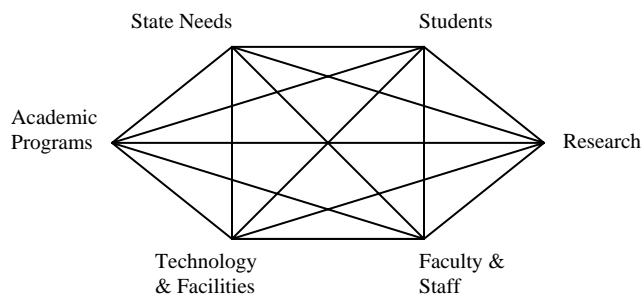


University of Alaska New Program Approval

Board of Regents Summary Form

**University of Alaska Fairbanks
Tanana Valley Campus (TVC)
College of Rural and Community Development
Associate of Applied Science in Construction Management**



Title and brief description:¹

Tanana Valley Campus in UAF's College of Rural and Community Development proposes to offer the **Associate of Applied Science degree program in Construction Management (AAS-CM)** already approved by the Regents for delivery at UAA. TVC's proposal is to adopt program requirements and curriculum identical to those offered at UAA and to make them available to UAF students.

The AAS-CM program is designed to provide students with the interdisciplinary skill set needed to succeed in construction management. Construction managers plan, direct and provide managerial oversight for construction projects. They coordinate the many different elements of construction projects including human, material, and financial resources. A successful construction manager possesses skills that span a broad range of disciplines along with technical knowledge of construction processes and procedures.

The program has been designed in accordance with the accreditation Standards and Criteria for Associate Degree Programs (Form 103A) published by the American Council for Construction Education (ACCE). This program was created with high academic standards while providing a broad foundation of technical knowledge. TVC's expansion of the AAS-CM to UAF is being done in active collaboration and partnership with industry and construction professionals in the Fairbanks and Interior Alaska areas, with deans and faculty in UAF's College of Engineering and Mines and School of Management, and with Construction Management faculty in the UAA Community and Technical College.

Target Admission date: Fall semester 2006

Relation to the **Academic Mission** of the University of Alaska

By training Alaskan construction managers, this program meets high-demand job needs and provides a path into the challenging and rewarding careers available in industry. The proposed program is aligned with the University of Alaska mission to meet state and local needs and to provide opportunities to all who can benefit from educational programs of high quality.

Specifically, the program addresses UA Strategic Plan 2009's goal of responding flexibly to state needs in the areas of workforce development (UA Strategic Plan 2009, Goal 5). The

¹ The program description and supporting materials presented here draw extensively from the UA new program approval form originally submitted by UAA's Community and Technical College in 2004.

program fulfills the Regents' commitment to the university's community college mission, developing new and relevant programs, and increasing collaboration across campuses (*ibid*, goal 2).

State Needs

The construction industry has been a key contributor to economic activity in Alaska since statehood. Currently, construction contributes about 7.5% of the approximate \$25 billion annual gross state product. According to the State of Alaska, Department of Labor publication *Alaska Economic Trends*, May 2005, "Over the last five years construction jobs have grown at the remarkable average rate of 5.5% annually . . . Strong construction growth in recent years makes it a feat simply to retain the high number of jobs. The state will manage to do that in 2005 and 2006 and grow even further though at a reduced rate" (*ibid*, p. 6).

This growth in construction is mirrored in mining and oil and gas sectors. Here too, state data indicate the promise of expanding opportunities (*ibid*). A worst case scenario, highlighted in some quarters, suggests Alaska could face a drastic workforce shortage due to expansion in construction, mining, and oil and gas sectors—linked to prospects for increased mining activity, a gasline, ANWR development, and other projects.

Current and long-term employment opportunities for construction management graduates are very good. Typical job titles for such positions include, project managers, assistant project managers, project coordinators, project administrators, project field assistants, cost estimators, quantity surveyors, and project schedulers. According to Bureau of Labor Statistics projections, employment for construction managers will increase between 10 and 20 percent nationally over the next decade. This agrees with the State of Alaska, Department of Labor publication *Alaska Occupational Forecast to 2010*, where an increase of approximately 14% is anticipated. These factors appear to indicate anticipated steady growth of employment opportunities in the construction management field.

