

CE 230A: WATER RESOURCES PLANNING

In Workflow

1. CE Committee Chair (fogarty@csus.edu)
2. CE Chair (fellb@csus.edu)
3. ECS College Committee Chair (figgess@csus.edu)
4. ECS Dean (kevan@csus.edu)
5. Academic Services (torsetj@csus.edu;%20cnewsome@skymail.csus.edu)
6. Senate Curriculum Subcommittee Chair (curriculum@csus.edu)
7. Dean of Undergraduate (james.german@csus.edu;%20celena.showers@csus.edu)
8. Dean of Graduate (cnewsome@skymail.csus.edu)
9. Catalog Editor (torsetj@csus.edu)
10. Registrar's Office (w lindsey@csus.edu)
11. PeopleSoft (PeopleSoft@csus.edu)

Approval Path

1. Tue, 06 Oct 2020 04:44:57 GMT
Julie Fogarty (fogarty): Approved for CE Committee Chair
2. Tue, 06 Oct 2020 16:29:16 GMT
Benjamin Fell (fellb): Approved for CE Chair
3. Fri, 23 Oct 2020 17:43:06 GMT
Gareth Figgess (figgess): Approved for ECS College Committee Chair
4. Fri, 23 Oct 2020 17:50:50 GMT
Kevan Shafizadeh (kevan): Approved for ECS Dean

New Course Proposal

Date Submitted: Fri, 02 Oct 2020 19:55:50 GMT

Viewing: CE 230A : Water Resources Planning

Last edit: Fri, 02 Oct 2020 19:55:49 GMT

Changes proposed by: Julie Fogarty (218645519)

Contact(s):

| Name (First Last) | Email | Phone 999-999-9999 |
|-------------------|----------------|--------------------|
| Ben Fell | fellb@csus.edu | 916-278-8139 |

Catalog Title:

Water Resources Planning

Class Schedule Title:

Water Resources Planning

Academic Group: (College)

ECS - Engineering & Computer Science

Academic Organization: (Department)

Civil Engineering

Will this course be offered through the College of Continuing Education (CCE)?

No

Catalog Year Effective:

Fall 2021 (2021/2022 Catalog)

Subject Area: (prefix)

CE - Civil Engineering

Catalog Number: (course number)

230A

Course ID: (For administrative use only.)

107621

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

Does this course replace an existing experimental course?

No

This course complies with the credit hour policy:

Yes

Justification for course proposal:

Graduate CE courses are being renumbered to clarify course topic areas to help students plan their path to graduation and be consistent with the undergraduate CE course numbers. Prerequisites numbers (not courses) are being changed to reflect course number changes that occurred in the undergraduate program in 2019-2020.

This is not a new course. It is being proposed as a new course so that the existing number can be reused for another course. There is no change to the content (course description, ELOs, assessment) for this course. It is simply a number change. Please drop the A from CE 230A when placing this course in the catalog. It is only there because an existing course has this number, but this other existing course will be moved to a different number.

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

Application of single and multi-objective planning to the design and operation of water resources projects. Objectives and constraints for water projects, criteria and procedures for evaluation, planning under uncertainty. Application in water development and water quality planning, with case studies.

Are one or more field trips required with this course?

No

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:

CE 281 or instructor permission.

Prerequisites Enforced at Registration?

Yes

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

Is this a paired course?

No

Is this course crosslisted?

No

Can this course be repeated for credit?

No

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

No

Description of the Expected Learning Outcomes: Describe outcomes using the following format: 'Students will be able to: 1), 2), etc.'

Students will be able to:

- 1) Explain the role of objectives, constraints, and alternative evaluation in water resources planning
- 2) Identify sources of uncertainty in water resources planning
- 3) Interpret planning documents in diverse areas of water resources engineering
- 4) Compare planning processes in water resources at the state and federal levels
- 5) Apply single and multi-objective planning to the design and operation of water resources projects
- 6) Develop Water Evaluation and Planning System (WEAP) models for water resources projects

Attach a list of the required/recommended course readings and activities:

CE-230 Class Syllabus_F19.pdf

Assessment Strategies: A description of the assessment strategies (e.g., portfolios, examinations, performances, pre-and post-tests, conferences with students, student papers) which will be used by the instructor to determine the extent to which students have achieved the learning outcomes noted above.

Homework (ELOs - 1-5)
 Projects (ELOs - 5-6)
 Presentation (ELOs - 5-6)
 Exam (ELOs 1, 2, 4, 5)

For whom is this course being developed?

Majors in the Dept

Is this course required in a degree program (major, minor, graduate degree, certificate?)

No

Does the proposed change or addition cause a significant increase in the use of College or University resources (lab room, computer)?

No

Will there be any departments affected by this proposed course?

Yes

Indicate which department(s) will be affected by the proposed course:**Department(s)**

Civil Engineering

I/we as the author(s) of this course proposal agree to provide a new or updated accessibility checklist to the Dean's office prior to the semester when this course is taught utilizing the changes proposed here.

I/we agree

University Learning Goals

Graduate (Masters) Learning Goals:

Critical thinking/analysis
Disciplinary knowledge

Is this course required as part of a teaching credential program, a single subject, or multiple subject waiver program (e.g., Liberal Studies, Biology) or other school personnel preparation program (e.g., School of Nursing)?

No

Is this a Graduate Writing Intensive (GWI) course?

No

Key: 14313