

Architectural Design Technology – Residential Design

ASSOCIATE OF APPLIED SCIENCE DEGREE (AAS)

REQUIRED CREDITS: 72

DEGREE CODE: ADTRES-AAS

DESCRIPTION

This degree program builds the skills required to produce professional and quality residential architectural designs. The core curriculum is a sequence of lecture/lab courses that stress the theory and method of detailing, drafting and designing residential buildings. Graduates can seek employment at residential design and architectural firms. Along with special program courses, academic skills emphasizing related math, science and human relations components are stressed to prepare students to meet the challenges common in the workplace.

STUDENT LEARNING OUTCOMES

- Comprehend and utilize design standards and skills specific to the architecture profession.
- Comprehend and utilize building codes appropriately in the design of residential buildings.
- Comprehend building systems, to include: structural, plumbing, electrical, mechanical and utilize their role in the production of architectural working drawings and construction documents.
- Organize and produce a set of architectural working drawings for a residential building.
- Comprehend and utilize design principles, to include: site context, user needs, climate conditions and other environmental conditions through assigned residential design projects.

PLEASE NOTE - The courses listed below may require a prerequisite or corequisite. Read course descriptions before registering for classes. All MATH and ENG courses numbered 01-99 must be completed before reaching 30 total college-level credits. No course under 100-level counts toward degree completion.

GENERAL EDUCATION REQUIREMENTS (28 CREDITS)

MATHEMATICS (5-6 credits)

MATH 126 **and** 127; or MATH 128

ENGLISH COMPOSITION (3-5 credits)

See AAS policy p. 46 for courses

COMMUNICATIONS (3-5 credits)

BUS 108; COM 101, 102, 215; ENG 100, 101, 102, 107, 113, 114, 205; JOUR 102; THTR 105

HUMAN RELATIONS (3 credits)

ALS 101; ANTH 101, 112, 201, 205; HIST 105, 106, 107, 150, 151, 210, 247, 260; HMS 130, 135B, 265B; MGT 100B; PHIL 135; PSC 201; PSY 101, 102, 207, 208, 261; SOC 101 or above

NATURAL SCIENCE (7 credits)

Required: GEOG 103 **and** PHYS 151

FINE ARTS/HUMANITIES/ SOCIAL SCIENCE (3 credits)

Required: ART 101 Drawing I

U.S. AND NEVADA CONSTITUTIONS (4-6 credits)

Recommended: PSC 101 Introduction to American Politics

SPECIAL PROGRAM REQUIREMENTS (44 CREDITS)

AAD 180	Fundamentals of Design I	3
AAD 182	Fundamentals of Design II	3
AAE 100	Introduction to Architecture	3
ADT 100B	Introduction to Drafting Theory	3
ADT 103B	Urban Planning	3
ADT 107B	Architectural Residential Codes	2
ADT 114B	History of the Built Environment	3
ADT 201B	Introduction to Building Information Modeling	3
ADT 205B	Architectural Environmental Control Systems	3
ADT 210B	Residential Structural Technology	3
ADT 280B	Architectural Residential Design	3
ADT 282B	Architectural Residential Design II	3
CADD 105	Intermediate Computer Aided Drafting	3
CONS 120B	Construction Plans and Specifications	3
SCT 105B	Sustainable Construction Materials	3

See Degree Plan on next page.

- NOTE**
- Course numbers with the “B” suffix may be non-transferable for a NSHE baccalaureate degree.
 - Course numbers with the “H” suffix are designated Honors-level courses and can be used to fulfill equivalent general education requirements. For more information visit www.csn.edu/honors.
 - In no case, may one course be used to meet more than one requirement except for the Values and Diversity general education requirement (only AA, AS, and AB degrees) which may be used to fulfill the corresponding general education or emphasis requirement.
 - Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.



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FULL-TIME STUDENT DEGREE PLAN*Plan can be modified to fit the needs of part-time students by adding more semesters.*

FIRST SEMESTER	Credits
Complete AAS English Composition p. 46	3-5
AAD 180 Fundamentals of Design I	3
AAE 100 Introduction to Architecture	3
CONS 120B Construction Plans and Specifications	3
SCT 105B Sustainable Construction Materials	3
TOTAL CREDITS	15-17
SECOND SEMESTER	Credits
Complete Mathematics (see courses previous page)	5-6
AAD 182 Fundamentals of Design II	3
ADT 100B Introduction to Drafting Theory	3
ADT 107B Architectural Residential Codes	2
ADT 201B Introduction to Building Information Modeling	3
TOTAL CREDITS	16-17
THIRD SEMESTER	Credits
PHYS 151 General Physics I	4
ADT 103B Urban Planning	3
ADT 114 History of the Built Environment	3
ADT 280B Architectural Residential Design	3
TOTAL CREDITS	13
FOURTH SEMESTER	Credits
PSC 101 Introduction to American Politics	4
CADD 105 Intermediate Computer Aided Drafting	3
ADT 205B Architectural Environmental Control Systems	3
ADT 210B Residential Structural Technology	3
ADT 282B Architectural Residential Design II	3
TOTAL CREDITS	16
FIFTH SEMESTER	Credits
Complete Communications (see courses previous page)	3-5
Complete Human Relations (see courses previous page)	3
GEOG 103 Physical Geography	3
ART 101 Drawing I	3
TOTAL CREDITS	12-14
DEGREE PLAN TOTAL CREDITS	72-77

