

CE 234: DYNAMICS AND EARTHQUAKE RESPONSE OF STRUCTURES

In Workflow

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Approval Path

1. Thu, 17 Sep 2020 02:35:53 GMT
Julie Fogarty (fogarty): Approved for CE Committee Chair
2. Thu, 17 Sep 2020 16:13:12 GMT
Benjamin Fell (fellb): Approved for CE Chair
3. Thu, 01 Oct 2020 16:30:18 GMT
Gareth Figgess (figgess): Approved for ECS College Committee Chair
4. Fri, 02 Oct 2020 15:48:03 GMT
Kevan Shafizadeh (kevan): Approved for ECS Dean

Course Deactivation Proposal

Date Submitted: Thu, 17 Sep 2020 02:34:03 GMT

Viewing: CE 234 : Dynamics and Earthquake Response of Structures

Last edit: Thu, 17 Sep 2020 02:34:02 GMT

Changes proposed by: Julie Fogarty (218645519)

Catalog Title:

Dynamics and Earthquake Response of Structures

Class Schedule Title:

Dynamc+Earthqke Rspn Strc

Academic Group: (College)

ECS - Engineering & Computer Science

Academic Organization: (Department)

Civil Engineering

Catalog Year Effective:

Spring 2021 (2021/2022 Catalog)

Subject Area: (prefix)

CE - Civil Engineering

Catalog Number: (course number)

234

Course ID: (For administrative use only.)

107601

Units:

3

In what term(s) will this course typically be offered?

Fall term only - odd years

Does this course require a room for its final exam?

Yes, final exam requires a room

Course Description: (Not to exceed 80 words and language should conform to catalog copy.)

Response of structures modeled as single-degree systems to harmonic, periodic, and arbitrary excitation and earthquake ground motion; effects of damping and material nonlinearity; numerical methods using spreadsheets; response spectra. Response of structures modeled as multi-degree systems: modeling of structure mass, damping and elastic stiffness; solution by modal superposition; time-history and response spectrum analysis; implications for codes for earthquake-resistant design. Microcomputer software is extensively used.

Fee Course?

No

Is this course designated as Service Learning?

No

Does this course require safety training?

No

Does this course require personal protective equipment (PPE)?

No

Does this course have prerequisites?

Yes

Prerequisite:

Knowledge of the stiffness method of structural analysis.

Does this course have corequisites?

No

Graded:

Letter

Approval required for enrollment?

No Approval Required

Course Component(s) and Classification(s):

Seminar

Seminar Classification

CS#05 - Seminar (K-factor=1 WTU per unit)

Seminar Units

3

Can this course be repeated for credit?

No

Can the course be taken for credit more than once during the same term?

No

Is this a Graduate Writing Intensive (GWI) course?

No

Key: 570