

**The Ohio State University  
Colleges of the Arts and Sciences New Course Request**

Mathematics

Academic Unit

Mathematics

Book 3 Listing (e.g., Portuguese)

585 Introduction to Coding Theory and Design Theory

Number

Title

Codes and designs

U

3

18-Character Title Abbreviation

Level

Credit Hours

Summer

Autumn x

Winter

Spring

Year 2009

Proposed effective date, choose one quarter and put an "X" after it; and fill in the year. See the OAA curriculum manual for deadlines.

**A. Course Offerings Bulletin Information**

Follow the instructions in the OAA curriculum manual. If this is a course with decimal subdivisions, then use one New Course Request form for the generic information that will apply to all subdivisions; and use separate forms for each new decimal subdivision, including on each form the information that is unique to that subdivision. If the course offered is less than a quarter or a term, please complete the Flexibly Scheduled/Off Campus/Workshop Request form.

Description (*not to exceed 25 words*): Introduction to error-correcting codes and block designs, and their applications

Quarter offered: Au

Distribution of class time/contact hours: 3 classes

Quarter and contact/class time hours information should be omitted from Book 3 publication (yes or no):

Prerequisite(s): prereq or concur Math 582 or H592, or permission of instructor

Exclusion or limiting clause: N/A

Repeatable to a maximum of   0   credit hours.

Cross-listed with: N/A

Grade Option (Please check): Letter  S/U  Progress  What course is last in the series? \_\_\_\_\_

Honors Statement: Yes  No

GEC: Yes  No

Admission Conditions Course: Yes  No

Off-Campus: Yes  No

EM: Yes  No

Honors Embedded Statement: Yes  No

Service Learning Course: Yes  No

Other General Course Information:

(e.g. "Taught in English." "Credit does not count toward BSBA degree.")

N/A

**B. General Information**

Subject Code \_\_\_\_\_ Subsidy Level (V, G, T, B, M, D, or P) \_\_\_\_\_

If you have questions, please email Jed Dickhaut at [dickhaut.1@osu.edu](mailto:dickhaut.1@osu.edu).

1. Provide the rationale for proposing this course:

As part of the revision of the undergraduate mathematics major, a new Applied Discrete Mathematics track is being developed. This new course would be part of this track.

2. Please list Majors/Minors affected by the creation of this new course. Attach revisions of all affected programs. This course is (check one):  Required on major(s)/minor(s)  A choice on major(s)/minors(s)  
 An elective within major(s)/minor(s)  A general elective

3. Indicate the nature of the program adjustments, new funding, and/or withdrawals that make possible the implementation of this new course.

No new funding is necessary. The course will be taught within the regular teaching duties of mathematics faculty.

4. Is the approval of this request contingent upon the approval of other course requests or curricular requests?

Yes  No  List: Applied Discrete Mathematics track in the mathematics major \_\_\_\_\_

5. If this course is part of a sequence, list the number of the other course(s) in the sequence: N/A

6. Expected Section Size: 15-20 Proposed number of sections per year: 1

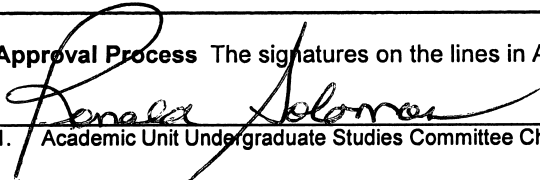

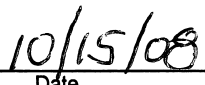
7. Do you want prerequisites enforced electronically? (see OAA manual for what can be enforced) Yes  No

8. This course has been discussed with and has the concurrence of the following academic units needing this course or with academic units having directly related interests (*List units and attach letters and/or forms*): Not Applicable

9. Attach a course syllabus that includes a topical outline of the course, student learning outcomes and/or course objectives, off-campus field experience, methods of evaluation, and other items as stated in the OAA curriculum manual and e-mail to [ascurofc@osu.edu](mailto:ascurofc@osu.edu).

CONTACT PERSON: Akos Seress E-MAIL: akos@math.ohio-state.edu PHONE: 2-5754

**Approval Process** The signatures on the lines in ALL CAPS ( e.g. ACADEMIC UNIT) are required.

		
1. Academic Unit Undergraduate Studies Committee Chair	Printed Name	Date
2. Academic Unit Graduate Studies Committee Chair	Printed Name	Date
3. ACADEMIC UNIT CHAIR/DIRECTOR	Printed Name	Date
4. After the Academic Unit Chair/Director signs the request, forward the form to the ASC Curriculum Office, 4132 Smith Lab, 174 West 18 <sup>th</sup> Ave. or fax it to 688-5678. Attach the syllabus and any supporting documentation in an e-mail to <a href="mailto:ascurofc@osu.edu">ascurofc@osu.edu</a> . The ASC Curriculum Office will forward the request to the appropriate committee.		
5. COLLEGE CURRICULUM COMMITTEE	Printed Name	Date
6. ARTS AND SCIENCES EXECUTIVE DEAN	Printed Name	Date
7. Graduate School (if appropriate)	Printed Name	Date
8. University Honors Center (if appropriate)	Printed Name	Date
9. Office of International Education (if appropriate)	Printed Name	Date
10. ACADEMIC AFFAIRS	Printed Name	Date