PROPOSAL TO CREATE, REVISE OR DELETE A COURSE

Department **Math** (Proposed Course Number) **4364**

Proposed Course Title **Theory of Complex Variables**

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.):

The course description is antiquated and does not reflect the actual subjects being taught in this course, and the prerequisites do not accurately prepare students for the course material.

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:

A study of functions of a single complex variable including properties of complex numbers, analytic functions, contour integration and Cauchy's theorem, Taylor and Laurent series, the calculus of residues and applications. Additional topics may include conformal mappings, analytic continuation, Rouche's theorem, and infinite products. Fall, alternate years.

Prerequisite: Math 3360 or consent of instructor.

Present Bulletin Title and Description:

Properties of complex numbers, analytic functions, Cauchy's Theorem, elementary functions, linear fractional transformations, mappings, integrals. Fall, alternate years.

Prerequisite: Math 2326, 3336.

Instructor(s)
Departmental

Semester course will first be offered
Fall 2009

Effective date of change
_____

Frequency of offering
Fall, alternate years.

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? If so, which one? _____	Yes ☐	No ☒
- a prerequisite for another course? If so, which one(s)? _____	Yes ☐	No ☒
- part of an interdisciplinary program? If so, which one(s)? _____	Yes ☐	No ☒
- a prerequisite or specific requirement for a major or minor in another department or program? If so, which one(s)? _____	Yes ☐	No ☒
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: _____