

Submit original with signatures + 1 copy+ electronic copy to UAF Governance.

See <http://www.uaf.edu/uafgov/faculty/cd> for a complete description of the rules governing curriculum & course changes.

<b>TRIAL COURSE OR NEW COURSE PROPOSAL</b>
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**SUBMITTED BY:**

Department	Civil and Environmental Eng.	College/School	CEM
Prepared by	Robert Perkins	Phone	474 7694
Email Contact			

This course will investigate the unique construction management issues relating to arctic

The Graduate Certificate in Construction Management and its courses was approved by the CEE faculty and the CEM dean.

**21. POSITIVE AND NEGATIVE IMPACTS**

Please specify **positive and negative** impacts on other courses, programs and departments resulting from the proposed action.

This course follows the New Degree Program Request which examined the growth in the CEE department. No additional positive or negative impacts from this course are likely.

**JUSTIFICATION FOR ACTION REQUESTED**

The purpose of the department and campus-wide curriculum committees is to scrutinize course change and new course applications to make sure that the quality of UAF education is not lowered as a result of the proposed change. Please address this in your response. This section needs to be self-explanatory. Use as much space as needed to fully justify the proposed course.

This course is part of a UAF CEE outreach to package our graduate classes in a way that is convenient to students and their employers. This outreach was formalized in a New Degree Program Request for a Graduate Certificate in Construction Management which was approved by the UA Board of Regents in September 2009. The courses in this program grew out of a needs assessment by UAF CEE of Alaska engineering employers, including governments, consultants, and contractors, that indicated that courses of about one credit's intensity were best. The classes are being taught by UAF faculty, emeritus faculty, or appropriate adjuncts approved by the CEE faculty and Chair. All classes feature an assessment process: tests, reports, presentations, and/or graded homework.

**APPROVALS:**

**ADDITIONAL SIGNATURES: (As needed for cross-listing and/or stacking)**

	Date	
Signature, Chair, Program/Department of:		
	Date	
Signature, Chair, College/School Curriculum Council for:		
	Date	
Signature, Dean, College/School of:		

# Outline Syllabus

## Arctic Construction

### 1. Course information:

Arctic Construction ,CE F656A, One credit,  
Prerequisites: Recommended Admission to the Graduate Certificate in Construction Management Program.

*Location and Meeting Time* will be specific to each offering of the course.

### 2. Instructor (and if applicable, Teaching Assistant) information:

*Instructors Name, Office Location, Office Hours, as well as Telephone and Email* contact information will be specific to each offering of the course.

### 3. Course readings/materials:

Handout of text material and assigned materials students will download from the Internet.

### 4. Course description:

This course will investigate the unique construction management issues relating to arctic environments. Issues of permits, transportation, snow fences and ice roads and how each impact the project will be analyzed .

### 5. Course Goals (general), and (see #6)

Improve the student's skills in managing construction and arctic construction.

### 6. Student Learning Outcomes (more specific)

Understand the construction management issues peculiar to arctic environments and be able to anticipate when they will arise.

Understand how arctic issues impact all aspects of construction project management.

### 7. Instructional methods:

Face to face lecture and remote lectures via video conferencing, student presentations and reports. Students will use the Internet to download some instruction material.

### 8. Course calendar:

#### Class 1

Introduction

Snow Fences

Class 2

Management of tundra travel

Analysis of disturbance to vegetation

Class 3

Unique Challenges to Remote Construction Management

Case Studies

Class 4

Ice Roads

Class 5

Permitting Arctic Projects

Spring Weight Restrictions

Class 6

Class Project Presentations

**9. Course policies:**

Due to the limited number of classes, attendance and class participation is expected in all classes, unless arranged otherwise with the instructor, and will be considered in determining final grade. Plagiarism will not be tolerated.

**10. Evaluation:**

The final grade will be determined on the following basis:

Final presentation (written: 35%; oral: 30%)	65%
Class participation	23%
Attendance (6 @2%)	12%

**11. Support Services:**

Administrative services for the course are provided by the Center for Distance Education 907-479-4757 and technical assistance by Video Conferencing Services 1-800-910-9601

**12. Disabilities Services:**

The Office of Disability Services implements the Americans with Disabilities Act (ADA), and insures that UAF students have equal access to the campus and course materials.

We will work with the Office of Disabilities Services (208 WHIT, 474-5655) to provide reasonable accommodation to students with disabilities.