# PROPOSAL TO CREATE, REVISE OR DELETE A COURSE

Department **Math**                                     (Proposed Course Number) **4344**

Proposed Course Title **Combinatorics II**

<table>
<tr><td colspan="2"><b>Nature of Proposed Change</b></td><td colspan="3"><b>Common Curriculum Status</b></td></tr>
<tr><td>New Course</td><td>☒</td><td>Description Change ☐</td><td>Presently in Common Curriculum</td><td>Yes ☐  No ☒</td></tr>
<tr><td>Revised Course</td><td>☐</td><td>Title Change ☐</td><td>Now Proposed for Common Curriculum</td><td>Yes ☐  No ☒</td></tr>
<tr><td>Deleted Course</td><td>☐</td><td>Editorial Change ☐</td><td colspan="2">If yes, which Understanding or Skill</td></tr>
<tr><td>Number Change</td><td>☐</td><td>(Old Number _____ )</td><td colspan="2">_____</td></tr>
<tr><td>Adding Prerequisites</td><td>☐</td><td></td><td colspan="2">Estimated number of seats added or deleted from the Understanding _____</td></tr>
</table>

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:

**Topics beyond MATH 3343, which may include Polya counting, partition theory, special functions, the R-S-K algorithm, combinatorial species, and other advanced topics in algebraic and enumerative combinatorics. Spring, alternate years.**

**Prerequisite: Math 3343 or consent of instructor.**

Present Bulletin Title and Description:

**n/a**

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Instructor(s)
Brian Miceli

Semester course will first be offered
Spring 2009

Effective date of change
_____

Frequency of offering
Spring, 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 ☐

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## ROUTING

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

Date: _____

AA (April 2003)