

NEW COURSE PROPOSAL

Courses must be submitted by October 15, 2010, and finalized by the end of the fall semester for the next catalog production.

Use YELLOWED areas to enter data.

DATE (*Change if modified and redate file with current date*)

APRIL 26, 2011; REV 9.8.11

PROGRAM AREA(S)

MATHEMATICS

1. Course Information. *[Follow accepted catalog format.]*

Prefix(es) (Add additional prefixes if cross-listed) **and Course No.** 594

Title: INDEPENDENT STUDY **Units:** 1 - 3

x Prerequisites Completion of at least 9 credits of study within the MS Mathematics or the MS CS Program; approval by MS Mathematics Director of written proposal for course of study

Corequisites

x Consent of Instructor Required for Enrollment

Catalog Description (Do not use any symbols): Faculty-supervised independent study in a specialized area of mathematics or applications of mathematics. A written proposal of the course of study must be approved by the MS Mathematics Director prior to registration.

Grading Scheme:

x A-F Grades

Credit/No Credit

Optional (Student Choice)

Repeatability:

x Repeatability for a maximum of 12 units

Total Completions Allowed 12

x Multiple Enrollment in Same Semester

Course Level Information:

Undergraduate

Post-Baccalaureate/Credential

x Graduate

Mode of Instruction/Components (*Hours per Unit are defaulted*).

	Units	Hours per Unit	Benchmark Enrollment	Graded Component	CS & HEGIS # (Filled in by the Dean)
Lecture		1			
Seminar		1			
Laboratory		3			
Activity	1-3	2	1	X	
Field Studies					
Indep Study					
Other Blank					

Leave the following hours per week areas blank. The hours per week will be filled out for you.

2-6 hours activity per week

hours blank per week

2. Course Attributes:

General Education Categories: All courses with GE category notations (including deletions) must be submitted to the GE website: <http://summit.csuci.edu/geapproval>. Upon completion, the GE Committee will forward your documents to the Curriculum Committee for further processing.

A (English Language, Communication, Critical Thinking)

A-1 Oral Communication

A-2 English Writing

A-3 Critical Thinking

B (Mathematics, Sciences & Technology)

B-1 Physical Sciences

B-2 Life Sciences – Biology

B-3 Mathematics – Mathematics and Applications

B-4 Computers and Information Technology

C (Fine Arts, Literature, Languages & Cultures)

C-1 Art

☐ C-2 Literature Courses

☐ C-3a Language

☐ C-3b Multicultural

D (Social Perspectives)

E (Human Psychological and Physiological Perspectives)

UDIGE/INTD Interdisciplinary

Meets University Writing Requirement

Meets University Language Requirement

☐ **American Institutions, Title V Section 40404:** ☐ Government ☐ US Constitution ☐ US History

Refer to website, Exec Order 405, for more information: <http://senate.csuci.edu/comm/curriculum/resources.htm>

☐ **Service Learning Course** (Approval from the Center for Community Engagement must be received before you can request this course attribute).

3. Justification and Requirements for the Course. (Make a brief statement to justify the need for the course)

A. Justification: Creation of an independent study course will allow students with sufficient background to explore a specialized area of mathematics under the guidance of a faculty supervisor. As a small graduate program, we have neither the faculty nor the student enrollment to offer courses in some fascinating areas of mathematics (e.g., topology, differential geometry). This course will allow students to pursue such material when interested.

B. Degree Requirement:

☐ Requirement for the Major/Minor

☒ Elective for the Major/Minor

☐ Free Elective

Note: Submit Program Modification if this course changes your program.

4. Student Learning Outcomes. (List in numerical order. You may wish to use the following resource in utilizing measurable verbs: <http://senate.csuci.edu/comm/curriculum/resources.htm>)

Upon completion of the course, the student will be able to:

- Demonstrate knowledge of a specialized area of mathematics or its applications
- Competently apply the tools of a specialized area of mathematics or its applications

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

Student initiative required.

Student works with faculty supervisor to identify references and draft a proposal for the course of study.

Student and faculty supervisor adhere to proposal.

When appropriate, student presents findings in Mathematics Graduate Seminar.

Does this course content overlap with a course offered in your academic program? **Yes** ☐ **No** ☒

If YES, what course(s) and provide a justification of the overlap. ☐

Does this course content overlap a course offered in another academic area? **Yes** ☐ **No** ☒

If YES, what course(s) and provide a justification of the overlap. ☐

Overlapping courses require Chairs' signatures.

6. Cross-listed Courses (Please note each prefix in item No. 1)

A. List Cross-listed Courses (Signature of Academic Chair(s) of the other academic area(s) is required).

List each cross-listed prefix for the course: ☐

B. Program responsible for staffing: ☐

7. References. [Provide 3 - 5 references]

Will depend on nature of independent study

8. Tenure Track Faculty Qualified to Teach This Course.

9. Requested Effective Date:

First semester offered: whenever approved

10. New Resources Requested. Yes ☐ No ☒

If YES, list the resources needed.

A. Computer Needs (data processing, audio visual, broadcasting, other equipment, etc.)

☐

B. Library Needs (streaming media, video hosting, databases, exhibit space, etc.)

☐

C. Facility/Space/Transportation Needs

☐

D. Lab Fee Requested (please refer to Dean's Office for additional processing) Yes ☐ No ☐

E. Other

Please note: faculty will be compensated for this course on a per person basis (as for MATH 597 and MATH 598).

11. Will this new course alter any degree, credential, certificate, or minor in your program? Yes ☒ No ☐

If, YES attach a program update or program modification form for all programs affected.

Priority deadline for New Minors and Programs: **October 4, 2010** of preceding year.

Priority deadline for Course Proposals and Modifications: **October 15, 2010**, of preceding year.

Last day to submit forms to be considered during the current academic year: **April 15th**.

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Proposer of Course (Type in name. Signatures will be collected after Curriculum approval)

Date

Approval Sheet

Program/Course:

If your course has a General Education Component or involves Center affiliation, the Center will also sign off during the approval process.

Multiple Chair fields are available for cross-listed courses.

Program Chair		
	Signature	Date
Program Chair		
	Signature	Date
Program Chair		
	Signature	Date
General Education Chair		
	Signature	Date
Center for International Affairs Director		
	Signature	Date
Center for Integrative Studies Director		
	Signature	Date
Center for Multicultural Engagement Director		
	Signature	Date
Center for Civic Engagement Director		
	Signature	Date
Curriculum Chair		
	Signature	Date
Dean of Faculty		
	Signature	Date