

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.

Required Courses	Credits	Pre or Co Reqs Rqd	Course Availability		
			Fall	Spr	Sum
General Education Courses					
• ART 110 - Art Appreciation OR ART 111 - Art History Ancient to Medieval, OR ART 112 - Art History Renaissance to Modern: GT-AH1*	3	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
• ART 121 - Drawing I (3 Cr.)	3	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
• ENG 121 - English Composition I: GT-CO1*(3 Cr.)	3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
• ENG 122 - English Composition II: GT-CO2 (3 Cr.)	3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
• ENV 110 - Natural Disasters: GT-SC2* (3 Cr.)	3	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
• GEO 105 - World Regional Geography OR GEO 106 - Human Geography (GT-SS2)*	3	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
• HIS 101 - Western Civilization: Antiquity-1650 OR HIS 102 - Western Civilization: 1650-Present*	3	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
• HUM 121 - Humanities: Early Civilizations, HUM 122 - Humanities: Medieval to Modern, OR HUM 123 - Humanities: The Modern World (GT-AH2)*	3	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
• MAT 121 - College Algebra: GT-MA1* (4 Cr.)	4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
• MAT 122 - College Trigonometry: GT-MA1 (3 Cr.)	3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
• PHY 111 - Physics: Algebra-Based I with Lab: GT-SC1* (5 Cr.)	5	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
• SOC 101 - Introduction to Sociology I, SOC 102 - Introduction to Sociology II OR SOC 207 - Environmental Sociology (GT-SS3)*	3	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Major Courses					
• AEC 100 - Introduction to Design Theory* (3 Cr.)	3	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
• AEC 110 - Architectural Design & Modeling* (4 Cr.)	4	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
• AEC 116 - Building Materials* (3 Cr.)	3	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
• AEC 206 - Applied Structure Analysis* (3 Cr.)	3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
• AEC 208 - Building Environmental Systems I (3 Cr.)	3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
• AEC 236 - International Building Codes* (3 Cr.)	3	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
• CAD 224 - Revit Architecture (3 Cr.)	3	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Pre-Requisites, Co-Requisites, and Recommendations (grade C or better required)

Where requirements are listed as course categories (e.g. Electives, Arts/Humanities) rather than as specific courses, please note that depending upon course choice, pre-requisites may be required.

AEC 206 - Applied Structure Analysis* (3 Cr.)

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

ENG 121 - English Composition I: GT-CO1*(3 Cr.)

- Co-Requisite: CCR 094 - Studio 121 (3 Cr.)

ENG 122 - English Composition II: GT-CO2 (3 Cr.)

- Pre-Requisite: ENG 121 - English Composition I OR ENG 131 - Technical Writing I

MAT 121 - College Algebra: GT-MA1* (4 Cr.)

- Co-Requisite: MAT 093 - Algebra Lab* (1 Cr.) OR MAT 077 - Prep Lab for College Algebra (2 Cr.)
- Pre-Requisite: MAT 055 - Algebraic Literacy (4 Cr.) or appropriate score

MAT 122 - College Trigonometry: GT-MA1 (3 Cr.)

- Pre-Requisite: MAT 121 - College Algebra or Higher

PHY 111 - Physics: Algebra-Based I with Lab: GT-SC1* (5 Cr.)

- Pre-Requisite: MAT 121 - College Algebra or Higher

AEC 208 - Building Environmental Systems I (3 Cr.)

- Pre-Requisite: AEC 116 - Building Materials*
- Pre-Requisite: MAT 121 - College Algebra: GT-MA1*
- Pre-Requisite: OR Instructor's permission

Program Outcomes

- Define and differentiate various building materials.
- Locate, explain, and apply building codes.
- Design digital graphics.
- Design architectural scale and digital models.

Notes

- *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.
- Course availability is subject to change.
- In order to meet program requirements, students registered for ENG 121 or ENG 131 must also register for CCR 094 unless they can demonstrate otherwise meeting the CCR 094 standard through assessment testing, prior college coursework, or recent High School coursework. See an Advisor for details.
- 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.
- Refer to 21/22 catalog for specific requirements and important information about this degree.

