NEW COURSE PROPOSAL

PROGRAM AREAS MATH

1. **Catalog Description of the Course.** [Include the course prefix, number, full title, and units. Provide a course narrative including prerequisites and corequisites. If any of the following apply, include in the description: Repeatability (May be repeated to a maximum of ___ units); time distribution (Lecture ___ hours, laboratory ___ hours); non-traditional grading system (Graded CR/NC, ABC/NC). Follow accepted catalog format.]

   **MATH 490. TOPICS IN MODERN MATHEMATICS (3)**
   Three hours of lecture per week.
   Prerequisites: Upper-division standing.
   New developments in mathematics. Repeatable by topic.

2. **Mode of Instruction.**

<table>
<thead>
<tr>
<th>Lecture</th>
<th>Units</th>
<th>Hours per Unit</th>
<th>Benchmark Enrollment</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>1</td>
<td>24</td>
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3. **Justification and Learning Objectives for the Course.** (Indicate whether required or elective, and whether it meets University Writing, and/or Language requirements) [Use as much space as necessary]

   The course is an elective for Mathematics majors.

   Through this course, students will be able to
   - Identify new important developments in mathematics.
   - Present current developments in mathematics in written and oral form

   This course is not designed to satisfy the University Writing or Language requirements.

4. **Is this a General Education Course**
   YES           NO

   If Yes, indicate GE category:
   - A (English Language, Communication, Critical Thinking)
   - B (Mathematics & Sciences)
   - C (Fine Arts, Literature, Languages & Cultures)
   - D (Social Perspectives)
   - E (Human Psychological and Physiological Perspectives)

5. **Course Content in Outline Form.** [Be as brief as possible, but use as much space as necessary]

   New developments in mathematics: such as Number Theory, Geometry, Analysis, Applied Mathematics.
6. **References.** *(Provide 3 - 5 references on which this course is based and/or support it.)*

None

7. **List Faculty Qualified to Teach This Course.**

All Mathematics Faculty

8. **Frequency.**
   a. Projected semesters to be offered:  Fall  ___X__  Spring  _X___  Summer  _____

9. **New Resources Required.**
   a. Computer (data processing), audio visual, broadcasting needs, other equipment
      None
   b. Library needs
      Standard University library facilities
   c. Facility/space needs
      None

10. **Consultation.**
    Attach consultation sheet from all program areas, Library, and others (if necessary)

11. If this new course will alter any degree, credential, certificate, or minor in your program, attach a program modification.

___________________________________________________  
Proposer of Course    Date