Florida Institute of Technology

ADDING A NEW COURSE TO THE CURRICULUM

This course is available for student registration only after the approval process has been completed.

SUBJECT MTH COURSE NO 0003 CREDIT HOURS 3 TERM TO BE ADDED TO THE FILE Spring 2008

Alpha Prefix (e.g., CSE) Number Choice (e.g., 1301) (e.g., Fall 2006)

CLASS HOURS 45 hours LECTURE HOURS _______ LAB HOURS _______ CONTACT HOURS (CEU ONLY) _______

DEPARTMENT Mathematical Sciences SCHEDULE TYPE Virtual Classroom (H)

(e.g., Computer Sciences) (e.g., Lecture, Lab or Special Project)

☐ COLLEGE OF AERONAUTICS-23 ☐ COLLEGE OF PSYCHOLOGY AND LIBERAL ARTS-25
☐ COLLEGE OF BUSINESS-24 ☐ COLLEGE OF SCIENCE-26
☐ COLLEGE OF ENGINEERING-01 ☐ UNIVERSITY COLLEGE EXTENDED STUDIES-27

COMPUTER TITLE Restricted to 25 characters, including spaces Basic Algebra

CATALOG TITLE Basic Algebra

CATALOG DESCRIPTION OF COURSE Limited to 350 characters, including spaces

Builds a foundation for algebra. Includes algebraic expressions, order of operations, linear equations and inequalities. Introduces graphing, polynomials, exponents and factoring. Credit may not be applied to any Florida Tech degree.

In addition, you may attach a course syllabus and/or more detailed description.

RESTRICITON ☐ Prerequisite ___________ ☐ Corequisite _________

☐ Prerequisite ___________ ☐ Corequisite ___________

☐ Prerequisite ___________ ☐ Corequisite ___________

GRADES TO BE ISSUED:
☐ A, B, C, D, F
☐ A, B, C, D, F, CEU
☐ CEU
☐ S, U
☐ P, F
☐ Other

ADDITIONAL RESTRICTION For BANNER enforcement, restricted to students enrolled in University Alliance (U)

(e.g., Major, Class Level, Department Head Approval)

If this course replaces a course currently offered in BISU, please indicate old course information

SUBJECT Alpha Prefix (e.g., CSE) MAT COURSE NO. (e.g., 1301) 003

APPROVALS: Upon completion of appropriate department approvals, submit form to Chair, Graduate Council, or Chair, Undergraduate Curriculum Committee for approval below and forward to Catalog Director.

Original—Registrar

Crista Krull 10/2/07

Date Chair, Graduate Council Date

Department Head/Program Chair

Crista Krull 10/2/07 OR

Dean or Associate Dean

Crista Krull 10-12-07

Date Chair, Undergraduate Curriculum Committee Date

CATALOG DIRECTOR

These changes/additions have been made for the University/Extended Studies Catalog and entered into the BANNER term named above.

Catalog Director Date

REGISTRAR'S USE ONLY

SCACRESE _______ SCADETL _______ SCAPREQ _______ SCABASE _______

SCARIES _______ Operator Init _______ Date _______
MTH0003 Basic Algebra
Credit Hours: 3
PreReq: None. Enrollment will be based on placement exam score.

Course Description:
Builds a foundation for algebra. Includes algebraic expressions, order of operations, linear equations and inequalities. Introduces graphing, polynomials, exponents and factoring. Credit may not be applied to any Florida Tech degree.

Objectives:
1. Describe basic properties of equalities
2. Solve one variable equations
3. Demonstrate the use of the rectangular coordinate system
4. Graph points and linear equations
5. Factor polynomials, and use factoring to solve equations
6. Identify formulas, problem solving and inequalities
7. Manipulate integer exponents
8. Add, multiply and divide polynomials

Tentative Course Outline:
1. Introduction to Real Numbers and Algebraic Expressions
2. Solving Equations
3. Applications and Problem Solving
4. Solving Inequalities and Applications
5. Graphs and Graphing Linear Equations
6. Addition and Subtraction of Polynomials
7. Multiplication of Polynomials
8. Polynomials in Several Variables
9. Division of Polynomials
10. Negative Exponents and Scientific Notation
11. Introduction to Factoring and Factoring Trinomials
12. Factoring: Special Cases
13. Factoring: A General Strategy

Text: Intro & Inter Algebra W/ Study Pack & My Math Lab - Custom – 1st Ed. Blitzer

Grading:
Quiz (4) 40%
Midterm 25%
Final 30%
Discussion Board Postings (2) 5%

Grade Scale:
A 90-100
B 80-89
C 70-79
D 60-69
F 0-59