A major conference on Alaska's workforce held in Kenai, Alaska in April 2005 highlighted just these needs. Business, labor, and university participants alike expressed common concern about a coming 'perfect storm'— where Alaska's construction and resource development opportunities are expanding but in the end are hindered by a lack of skilled workers. These findings mirror concerns of statewide and regional leaders such as Alaska Gov. Frank Murkowski, the state's workforce investment board, Commonwealth North (a prominent civic leadership organization) and the Interior Alaska Regional Council (the regional workforce board).

For example, construction and transportation have been on the Alaska Workforce Investment Board's short list of high-need "job clusters" since at least 2003, due to their growth potential (*Commonwealth North* report, "Alaska's Jobs for Alaska's People", June, 2003; page 5). As recently as June 20, 2005, the *Fairbanks Daily News-Miner* quotes the Executive Director of the Associated General Contractors reporting a 6% shortfall in the construction industry, which is expected to compound every year for the coming decade. The industry will need 1,000 new workers per year, the majority of them for construction in oil and gas and mining.

Current University Response to Needs

UAA's offering of the AAS-CM in 2004 represented a major step forward in responding to documented need for construction managers. Initial enrollment in the program and employment of recent graduates shows that creation of the program meets an ongoing need.

Planning for this program and curriculum began with a study of the Alaskan construction industry, an assessment of need for trained construction managers and structure, job trends in Alaska, and content review of existing CM degree programs at other institutions. The 2002 study entitled "*Needs Assessment – A Construction Management Bachelor of Science Degree Program in Alaska*" (attached) was conducted by David Gunderson, CPC (Alcan General Contractors), and Jang W. Ra, Ph.D., Herb Schroeder, Ph.D. (School of Engineering), and H.R. Holland (Division of Applied Technologies) and was published in the Associated Schools of Construction, *Journal of Construction Education*.

Notable findings from this study include:

- Alaska is one of only seven states that do not have a postsecondary construction management education program. Related programs in Construction Technology and Residential Building are described below.
- The nearest accredited program in construction management is at the University of Washington in Seattle, WA.
- The average Alaska construction contractor rates the difficulty of finding entry-level construction management personnel at 4 on a scale of 1 to 5 with 5 being most difficult.
- The study concluded that Alaska construction companies would hire approximately 31 construction management graduates yearly at an average entry-level annual salary of \$39,000.
- The study generated 34 letters of support from construction industry contractors and more than one unsolicited offer of funding to support curriculum development.

Degree programs elsewhere in the University of Alaska do provide employers some construction management entry-level employees. The AAS degree in Construction Technology and the certificates in Residential Building at UAS include some courses in construction materials, methods, and management, with content that overlaps with the proposed and existing UAA courses. UAF's recently-approved Certificate and AAS program in Construction Trades Technology (CTT) focus primarily on hands-on training in construction techniques and technologies. The CTT program is also developing an emphasis in rural project management that could provide a career ladder to the AAS-CM and to other advanced degrees.

Programs at UAF and UAA in Civil Engineering, Arctic Engineering, Project Management, and Engineering Management are all engineering degrees that provide skills and training related to construction management. Construction employers often accept, and in some cases prefer, these engineering-related degrees for engineering management and construction management employees. Necessarily, however, engineering degrees emphasize design-oriented skills. The Accreditation Board for Engineering and Technology (ABET) is the primary accreditation body for engineering degrees.

Research conducted in the Gunderson Study (attached) shows that construction entities in Alaska are primarily concerned with the business, management, and execution of construction operations. These companies prefer an *interdisciplinary* approach to construction management

training. The American Council for Construction Education (ACCE) is the primary accreditation body for construction management degrees. This proposed degree program was designed to provide graduates with the skills preferred by Alaskan companies, and to be structured and presented in accordance with ACCE criteria for accreditation.

Architecture is another related field of study where construction managers are sometimes drawn. However, there are no schools of architecture in Alaska.

