

**Reachable:** Skype: [john.g.lamaster](https://www.skype.com/people/john.g.lamaster)  
E-mail: [lamaster@ipfw.edu](mailto:lamaster@ipfw.edu)  
Office/voice mail: 260-481-5430  
Math Dept: 260-481-6821  
FAX: 260-481-0155




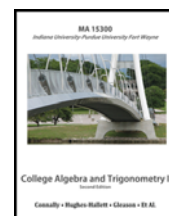
**Prerequisites:** MA 113 with C or higher or placement by departmental exam. This course is primarily intended for students who have completed two years of high school algebra.

**Objectives:** This course serves both as a preparation to the calculus sequences and as a terminal course for students who need only this level of mathematics.

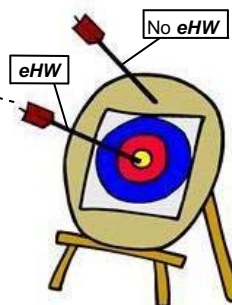
**Content:** Students address problems presented as real world situations by creating and interpreting mathematical models which include linear, exponential, quadratic, power, polynomial and rational functions. Solutions to the problems are formulated, validated, and analyzed using mental, paper and pencil, algebraic, and technology-based techniques as appropriate. We will cover roughly Chapters 1 through 5, Section 8.1, and Chapter 9 of the text.

**Required:** You need these three items.

1. The **text**: *Functions Modeling Change, 3rd Edition* by Connally, et al. or custom versions of these. Here is one option.  More choices are shown on Blackboard in the Week 1 Folder.
2. A **graphing calculator** for activities, assignments, and exams. The **TI-83 Plus** or **TI-84 Plus** or **TI-84C Plus** are the *tools of choice*.  
*Note:* You can rent a TI-83 Plus for \$10 or TI-84 Plus for \$15 at Walb Student Union 225 (481-6586).
3. An **eHW access code** for purchase on the *eHW* Web Site. You get one year of access for only \$13.95. You will use this online homework system for all your graded homework.



Despite the extra fee for *eHW*, students tell me each year it was worth every penny. It gives you the essential practice you need to succeed.  
**Note:** If you have an *eHW* access code from last semester it may still work; you will just need to register for my section.



**Optional:** *Graphing Calculator Guide for the TI-83/82* by Carl Swenson

## Important Dates

*Ncūw'F c'f' 'q' 'Ej cpi g'lt qo 'Et gf kv'q' Cwf kx:* **Friday, Jan. 17**

*Oct v'p' Nw'j gt 'M'pi 'F c'f' 'P q' 'erc u'gu' o ggy:* **Monday, Jan. 20**

*Vguw'3 \*Vgpc v'kxgr' 'o quw'qh'Ej cr vgt '3' c'pf '4+<* **Friday, Feb. 14**

*Vguw'4 \*Vgpc v'kxgr' 'o quw'qh'Ej cr vgt '5' c'pf '6Ø:* **Friday, March 7**

*Urt lpi 'Dt gcm* **Monday, March 10- Friday, March 14**

*Ncūw'F c'f' 'q' 'Y kj f tcy 'Y kj qw'c' Ngwgt ':* **Friday, March 21**

*Test 3 (Tentatively most of Chapter 6.'5, 8.1, and some of Chapter 9):* **Wednesday, April 23**

*Final Exam (Rest of Chapter 9 and Comprehensive):* **Monday, May 5, 2014 3:30 p.m. – 5:30 p.m**

**Attendance/ Participation:** Since much of the learning in this course occurs interactively during class time, attendance is vital and is part of the course grade (roughly 6%). You cannot earn your attendance credit if you are not here for the **entire** class meeting, which means that you are in your seat at the beginning of the period and staying until class ends. You are expected to not only attend all class meetings, but participate in your group and contribute to the learning environment of the class as a whole. If you are blatantly not participating in class (such as doing homework for other classes, on a mobile device), you may be physically here, but this is *worse* than being absent, since it lowers the class morale. To earn complete points for attendance on a particular day, you will be required to do more than just “show up.” For example, you may be asked to submit work from class activities to earn your participation credit. If you miss a class, use the Web Site to check what you missed so you come prepared to class.

Your group sinks or swims together. It is important that all members of the group participate and learn the material. If all members of your team score 90% or above on a chapter test, each will receive 5 bonus points.

**Internet Access:** Part of your semester fees went toward giving you Internet access. Make sure your account is activated by next week. Call the Help Desk at 481-6030 if you have questions or need assistance.

**Assignments:** Homework problems from the text will be regularly assigned, but not collected each day. These problems are to be prepared for discussion during the next class period. Completion of the assignments is essential for understanding the material. Assignments will be posted on my Web Site at so if you miss a class, you can come prepared the next day. However, to be safe, get the phone number of someone else in the class and just call them to see what you missed! **Assignments that will be graded include:**

- **Reading Questions** over the assigned reading.
- **Electronic Homework (eHW)** completed over the Internet.



**Quizzes:** Occasional section quizzes worth 25 pts. will be given, usually announced a day in advance. There will be no make-up quizzes **for any reason**. However, you can drop all but the top four quizzes.

**Exams:** There will be three chapter exams, worth 100 points each. The final exam is comprehensive. Mark your calendars now: **Monday, May 5, 2014 3:30 p.m. – 5:30 p.m.** Unexcused absences from exams shall result in a score of zero. ***If an absence is unavoidable and deemed legitimate, you must contact me within 24 hours of the exam (if possible, in advance) in order to schedule a make-up.*** Each student is allowed one make-up exam.

### Grading:

Attendance/Participation .....	50 pts.
Reading Questions .....	50 pts.
Internet (e-HW) Assignments.....	100 pts.
Quizzes (your highest 4 scores at 25 pts. each).....	100 pts.
Tests (3 Chapter tests at 100 points each) .....	300 pts.
<u>Comprehensive Final Exam</u> .....	<u>200 pts.</u>
<b>Total Points Possible.....</b>	<b>800 pts.</b>

90% -100% (720 pts. or more)	A
80% - 89% (640 to 719 pts.)	B
70% -79% (560 to 639 pts.)	C
60% - 69% (480 to 559 pts.)	D
<60% (Below 480 pts.)	F

If you have a disability and need assistance, special arrangements can be made to accommodate most needs. Contact the Director of Services for Students with Disabilities (SSD). They are located at Walb Student Union, Room 113, telephone 481-6658, as soon as possible to work out the details. Once the Director has provided you with a letter attesting to your needs for modification, bring the letter to me. For more information, please visit <http://www.ipfw.edu/ssd/>, the Web Site for SSD.