PROPOSAL TO CREATE, REVISE OR DELETE A COURSE

Department **Math** (Proposed Course Number) **1308**

Proposed Course Title **Calculus B**

Nature of Proposed Change			
New Course	☐	Description Change	☒
Revised Course	☐	Title Change	☐
Deleted Course	☐	Editorial Change	☐
Number Change	☐	(Old Number _____)	
Adding Prerequisites	☒		

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.):

For the change of prerequisites, Calculus I (MATH 1311) and Calculus A (MATH 1307) cover the same core material needed for Calculus B (MATH 1308). With regard to the description change, we wish to emphasize the fundamental differences between Calculus II and this course. Moreover, the study of differential equations is a fundamental part of this course, yet that topic was missing from the previous course description.

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:

Applications of calculus; topics include techniques of integration, ordinary differential equations, convergence of geometric series, probability, numerical analysis, and simulation. This course is designed to assist students in the application of calculus to other disciplines.

Prerequisite: MATH 1307 or 1311 or equivalent.

Present Bulletin Title and Description:

An introduction to multivariate calculus and how techniques of integration, numerical analysis, probability and statistics, linear algebra, and simulation support the life sciences.

Prerequisite: Succesful completion of MATH 1307 or 1311.

Instructor(s)
Departmental

Semester course will first be offered
Fall 2008

Effective date of change
_____

Frequency of offering
Every semester.

Is a similar course offered in another department?
Yes ☐ No ☒
If yes, attach explanation.

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 ☒

Are there needs for technological resources not currently available on campus?
Yes ☐ No ☒

IS THIS COURSE

- cross-listed with another department? Yes ☐ No ☒
  If so, which one? _____
- a prerequisite for another course? Yes ☒ No ☐
  If so, which one(s)?
- part of an interdisciplinary program? Yes ☒ No ☐
  If so, which one(s)? _____
- 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)