

CONSTRUCTION TECHNOLOGY

Faculty

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Construction technology students have several options available to them so that a program can be designed to meet individual needs. A transfer program for those students interested in a baccalaureate degree in construction management from four year schools accredited by the American Council of Construction Education is available.

Construction Technology Certificate

A number of students choose to take only selected courses to meet their immediate needs. Courses taken can later be applied toward an associate degree program. This option often takes the form of a one-year program of work in construction and drafting. Thirty-three credits must be completed from the list below.

(Certificate Requirements)

			Credits
CNTK	1560	Construction Safety	3
CNTK	1700	Introduction to Construction	4
CNTK	1750	Blueprint Reading	2
CNTK	1860	Woodworking Fundamentals I	4
CNTK	1870	Building Materials and Systems	3
CNTK	1905	Carpentry	4
CNTK	1975	Materials Handling and Construction Equipment	3
CNTK	2510	Construction Estimating	3
CNTK	2520	Architectural and Construction Planning	3
ENTK	1510	Drafting I	4
ENTK	1710	Architectural Drafting I	4
ENTK	2500	Computer-Aided Drafting I	2
ENTK	2505	Computer-Aided Drafting II	2

For specific graduation requirements see "Academic Policies" and "Degree Requirements."

Associate of Applied Science Degree Construction Technology

The graduate of the associates of applied science degree will have gained a solid foundation in the construction industry. The curriculum requires both training in the technical aspects of many of the components of construction, blended with some engineering communication tools and an understanding of the tools used by management to foster efficiency in the industry. The graduate of this program will be well equipped to enter the industry at a level above entry craft or assume a position in entry level management.

(Recommended Curriculum)

General Education (Minimum 17 credits)	Credits
General education coursework can be completed from within or outside of the major field of study.	

1. Exploration and Participation (One course minimum)
Science
Mathematics
2. Communication (One course minimum)
Written or spoken communication
3. Relationship with the World (One course minimum)
Human behavior
U.S. and Wyoming constitutions..... 1-3
Cultural environment
4. General Education Electives
Must be chosen from areas 1, 2, or 3 above.
5. Physical Education 1

Major Requirements

CNTK	1560	Construction Safety	3
CNTK	1700	Introduction to Construction	4
CNTK	1750	Blueprint Reading	2
CNTK	1860	Woodworking Fundamentals I	4
CNTK	1870	Building Materials and Systems	3
CNTK	1905	Carpentry	4
CNTK	1975	Materials Handling and Construction Equipment	3
CNTK	2510	Construction Estimating	3
CNTK	2520	Architectural and Construction Planning	3
CNTK	2525	Construction Project Management	3
ENTK	1010	Elements of Surveying	3
ENTK	1710	Architectural Drafting I	4
ENTK	1750	Commercial Architectural Drafting I	
ENTK	2500	Computer Aided Drafting I	2
ENTK	2505	Computer Aided Drafting II	2
		Electives	11

A minimum of 64 approved semester credits are required for graduation. For specific graduation requirements see "Academic Policies" and "Degree Requirements."

Associate of Science Degree Construction Management

The construction management curriculum is designed to provide the student with a technical base of industrial management ability and skills for productive employment. Whether in the area of building, engineering, or industrial construction, the middle-management-oriented construction technologist will be involved with a people-oriented industry and must be able to communicate with and lead people through decision making. In addition to these managerial skills, a thorough background in the many technical aspects of the construction process are required. Following graduation, employment possibilities will include contractor organizations, engineering and architectural firms, material and sales firms, agricultural businesses, etc.

(Recommended Curriculum)

General Education (Minimum 32 credits)	Credits
General education coursework can be completed from within or outside of the major field of study.	
1. Exploration and Participation CHEM 1005 Basic Chemistry I	3

CHEM 1006 Basic Chemistry Lab I	1
MATH 1400 Pre-Calculus Algebra	4
Natural science elective	4
2. Communication	
CO/M 1010 Public Speaking	3
ENGL 1010 English I: Composition	3
ENGL 1020 English II: Composition	3
ENGL 2010 Technical Writing	3
3. Relationship with the World	
PSYC 1000 General Psychology	4
U.S. and Wyoming constitutions.....	3
Cultural environment	3
4. General Education Electives	
Must be chosen from areas 1, 2, or 3 above;	
no more than 15 credits in any one area.	
5. Physical Education	1

Major Requirements

BADM 2010 Business Law I	3
CNTK 1870 Building Materials and Systems	3
CNTK 1975 Materials Handling and Construction Equipment	3
CNTK 2520 Architectural and Construction Planning	3
ENTK 2500 Computer-Aided Drafting I	2
ENTK 2505 Computer-Aided Drafting II	2
FIN 2100 Managerial Finance	3
MATH 1405 Pre-Calculus Trigonometry	3
MGT 2100 Principles of Management	3
Electives	5

Students who plan to transfer to a four-year school in construction engineering, construction technology or industrial management should contact the school of their choice for transferability and credit requirements. Advisement will follow the guidelines of the school of choice. Check with the construction technology instructor or the upper division coordinator about articulation agreements that may exist.

A minimum of 64 approved semester credits are required for graduation. For specific graduation requirements see "Academic Policies" and "Degree Requirements."

ONLY COURSES NUMBERED 1000 OR ABOVE CAN BE USED TOWARD THE ASSOCIATE OF SCIENCE DEGREE.

**Associate of Science Degree
Industrial Arts**

This program is designed to provide the general education and broad technical skills needed in the career and technical education fields.

(Recommended Curriculum)

General Education (Minimum 32 credits)	Credits
General education coursework can be completed from within or outside of the major field of study.	
1. Exploration and Participation	
MATH 1400 Pre-Calculus Algebra	4
PHYS 1110 General Physics	4
2. Communication	
ENGL 1010 English I: Composition	3
ENGL 1020 English II: Composition	3
3. Relationship with the World	
POLS 1000 American and Wyoming Government	3
PSYC 1000 General Psychology.....	4
Cultural environment	3
4. General Education Electives.....7	
Must be chosen from areas 1, 2, or 3 above;	
no more than 15 credits in any one area.	
(CO/M 1010 and STAT 2050 recommended)	
5. Physical Education	
	1

Major Requirements

CNTK 1860 Woodworking Fundamentals I.....	4
EDFD 2020 Foundations of Education.....	3
EDFD 2100 Educational Psychology	3
EDUC 2100 Public School Practicum.....	4
ELTR 1570 Electric Circuits.....	4
ELTR 1620 Electrical Concepts.....	1.5
ELTR 1760 Digital Electronics.....	4.5
ENTK 1510 Drafting I.....	4
ENTK 2500 Computer-Aided Drafting I.....	2
ENTK 2505 Computer-Aided Drafting II.....	2
ITEC 2360 Teaching with Technology	3
MCHT 1610 Machine Tool Technology I	2
PSYC 2300 Developmental Psychology	3
PSYC 2360 Lifespan: Adulthood and Aging.....	1
WELD 1700 General Welding.....	2
WELD 1820 MIG/TIG Welding.....	2

Students who plan to transfer to a four-year school in industrial education should make contact with that institution for information about transferability and credits. Student advisement will follow the guidelines of the school of choice.

A minimum of 64 approved semester credits are required for graduation. For specific graduation requirements see "Academic Policies" and "Degree Requirements."

ONLY COURSES NUMBERED 1000 OR ABOVE CAN BE USED TOWARD THE ASSOCIATE OF SCIENCE DEGREE.