CONSTRUCTION MANAGEMENT

College of Rural and Community Development
Community and Technical College
907-455-2846
www.ctc.uaf.edu/programs/cm/

AAS Degree

Minimum Requirements for Degree: 65 credits

The construction management 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 oversight of construction projects. They are responsible for coordinating and managing people, materials and equipment; budgets, schedules and contracts; and the 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 — for public and private owners; on small multi-family projects to the largest of skyscrapers and industrial projects; and on 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 was developed with input from local contractors and professional industry organizations. It provides students with a broad knowledge of building systems and construction techniques. CM graduates understand basic principles of business and know about the technical aspects of the construction industry. Graduates are able to function both in the construction office and on the job site.

The CM AAS degree requires four to five semesters to complete. While not a prerequisite, it is recommended that students applying for admission have experience in the construction industry.

Major — AAS Degree

1. Complete the general university requirements (page 97).

2. Complete the AAS degree requirements. (See page 99. As part of the AAS degree requirement complete ENGL F111X, ENGL F212 and COMM F131X or COMM F141X for the communications requirement, and MATH F107X for the computation requirement. The human relations content is embedded in some of the major required courses for this program.)

3. Complete the following program (major) requirements:*
   ABUS F101—Principles of Accounting I..3
   ABUS F201—Principles of 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

4. Minimum credits required 65

*   *Students must earn a C- grade or better in each course.*

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Certificate Requirements

Communication . . . . .2 – 3 Credits

Complete one of the following:
- ENGL F111X—Introduction to Academic Writing..(3)
- ABUS F170—Business English...(3)
- ABUS F271—Business Communications ....(3)
- ENGL F211X—Academic Writing about Literature.....................................(3)
- ENGL F212—Business, Grant and Report Writing* ....(3)
- ENGL F213X—Academic Writing about the Social and Natural Sciences ......(3)
- COMM F131X—Fundamentals of Oral Communication: Group Context .....(3)
- COMM F141X—Fundamentals of Oral Communication: Public Context......(3)
  or successful completion of competency test
- DEVS F104—University Communications..(1 – 3)
- DEVS F105—Intensive Reading Development ....(3)
- Other program-approved discipline-based communication course or
  discipline-based courses with embedded communication content............(2 – 3)

* ENGL F212 does not fulfill the second half of the written communication
   requirement for the bachelor's degree.

Computation. . . . . .2 – 3 Credits

Complete one of the following:
- Any course at the F100-level or above in mathematical sciences
  (computer science, math or statistics). ....(3)
- ABUS F155—Business Math...(3)
- DEVM F105—Intermediate Algebra...(3)
- ECE F117—Math Skills for Early Childhood Educators...............................(3)
- HLTH F116—Mathematics in Health Care ....(3)
- HUMS F117—Math Skills for Human Services...(3)
- TTCH F131—Mathematics for the Trades ....(3)
- Other program-approved discipline-based computation course or
  discipline-based courses with embedded computation content. ....(2 – 3)

Human Relations . . . . .2 – 3 Credits

Complete one of the following:
- ANTH F100X/SOC F100X—Individual, Society and Culture(s) ....(3)
- ABUS F154—Human Relations ....(3)
- ANL F287—Teaching Methods for Alaska Native Languages (h)....................(3)
- ECE F104—Child Development: Prenatal, Infants and Toddlers (s) ....(3)
- ECE F107—Child Development II: Preschool and Primary Years (s) ....(3)
- ED/PSY F245—Child Development (s) ....(3)
- HLTH F106—Human Behavior in Health Care (s) ....(3)
- HUMS F120—Cultural Diversity in Human Services....................................(3)
- RHS F110—Cross-Cultural Bridging Skills (1) AND
  RHS F115—Issues of Personal Development ....(2)
- Other program-approved discipline-based human relations or
  discipline-based courses with embedded human relations content. ....(2 – 3)

Major specialty at least... **21 Credits**

Electives to total .... **30 Credits**

Associate of Applied Science Requirements

Written Communication. .6 Credits

- ENGL F111X—Introduction to Academic Writing..(3)

Complete one of the following:
- ABUS F271—Business Communications ....(3)
- ENGL F211X—Academic Writing about Literature.....................................(3)
- ENGL F212—Business, Grant and Report Writing* ....(3)
- ENGL F213X—Academic Writing about the Social and Natural Sciences ......(3)

* ENGL F212 does not fulfill the second half of the written communication
   requirement for the bachelor's degree.

Oral Communication . . . . .3 Credits

Complete one of the following:
- COMM F131X—Fundamentals of Oral Communication: Group Context .....(3)
- COMM F141X—Fundamentals of Oral Communication: Public Context......(3)
  or successful completion of competency test

Computation. . . . . .3 Credits

Complete one of the following:
- Any course at the F100-level or above in mathematical sciences
  (computer science, math or statistics). ....(3)
- ABUS F155—Business Math...(3)
- DEVM F105—Intermediate Algebra...(3)
- ECE F117—Math Skills for Early Childhood Educators...............................(3)
- HLTH F116—Mathematics in Health Care ....(3)
- HUMS F117—Math Skills for Human Services...(3)
- TTCH F131—Mathematics for the Trades ....(3)
- Other program-approved discipline-based computation course or
  discipline-based courses with embedded computation content. ....(3)

Human Relations . . . . .3 Credits

Complete one of the following:
- ANTH F100X/SOC F100X—Individual, Society and Culture (s) ....(3)
- ABUS F154—Human Relations ....(3)
- ANL F287—Teaching Methods for Alaska Native Languages (h)....................(3)
- ECE F104—Child Development: Prenatal, Infants and Toddlers (s) ....(3)
- ECE F107—Child Development II: Preschool and Primary Years (s) ....(3)
- ED/PSY F245—Childhood Development (s) ....(3)
- HLTH F106—Human Behavior in Health Care (s) ....(3)
- HUMS F120—Cultural Diversity in Human Services....................................(3)
- RHS F110—Cross-Cultural Bridging Skills (1) AND
  RHS F115—Issues of Personal Development ....(2)
- Other program-approved discipline-based human relations course or
  discipline-based courses with embedded human relations content. ....(3)

Major specialty at least... **30 Credits**

Electives to total .... **60 Credits**

Minimum credits required for degree .... **60 Credits**

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