

PUB 151: STREET CONSTRUCTION AND MAINTENANCE

Citrus College Course Outline of Record

Heading	Value
Effective Term:	Fall 2021
Credits:	3
Total Contact Hours:	54
Lecture Hours :	54
Lab Hours:	0
Hours Arranged:	0
Outside of Class Hours:	108
Strongly Recommended:	ENGL 101.
Transferable to CSU:	No
Transferable to UC:	No
Grading Method:	Standard Letter, Pass/No Pass

Catalog Course Description

A course in street maintenance covering materials and methods, with emphasis on preventive maintenance of Asphaltic and Portland Cement concrete pavements. Specifications, records and cost accounting systems, as well as revenue sources and budget preparation, will be reviewed. Other subjects include safety, drainage, equipment records and specifications, review of watershed management, and public relations. Codes which pertain to improvements and repair will be reviewed. 54 lecture hours.

Course Objectives

- Demonstrate knowledge of the various materials used for the maintenance of pavements
- Examine and understand the latest street maintenance technologies
- Demonstrate knowledge of construction means, methods and equipment employed in asphalt and concrete pavement construction.
- Understand the basic requirements for temporary vehicular and pedestrian traffic control.
- Understand fundamental maintenance record keeping
- Examine ethical issues in construction and maintenance.

Major Course Content

1. Introduction / Overview
2. Street Construction & Maintenance Terminology
3. Review of Maintenance Practices
4. Pavements
5. Existing Surface Improvements
6. Existing Subsurface Improvements
7. Joint and crack sealing
8. Spalling and scaling repair methods and materials
9. Drainage Systems Methods of calculating runoff
10. Review of Storm Water Pollution Prevention Programs (SWPPP)
11. Maintenance Construction Means, Methods & Equipment

12. Maintenance Record keeping
13. Applicable Governing Documents (Ordinances, Codes and Regulations)
14. Plans & Specifications
15. Basic Maintenance Budget Preparation
16. Public Convenience and Safety
17. Stakeholder Relations
18. Customer service
19. Maintenance Work Order Systems
20. Ethics in Construction & Maintenance

Suggested Reading Other Than Required Textbook

Instructor supplied articles and case studies.

Examples of Required Writing Assignments

Students will prepare a preventative maintenance plan on asphalt roadway repairs. This would include cost analysis, safety aspects, public relations, and an action plan.

Examples of Outside Assignments

Students will develop an action plan on re-constructing a section of roadway. Students will incorporate types of asphalt, equipment, safety supplies, budget, and any additional subjects in order to calculate overall cost and supply for the project.

Instruction Type(s)

Lecture, Online Education Lecture