

CONSTRUCTION

BUILDING/CONSTRUCTION SITE MANAGEMENT

Phone:

970.339.6252

Department Chair, Engineering:

John Lenz, 970.339.6626

Advisors and Faculty:

John Lenz, 970.339.6626

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DEGREES/CERTIFICATES OFFERED:

Building Construction Site Management
(two-year A.A.S. Degree)

Certificates:

Basics of Construction Management

Basics of Construction Methods

Basic Structural Properties

Project Estimating

NOTE: Students seeking to transfer to a four-year institution should see an advisor for current transfer information and possibilities.

Program Length: Usually four semesters for the A.A.S. Degree and usually two semesters for a certificate.

Potential Opportunities: This is the first of its kind two-year A.A.S. degree in construction management in the state of Colorado. This A.A.S. degree and certificates are designed to prepare the students for a wide range of technical occupations that utilize construction management skills and knowledge, including, yet not limited to: project management, general contracting, on-site superintendent, estimating, materials testing, owner or architect's representative, real estate development, technical sales, and financing. AAS degree graduates are prepared for the workplace, or may want to transfer to a four-year institution. Those students seeking transfer to a four-year institution should see an advisor for current transfer information and possibilities.

Program Requirements: (1) Students entering the program are required to complete the Aims assessment examinations in the areas of reading, writing, and mathematics. If qualifying scores are not attained, the program advisors will determine the preparatory courses that will be required to gain admittance to the program. (2) Students are required to demonstrate proficiency in English composition before graduation. This may be accomplished by successful completion ("C grade or above) in (ENG 121) English Composition, (ENG 131) Technical Writing, or by qualifying score on the assessment examination.

(3) Prerequisite courses for this program must be met prior to admittance to the program. See the course descriptions in the back of the catalog for individual course descriptions. (4) Any student registering for a construction management course must obtain a program advisor's signature on the course registration form before registering. Any student requesting an evaluation of transfer credit is required to meet with a construction management department advisor. (5) Any course used to satisfy a construction management technology degree or certificate must be completed with a "C" or better.

General Information: Most courses within the Construction Management Technology program require some degree of manual dexterity, good eyesight and the ability to perform manual operations such as the ability to lift and operate test equipment.

Specific courses may be suitable for the physically impaired students – contact a program advisor if you have questions or needs.

Program Description: The A.A.S. degree in Construction Management Technology consists of specific construction management courses and general education requirements. The student may elect to complete one or more of the certificates and/or the entire A.A.S. degree program of study.

BUILDING/CONSTRUCTION SITE MANAGEMENT

(Associate of Applied Science Degree)
(AAS CM13)

GENERAL EDUCATION

COM 115	Public Speaking	3
	OR	
COM 125	Interpersonal Communication . .	3
ENG 121	English Composition I	3
	OR	
ENG 131	Technical Writing I	3
HIS 101	Select One:	
	101, 102, 201, 202 or 247	3
MAT 108	Technical Mathematics	4
	OR	
MAT 121	College Algebra	4
PHY 105	Physics: Conceptual Physics . . .	4
	OR	
PHY 111	Physics: Algebra Based I	5
	Total General Education Credits:	17-18

REQUIRED COURSES

AEC 205	Applied Statics and Strengths of Materials	3
AEC 221	Building Electrical/Mechanical Systems	3
AEC 231	Estimating II: Cost Analysis . . .	3
AEC 232	Construction Project Management	3

AEC 233	Construction Safety and Loss Prevention	2
AEC 234	Construction Contract and Labor Law	2
ARC 107	Blueprint Reading (Residential/Commercial)	3
ARC 226	Construction Scheduling	3
ARC 236	Codes/Zoning/Specifications . . .	3
CAD 101	Computer Aided Drafting I	3
ENT 142	Surveying II	4
ENT 146	Construction Materials and Methods	3
ENT 210	Soil Mechanics	2
ENT 215	Soils lab	1
	Total Required Courses Credits:	38

ELECTIVES

(Select with advisor approval 2 or more core elective credits from the following:

ACC 121	Accounting Principles I	4
AEC 280	Internship	1-6
ARC 275	Special Topics	1-6
ARC 285	Capstone	1-6
CAD 102	Computer Aided Drafting II . . .	3
CAD 224	Revit	3
CIS 118	Intro to PC Applications	3
ENT 207	Construction Methods, Planning and Equipment	2
ENT 270	Technical Experience	3
ENT 275	Special Topics	0-5
ENY 153	Renewable Energy Construction	4
ENY 205	Green & Sustainable Buildings . .	4
GEY 111	Physical Geology	4
MAN 216	Small Business Management . . .	3
	Total credits for A.A.S. Degree:	60-63

BUILDING/CONSTRUCTION SITE MANAGEMENT

(Certificates)

BASICS OF CONSTRUCTION METHODS CERTIFICATE

(CERT CM19)

ENT 146	Construction Materials and Methods	3
ENT 207	Construction Methods, Planning and Equipment	2
	Total Credits for Basics of Construction Methods Certificate	5

BASIC STRUCTURAL PROPERTIES CERTIFICATE

(CERT CM11)

AEC 205	Applied Statics & Strengths of Materials	3
MAT 108	Technical Mathematics	4
	Total Credits for Basic Structural Properties Certificate	7

PROJECT ESTIMATING CERTIFICATE

(CERT CM12)

ARC 107	Blueprint Reading (Residential/Commercial)	3
AEC 231	Estimating II: Cost Analysis . . .	3
	Total credits for Project Estimating Certificate	6

Construction, cont.

