

# Architectural and Building Construction Technology

Program A4400  
CIP 150101

## Associate in Applied Science Degree

The Architectural and Building Construction Technology program prepares graduates for employment in field and office positions with architects or engineers. Successful graduates of the program will be able to:

- assist architects in the preparation of plans and specifications for buildings;
- assist surveyors in field work at construction sites;
- use basic surveying equipment;
- prepare construction specifications and estimates;
- inspect certain areas of construction to ensure compliance with specifications;
- assist plant engineers in building operation and maintenance;
- assist architects and engineers in the basic computational areas of building design.

Students may study full-time or part-time. However, some courses are offered during day hours only. Admission to the program requires a high school diploma or its equivalent with one year of algebra.

MCCC is located in close proximity to many governmental offices and architectural and consulting engineering firms. Cooperative education opportunities are available.

Students wishing to transfer and pursue a bachelor's degree are encouraged to take advanced mathematics (including calculus), college physics, Fluid Mechanics, and Surveying II. Graduates who do so can receive full junior status toward a B.S. degree in the Construction Engineering Technology program at New Jersey Institute of Technology (NJIT) and other four-year institutions.

### A.A.S. Curriculum

Code	Course (lecture/lab hours)	Credits
ABT 120	Architectural Technology Graphics (2/6)	4
ABT 109	Construction Materials (2/0)	2
MAT 110	Elementary Technical Mathematics (3/0) <sup>1</sup>	3
DRA 190	Introduction to Computer-Aided Drafting (1/2)	2
ENG 101	English Composition I (3/0)	3
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ABT 124	Architectural Working Drawings (2/4)	4
ENG 112	English Composition II with Speech (3/0)	3
ABT 132	Architectural Computer Drafting (1/2)	2
CIV 104	Applied Mechanics (3/0)	3
ABT 104	Codes for Construction and Design (4/0)	4
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DRA 217	Structural Steel Design and Drafting (2/3)	3
CIV 237	Mechanics of Materials Fundamentals (3/3)	4
CIV 101	Surveying I (2/3)	3
ABT 210	Construction Drawings (2/2)	3
— —	General Education elective <sup>2</sup>	3
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ABT 220	Reinforced Concrete Structures (2/3)	3
CIV 234	Specifications and Estimates (1/2)	2
PHY 111	Physical Science Concepts (2/2)	3
HPE 110	Concepts of Health and Fitness (1/2)†	2
— —	General Education elective <sup>3</sup>	3
— —	General Education elective <sup>3</sup>	3
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NOTE: Electives should be selected in consultation with an academic advisor in order to assure maximum transfer of credits.

<sup>1</sup> Or approved higher-level mathematics course, preferably MAT 115.

<sup>2</sup> Select course from either Social Science or Humanities general education categories.

<sup>3</sup> Select course from the following general education categories: Social Science, Humanities, Historical Perspective, Diversity and Global Perspective.

†HPE 111 is an acceptable alternative.

# Architectural Technology

## Certificate of Proficiency

Program 67100  
CIP 150101

The certificate program in Architectural Technology prepares students for employment as architectural technicians who prepare architectural drawings both by hand and with microcomputer-based drafting systems. Admission requires a high school diploma or equivalent with one year of algebra or applied mathematics. The complete program is available through daytime attendance either full-time or part-time. Some courses are offered during day hours only.

Successful graduates of the program will be able to:

- assist architects in the preparation of plans;
- serve on a surveying field crew.

### Certificate Curriculum

Code	Course (lecture/lab hours)	Credits
ABT 120	Architectural Technology Graphics (2/6)	4
ABT 109	Construction Materials (2/0)	2
ABT 124	Architectural Working Drawings (2/4)	4
DRA 190	Introduction to Computer-Aided Drafting (1/2)	2
MAT 110	Elementary Technical Mathematics (3/0)	3
CIV 101	Surveying I (2/3)	3
ENG 101	English Composition I (3/0)	3
— —	Technical electives <sup>1</sup>	6
— —	Elective	3
		30

<sup>1</sup> Select from ABT 104, 132, 210, 299.

NOTE: All program listings are subject to periodic updates. Please consult your program advisor, academic division, or [www.mccc.edu/programs\\_degree](http://www.mccc.edu/programs_degree)

