

MANAGEMENT OF CONSTRUCTION AREA OF CONCENTRATION, ARCHITECTURAL/CONSTRUCTION TECHNOLOGY AAS

Total Credits: 60

Catalog Edition: 2024-2025

Program Description

(R): 303

There are two areas of concentration 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 areas of concentration are designed to prepare graduates for entry into paraprofessional positions in the construction industry and architecture upon completion of the curriculum. (See Architectural Technology)

This AAS area of concentration is designed to prepare graduates to organize, operate, manage, and control the unique and demanding systems, procedures, and services in the construction industry, both on the job site and in the contractor's office. Areas of study include cost control, planning, scheduling, controlling and expediting construction, contract bidding and estimating, personnel management, and the overall management of construction operations. This curriculum prepares students for construction management careers in any type or size of construction firm.

The curriculum is not designed as a transfer program except to institutions having a construction curriculum. A student seeking a four-year bachelor's degree must meet with the program coordinator in the management of construction program or the applied technologies department chair to work out a suitable program of study.

Program Outcomes

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

- Demonstrate a thorough understanding of the principles and methods used in the installation of materials and building components including structural, nonstructural, mechanical, and electrical systems.

- Demonstrate technical mastery of the methods and procedures of reading architectural, structural, and mechanical drawings.
- Assist a field manager or project manager with basic project administration procedures both in the field and at the office.
- Demonstrate technical mastery in the computer software and surveying equipment used for project administration, estimating, scheduling, and surveying.
- Develop a working knowledge of construction estimating and scheduling procedures and the legal implications applicable to a construction project.

Program Advisors

Rockville

- Prof. Kara Guthro, 240-567-7598,
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- Prof. Mark Corfman, 240-567-4251,
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For more information, please visit <https://www.montgomerycollege.edu/constructionmanagement>

To view the Advising Worksheet, please visit <https://www.montgomerycollege.edu/documents/counseling-and-advising/advising-worksheets/current-catalog/303.pdf>

2024-2025

Program Advising Guide

An Academic Reference Tool for Students

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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* *

Mathematics Foundation *3 semester hours (MATF)*

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

CMGT 110 - Construction Plan Reading *3 semester hours*

CMGT 135 - Construction Field Operations *3 semester hours*

Third Semester

CMGT 250 - Construction Surveying *3 semester hours*

CMGT 270 - Construction Estimating *3 semester hours*

CMGT 275 - Construction Planning and Scheduling *3 semester hours*

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

Program Elective *3 semester hours* ‡

Second Semester

English Foundation *3 semester hours (ENGF)*

CMGT 190 - Computer Applications in Construction *3 semester hours*

CMGT 210 - Construction Management *3 semester hours*

COMM 108 - Foundations of Human Communication *3 semester hours (ARTD or HUMD) ***

OR

COMM 112 - Business and Professional Speech Communication *3 semester hours (ARTD or HUMD) ***

General Education Elective *4 semester hours (GEEL)*

Fourth Semester

CMGT 280 - Mechanical and Electrical Systems *3 semester hours*

CMGT 285 - Practical Construction Law *3 semester hours*

CMGT 290 - Professional Practicum *1 semester hour*

Natural Sciences Distribution with Lab *4 semester hours (NSLD)*

Program Elective *3 semester hours* ‡

Total Credit Hours: 60

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

** AAS programs require one 3-credit Arts or Humanities General Education course.

‡ Choose from the following program electives: ACCT 221, ARCH 101, ARCH 103, ARCH 183, ARCH 202, ARCH 203, any BLDG course, CMGT 290, or MATH 165.

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.

Construction Project Manager, Project Superintendent, Construction Estimator, Building Inspector, Safety Manager/Director.

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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