BASICS OF CONSTRUCTION MANAGEMENT CERTIFICATE (CERT CM10)

AEC 232 Construction Project Management	3
ARC 226 Construction Scheduling	3
Total credits for Basics of Construction Management Certificate	6

GREEN/SUSTAINABLE BUILDING CERTIFICATE (CERT CM10)

(Pending State Approval)

ENY 153 Renewable Energy Construction	4
ENY 205 Green & Sustainable Buildings	4
Total credits for Green/Sustainable Building Certificate	8

BUILDING/CONSTRUCTION SITE MANAGEMENT ADVISORY COMMITTEE

Mick Barker	BarVista Homes, Berthoud
Lee Blum	Assoc. General Contractors, Denver
Cindy Buckardt	Colorado Precast Concrete, Loveland
Don Bundy	The Architects Studio, Fort Collins
Jim Cox	CCMK Architects, Fort Collins
Paul Finger	High Plains Mechanical, Fort Collins
Mark Frazier	UNI Design
Sharie Grant	Officescapes / Scott Rice, Fort Collins
Bret Hall	Hall Irwin Construction Co., Greeley
Mark Hout	UNI Design, Greeley
Nichole LeClere	Colorado State University, Fort Collins
Chad Rock	Alliance Construction
Loren Shanks	Drexel Barrell & Co
Dotti Weber	Home Builders Assn. of Northern Colorado, Windsor

CONSTRUCTION TRADES PROGRAM

Location:

Construction/Automotive Technology Building (CAT)
575 McKinley, Fort Lupton, Colorado

Program Chair:

John Lenz, 970.339.6626

Advisors and Faculty:

Peter Montez, 970.339.6191
Mickey Hatchell, 970.339.6191

(Certificates)

Aims Community College is developing a series of certificate programs to provide education and training in various aspects of Construction Trades. Two programs began on the Fort Lupton Campus in the Fall of 2006. Certificates include:

CARPENTRY CERTIFICATE (CERT CT09)

CAR 100 Introduction to Carpentry	
CAR 102 Hand and Power Tools	
CAR 105 Job Site Layout and Blueprint Reading	
CAR 115 Form and Foundation Systems	
CAR 125 Roofing Materials and Methods	
CAR 133 Construction Framing	
CAR 170 Clinical Construction Lab I	
CAR 130 Windows and Exterior Doors	
CAR 136 Remodeling, Renovation and Additions	
CAR 156 Shop Tools: Stationary, Hand and Portable	
CAR 160 Floor Finishes	
CAR 171 Clinical Construction Lab 2	
Total Credits for Certificate	25

ELECTRICAL WIRING CERTIFICATE (CERT CT10)

EIC 100 Electrical Construction and Planning	
EIC 104 Basics of Industrial Electricity	
EIC 105 Basics of AC and DC Electricity	
EIC 110 Electrical Installations	
EIC 124 Electrical Safety Requirements	
EIC 130 National Electrical Code I	
EIC 134 Life Safety Code	
EIC 135 National Electrical Code II	
EIC 144 Grounding and Bonding	
EIC 160 Electrical Instruments and Measurements	
Total Credits for Certificate	29.5

This is an open-entry instructional program meaning that students do not have to wait for a new semester to begin instruction. Each course consists of a series of learning modules designed to teach both construction trades theory and actual construction skills. Skills and theoretical knowledge are enhanced through the use of full-scale projects and the use of state-of-the-art construction tools and equipment with an emphasis on Safe Work Practices. A flexible instructional delivery systems allows students to become employable in the construction industry and to document the skills they have mastered. It also allows construction industry employers to use the Aims Community College construction technology program to upgrade the skills of their workforce.

Certificates such as Plumbing, Masonry, and Construction Technology Technician are being considered as additional future

options. For more information call the Aims Community College Fort Lupton Campus at 303.857.4022, Ext. 6191

CONSTRUCTION TRADES ADVISORY COMMITTEE

Mark Frazer	UNI Design
Bret Hall	Hall-Irwin Construction
Rick Hiatt	Eckstine Electric
Mark Hout	UNI Design
Nicole Tijerina	Aggie Builders, LLC
Eric Umholz	Roche Constructors
Tony Watson	Barvista Homes

