

FLORIDA ATLANTIC UNIVERSITY™

UUPC APPROVAL 5/1/17
 UFS APPROVAL _____
 SCNS SUBMITTAL _____
 CONFIRMED _____
 BANNER POSTED _____
 CATALOG _____

Undergraduate Programs—NEW COURSE PROPOSAL¹

DEPARTMENT:
MATHEMATICAL SCIENCES

COLLEGE:
 CHARLES E. SCHMIDT COLLEGE OF SCIENCE

RECOMMENDED COURSE IDENTIFICATION:

PREFIX MAP COURSE NUMBER 4103 LAB CODE (L or C) _____

(TO OBTAIN A COURSE NUMBER, CONTACT [MJENNIN@FAU.EDU](mailto:mjennin@fau.edu))

COMPLETE COURSE TITLE: **APPLIED MATHEMATICAL MODELING**

EFFECTIVE DATE

(first term course will be offered)

FALL 2018

CREDITS²:

3

TEXTBOOK INFORMATION:

A COURSE IN MATHEMATICAL MODELING BY D. MOONEY AND R. SWIFT

GRADING (SELECT ONLY ONE GRADING OPTION): REGULAR X PASS/FAIL _____ SATISFACTORY/UNSATISFACTORY _____

COURSE DESCRIPTION, NO MORE THAN THREE LINES: This course will cover the use of differential and difference equations in scientific modeling. Emphasis will be on the "modeling cycle" and have undergrad research and inquiry (URI) components.

PREREQUISITES W/MINIMUM GRADE*:

(MAP 2302 OR 3305) AND (MAS 2103 OR MAC 2313)

WITH A GRADE OF C OR BETTER

COREQUISITES*:

REGISTRATION CONTROLS (MAJOR, COLLEGE, LEVEL)*:

*DEFAULT MINIMUM PASSING GRADE IS D-. PREREQUISITES, COREQUISITES AND REGISTRATION CONTROLS WILL BE ENFORCED FOR ALL COURSE SECTIONS.

MINIMUM QUALIFICATIONS NEEDED TO TEACH THIS COURSE: PHD IN A MATHEMATICAL SCIENCE

WAC/GORDON RULE COURSE³

YES _____ NO X

WAC/Gordon Rule criteria must be indicated in syllabus. Guidelines: www.fau.edu/WAC

GENERAL EDUCATION REQUIREMENT (MARK X IN FRONT OF SELECTION)⁴

Written Communication Society/Human Behavior
 Mathematics/Quant. Reas. Global Citizenship
 Science/Natural World Creative Expression

Must attach the appropriate General Education Course Approval Request: www.fau.edu/deanugstudies/GeneralEdCourseApprovalRequests.php

Faculty contact, email and complete phone number:

William Kalies, wkalies@fau.edu,
 (561) 297-1107

Please consult and list departments that might be affected by the new course and attach comments.⁵

None

Approved by:

Department Chair: [Signature]

College Curriculum Chair: [Signature]

College Dean: [Signature]

UUPC Chair: [Signature]

Undergraduate Studies Dean: [Signature]

UFS President: _____

Provost: _____

Date:

4-11-17

4/28/17

4/28/17

5/1/17

5/2/17

1. Syllabus must be attached; syllabus checklist recommended; see guidelines and checklist: www.fau.edu/academic/registrar/UUPCinfo

2. Review Provost Memorandum: **Definition of a Credit Hour** www.fau.edu/provost/files/Definition_Credit_Hour_Memo_2012.pdf

3. WAC approval (attach if necessary)

4. Gen. Ed. approval (attach if necessary)

5. Consent of affected departments (attach if necessary)