

**UNDERGRADUATE COURSE CHANGE  
GENERAL EDUCATION**

**Proposal for a Course Change**

**Department** MATH/CS **Submission Date** 12/15/09

Semester of Implementation Fall 2010

I. Proposed Course Change Information

	CURRENT	Check Box if No Change	PROPOSED CHANGE
Discipline Prefix	<u>MATH</u>	<input checked="" type="checkbox"/>	_____
Course Number	<u>164</u>	<input checked="" type="checkbox"/>	_____
Course Title	<u>Precalculus</u>	<input checked="" type="checkbox"/>	_____
Credit Hours	<u>3</u>	<input type="checkbox"/>	<u>4</u>
Prerequisites	<u>None.</u>	<input type="checkbox"/>	<u>Passing an algebra readiness test.</u>
Speaking Intensive	_____	<input type="checkbox"/>	_____
Writing Intensive	_____	<input type="checkbox"/>	_____
If Cross-Listed:			
Secondary Prefix	_____	<input type="checkbox"/>	_____
Course Number	_____	<input type="checkbox"/>	_____

**Current Course Description:**

A study of polynomial, rational, exponential, logarithmic, and trigonometric functions and conic sections in order to prepare the student for calculus. 3 credits.\* Fulfills Goal 5.

**Proposed New Course Description (*Must match description on course syllabus*):**

A study of polynomial, rational, exponential, logarithmic, and trigonometric functions; conic sections; and their applications in order to prepare the student for calculus. Prerequisite: Passing an algebra readiness test. 4 credits.\*

Delete Course from Catalog

Submit Course to Storage

General Education Goal(s) for which course is designed: 5 (Note: this proposal would remove the course from satisfying Goal 5 and allow students who complete the course to be exempt from Goal 5.)

Does the proposed change affect how the course will satisfy the nine (9) required General Education Course Criteria (page 11)?  Yes  No If yes, please explain. \_\_\_\_\_

**Please attach a proposed syllabus in SACS format that contains proposed changes.**

II. Required for Major, Minor, Concentration (please specify):

Liberal Studies (required for middle school; option for elementary school)

III. Rationale for Proposed Changes:

In order to ensure that students entering Math 164 have the appropriate level of algebra skills to succeed in the course, we will require students to pass an algebra readiness test. Students have the opportunity to self-remediate until a passing score is achieved. The increased credit in Math 164 will allow us to devote more time to the study of each of the areas in the course description. Additionally we will introduce more applications to each of the areas, reinforcing students' skills in these topics and in algebra. We are also removing this course from satisfying Goal 5 because that goal is designed for a 3 credit course. Changing Math 164 to a 4-credit course goes against this requirement, and allowing a 4-credit course in a 3 credit goal would set a precedent that a course with an arbitrary number of credit hours could satisfy any goal. Because the course content will not fundamentally change, and because we will have the chance to offer further applications, we believe that a student passing the course will have shown an understanding of mathematical thought and the ability to conceptualize and apply mathematical logic to problem solving.

IV. Resource Assessment, if change warrants it:

A. How frequently do you anticipate offering this course?

\_\_\_\_\_

B. Describe anticipated change in staffing for the course:

\_\_\_\_\_

C. Estimate the cost of new equipment required due to change:

\_\_\_\_\_

D. Estimate the cost of and describe additional library resources:

\_\_\_\_\_

E. Will the change in the course require additional computer use, hardware or software?

Yes  No If yes, please describe and estimate cost:

\_\_\_\_\_

F. Will a new or changed course fee be assessed?  Yes  No If yes, the Fee recommendation worksheet must accompany this form. It can be found at the following url:

[www.longwood.edu/budget](http://www.longwood.edu/budget) (See Appendix B for sample of form.)



**SIGNATURE PAGE**  
**UNDERGRADUATE COURSE CHANGE**  
**GENERAL EDUCATION**

Course Name/Number Math 164 Course Title Precalculus

V. Approvals

	Date received	Date approved	Signature
1. Department Curriculum Committee Chair	_____	_____	_____
2. Department Chair	_____	_____	_____

The Department Chairs whose programs may be affected have been notified:

Department Chemistry and Physics Date Notified 12/18/09  
 Department Liberal Studies Date Notified 1/4/10  
 Department Accounting, Economics, Finance, and Real Estate Date Notified 3/18/10

3. College Dean	_____	_____	_____
4. College Curriculum Committee	_____	_____	_____
5. General Education Committee	_____	_____	_____
6. Educational Policy Committee	_____	_____	_____
7. Faculty Senate Chair	_____	_____	_____
8. Date received by Registrar	_____		

**All curriculum proposals/changes are processed in the date order received. In order to be included in the next academic year's catalog, all paperwork must be submitted no later than:**

**December 15<sup>th</sup> to the College Curriculum Committee**  
**February 1<sup>st</sup> to the General Education Committee**  
**March 1<sup>st</sup> to the Educational Policy Committee (EPC)**

**Submission within the deadlines does not guarantee processing in time for the next academic year's catalog.**