Program Planning – AAS in CM

Planning for UAA's initial offering of the degree involved interested groups from within and outside of the University during the period 2000-04. Among the groups represented were the Associated General Contractors of Alaska, the UAA Community and Technical College, Division of Applied Technology and Architectural and Engineering Technology (AET) Department, the AET Program Advisory Committee, the UAA School of Engineering, the UAA Provost's Office, and the University of Alaska Office of University Relations. These discussions culminated in a Design a Curriculum (DACUM) exercise in February of 2003, where UAA faculty and approximately 17 construction professionals met and detailed the specific knowledge and skills that are needed by construction managers and their importance, difficulty and frequency of use. The DACUM resulting from this exercise is found in Appendix A.

The resulting program and curriculum proposal was approved by UAA's Faculty Senate in December 2003 and ultimately by the UA Board of Regents at their meeting in February 2004.

UAF's Tanana Valley Campus in Fairbanks plays a central role in meeting workforce development needs in Interior and Northern Alaska. Its location near UAF's main campus and prominence in Fairbanks, Alaska's second largest city, means that it is uniquely poised to meet emerging workforce development needs. It has active partnerships with business and industry and a long history of serving the region's vocational and technical training needs.

On October 18, 2006 TVC held a meeting with construction industry leaders in Fairbanks (see list of attendees in Appendix B). In addition to industry, those in attendance included: Dick Cattanaugh, executive director of Associated General Contractors in Anchorage; Jeff Callahan, UAA Assistant Professor of Construction Management; Wayne Marr, Dean of UAF's School of Management, and professors Robert Perkins and Dan White from UAF's School of Engineering and Mines. After thorough discussion, industry and university participants voiced strong support for bringing the approved UAA program to UAF and to TVC. Industry participants affirmed findings about construction industry growth in Fairbanks and Interior Alaska, prospective demand for such a program, and the appropriateness of using the established UAA program requirements and curriculum.

The AAS-CM degree is expected to be the first step in the development of programs that serve this valuable and growing Alaskan industry. UAA is currently beginning work on a proposal for a BS degree in Construction Management. The BSCM degree will incorporate additional industry defined knowledge and skills and allow students to expand and refine their preparation for their profession. The proposed AAS-CM degree will allow students to articulate into the BS degree at UAA if they so choose. UAF's College of Engineering and Mines is also exploring options for offering baccalaureate or graduate degrees in construction management or project management.

Student Opportunities

Bringing the approved AAS-CM to TVC/UAF opens up new opportunities for students in Fairbanks and Interior Alaska to advance their skills in construction management. The Gunderson study demonstrates a strong demand for construction management entry-level employees in general contractor and subcontractor businesses. However, contractors are not the only potential employers of construction managers. Other potential employers include a large number of public owner-agencies who employ construction management personnel as owner's representatives or project administrators to oversee and administer projects internally on their behalf. Some examples of such organizations include Federal, State, and local government agencies, school districts, the military, Alaska Native-owned organizations, housing authorities, and private commercial facilities owners. Additionally, there are a number of project management consulting firms in Alaska who will benefit from a larger pool of trained construction managers.

Student Outcomes - AAS in Construction Management

CM Mission Statement: The Construction Management program prepares students for work as entry level construction managers and provides continuing education for construction employees.

The following tables list the program outcomes and assessment strategies for the Construction Management AAS Degree.

Associate of Applied Science in Construction Management.

Upon completion the graduate will be able to:	This outcome will be assessed by one or more of the following:
Analyze, interpret and understand the process used to create construction drawings and other documents used in construction.	Graduate surveys Employer surveys. Advisory committee feedback.
Define the roles, relationships, and responsibilities of the participants in the construction process.	Graduate surveys Employer surveys. Advisory committee feedback.
Define basic building systems, building equipment, materials, techniques and assemblies for construction.	Graduate surveys Employer surveys. Advisory committee feedback.
Define basic structural theories and physical principles affecting structural behavior in buildings and civil works.	Graduate surveys Employer surveys. Advisory committee feedback.
Define the basic elements of civil construction, soil mechanics, foundations, roads, and construction surveying.	Graduate surveys Employer surveys. Advisory committee feedback.
Analyze financial data and construction budgets for procurement decision-making and effective planning and control of construction operations.	Graduate surveys Employer surveys. Advisory committee feedback.
Interpret construction documents and related information to calculate quantities of material, labor, and equipment needed for a project.	Graduate surveys Employer surveys. Advisory committee feedback.

