

## ARCHITECTURAL TECHNOLOGY

### Associate in Applied Science Degree

The curriculum emphasis is on architecture and construction, but courses in communication skills, social sciences and humanities are also included. Graduates from this curriculum may be qualified for positions as architectural drafters, engineering interns in building construction, building materials and system details, specification writers and ancillary professional services.

#### FIRST YEAR

##### First Semester

ATE	101	Introduction to Architectural Technology I .....	4
ATE	103	Building Materials Technology I .....	4
ATE	105	Architectural CAD I .....	3
ENG	101	Composition .....	3
		Social Science elective <sup>♦</sup> .....	<u>3</u>
			17

##### Second Semester

ATE	102	Introduction to Architectural Technology II .....	4
ATE	104	Building Materials Technology II .....	4
ENG	102 <sup>1</sup>	Composition .....	3
		Mathematics elective <sup>2</sup> .....	3
		Social Science elective <sup>♦</sup> .....	<u>3</u>
			17

#### SECOND YEAR

##### First Semester

ATE	201	Comprehensive Building Project I .....	4
ATE	203	Construction Problems I .....	4
ATE	207	Architectural Statics .....	3
		Humanities elective <sup>3, ♦</sup> .....	<u>3</u>
			14

##### Second Semester

ATE	202	Comprehensive Building Project II .....	4
ATE	204	Construction Problems II .....	4
ATE	208	Architectural Strength of Materials .....	3
		Technical elective <sup>4</sup> .....	<u>3</u>
			14

<sup>1</sup> ENG 100, ENG 103, ENG 130 or SPE 101 may be used under certain conditions to satisfy this requirement.

<sup>2</sup> A competency test, available in the Assessment and Testing Center, may be utilized to meet the mathematics requirement. Students in this program who utilize the competency test to meet the mathematics requirement must complete a three credit-hour ATE elective.

<sup>3</sup> Recommended elective: ART 110, MUS 103, MUS 104, PHI 105 or any literature course

<sup>4</sup> Technical elective: ATE 106, ATE 109, ATE 205, ATE 206, ATE 210, ATE 211, ATE 213, BCE 201, ELT 142, or a combination of ATE 100 and ATE 200

<sup>♦</sup> Students need to choose a course to meet the Humanities or Social Science requirement that also meets the World Cultures and Diversity graduation requirement.

### Architectural CAD Certificate

This 12 credit-hour certificate program is designed for those just entering the field of architecture, as well as the practicing professional who desires to learn the necessary skills to be proficient in all manners of CAD drafting. Courses begin with introductory two-dimensional drafting and proceed through advanced two-dimensional drafting, three-dimensional drafting and photo-realistic rendering of three-dimensional computer images. Add-on rendering packages will also be explored. Students will learn, through hands-on experience using state of the art computer hardware, the CAD software packages in demand in today's workplace.

#### Required:

ATE	105	Introduction to Architectural CAD I .....	3
ATE	106	Introduction to Architectural CAD II .....	3
ATE	205	Architectural Computer Applications I .....	3
ATE	206	Architectural Computer Applications II .....	3

## ARCHITECTURAL TECHNOLOGY

### Architectural Technology Certificate

*This is a technical program leading to a certificate of completion of any of the following courses, totaling 15 credit hours, provided the combination has approval of a Student Development faculty member or the program coordinator. The curriculum emphasis is on architecture in the related areas of construction, CAD, drafting, estimating, specifications, construction management, model making, historical survey, rendering and perspective drawing.*

ATE	101	Introduction to Architectural Technology I .....	4
ATE	102	Introduction to Architectural Technology II .....	4
ATE	103	Building Materials Technology I .....	4
ATE	104	Building Materials Technology II .....	4
ATE	105	Architectural CAD I .....	3
ATE	106	Architectural CAD II .....	3
ATE	109	Chicago's Great Architectural Tradition .....	3
ATE	201	Comprehensive Building Project I .....	4
ATE	202	Comprehensive Building Project II .....	4
ATE	203	Construction Problems I .....	4
ATE	204	Construction Problems II .....	4
ATE	207	Architectural Statics .....	3
ATE	208	Architectural Strength of Materials .....	3
ATE	209	Principles of Building Construction .....	3
ATE	210	Cost Estimating .....	3
ATE	211	Solar Energy Architecture .....	3
ATE	212	Architectural Rendering .....	3
ATE	213	Construction Management Process .....	3
ATE	214	Architectural Models .....	3

## BUILDING CODES AND ENFORCEMENT

### Building Codes and Enforcement Certificate

*This 24 credit-hour certificate program is designed to meet the educational and training needs of those employed in the building code compliance field, as well as those in the building and construction industry who are interested in keeping abreast of building code changes and requirements.*

*The emphasis of this specialized program is on building codes and their interpretation and application in the field. This offers students a unique opportunity to develop and expand their knowledge and skills. The certificate may enhance students' opportunities for employment and career advancement. New employment opportunities are cyclical in nature, and students should consult the program coordinator or a Student Development faculty member before registering for this program.*

**Required:**

BCE	101	Basic Construction for Building Codes .....	3
BCE	102	Basic Code Enforcement Techniques .....	3
BCE	104	Basic Mechanical and Energy Conservation Codes or	
FIS	123 <sup>1</sup>	Advanced Fire Prevention Principles .....	3
BCE	105	Basic Plumbing Codes .....	3
BCE	106	Basic Electrical Codes .....	3
BCE	201	Basic Building Codes .....	3
ENG	103	Technical and Report Writing .....	3
SPE	101	Fundamentals of Speech Communication .....	3

<sup>1</sup> Prerequisite of FIS 122 will be waived.