

TROY UNIVERSITY

COURSE SYLLABUS

Pre-Calculus Algebra - Math 1112

Term 3 2012

18 Mar 2013 – 19 May 2013

LOCATION / TIME: Thursday , 5:00 - 9:45 p.m. at Eglin Educational Center

INSTRUCTOR/PROFESSOR

William P. Cast

Home Phone: 850-862-9045

e-mail: wcast@troy.edu

Office Hours: Other times by appointment

CATALOG DESCRIPTION

Topics include real and complex numbers; polynomials and factoring; rational exponents; roots and radicals; linear and Quadratic equations; Linear inequalities with applications. and quadratic functions with and graphing. Prerequisite: Placement test or a grade of "C" or better in Math 1105. This course will not substitute for any general studies requirement. This course is for institutional credit and will not be used in meeting degree requirements.

EDUCATION

B.S., Mathematics, University of Tampa, 1964

M.S., Applied Mathematics, University of Southern Mississippi, 1967

MSEE., Electronic Engineering, University of Florida, 1980

STUDENT OUTCOMES

Upon completion of this course the student will be able to:

1. Solve linear, quadratic equations and inequalities.
2. Solve Applications using linear equations.
3. Solve Other types of equations.
4. Graph Equations.

5. Write equations of lines using slopes with Applications.
6. Graph functions, find the domain and range of a function.
7. Implement graphing techniques.
8. Perform function operations and composition.
9. Perform operations on polynomials and rational functions.
10. Factor polynomials.
11. Perform operations on inverse, exponential and logarithmic functions.

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12. Compute solutions to systems of linear equations and inequalities.
13. Solve Quadratic equations with Applications.
14. Analyze Linear and Quadratic Functions.
15. Compute Linear Programming Problems.

Students will demonstrate the above through their performance on the examinations and assignments.

***TEXTBOOK(S) AND/OR OTHER MATERIALS NEEDED**

Math 1112 Precalculus Algebra (Custom Package) Author:

Pearson Custom Publishing Edition/Copyright:

10 Publisher:

Pearson Custom Type:

Paperback

REQUIRED ADDITIONAL READING

None

RECOMMENDED ADDITIONAL READING

None

RESEARCH COMPONENT

None

ENTRANCE COMPETENCIES

None

COURSE REQUIREMENTS

The student must complete all weekly examinations, Final exam and assignments to satisfy course requirements. The course schedule provides study assignments, examination dates, and assignment due dates. This schedule may be modified to meet student needs.

WARNING: Do not copy your classmate's Test solutions. If the test you turn is a copy of someone else's, beyond coincidence, you both will receive a grade of 0% for that Test You are responsible for the security of your test solutions.

METHOD OF INSTRUCTION

The lecture method is used to present Basic Mathematical concepts. Learning is reinforced with assignments and examinations. Examination preview sessions will be instituted. All weekly examinations are closed book. However, a student may use one cheat sheet for the weekly tests.

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The Final Examination is an Open Book/Open Note Exam. You make retake one weekly Exam . Calculators will be allowed for each exam.

METHOD OF EVALUATION

Weekly examinations, projects and the Final Examination are administered to measure mastery of the factual materials presented. All weekly exams are closed book with one cheat sheet. The Final Exam is an Open Book/Open Note exam.

ASSIGNMENT OF GRADES

Grades will be assigned according to the following scale

90 - 100 A

80 - 89 B

70 – 79 C

60 - 69 D

Below 60 F

Projects (7) 10% of the grade

Weekly Tests (7) 60% of the grade

Final Exam 30% of the grade

ATTENDANCE POLICY

Attendance is mandatory. No automatic cuts are authorized. Excessive absences will be reported to appropriate VA and military officials of Troy State University, Veterans Administration, and the military. Arrangements for excused absences must be made PRIOR to the absence.

INCOMPLETE GRADE POLICY

A grade of Incomplete (I) is not automatically assigned, but rather must be requested by the student by submitting to the instructor the Petition for and Work to Remove an Incomplete Grade form. An "I" can never be used in lieu of an "F" nor can an "I" be assigned because of excessive absences, with the exception that the student will make up the work by repeating all or part of the class in some subsequent term.

Policy/Rules for granting an Incomplete (INC)

An incomplete cannot be issued without a request from the student.

To qualify for an incomplete, the student must:

- a. Have completed over 50% of the course material and have a documented reason for requesting the incomplete. (50% means all assignments/exams up to and including the mid-term point, test, and/or assignments.)
- b. Be passing the course at the time of the request.

