

PROPOSAL TO CREATE, REVISE OR DELETE A COURSE

Department **Math**

(Proposed Course Number) **3xxx**

Proposed Course Title **Introduction to Abstract Mathematics**

Nature of Proposed Change	
New Course	☐
Revised Course	☐
Deleted Course	☐
Number Change	☒
Adding Prerequisites	☒
Description Change	☒
Title Change	☐
Editorial Change	☐
(Old Number <u>2326</u>)	

Common Curriculum Status	
Presently in Common Curriculum	Yes ☐ No ☒
Now Proposed for Common Curriculum	Yes ☐ No ☒
If yes, which Understanding or Skill	

Estimated number of seats added or deleted from the Understanding _____	

Rationale (Explain why the change is being proposed, its relation, if any, to the major or minor program, and what curricular improvements will result.):

The prerequisite currently listed is not essential for success in this course, and in fact, limits when students can take this course. Moreover, this course is meant to be a gateway course into the major for our students. Currently, this course is not meeting the needs of either the department or its students in an optimal way, and thusly, the topics have been vastly altered. As this course is now a prerequisite for more courses than before, we are also going to offer the course every semester.

Curricular Impact Statement (What curricular trade-offs will result if this course is approved?):

n/a

Teaching Resources (Explain any impact on personnel, faculty contact hours, Common Curriculum and other course offerings, and involvement in First Year Seminar.):

n/a

Proposed Bulletin Description:

This course begins with an elementary survey of logic and set theory. From there, the course introduces the concept of the mathematical proof, framed in introductions to the real line, point set topology, and modern algebra. This course is offered every semester.

Prerequisite: MATH 1308 or 1312 or equivalent or consent of instructor.

Present Bulletin Title and Description:

Topics include logic, elementary set properties, equivalence relations, order relations, functions, cardinal numbers, and algebraic and topological properties of the real line. Spring.

Prerequisite: MATH 2321 or consent of instructor.

Instructor(s) <u>Departmental</u>	IS THIS COURSE		
Semester course will first be offered <u>Fall 2008.</u>	- cross-listed with another department?	Yes ☐	No ☒
Effective date of change _____	If so, which one? _____		
Frequency of offering <u>Every semester.</u>	- a prerequisite for another course?	Yes ☒	No ☐
Is a similar course offered in another department? Yes ☐ No ☒	If so, which one(s)? _____		
If yes, attach explanation.	- part of an interdisciplinary program?	Yes ☐	No ☒
If this course will demand additional library resources, equipment, renovation and/or remodeling, computer facilities and time, or have a significant impact on workload or budget, have you arranged for these resources? Yes ☐ No ☐ None required ☒	If so, which one(s)? _____		
Are there needs for technological resources not currently available on campus? Yes ☐ No ☒	- a prerequisite or specific requirement for a major or minor in another department or program?	Yes ☐	No ☒
	If so, which one(s)? _____		
	If any of the above responses is "Yes", have you contacted the appropriate department(s)?	Yes ☒	No ☐
	Can a student enter this course with permission of the instructor without the prerequisite(s)?	Yes ☒	No ☐

ROUTING

Please list the appropriate departments that have reviewed and endorsed this proposal: _____

Date: _____

AA (April 2003)