**FLORIDA ATLANTIC UNIVERSITY**

Undergraduate Programs—NEW COURSE PROPOSAL

**DEPARTMENT:** OCEAN & MECHANICAL ENGINEERING

**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

**CREDITS:** 3

**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 X  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.

**EFFECTIVE DATE**
(First term course will be offered)
FALL 2015

**PREREQUISITES w/MINIMUM GRADE**:

1. MAP 3305 Engineering Mathematics I or MAP 2302 Differential Equations
2. EGN 3324 - 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 COURSE**

YES ____ NO X

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

Faculty contact, email and complete phone number:
Dr. Edgar An, pan@fau.edu, 561-297-2792

**GENERAL EDUCATION REQUIREMENT (MARK X IN FRONT OF SELECTION)**:

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

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

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

**APPROVED BY:**

Department Chair:

College Curriculum Chair:

College Dean:

UUPC Chair:

Undergraduate Studies Dean:

UFS President:

Provost:

**DATE:**

4/24/2015

4/23/2015

4/30/2015

FAU10015G—Revised September 2012