If both of the above criteria are not met an incomplete cannot be granted.

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An INC is not a substitute for an F. If a student has earned an "F" by not submitting all the work or by receiving an overall F average, then the F stands.

MAKE-UP WORK POLICY

All missed classes must be made up, regardless of whether absences are excused or unexcused. Make-up assignments will be given by the instructor on an individual basis.

INTERNET

You may be expected to use the Internet as part of your course work, as determined by your instructor.

AMERICANS WITH DISABILITIES ACT

Any student whose disabilities fall within ADA must inform the instructor at the beginning of the term of any special needs or equipment necessary to accomplish the requirements of the course.

Troy University supports Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990, which insure that postsecondary students with disabilities have equal access to all academic programs, physical access to all buildings, facilities and events, and are not discriminated against on the basis of disability. Eligible students, with appropriate documentation, will be provided equal opportunity to demonstrate their academic skills and potential through the provision of academic adaptations and reasonable accommodations. Further information, including appropriate contact information, can be found at the following link:

<http://www.troy.edu/humanresources/ADAPolicy2003.htm>

NON-HARASSMENT, HOSTILE WORK/CLASS ENVIRONMENT

Troy University expects students to treat fellow students, their instructors, other TROY faculty, and staff as adults and with respect. No form of “hostile environment” or “harassment” will be tolerated by any student or employee.

STANDARDS OF CONDUCT

The commission of or the attempt to commit any cheating and/or plagiarism are in violation of the Standard of Conduct stated in the Troy University - Florida Region Student Handbook, and may be disciplined up to and including suspension and expulsion.

COMPUTER RESOURCES USAGE POLICY.

A student must request Computer Usage needs from the instructor.

ADDITIONAL INFORMATION

None

FACULTY EVALUATION

In the eighth week of each term, students will be notified of the requirement to fill out evaluation form. These evaluations are completely anonymous and are on-line. Further information will be in the e-mail notifying you of the location and availability of the evaluation.

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LIBRARY SUPPORT

TROY Florida Region Library services are available both online and at the Troy Florida Regional Library at 326 Green Acres Road, Fort Walton Beach, Florida. To access online services and information, go to www.troy.edu/fwr and select first, Library Services, and then FWR Library. For questions or assistance of any sort, email the Regional Library at library1@troy.edu or call 850-863-7237 or 800 638-7237. The staff is available seven days a week to help you find the resources you need.

Hours (Central Time Zone):

Monday-Thursday: 9:00 AM – 8:00 PM

Friday, Saturday: 9:00 AM – 5:00 PM

Sunday: 9:00 AM – 5:00 PM

TROY E-MAIL

Effective July 1, 2005, all students were required to obtain and use the TROY e-mail address that is automatically assigned to them as TROY students. All official correspondence (including bills, statements, e-mails from instructors and grades, etc.) will be sent ONLY to the troy.edu (@troy.edu) address. If this course is web-enhanced or a "hybrid" course, all students are responsible for ensuring that the correct e-mail address is listed in Blackboard by the beginning of Week # 1. E-mail is the only way the instructor can, at least initially, communicate with you. It is your responsibility to make sure a valid e-mail address is provided. Failure on your part to do so can result in your missing important information that could affect your grade. Your troy.edu e-mail address is the same as your Web Express user ID followed by @troy.edu. Students are responsible for the information that is sent to their TROY e-mail account. You can get to your e-mail account by logging onto the course and clicking "e-mail Login." You will be able to forward your TROY e-mail to your eArmy e-mail account. You must first access your TROY e-mail account, click on "options" on the left hand side of the page. Then click on "forwarding." This will enable you to set up the e-mail address to which you will forward your e-mail.

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TOPIC, TEST AND PROJECT SCHEDULE

Term 4 2013

Week No	Topic Discussed
1	Course Introduction, Chapter 1 ; Project 1 due
2	Exam 1 – Chapter 1, Chapter 2; Project 2 due
3	Exam 2- Chapter 2, Chapter 3; Project 3 due
4	Exam 3- Chapter 3, Chapter 5, Project 4 due
5	Exam 4 – Chapter 5 Chapter 6, Project 5 due
6	Exam 5 – Chapter 6 Chapter 7, Project 6 due

Week No Topic Discussed

- 7 Exam 6 – Chapter 7 Cover Chapters 8 and 9 ; Project 7 due

- 8 Exam 7 – Chapters 8 and 9 ; FINAL EXAM 1 PREVIEW - All chapters

- 9 FINAL EXAM PREVIEW 2, FINAL EXAM