CE 142: TRANSPORTATION SYSTEMS

In Workflow

- 1. CE Committee Chair (fogarty@csus.edu)
- 2. CE Chair (fellb@csus.edu)
- 3. ECS College Committee Chair (troy.topping@csus.edu)
- 4. ECS Dean (kevan@csus.edu)
- 5. Academic Services (torsetj@csus.edu;%20212408496@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 (212408496@csus.edu;%20torsetj@csus.edu;%20cnewsome@skymail.csus.edu)
- 10. Registrar's Office (wwd22@csus.edu;%20wlindsey@csus.edu;%20sac19595@csus.edu;%20danielle.ambrose@csus.edu; %20h.skocilich@csus.edu;%20205109584@csus.edu)
- 11. PeopleSoft (PeopleSoft@csus.edu)

Approval Path

- 1. Sat, 12 Oct 2019 03:21:56 GMT Julie Fogarty (fogarty): Approved for CE Committee Chair
- 2. Mon, 14 Oct 2019 18:00:22 GMT Benjamin Fell (fellb): Approved for CE Chair
- Fri, 25 Oct 2019 16:31:41 GMT Troy Topping (troy.topping): Approved for ECS College Committee Chair
- 4. Fri, 25 Oct 2019 16:53:26 GMT Kevan Shafizadeh (kevan): Approved for ECS Dean

History

1. Nov 30, 2018 by Julie Fogarty (fogarty)

Date Submitted:Sat, 12 Oct 2019 03:10:43 GMT

Viewing:CE 142 : Transportation Systems

Formerly known as: CE 148

Last approved:Fri, 30 Nov 2018 15:02:00 GMT

Last edit:Sat, 12 Oct 2019 03:10:42 GMT

Changes proposed by: Julie Fogarty (218645519) Contact(s):

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

Catalog Title:

Transportation Systems

Class Schedule Title: Transportation Systems

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 2020 (2020/2021 Catalog)

Subject Area: (prefix) CE - Civil Engineering Catalog Number: (course number)

142

Course ID: (For administrative use only.) 107321

Units:

3

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

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:

Undergraduate CE courses are being renumbered to clarify course pre- and co-requisites and topic areas to help students plan their path to graduation. Prerequisites numbers (not courses) are being changed to reflect course number changes.

Through curriculum paper forms in 2016, each CE course had the "Not currently enrolled in CE XXX" as a prerequisite approved, so that students could not register for a "CE" prefix course if they were currently enrolled in it. This was to prevent students who thought they were failing from giving up or taking up a seat they didn't need if they passed the course. That prefix managed to make it into the online system for only one or two classes and is being put through curriculum workflow again.

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

Transportation systems evaluation and management. Focus on transportation planning methods, including data analysis, estimation of future demand, evaluation of travel demand impacts on existing systems, and transportation system decision-making.

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 140. Not currently enrolled in CE 142.

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): Lecture

Lecture Classification

CS#04 - Lecture /Recitation (K-factor=1 WTU per unit)

Lecture 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. Describe the requirements of transportation systems and concepts of transportation planning.

2. Describe the urban travel characteristics and data needs for transportation planning.

3. Explain the process of travel demand forecasting.

4. Implement the four-step travel demand modeling process.

5. Identify appropriate solutions for transportation system requirements.

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

2020 Fall - CE142 - Syllabus.docx

Assessment Strategies: A description of the assessment strategies (e.g., portfolios, examinations, performances, pre-and posttests, 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.

Exams (ELO 1-5) Project (ELO 4,5)

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?

No

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

Undergraduate Learning Goals:

Competence in the disciplines Knowledge of human cultures and the physical and natural world Integrative learning Intellectual and practical skills 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

GE Course and GE Goal(s)

Is this a General Education (GE) course or is it being considered for GE?

No

Key: 540