ARCHITECTURAL TECHNOLOGY AREA OF CONCENTRATION, ARCHITECTURAL/CONSTRUCTION TECHNOLOGY AAS

Total Credits: 60
Catalog Edition: 2024-2025

Program Description

(R): 302

There are two area of concentrations leading to the AAS in architectural and construction technology: architectural technology and management of construction. In addition, two certificates are offered: CAD for the building professional and management of construction. Both of the AAS area of concentrations are designed to prepare graduates for entry into paraprofessional positions in the construction industry and architecture upon completion of the curriculum. (See Construction Management)

Graduates of this AS area of concentration continue their education toward professional degrees or seek employment immediately as paraprofessionals. Technicians specializing in architecture and construction are prepared to assist and work with architects, contractors, and related professionals.

Successful graduates involve themselves in many specialized aspects of the construction industry, including preparation of contract drawings, supervision and/or inspection of construction work, and contract administration. Computer drafting skills provide extensive opportunities for graduates.

Students planning to transfer to four-year schools of architecture should be aware that not all courses in the curriculum may transfer.

Program Outcomes

Upon completion of this program, a student will be able to:

- Synthesize social, economic, environmental, material, and aesthetic issues to create architectural designs.
- Document design strategies using a variety of graphic verbal and written forms.
- Analyze various construction technologies and materials and demonstrate mastery in application in graphic format.
- Demonstrate knowledge of building design by means of resolving architectural space planning, aesthetic, and construction detail issues in design projects such as residential, commercial, or public structures.

Program Advisors

Rockville

- Prof. Chantal Vilmar, 240-567-1718, Chantal.Vilmar@montgomerycollege.edu

For more information, please visit https://www.montgomerycollege.edu/academics/programs/architectural-technology/architectural-technology-aas-degree.html

To view the Advising Worksheet, please visit https://www.montgomerycollege.edu/_documents/counseling-and-advising/advising-worksheets/current-catalog/302.pdf

2024-2025

Program Advising Guide
An Academic Reference Tool for Students

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ARCHITECTURAL TECHNOLOGY AREA OF CONCENTRATION, ARCHITECTURAL/
CONSTRUCTION TECHNOLOGY
ASSOCIATE OF APPLIED SCIENCE: 302

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Suggested Course Sequence

A suggested course sequence for full-time students follows. All students should review this advising guide and consult an advisor.

First Semester

ENGL 101 - Introduction to College Writing *3 semester hours* *

MATH 150 - Elementary Applied Calculus I *4 semester hours* (MATF)

ARCH 101 - Introduction to Architecture and the Built Environment *3 semester hours*

ARCH 103 - Building Technology and Documentation *3 semester hours*

CMGT 100 - Construction Methods and Materials *3 semester hours*

Third Semester

ARCH 200 - CAD: 3D Presentation *4 semester hours*

ARCH 201 - Introduction to Architectural Design *4 semester hours*

ARTT 265 - Architectural History: Ancient to 1400 *3 semester hours*

PHYS 203 - General Physics I (Non-Engineering) *4 semester hours* (NSLD)

Second Semester

English Foundation *3 semester hours (ENGF)*

ARCH 104 - Introduction to Architectural Graphics *3 semester hours*

ARCH 183 - CAD: Architectural Applications *4 semester hours*

COMM 108 - Foundations of Human Communication *3 semester hours* (GEEL)

OR

COMM 112 - Business and Professional Speech Communication *3 semester hours* (GEEL)

Behavioral and Social Sciences Distribution *3 semester hours (BSSD)*

Fourth Semester

ARCH 202 - CAD: REVIT I *4 semester hours*

ARCH 203 - Principles of Sustainability *3 semester hours*

OR

CMGT 290 - Professional Practicum *1 semester hour* ‡

ARTT 266 - Architectural History: 1400 to Present *3 semester hours*

Arts or Humanities Distribution *3 semester hours (ARTD or HUMD)*

Total Credit Hours: 60

* ENGL 101, if needed for ENGL 102/ENGL 103, or elective.

‡ CMGT 290 must be taken three times for credit.

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Transfer Opportunities

Montgomery College has partnerships with multiple four-year institutions and the tools to help you transfer. To learn more, please visit https://www.montgomerycollege.edu/transfer or http://artsys.usmd.edu .

Get Involved at MC!

Employers and Transfer Institutions are looking for experience outside the classroom.

MC Student Clubs and Organizations: https://www.montgomerycollege.edu/life-at-mc/student-life/

Related Careers

Some require a Bachelor's degree.
Architect, Architectural Technologist, CAD Technician, Interior Designer, Construction Manager, Sustainability Specialist, Civil Drafters, Urban and Regional Planners, Postsecondary Architecture Teacher, Construction and Building Inspectors.

Career Services

Montgomery College offers a range of services to students and alumni to support the career planning process. To learn more, please visit https://www.montgomerycollege.edu/career

Career Coach

A valuable online search tool that will give you the opportunity to explore hundreds of potential careers or job possibilities in Maryland and the Washington D.C. metropolitan area. Get started today on your road to a new future and give it a try. For more information, please visit https://montgomerycollege.emsicc.com

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