

Construction Technology A.A.S

— Construction Management Option

Program Description

The Construction Technology program incorporates inspection, estimation, materials, drafting and construction procedures. Graduates are employed in construction positions with engineering and architectural firms well as city, state and federal government agencies.

Employment Information

Jobs of many types are available to the graduate of the building construction program. The primary direction of the program is toward management of construction companies, but many other careers are available such as estimators, sales representatives, drafters, system designers, expeditors and other specifications.

Degree Awarded

Associate in Applied Science

For More Information Contact:

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Technical Occupational Specialty

				26 Credit Hours		
<input type="checkbox"/>	CONS	1103	Blue Print Reading & Drafting for Construction	3*		
<input type="checkbox"/>	ARCH	1614	Computer-Aided Drafting I	4*		
<input type="checkbox"/>	ARCH	2003	Architecture and Society	3*		
<input type="checkbox"/>	CONS	2233	Green Building Systems/Sustainable Construction	3		
<input type="checkbox"/>	CONS	1214	Introduction to Construction	4*		
<input type="checkbox"/>	CONS	2103	Introduction to Construction Management	3		
<input type="checkbox"/>	CONS	2333	Construction Practices and Procedures	3		
<input type="checkbox"/>	CONS	2423	Construction Estimating I	3*		

Date	Institution

Support and Related Courses

				15 Credit Hours		
<input type="checkbox"/>	HUMN	2203	Masterworks of Western Culture (Modern)	3*		
<input type="checkbox"/>	MATH	2123	Calculus for Technology Programs I	3*		
<input type="checkbox"/>	MATH	2133	Calculus for Technology Programs II	3*		
<input type="checkbox"/>	SOC	1113	Introductory Sociology	3*		
<i>(Other courses may be substituted with division approval.)</i>						
<input type="checkbox"/>	GENT	2323	Statics	3		

General Education Courses

				22 credit hours		
<input type="checkbox"/>	ENGL	1113	English Composition I	3*		
	ENGL	1213	*English Composition II			
<input type="checkbox"/>	OR			3		
	ENGL	2333	Introduction to Technical Report Writing			
<input type="checkbox"/>	HIST	1483	U.S. History to 1865	3*		
<input type="checkbox"/>	MATH	1513	College Algebra	3*		
<input type="checkbox"/>	MATH	1613	Trigonometry	3*		
	PHYS	1114	General Physics I	4*		
<input type="checkbox"/>	OR					
	PHYS	1014	Descriptive Physics	4		
<input type="checkbox"/>	POLS	1113	American Government	3*		

Total to Graduate

63 Credit Hours

*Refers to courses that transfer to the OSU-Stillwater Construction Management Technology Bachelor of Science program.

Student Name:	_____
CWID:	_____
Counselor:	_____
Catalog 2012-2013	

CONSTRUCTION TECHNOLOGY AAS - CONSTRUCTION MANAGEMENT OPTION - COURSE DESCRIPTIONS

ARCH 1614 COMPUTER-AIDED DRAFTING I

Introduction to computer-aided drafting (CAD) principles, using a "menu-driven" system to generate graphic output for engineering drafting applications. Problem solving skills in applied technical fields will be developed. Lab: four hours per week. Prerequisite or co-requisite: ARCH 1223 or equivalent. Same as INDD 1614.

ARCH 2003 ARCHITECTURE AND SOCIETY

This is the first course in the architectural history sequence. It functions, therefore, as an introduction to both the historical framework of western architecture and the profession. The course also fulfills humanities and international dimension requirements for the University at large. Consequently, a large number of students enrolled in the course are not architecture majors. In addition, in fulfilling this role, the content of the course specifically includes modern architectural examples as comparisons to the historical framework.

CONS 1103 BLUE PRINT READING & DRAFTING FOR CONSTRUCTION

The course will provide an understanding of the visual plans and specification which are involved in the construction process along with an understanding of drafting skills which are needed within the construction industry. At the completion of the course, students will have the skills needed to interpret and use contract documents which are used during the construction process. Lecture hours: 2; lab hours: 3

CONS 1214 INTRODUCTION TO CONSTRUCTION

Overview of the entire construction industry with emphasis on construction materials, methods and systems. Introduction to both building and highway construction drawings and their interpretation. Lab: two hours. Lecture: two hours. Same as CSUR 1214.

CONS 2103 INTRODUCTION TO CONSTRUCTION MANAGEMENT

A study of organization, management, economics and labor relations pertaining to projects during the construction phase. Prerequisite: advisor's approval.

CONS 2233 GREENBUILDING SYSTEMS/SUSTAINABLE CONSTRUCTION

The purpose of the course is to provide an overview of the green building market within construction, with importance placed on high performance green building systems, renewable onsite energy, water efficiency and minimization of the building impact on the environment. An understanding of sustainability and green building systems will be gained at the completion of the course. Prerequisite: cons 1214; lecture hours: 3

CONS 2333 CONSTRUCTION PRACTICES AND PROCEDURES

Light, heavy and industrial construction. Foundation layout, framing and finish work, site investigations, excavation, pre-cast concrete, tilt up, structural steel and metal building construction and project management.

CONS 2423 CONSTRUCTION ESTIMATING I

Computing the quantities and cost of materials and labor involved in residential and light commercial construction. Includes bidding procedures and computer applications. Lab: two hours per week. Prerequisites: CONS 1214 and ARCH 1223.

GENT 2323 STATICS

Force, distributed forces, reactions, free body diagrams, friction, internal forces and moments of inertia. Applications are emphasized. Prerequisites: PHYS 1114 and MATH 1613. (F, Sp)

HUMN 2203 MASTERWORKS OF WESTERN CULTURE/MODERN (H)

Key ideas and values of modern western cultures, as discovered through an integrated and thematic study of literature and the fine arts, seen in their historical and philosophical contexts. Prerequisite: ENGL 1113.

MATH 2123 CALCULUS FOR TECHNOLOGY PROGRAMS I (A)

First part of a terminal sequence in calculus for students pursuing degrees that emphasize technology. Functions and graphs, differentiation and integration with application. Prerequisites: MATH 1513 and MATH 1613.

MATH 2133 CALCULUS FOR TECHNOLOGY PROGRAMS II (A)

The second part of a terminal sequence in calculus for students pursuing degrees that emphasize technology. Calculus of trigonometric, exponential and logarithmic functions with application to physical problems. Prerequisite: MATH 2123.

SOC 1113 INTRODUCTORY SOCIOLOGY (S)

An introduction to the science of human society with emphasis on basic concepts. Assists the student in understanding the social influences on day-to-day life. Prerequisites: [R] [W]

PHYS 1114 GENERAL PHYSICS I (L, N)

Physics for the non-engineering major or non-physics major. The course includes topics in mechanics, heat and sound with applications of each. Prerequisite: [R] [Sci] MATH 1513. MATH 1613 recommended OR MATH 1715. Lab: three hours per week