Academic Plan - Associate of Applied Science Architectural Studies – Architecture Technician

**Catalog Year: 2018/2019**

**Total Credits:** **61**

The Associates of Applied Science of Architectural Studies at Arapahoe Community College offers two concentrations:

•Pre-Architecture - For students interested in licensure and continuing their education

•Architecture Technician - For students wishing to enter the profession upon graduation from this program

Students will be introduced to a wide range of architectural and construction topics such as design and modeling concepts,structural analysis, building service systems, and sustainability.

The Architectural Engineering degree provides a foundation for transfer to university or, in combination with out internship and certificate programs, will help facilitate entry into or continuing education for the profession.

# A - General Education Courses

3 Credits, COM 115 - Public Speaking\*, available fall spring summer

3 Credits, ENG 121 - English Composition I: GT-CO1\*, available fall spring summer

3 Credits, MAT 122 - College Trigonometry: GT-MA1, available fall spring summer

4 Credits, MAT 121 - College Algebra: GT-MA1\*, available fall spring summer

5 Credits, PHY 111 - Physics: Algebra-Based I with Lab: GT-SC1\*, available fall spring

# B - Additional Required Courses

3 Credits, AEC 100 - Introduction to Design Theory\*, available fall spring summer

3 Credits, AEC 107 - Print Reading Residential/Commercial\*, available fall spring

3 Credits, AEC 116 - Building Materials\*, available fall spring

3 Credits, AEC 206 - Applied Structure Analysis\*, available spring

3 Credits, AEC 208 - Building Environmental Systems I, available spring

3 Credits, AEC 236 - International Building Codes\*, available spring

3 Credits, CAD 101 - Computer Aided Drafting/2D I, available fall spring summer

3 Credits, CAD 102 - Computer Aided Drafting/2D II, available fall spring summer

3 Credits, CAD 224 - Revit Architecture, available fall spring summer

4 Credits, AEC 110 - Architectural Design & Modeling\*, available fall spring

# C - Concentration Courses

3 Credits, AEC or CAD Elective Course, available fall spring summer

3 Credits, AEC or CAD Elective Course, available fall spring summer

3 Credits, AEC or CAD Elective Course, available fall spring summer

3 Credits, AEC or CAD Elective Course, available fall spring summer

# Pre-Requisites, Co-Requisites, and Recommendations

AEC 206 - Applied Structure Analysis\*

Pre-Requisite: MAT 121 - College Algebra: GT-MA1 or higher

CAD 101 - Computer Aided Drafting/2D I

Requirement: Students must have Windows File Management skills to create file folders, rename files, delete

CAD 102 - Computer Aided Drafting/2D II

Co-Requisite: CAD 101 - Computer Aided Drafting/2D I OR CAD 105 - AutoCAD for Interiors

Requirement: Students must have Windows File Management skills to create file folders, rename files, delete

MAT 122 - College Trigonometry: GT-MA1

Pre-Requisite: MAT 121 - College Algebra or Higher

PHY 111 - Physics: Algebra-Based I with Lab: GT-SC1\*

Pre-Requisite: MAT 121 - College Algebra or Higher

AEC 208 - Building Environmental Systems I

Pre-Requisite: AEC 116 - Building Materials\*

Pre-Requisite: MAT 121 - College Algebra: GT-MA1\*

Pre-Requisite: OR Instructor's permission

# Notes

Course availability is subject to change.

Refer to 19/20 catalog for specific requirements and important information about this degree.

Recommended courses may be listed above for certain electives; consult with the Academic Advising Office (advising@arapahoe.edu or 303.797.5664) for additional elective recommendations.

\*This course requires college level readiness as measured by Accuplacer, ACT, or SAT scores; approved high school course work that is less than five years old; or successful completion of appropriate college-readiness course.

AAA 101 – College 101: Student Experience is required for all new college students seeking degrees or transfer.

# Graduation Requirements

To graduate, students must apply for graduation (form available at www.arapahoe.edu/departments-and-

programs/graduation) by the deadline and meet all degree requirements.