Interpret construction documents and productivity factors to estimate costs for material, labor, equipment and other resources needed for a project.	Graduate surveys Employer surveys. Advisory committee feedback..
Utilize effective planning and scheduling methods to organize, track and update construction projects.	Graduate surveys Employer surveys. Advisory committee feedback.
Apply data analysis to identify construction problems, specify goals, and execute projects including understanding quality control and quality assurance.	Graduate surveys Employer surveys. Advisory committee feedback.
Interpret standard building codes for application in modern construction processes.	Graduate surveys Employer surveys. Advisory committee feedback.
Identify, understand and apply the elements in construction employee relations and contract law.	Graduate surveys Employer surveys. Advisory committee feedback.
Utilize industry standard software for computer-aided drafting (CAD), estimating, scheduling and resource management.	Graduate surveys Employer surveys. Advisory committee feedback.
Understand the processes of construction disputes, claims, and project documentation.	Graduate surveys Employer surveys. Advisory committee feedback.
Obtain working knowledge of safety, health, and environmental issues related to construction activities.	Graduate surveys Employer surveys. Advisory committee feedback.

Enrollment Projections

All indicators point to a very strong demand for this program. UAA's program began with 14 registered majors in fall 2004 (UAA Trendbook 2005) and has since grown to over 40 (J. Callahan, UAA Construction Management faculty).

Anticipated enrollment in the TVC/UAF program is 15 students for the first year. After the first year enrollment and advising data will be analyzed and decisions will be made whether to limit enrollment and/or add sections as necessary. Faculty and resources committed to this program could support the enrollments summarized below.

Anticipated TVC Construction Management 4-year Enrollment Projections:

YEAR	AY 07	AY08	AY09	AY10
Enrollment	15	20	20	20
Graduates	0	5-10	15	15

Research Opportunities

The construction management field offers a host of opportunities for applied research.

The climatic and geographic location of Alaska requires that construction managers often face difficult and sometimes extreme logistical and technological challenges. Because of these challenges, construction contractors in Alaska have developed unique processes and procedures that allow them to successfully complete projects in the most difficult circumstances. Most of these management processes and procedures have been developed primarily by trial and error, are often proprietary, and have not had the benefit of objective research.

In Fairbanks, the Cold Climate Housing Research Center (CCHRC) and the College of Engineering and Mines' Institute of Northern Engineering provide potential links to research opportunities for students.

Examples of potential research topics include:

- Remote site project scheduling and management,
- Managing skilled/unskilled labor in culturally diverse settings,
- Cold weather construction methods and techniques,
- Construction operations in environmentally sensitive areas,
- Construction operations and techniques in permafrost.

Students in the CM program will have the opportunities, through their internships, to assist contractors in the design, implementation and evaluation of these areas.

Faculty and Staff

Because of the integrated nature of the skills required by a construction manager, this program will take maximum advantage of existing courses within the University. TVC already offers courses for AAS-CM students in mathematics, developmental math, physics, English, Applied Business, Applied Accounting, and Drafting/CADD. Regular faculty and well qualified adjuncts teach these on a regular basis.

In addition, TVC expects to hire one regular faculty member/coordinator for the AAS-CM who will have primary responsibility for instruction, program coordination, advising, and hiring of adjuncts. A drafting faculty member, now being hired through separate funding, will be offering CADD courses of relevance to AAS-CM students. Funding will also be provided to hire 2-3 adjunct faculty each semester who will supplement faculty resources. A .25 FTE administrative assistant position will be funded to provide support to these faculty and to students.

We expect that faculty hired on both a regular and adjunct basis will have both a solid academic background in CM fields and extensive experience in practical applications of CM.

Importantly, TVC's CM program will have an advisory committee led by industry to guide its development and strategic direction. Like other TVC programs, this committee will have between 7-9 members and will meet at least quarterly.

In addition, TVC expects to develop a memorandum of understanding with UAA's CM program faculty to ensure program quality, consistency, and coordination of curriculum development and modifications. The MOU will specify mechanisms for regular faculty consultation and collaboration. It will be reviewed annually and updated as needed.

