

New Course Request

Indiana University

Indiana Univ East

Check Appropriate Boxes:

Undergraduate credit

Graduate credit

Professional credit

- 1. School/Division: Natural Science & Mathematics Academic Subject Code: MATH
- 3. Course Number: L123 (must be cleared with University Enrollment Services); Instructor: Walter Scott
- 5. Course Title: College Algebra Laboratory

Recommended Abbreviation (Optional) _____
(Limited to 32 Characters including spaces)

- 6. First time this course is to be offered (Semester/Year): Fall 2009
- 7. Credit Hours: Fixed at 2 or Variable from _____ to _____
- 8. Is this course to be graded S-F (only)? Yes No
- 9. Is variable title approval being requested? Yes No

10. Course description (not to exceed 50 words) for Bulletin publication: P. Appropriate placement on skills exam, Math M007 or equivalent, or HS algebra. Must be taken concurrently with Math M123. Additional applications of course concepts. Offered every semester.

- 11. Lecture Contact Hours: Fixed at 2 or Variable from _____ to _____
- 12. Non-Lecture Contact Hours: Fixed at _____ or Variable from _____ to _____
- 13. Estimated enrollment: 225 of which _____ percent are expected to be graduate students.
- 14. Frequency of scheduling: every semester Will this course be required for majors? no
- 15. Justification for new course: replace Math L117

16. Are the necessary reading materials currently available in the appropriate library? _____

17. Please append a complete outline of the proposed course, and indicate instructor (if known), textbooks, and other materials. see attached

18. If this course overlaps with existing courses, please explain with which courses it overlaps and whether this overlap is necessary, desirable, or unimportant.

19. A copy of every new course proposal must be submitted to departments, schools, or divisions in which there may be overlap of the new course with existing courses or areas of strong concern, with instructions that they send comments directly to the originating Curriculum Committee. Please append a list of departments, schools, or divisions thus consulted. NSM division at IU East has been informed and copied.

Submitted by: _____ Date _____ Approved by: _____ Date _____

Department Chairman/Division Director _____ Dean _____

_____ Date _____ _____ Date _____

Dean of Graduate School (when required) _____ Chancellor/Vice-President _____

_____ Date _____

University Enrollment Services _____

After School/Division approval, forward the last copy (without attachments) to University Enrollment Services for initial processing, and the remaining four copies and attachments to the Campus Chancellor or Vice-President.

Indiana University East

Math-L123 College Algebra Laboratory

Fall 2009 Course Policy (Draft 04/21/08)

Instructor:

Office:

Phone:

Office Hours:

E-Mail:

Math-L123, College Algebra Laboratory, is a one-semester 2-credit-hour that must be taken by students if scoring below a yet-to-be determined cut-off score on the COMPASS placement exam. This course is also available to students choosing to receive additional help and extra exposure to MyMathLab. Any student taking Math-L123 must also take Math-M123 concurrently. This laboratory course is for those students who need additional contact instructor time, further applications of concepts, and different technology applications because of placement scores on the COMPASS test or who desire that additional instruction. Successful completion (with a grade of C or better) of Math-M007 (Elementary Algebra) or the equivalent is a prerequisite for this course. Upon successful completion of College Algebra and College Algebra Laboratory, you will be prepared for Math-M118 (Finite Mathematics) or Math-M125 (Pre-Calculus Mathematics). To perform well in this class, you should expect to spend a couple of hours each day working problems and reading the sections before they are discussed in class. When you go into your next math class, it will be assumed that you have mastered the material from College Algebra. Thus, you should strive to do as well as you possibly can while in this course and take advantage of any and all help that is available to you.

Textbook: (possible)

College Algebra, 3rd Edition, by Beecher, Penna, and Bittinger

Course Coordinator:

Walter Scott

Office: Whitewater Hall, Room 200

Phone: 765-973-8608

Course Objectives: The IU East Faculty identified seven learning objectives for students at the university. The seven learning objectives are incorporated into the IU East Campus Strategic Plan and are listed on page 2 of the IU East 2005-2007 Catalog. At the completion of this course, each student should be able to:

- Be able to plot x-y coordinates onto the Cartesian Plane.
- Be able to interpret graphs in x-y coordinates.
- Understand the concept of a graph of an equation as the collection of ordered pairs representing the solutions.
- Understand the graphs of linear equations including the concepts of intercepts, slopes, and various forms of linear equations.
- Understand the concept of a function.
- Understand the concept of domain and range of a function.
- Understand the concept of graph of a function and be able to find values at specified points by interpreting the graph of the function.
- Find the solutions (if they exist) of systems of linear equations.
- Find the solutions to radical equations.
- Find the solutions of quadratic equations by factoring, completing the square, and using the quadratic formula.

- Find the solution sets for absolute value equations and inequalities. Be able to write the solution sets in interval notation, set-builder notation, and graph the solution sets on the real number line.
- Perform algebraic operations on polynomials, rational, and radical expressions in one or several variables.

Attendance: In order to pass this class, you must attend at least 24 out of the 30 scheduled class sessions. This represents a minimum of 80% attendance to qualify for a passing grade in College Algebra Laboratory. Perfect attendance in this class is worth 50 points towards your course grade.

MyMathLab: A component of this course will be the use of MyMathLab from the textbook publisher. This on-line program, with its multiple study tools, will aid you in understanding the course material. The weekly on-line assignments must be completed successfully in order to pass this course.

Activities: There will be In Class Activities during each Math-L123 class. These activities will provide you additional instruction and more applications with an instructor to aid in complete understanding of key concepts learned in Math-M123. *There will be NO make up for missed or late in class activities unless you have a documented absence (i.e. doctors slip, court order, or other form of official paper documentation).*

Portfolio: You will create and submit a portfolio consisting of all written work assignments, including but not limited to, activities, Math-M123 quizzes, Math-M123 exams, and a typed one-page reflection of Math-M123 and Math-L123. This portfolio should be submitted in a 3-ring binder with dividers containing documents for each section in order. See your instructor if you have further questions.

Exams: The exams from your accompanying Math-M123, College Algebra, will be averaged and constitute 25% of the grade for this course.

Calculators: Calculators may be used although they are not required. A small, self-powered scientific calculator will probably be sufficient. Graphing calculators may also be used. Check with your instructor or the Math Lab to see if extra assistance with calculators is offered.

Tutoring: Free tutoring assistance is provided for this course through Tutorial Services in Springwood Hall, Suite 202. See your instructor for further information about this program.

Student Support Services: The University will provide auxiliary aids and services for persons of first generation, economic disadvantage, and disability. Students should notify me of any special needs and go to Student Support Services in Whitewater 110 to establish documentation of the disability. Also, if you will need assistance in an emergency evacuation of the classroom or building, please let me know immediately.

Points:	Attendance	50	Grading Scale:	70-100%	S
	MyMathLab	300		0-69%	F
	Activities	300			
	M123 Exams	250			
	Portfolio	100			
	TOTAL	1000			

Please note: The course policy and syllabus will be adhered to as closely as possible. However, the instructor reserves the right to make changes as needed due to time constraints and unforeseen circumstances.