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	Credits	Course
	3	AEC 100 - Introduction to Design Theory (3 Cr.)
	3	AEC 116 - Building Materials (3 Cr.)
	3	ART 110 - Art Appreciation OR ART 111 - Art History Ancient to Medieval, OR ART 112 - Art History Renaissance to Modern: GT-AH1*
	3	ART 121 - Drawing I (3 Cr.)
	3	ENG 121 - English Composition I: GT-CO1 (3 Cr.)
Year 1: Spring	Credits	Course
	4	AEC 110 - Architectural Design & Modeling (4 Cr.)
	3	ENG 122 - English Composition II: GT-CO2 (3 Cr.)
	3	ENV 110 - Natural Disasters: GT-SC2 (3 Cr.)
	3	HIS 101 - Western Civilization: Antiquity-1650 OR HIS 102 - Western Civilization: 1650-Present
	4	MAT 121 - College Algebra: GT-MA1 (4 Cr.)
Year 2: Fall	Credits	Course
	3	CAD 224 - Revit Architecture (3 Cr.)
	3	HUM 121 - Humanities: Early Civilizations, HUM 122 - Humanities: Medieval to Modern, OR HUM 123 - Humanities: The Modern World (GT-AH2)
	3	MAT 122 - College Trigonometry: GT-MA1 (3 Cr.)
	5	PHY 111 - Physics: Algebra-Based I with Lab: GT-SC1 (5 Cr.)
Year 2: Spring	Credits	Course
	3	AEC 206 - Applied Structure Analysis (3 Cr.)
	3	AEC 208 - Building Environmental Systems I (3 Cr.)
	3	AEC 236 - International Building Codes (3 Cr.)
	3	GEO 105 - World Regional Geography OR GEO 106 - Human Geography (GT-SS2)
	3	SOC 101 - Introduction to Sociology I, SOC 102 - Introduction to Sociology II OR SOC 207 - Environmental Sociology (GT-SS3)

RECOMMENDED COURSE SEQUENCE PART-TIME TRACK

Year 1: Fall	Credits	Course
	3	AEC 100 - Introduction to Design Theory (3 Cr.)
	3	ART 121 - Drawing I (3 Cr.)
	3	ENG 121 - English Composition I: GT-CO1 (3 Cr.)
Year 1: Spring	Credits	Course
	3	AEC 116 - Building Materials (3 Cr.)
	3	ENG 122 - English Composition II: GT-CO2 (3 Cr.)
	4	MAT 121 - College Algebra: GT-MA1 (4 Cr.)
Year 1: Summer	Credits	Course
	3	MAT 122 - College Trigonometry: GT-MA1 (3 Cr.)
Year 2: Fall	Credits	Course
	4	AEC 110 - Architectural Design & Modeling (4 Cr.)
	5	PHY 111 - Physics: Algebra-Based I with Lab: GT-SC1 (5 Cr.)
Year 2: Spring	Credits	Course
	3	AEC 206 - Applied Structure Analysis (3 Cr.)
	3	AEC 208 - Building Environmental Systems I (3 Cr.)
	3	ENV 110 - Natural Disasters: GT-SC2 (3 Cr.)
Year 2: Summer	Credits	Course
	3	HIS 101 - Western Civilization: Antiquity-1650 OR HIS 102 - Western Civilization: 1650-Present
Year 3: Spring	Credits	Course
	3	ART 110 - Art Appreciation OR ART 111 - Art History Ancient to Medieval, OR ART 112 - Art History Renaissance to Modern: GT-AH1*
Year 3: Fall	Credits	Course
	3	CAD 224 - Revit Architecture (3 Cr.)
	3	GEO 105 - World Regional Geography OR GEO 106 - Human Geography (GT-SS2)
	3	SOC 101 - Introduction to Sociology I, SOC 102 - Introduction to Sociology II OR SOC 207 - Environmental Sociology (GT-SS3)
Year 3: Spring	Credits	Course
	3	AEC 236 - International Building Codes (3 Cr.)
	3	HUM 121 - Humanities: Early Civilizations, HUM 122 - Humanities: Medieval to Modern, OR HUM 123 - Humanities: The Modern World (GT-AH2)