Impacts on Existing Technology & Facilities

We anticipate that the center of TVC's CM program will be at the campus's Hutchison Institute of Technology facility. This facility, shared with the Fairbanks North Star Borough's Hutchison High School (a career-technical education high school), has classrooms, office space, and computer labs specifically designed for teaching computer-aided drafting and design. It also has shops available for applied lab work.

Other classes, particularly those in general requirements and in Applied Business and Math, may be held at Tanana Valley Campus Center (TVCC) or other TVC locations.

Program Budget

The attached budget (Appendix C) details costs expected during the program's first three years, based upon enrollment projections. It shows support for regular and adjunct faculty, administrative assistance, contractual and commodities expenses. It also provides estimates of additional revenue expected from tuition and fees associated with new CM courses.

Funding at the level shown is anticipated from UA workforce development sources and industry support. Strong enrollments and industry underwriting are anticipated to increase both revenues and costs. This will require continuing review of funding sources and possible reallocations of TVC and other program funds over time.

Delivery Considerations

Coursework will be presented in the classrooms and computer labs available through TVC. While no CM distance courses are currently offered, faculty and advisory committees at TVC and UAA expect to explore options for sharing coursework using current and emerging distance technologies.

PROPOSED CATALOG COPY

CONSTRUCTION MANAGEMENT

Tanana Valley Campus (TVC)
College of Rural and Community Development
455-2800, www.tvc.uaf.edu/constructionmanagement

TVC's Construction Management (CM) AAS program meets growing needs in the construction industry by training entry-level construction managers and by providing continuing education for construction employees.

Construction managers plan, direct, and are responsible for managerial oversight of construction projects. They are responsible for coordinating and managing people, materials, and equipment; budgets, schedules, and contracts; and safety of employees and the general public. Construction managers determine construction means and methods and the most cost-effective plans and schedules. They track construction costs and administer contract changes to the project budget to maximize profitability. Construction managers monitor work progress to ensure compliance with architectural and engineering drawings and specifications.

Construction managers work in all phases of the construction business – public and private owners; small multifamily projects to the largest of skyscrapers and industrial projects; rural roads to major highways. Construction managers work closely with architects, engineers, owners, and the various contractors on a construction job. The construction manager's duties are varied, challenging, and rewarding.

UAF's Construction Management program mirrors that offered at UAA and was developed with input from local contractors and professional industry organizations and provides students with a broad knowledge of building systems and construction techniques. CM graduates understand basic principles of business and have knowledge of the technical aspects of the construction industry. Graduates are able to function both in the construction office and on the job site.

The CM Associate of Applied Science (AAS) degree requires 4 to 5 semesters to complete. While not a prerequisite, we recommend that students applying for admission have experience in the construction industry.

ADVISING

All students are encouraged to meet with their academic advisor each semester for the purpose of reviewing their academic progress and planning future courses. It is particularly important for students to meet with their advisor whenever academic difficulties arise.

Students are encouraged to consult the faculty in the Construction Management program for assistance in designing their course of study to ensure all prerequisites have been met and that university and major degree requirements are understood and followed.

PREPARATION

Students seeking the Associate of Applied Science degree in Construction Management should prepare for entrance into the program by completing the following high school courses:

Mathematics	Algebra II (Skill level as demonstrated by ACT, SAT, or a placement test to qualify for enrollment in MATH F107X.)
English	Composition (Skill level as demonstrated by ACT, SAT, or placement test to qualify for enrollment in ENGL F111X.)

The University offers courses to help students without this preparation to meet the skill level required in the Construction Management program. Insufficient preparation will increase the number of semesters required to complete the degree.

**ASSOCIATE OF APPLIED SCIENCE,
CONSTRUCTION MANAGEMENT**

ADMISSION REQUIREMENTS

See Associate Degree Program Admission Requirements.

COURSE REQUIREMENTS

Certain courses require prerequisites or faculty permission. Contact your advisor.

GRADUATION REQUIREMENTS

In order to receive the AAS in Construction Management, students must achieve a grade of “C” or better in all courses required for the degree.

