PROPOSAL TO CREATE, REVISE OR DELETE A COURSE

Department **Math** (Proposed Course Number) **3357**

Proposed Course Title **Partial Differential Equations**

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 semester this course is offered is not listed, and the prerequisites need to be updated to reflect other curriculum changes.

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:

The heat, wave, and Laplace equations and boundary value problems, the method of separation of variables, special functions, orthogonal expansions, Sturm-Liouvulle theory, and the Fourier and Laplace transform methods. Additional topics may include Green's functions, Poisson's integral formula for the disk, and variational calculus. Spring.

Prerequisites: MATH 2321 and 3336 or 3366.

Present Bulletin Title and Description:

The heat, wave, and Laplace equations and boundary value problems. The method of separation of variables. Special functions, orthogonal expansions and Sturm-Liouvulle theory. The Fourier and Laplace transform methods. Additional topics may include Green's functions, Poisson's integral formula for the disk, and variational calculus if time permits.

Prerequisite: MATH 2321 and 3336.

Instructor(s)
Departmental

Semester course will first be offered
Spring 2009

Effective date of change
_____

Frequency of offering
Every spring.

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: _____