# RECOMMENDED COURSE SEQUENCE FULL-TIME TRACK

## Year 1: Fall

4 Credits, AEC 110 - Architectural Design & Modeling

3 Credits, AEC or CAD Elective Course

~Recommended Course(s)~

AEC 216 - Construction Estimating\*

AEC 220 - Surveying\*

AEC 226 - Construction Scheduling\*

AEC 228 - Contracts & The Legal Environment\*

AEC 280 - Internship

CAD 115 - Sketchup

CAD 216 - Advanced Sketchup

3 Credits, CAD 101 - Computer Aided Drafting/2D I

3 Credits, CAD 102 - Computer Aided Drafting/2D II

3 Credits, ENG 121 - English Composition I: GT-CO1

## Year 1: Spring

3 Credits, AEC 107 - Print Reading Residential/Commercial

3 Credits, AEC 116 - Building Materials

3 Credits, CAD 224 - Revit Architecture

3 Credits, COM 115 - Public Speaking

4 Credits, MAT 121 - College Algebra: GT-MA1

## Year 2: Fall

3 Credits, AEC 100 - Introduction to Design Theory

3 Credits, AEC or CAD Elective Course

~Recommended Course(s)~

AEC 216 - Construction Estimating\*

AEC 220 - Surveying\*

AEC 226 - Construction Scheduling\*

AEC 228 - Contracts & The Legal Environment\*

AEC 280 - Internship

CAD 201 - Computer Aided Drafting / Custom

CAD 202 - Computer Aided Drafting / 3D

3 Credits, MAT 122 - College Trigonometry: GT-MA1

5 Credits, PHY 111 - Physics: Algebra-Based I with Lab: GT-SC1

## Year 2: Spring

3 Credits, AEC 206 - Applied Structure Analysis

3 Credits, AEC 208 - Building Environmental Systems I

3 Credits, AEC 236 - International Building Codes

3 Credits, AEC or CAD Elective Course

~Recommended Course(s)~

AEC 216 - Construction Estimating\*

AEC 220 - Surveying\*

AEC 226 - Construction Scheduling\*

AEC 228 - Contracts & The Legal Environment\*

AEC 280 - Internship

CAD 115 - Sketchup

CAD 216 - Advanced Sketchup

3 Credits, AEC or CAD Elective Course

~Recommended Course(s)~

AEC 216 - Construction Estimating\*

AEC 220 - Surveying\*

AEC 226 - Construction Scheduling\*

AEC 228 - Contracts & The Legal Environment\*

AEC 280 - Internship

CAD 201 - Computer Aided Drafting / Custom

CAD 202 - Computer Aided Drafting / 3D

# RECOMMENDED COURSE SEQUENCE PART-TIME TRACK

## Year 1: Fall

4 Credits, AEC 110 - Architectural Design & Modeling

3 Credits, ENG 121 - English Composition I: GT-CO1

## Year 1: Spring

3 Credits, AEC or CAD Elective Course

~Recommended Course(s)~

AEC 216 - Construction Estimating\*

AEC 220 - Surveying\*

AEC 226 - Construction Scheduling\*

AEC 228 - Contracts & The Legal Environment\*

AEC 280 - Internship

CAD 115 - Sketchup

CAD 216 - Advanced Sketchup

3 Credits, CAD 101 - Computer Aided Drafting/2D I

3 Credits, CAD 102 - Computer Aided Drafting/2D II

## Year 1: Summer

3 Credits, COM 115 - Public Speaking

4 Credits, MAT 121 - College Algebra: GT-MA1

## Year 2: Fall

3 Credits, AEC 107 - Print Reading Residential/Commercial

3 Credits, AEC 116 - Building Materials

3 Credits, MAT 122 - College Trigonometry: GT-MA1

## Year 2: Spring

3 Credits, AEC 206 - Applied Structure Analysis

5 Credits, PHY 111 - Physics: Algebra-Based I with Lab: GT-SC1

## Year 2: Summer

3 Credits, AEC or CAD Elective Course

~Recommended Course(s)~

AEC 216 - Construction Estimating\*

AEC 220 - Surveying\*

AEC 226 - Construction Scheduling\*

AEC 228 - Contracts & The Legal Environment\*

AEC 280 - Internship

CAD 201 - Computer Aided Drafting / Custom

CAD 202 - Computer Aided Drafting / 3D

3 Credits, AEC or CAD Elective Course

~Recommended Course(s)~

AEC 216 - Construction Estimating\*

AEC 220 - Surveying\*

AEC 226 - Construction Scheduling\*

AEC 228 - Contracts & The Legal Environment\*

AEC 280 - Internship

CAD 115 - Sketchup

CAD 216 - Advanced Sketchup

## Year 3: Fall

3 Credits, AEC 100 - Introduction to Design Theory

3 Credits, AEC 236 - International Building Codes

3 Credits, CAD 224 - Revit Architecture

## Year 3: Spring

3 Credits, AEC 208 - Building Environmental Systems I

3 Credits, AEC or CAD Elective Course

~Recommended Course(s)~

AEC 216 - Construction Estimating\*

AEC 220 - Surveying\*

AEC 226 - Construction Scheduling\*

AEC 228 - Contracts & The Legal Environment\*

AEC 280 - Internship

CAD 201 - Computer Aided Drafting / Custom

CAD 202 - Computer Aided Drafting / 3D