

FLORIDA ATLANTIC UNIVERSITY™

UUPC APPROVAL 4/24/15
 UFS APPROVAL _____
 SCNS SUBMITTAL _____
 CONFIRMED _____
 BANNER POSTED _____
 CATALOG _____

Undergraduate Programs—NEW COURSE PROPOSAL¹

DEPARTMENT: OCEAN & MECHANICAL ENGINEERING COLLEGE: ENGINEERING & COMPUTER SCIENCE

RECOMMENDED COURSE IDENTIFICATION:
 PREFIX **EGN** COURSE NUMBER **4323** LAB CODE (L or C) _____
 (TO OBTAIN A COURSE NUMBER, CONTACT RSHIMAN@FAU.EDU)
 COMPLETE COURSE TITLE: **Vibration Synthesis and Analysis**

EFFECTIVE DATE
 (first term course will be offered)
FALL 2015

CREDITS: **3²**

TEXTBOOK INFORMATION:
Mechanical Vibrations by Rao, Prentice Hall, 5th edition 2013, or equivalent text at the discretion of the instructor, and/or lecture notes

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

COURSE DESCRIPTION, NO MORE THAN THREE LINES:
Free and forced vibration of mechanical systems; damping; periodic and transient excitations; two degree of freedom, and continuous systems.

PREREQUISITES W/MINIMUM GRADE*:
1. MAP 3305 Engineering Mathematics I or MAP 2302 Differential Equations
2. EGN 3321 – Dynamics

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 RELATED ENGINEERING DISCIPLINES

WAC/GORDON RULE COURSE³
 YES _____ NO
 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:
 Dr. Edgar An, pan@fau.edu, 561-297-2792

Please consult and list departments that might be affected by the new course and attach comments.
 Department of Ocean & Mechanical Engineering⁵

Approved by:
 Department Chair: Jaymie Allen
 College Curriculum Chair: [Signature]
 College Dean: [Signature]
 UUPC Chair: [Signature]
 Undergraduate Studies Dean: [Signature]
 UFS President: _____
 Provost: _____

Date:
4/20/2015
4/23/2015
4/24/15
5/8/15

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)