GENERAL UNIVERSITY REQUIREMENTS

1. Complete the general university requirements.
2. Complete the AAS degree requirements.

COMMUNICATIONS

ENGL 111X	3
ENGL 212	3
COMM 131X or COMM 141X	3

COMPUTATION:

MATH 107X	4
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HUMAN RELATIONS

Human Relations is embedded in the following discipline-based courses:
CM F201, CM F299

MAJOR REQUIREMENTS

1. Complete the following required courses (52 credits).

ABUS F101	Principles of Financial Accounting I	3
ABUS F201	Principles of Financial Accounting II	3
CM F102	Methods of Building Construction	3
CM F123	Codes and Standards	3

CM F142	Mechanical and Electrical Technology	4
CM F163	Building Construction Cost Estimating	3
CM F201	Construction Project Management	3
CM F202	Project Planning and Scheduling	3
CM F205	Construction Safety	3
CM F213	Civil Technology	4
CM F231	Structural Technology	4
CM F263	Civil Construction Cost Estimating	3
CM F299	Construction Management Internship	3
DRT F170	Beginning AutoCAD	3
MATH F108	Trigonometry	3
PHYS F103X	College Physics	4

2. A total of 65 credits is required for the degree.

Recommended Course Sequence

First year

Fall Semester (13 credits)

DRT F170	Beginning AutoCAD	3
CM F102	Methods of Building Construction	3
MATH F107X	Functions of Calculus	4
ENGL F111X	Methods of Written Communication	3

Spring Semester (16 credits)

CM F123	Codes and Standards	3
CM F142	Mechanical and Electrical Technology	4
CM F163	Building Construction Cost Estimating	3
ABUS F101	Principles of Financial Accounting I	3
MATH F108	Trigonometry	3

Summer Semester (3 credits)

CM F299	Construction Management Internship	3
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Second year

Fall Semester (17 credits)

CM F201	Construction Project Management	3
CM F213	Civil Technology	4
CM F231	Structural Technology	4
ABUS F201	Principles of Financial Accounting II	3
COMM F131X	Fundamentals of Oral Communication	3
OR COMM F141X		

Spring Semester (16 credits)

CM F202	Project Planning and Scheduling	3
CM F205	Construction Safety	3
CM F263	Civil Construction Cost Estimating	3
ENGL F212	Technical Writing	3
PHYS F103X	College Physics	4

CONSTRUCTION MANAGEMENT - CM

Offered through Tanana Valley Campus, UAF

DRT F170 Beginning AutoCAD

3 CR

Instruction in basic working knowledge of AutoCad software and its applications in drafting, from how to turn on the computer through plotting finished drawings. Practical applications.

CM F102 Methods of Building Construction

4 CR

Introduces basic knowledge of building materials, written specifications, techniques, and systems. Outlines structural systems, construction processes, and assemblies. Includes a field project involving student team research of current Alaskan building type.

CM F123 Codes and Standards

3 CR

Provides an introduction and overview of the fundamental provisions of the building codes used for plan review, life-safety evaluation of buildings, and community development.

CM F142 Mechanical and Electrical Technology

4 CR

Introduces the basic mechanical and electrical systems required in all buildings for the safety, health, comfort, and convenience of the occupants. Emphasizes design criteria, code requirements and interpretation of construction drawings.

CM F163 Building Construction Cost Estimating

3 CR

Presents methods and techniques for preparing accurate cost estimates for building construction projects. Emphasizes quantity surveys, productivity, bidding and negotiation procedures, and cost control systems.

CM F201 Construction Project Management

3 CR

Examines construction project management methods and processes. Includes project delivery systems, contract agreements, contract general and supplementary conditions, and contract administration procedures.

CM F202 Project Planning and Scheduling

3 CR

Examines concepts and methods for planning and scheduling of construction projects. Includes identifying work elements, analyzing resources, determining activity durations, preparing CPM schedules using computer scheduling software, preparing schedule updates and analyzing planned v. actual progress for cost control.

CM F205 Construction Safety

3 CR

Examines safety and health practices for the construction industry. Includes developing and implementing construction project site-specific safety plans, analyzing the laws and regulations that govern safety, evaluating construction site hazards and environmental conditions, and incident investigation and reporting.

