

Sub

FORMAT 1

10. **COMPLETE CATALOG DESCRIPTION** including dept., number, title and credits (50 words or less, if possible):

CE F653A, Scheduling for Construction Administration, 1 credit

This course will investigate project tracking, changes to the project, delays, and network scheduling basics. Students will learn CPM and programs available for construction scheduling, – MS Project or Prima Vera

11. **COURSE CLASSIFICATIONS:** (undergraduate courses only. Use approved criteria found on Page 10 & 17 of the manual. If justification is needed, attach on separate sheet.)

H = Humanities

S = Social Sciences

Will this course be used to fulfill a requirement

resolution. *If not, explain why not.*

Offerings above the level of approved programs must be approved in advance by the Provost.

ALL SIGNATURES MUST BE OBTAINED PRIOR TO SUBMISSION TO THE GOVERNANCE OFFICE

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Course Syllabus – CE 653A Scheduling for Construction Administration

1. Course Information

CE 653A Scheduling for Construction Administration. 1 credit. Prerequisites (recommended): BS in engineering, science, or any college degree with construction experience. Location: Video Conference Room, 2nd floor, UAF Center for Distance Education, corner University Avenue and Davis Road, Fairbanks; State Office Building, 9th floor Conference Room, Juneau; Alaska Department of Administration Enterprise Technology Services (ETS) Building, 5900 Tudor Road, Small Conference Room, Anchorage. Meeting times: 3:00 to 5:15 PM.

2. Instructor

Dr. F. Lawrence Bennett, P.E. Office: Duckering 233 Office hours: arranged with instructor 907-479-5118 benco@alaska.net

3. Course readings/materials

Handout materials to complement lecture/discussions.

A large number of project scheduling books is available, many oriented toward construction management. Among the most recent are

Mubarak, Saleh. *Construction Project Scheduling and Control*. John Wiley & Sons, Inc., 2010, ISBN: 0470505338, 480 p.

Hajdu, Miklos. *Network Scheduling Techniques for Construction Project Management*. Springer US, 2010, ISBN: 1441947655, 352 p.

Newitt, Jay S. *Construction Scheduling: Principles and Practices* (2nd Ed.). Prentice Hall, 2008, ISBN: 0135137829, 384 p.

4. Course description

The course is part of the UAF Civil & Environmental Engineering department's effort to support training needs of practicing professionals. The course was developed with special support of and input from Alaska Department of Transportation and Public Facilities Pre-Construction. The catalog description is as follows:

Basics of project scheduling. Different types of schedules for different uses. Network scheduling, its value and limitations. Basic and advanced elements of Microsoft® Project software. Applications to project design scheduling, personnel management, progress monitoring and claims administration. Laptop computer with Microsoft® Project 2007 is required. (Trial version is available on Microsoft website.)

Written assignments and reports, student presentations, no final exam.

5. Course Goals (General):

Provide practical basic training in project scheduling fundamupa11(e)n34e62(a)-1(na)t(r)-2a 2.07 0 t6312 72

Student Learning Outcomes (More specific):

Gain knowledge of different types of design schedules and levels of detail for different uses such as project planning, resource allocation, and reporting.
Understand the basics of network scheduling, its value and limitations for the design process
Acquire a comfortable level of competence with Microsoft® Project software
Develop an appreciation of potential applications of network scheduling to personnel scheduling, progress monitoring and contract claims administration

6. Instructional Methods

The course will utilize a combination of lecture, discussion, and student reports. For various classes, lectures will originate in Fairbanks, Anchorage or Juneau,

