

Architectural Technology A.A.S

— CAD-Architecture Option

Program Description

This option is designed to provide the student with the skills and knowledge required for employment in one of many areas of the largest industry in America. The technical content of the program is intended to supply a wide background in the diverse areas of applied architecture and construction.

Employment Information

Graduates of this program can expect to find employment in many areas of the architectural and building construction fields. Each area may require somewhat different abilities and specialized knowledge and skills for a successful career. Graduates are prepared to accept positions as architectural technicians, architectural drafters, estimators, planning technicians, inspectors, residential designers, sales representatives or any one of many jobs within the industry requiring specialization. The U.S. Department of Labor reports that employment opportunities for engineering technicians are expected to be excellent throughout the next decade.

Degree Awarded

Associate in Applied Science

For More Information Contact:

Terry Clinefelter, Department Head
 Science & Engineering Technologies Division
 Engineering Technology Center, Room 221J
 900 N. Portland Avenue
 Oklahoma City, OK 73107
 405-945-3362
 Fax: 405-945-9144
 Email: science.engineering@osuokc.edu

Technical Occupational Specialty

| | | | |
|--------------------------|------|------|---------------------------------------|
| <input type="checkbox"/> | ARCH | 1223 | Construction Drawing I |
| <input type="checkbox"/> | ARCH | 1614 | Computer-Aided Drafting I |
| <input type="checkbox"/> | ARCH | 2013 | Construction Drawing II |
| <input type="checkbox"/> | ARCH | 2273 | Computer-Aided Drafting II |
| <input type="checkbox"/> | ARCH | 2713 | Advanced CAD Applications I |
| <input type="checkbox"/> | ARCH | 2723 | Advanced CAD Applications II |
| <input type="checkbox"/> | CONS | 2333 | Construction Practices and Procedures |
| <input type="checkbox"/> | INDD | 2403 | CAD 3D Modeling |
| <input type="checkbox"/> | INDD | 2413 | CAD 3D/Inventor |

28 Credit Hours

| Date | Institution |
|------|-------------|
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |

Support and Related Courses

| | | | |
|--------------------------|-----------------------------------|------|-----------------------------|
| <input type="checkbox"/> | ARCH | 1103 | Graphic Communications |
| <input type="checkbox"/> | ARCH | 2263 | Systems and Materials |
| <input type="checkbox"/> | ARCH | 2322 | Construction Specifications |
| <input type="checkbox"/> | Select 12 additional credit hours | | |

20 Credit Hours

| | |
|--|--|
| | |
| | |
| | |
| | |

General Education Courses

| | | | |
|--------------------------|-----------|------|--|
| <input type="checkbox"/> | ENGL | 1113 | English Composition I |
| <input type="checkbox"/> | ENGL | 2333 | Introduction to Technical Report Writing |
| <input type="checkbox"/> | HIST | 1483 | U.S. History to 1865 |
| <input type="checkbox"/> | OR | | |
| <input type="checkbox"/> | HIST | 1493 | U.S. History Since 1865 |
| <input type="checkbox"/> | MATH | 1513 | College Algebra |
| <input type="checkbox"/> | PHYS | 1014 | Descriptive Physics |
| <input type="checkbox"/> | POLS | 1113 | American Government |

19 Credit Hours

| | |
|--|--|
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |

*Department head approval required

Total to Graduate

67 Credit Hours

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

ARCHITECTURE TECHNOLOGY AAS - PRE-ARCHITECTURE COURSE DESCRIPTIONS

ARCH 1213 DESIGN I

Architectural graphics and design fundamentals. Lab: six hours per week. Lecture: two hours.

ARCH 1223 CONSTRUCTION DRAWING I

Provides students with the functional knowledge and skills necessary to create a set of working drawings for residential construction. Includes a detailed study of architecture as a profession, drawing equipment and architecture nomenclature, light construction drawings, techniques of architectural drawings, methods of representing floor plan, elevations, plot plans, slab construction, roof plans, door and window schedules, and construction sections and details. Students learn to read and interpret light construction drawings and will be required to complete a set of residential drawings. Lab: four hours per week. Lecture: one hour.

***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 1321-1324 TECHNICAL PROBLEMS - ARCHITECTURAL TECHNOLOGY

One to four, maximum six credits. Technical problems in architecture of particular interest to technicians. Prerequisite: consent of department head.

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.

ARCH 2013 CONSTRUCTION DRAWING II

Fundamentals of commercial construction drawings, preparation and interpretation of working drawings. Topics include architectural, civil and structural drawings. Lab: six hours per week. Prerequisite: ARCH 1223.

ARCH 2213 DESIGN II

Continuation of ARCH 1213. Two hours lecture. Lab: six hours per week. Prerequisite: ARCH 1213. (Sp)

ARCH 2263 SYSTEMS AND MATERIAL

Architectural, structural, environmental control systems and materials in architecture. Lab: two hours.

ARCH 2713 ADVANCED CAD APPLICATIONS I

A continuation of ARCH 2273 with emphasis on expanding skills gained to produce 2D and 3D architectural layouts and drawings of residential and commercial buildings, using cutting edge 3D architecture software. Prerequisite: ARCH 2273.

HUMN 2103 MASTERWORKS OF WESTERN CULTURE/ANCIENT AND MEDIEVAL (H)

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

ART 1103 DRAWING I

A freehand drawing experience designed to build basic skills and awareness of visual relationships. A sequence of problems dealing with composition, shape, volume, value, line, gesture, texture and perspective. A variety of media explored. Lab: six hours per week.