

MA 153 Fall 2009

Datamate

Instructor: John LaMaster

Web Sites: John's Home Page: <http://www.ipfw.edu/math/lamaster>
This section's Home Page: <http://users.ipfw.edu/lamaster/ma153/f09ma153datamate.htm>

Class Meetings: TR: 9:00 a.m. – 10:15 p.m. KT 225

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| Supplemental Instruction and Learning Community Hour Tuesdays and Thursdays: 10:30 – 11:50 a.m. KT 225 See description on back under Attendance / Participation |
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Office: Kettler 264

Office Hours: 30 minutes before class
Monday and Wednesday: 10:00 a.m. – 10:50 a.m. in KT 264
Monday 1:00 p.m. - 1:20 p.m.
Thursday 1:30-2:20 p.m.
Also by appointment or chance.

Reachable: 481-5430 (office/voice mail)
481-6821 (Math Dept)
481-6880 (FAX)
email: lamaster@ipfw.edu

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. With CHEM 115 *General Chemistry*, this learning community includes activities to help students:

1. find and evaluate information for academic and personal use
2. use technology effectively to support learning
3. use writing assignments to encourage reflection on one's learning and reinforce learning
4. connect concepts and applications to family, work, and social lives
5. connect to IPFW resources for academic, social, and personal enrichment

Content: College Algebra provides students a college level academic experience that emphasizes the use of algebra and functions in problem solving and modeling, provides a foundation in quantitative literacy, supplies the algebra and other mathematics needed in partner disciplines, and helps meet quantitative needs in, and outside of, academia. 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. Students develop their reading, writing, and questioning skills in an interactive classroom setting. We will cover roughly Chapters 1-5 and 9 of the text.

Required: *Functions Modeling Change, 3rd Edition* by Connally, Hughes-Hallett, Gleason, et al.

An access code for *e-HW* (available behind the counter in the Kettler bookstore)

You will be required to use a graphing calculator for activities and assignments in and out of class. The Graphing Calculators Web Page (<http://www.ipfw.edu/math/resources/calculators.shtml>) can help you obtain and use a grapher. The **TI-83 Plus** or **TI-84 Plus** (or Silver Editions of these) are the *tools of choice*, since these are also used in CHEM 115.

Note: You can rent a TI-83 Plus for \$10 at Walb Student Union 225 (481-6586).

Optional: *Student's Study Guide* by Cannon
Graphing Calculator Guide for the TI-83/82 by Carl Swenson

Important Dates

Test 1 (Tentatively most of Chapters 1 and 2): **Tuesday, Sept 22**

Fall Break: **Monday, Oct. 12- Tuesday, Oct. 13**

Test 2 (Tentatively most of Chapters 3 and 4): **Tuesday, Oct. 27**

Last Day to Withdraw Without a Letter Grade: **Friday, Oct. 30**

Thanksgiving Break: **Wednesday, Nov. 25 - Friday, Nov. 27**

Test 3 (Tentatively most of Chapter 5, 8.1, and most of Chapter 9): **Tuesday, Nov. 1**

Final Exam (Rest of Chapter 9 and Comprehensive): **Monday, Dec. 14, 2009 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 3%). 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, reading the newspaper), 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. Although supplemental instruction is optional, attendance is expected during the learning community period when scheduled. Work done during the learning community period will be incorporated into the course grade.

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** completed over the Internet.
- **Writing assignments** that will be completed by hand and collected throughout the course for grading.

Quizzes: Occasional section quizzes worth 25 pts. will be given, usually announced a day in advance. You can drop all but the top four quizzes. For this reason, there will be no make-up quizzes **for any reason**. Don't ask. The answer is no.

Exams: There will be three chapter exams, worth 100 points each. The final exam is comprehensive. Mark your calendars now: **Monday, Dec. 14, 2009 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:

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| Attendance/Participation | 25 pts. |
| Internet (e-HW) Assignments..... | 100 pts. |
| Writing Assignments..... | 50 pts. |
| Reading Questions | 25 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> |
| Total Points Possible..... | 800 pts. |

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| 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.