PROPOSAL TO CREATE, REVISE OR DELETE A COURSE

Department **Math** (Proposed Course Number) **4336**

Proposed Course Title **Stochastic Processes**

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.):

Our majors are constantly searching for courses, offered on a dependable schedule, to meet their 4000 level graduation requirement. This course offers a more in-depth study of a field in which our majors find interest and thus gives our majors another option from which to fill this 4000 level course requirement.

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

This course would provide preparation to our students who wish to continue their education in graduate school as well as contribute to our goal to increase the number of 4000 level courses offered by the Mathematics department.

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

We do not foresee any increase in contact hours or impacts on course offerings.

Proposed Bulletin Description:

An introduction to the theory and applications of stochastic processes. Topics may include Poisson processes, random walks, Markov chains in discrete and continuous time, branching processes, queueing systems, and Brownian motion. Fall, alternate years.

Prerequisite: MATH 3320 or 3334 or consent of instructor.

Present Bulletin Title and Description:

n/a

Instructor(s)
Peter Oloffson

Semester course will first be offered
Fall 2010

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? 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: _____