CM F213 Civil Technology

4 CR

Outlines elements of civil design, including soils and soil mechanics, foundations, roads, and utilities using local, state, and federal regulations. Students will also be introduced to elements of construction surveying.

CM F231 Structural Technology

4 CR

Examines structural theory and the physical principles that underlie structural behavior. Includes the use of materials in a manner to maintain structural stability against such natural forces as gravity, wind, snow, and earthquakes. Covers connection detailing and code requirements for wood, steel and reinforced concrete.

CM F263 Civil Construction Cost Estimating

3 CR

Presents methods and techniques for preparing accurate cost estimates for earthwork, roads, highways, underground utilities, and site work. Emphasizes quantity surveys, unit costs, production factors, bidding, and construction equipment management.

CM F299 Construction Management Internship

3 CR

Places students in building construction offices related to student educational program and occupational objectives. Direct supervision by contractor professional, program faculty, and Career Services coordinator.

APPENDIX A

DACUM FOR CONSTRUCTION MANAGEMENT

See http://construction.uaa.alaska.edu/CM_DACUM_Chart_060103.pdf

Hard copy attached.

APPENDIX B

LIST OF ATTENDEES AT TANANA VALLEY CAMPUS
CONSTRUCTION MANAGEMENT DISCUSSION
October 18, 2006

These industry and educational partners expressed strong support for TVC's proposal to implement the AAS in Construction Management in fall 2006.

NAME	AFFILIATION	PHONE	EMAIL
Bill McDonnell	Denali State Bank	458-4237	bmcdonnell@denalystatebank.com
Jerry Walker	Denali State Bank	458-4215	jwalker@denalystatebank.com
Dick Engebretson	Aurora Construction Supply	452-4463	aurorasupply@gci.net
Dick Cattanach	Associated General Contractors-ANC	561-5354	dick@agcak.org
Billy Connor	UAF Transportation Research Center	474-5552	ffbqc@uaf.edu
Chuck Wiegars	A&A Roofing	452-3633	cwiegars@aarroofing.biz
Jerry Trainor	UAF Interior- Aleutians Campus	474-6097	claddagh@gci.net
Wayne Marr	UAF School of Mgt Dean	474-7916	wayne.marr@uaf.edu
Meg Nordale	Ghemm Company	452-5191	megc@ghemm.com
Tony Johansen	Great Northwest	452-5617	tjohansen@grtnw.com
Bert Bell	Ghemm Company	452-5191	bert@ghemm.com
Dan White	UAF Civil Engineering	474-6222	ffdmw@uaf.edu
Bob Perkins	UAF Civil Engineering	474-7694	ffrap@uaf.edu
Mike Musick	Interior Alaska Home Builders/Cold Climate Housing Center	322-2000	mike@cchr.org

APPENDIX C

**RESOURCE COMMITMENT TO THE
PROPOSED CONSTRUCTION MANAGEMENT AAS DEGREE PROGRAM**

Resources	Existing	New		Total
	College/School	College/School	Others (Specify)	
Regular Faculty (FTE's & dollars)	0	1.0 FTE \$78,000 Salary/Benefits	.25 FTE \$19,500 Salary/Benefits	1.25 FTE \$97,500 Salary/Benefits
Adjunct Faculty (FTE's & dollars)	.25 FTE \$12,500 Salary/Benefits	.25 FTE \$12,500 Salary/Benefits	.25 FTE \$12,500 Salary/Benefits	.75 FTE \$37,500 Salary/Benefits
Teaching Assistants (Headcount)	0			
Instructional Facilities (in dollars and/or sq. footage)	1,500 sf			2,000 sf
Office Space (Sq. footage)	150 sf			150 sf
Lab Space (Sq. Footage)	1,000 sf			1,000 sf
Computer & Networking (in dollars)	Computer Lab 20 workstations/software \$50,000			\$50,000
Research/ Instructional/ office Equipment (in dollars)	\$4,500			\$4,500
Support Staff (FTE's & dollars)	.10 FTE \$5,000	.25 FTE \$12,000		.35 FTE \$17,000
Supplies (in dollars)	\$10,000	\$5,000		\$15,000
Travel (in dollars)	\$1,000	\$1,500		\$2,500

Signature _____
 Dean of College/School Proposing New Degree Program

_____ Date