

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

Mathematics

Academic Unit

Math

Book 3 Listing (e.g., Portuguese)

110 Elements of Mathematical Modeling for Middle School Teachers

Number Title

Alg Prob Md Tch

U

5

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*): Mathematical modeling, tools, and applications of variables, functions and other relations, methods of solving equations, randomness, expected value, simulations, and binomial and geometric probabilities.

Quarter offered: Autumn

Distribution of class time/contact hours: 5 cl.

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

Prerequisite(s): Math 109, Statistics 145

Exclusion or limiting clause: Open only to middle childhood majors (Major Codes 283 and 187).

Repeatable to a maximum of ____ credit hours.

Cross-listed with:

Grade Option (Please check): Letter S/U Progress What course is last in the series? 212Honors Statement: Yes No Yes No GEC: Yes No Yes No

Admission Condition

Off-Campus: Yes No Yes No EM: Yes No Yes No Course: Yes No

Other General Course Information: Open only to middle childhood majors (Major Codes 283 and 187). Partially fulfills OSU mathematics requirements for middle school mathematics concentration.

B. General Information

Subject Code 270102 Subsidy Level (V, G, T, B, M, D, or P): B

If you have questions, please email Jed Dickhaut at dickhaut.1@osu.edu.

1. Provide the rationale for proposing this course:

See attached

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:

Arts and Sciences Middle Childhood Interdisciplinary Major - Mathematics Major (283); Education and Human Ecology Middle Childhood Major with Mathematics Concentration (187) (Pending Approval)

3. Indicate the nature of the program adjustments, new funding, and/or withdrawals that make possible the implementation of this new course.
 Math 110 replaces Math 107 for Middle Childhood Education majors with a Mathematics Area of Concentration. Sections will be taught in configuration identical to those currently implemented in Math 107, so that no additional funding is necessary. This change is concurred with by the two university units whose programs are affected by the change, the Arts and Sciences Middle Childhood Education Program Committee and the College of Education and Human Ecology Middle Childhood Program (concurrence letters attached).

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

Yes No List: Math 108, 109, 111, 212

5. If this course is part of a sequence, list the number of the other course(s) in the sequence: Math 108, 109, Statistics 145, Math 111 and 212

6. Expected section size: 50 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
 Middle Childhood Education Program Committee
 College of Education and Human Ecology Middle Childhood Program

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.

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

1.  Ronald Solomon 4/11/07
 Academic Unit Undergraduate Studies Committee Chair Printed Name Date

2.  David Goss 4/13/07
 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, 105 Brown Hall, 190 West 17th Ave. or fax it to 688-5678. Attach the syllabus and any supporting documentation in an e-mail to ascurofc@osu.edu. 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