INFORMATION SYSTEMS, COMPUTER SCIENCE AND TECHNOLOGIES AA: 109
Total Credits: 60
Catalog Editions: 2012-13 through 2015-16

Program Description
This transfer degree track is for students who plan to transfer to a four-year program such as information systems or information management. The curriculum is designed to present a broad coverage of concepts applying to the theory and management of information, analytical techniques in the development of computer-based information systems, and practical experience with business programming.

Because of the variation in such programs at four-year institutions, students are urged to consult an adviser about specific course selections.

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

- Analyze components of the computer information systems.
- Analyze, design, and implement computer programs using a high level programming language.
- Demonstrate proficiency in analysis and design techniques.

Program Advising
Rockville
- **Dr. Alla Webb, 240-567-7934**
  Alla.Webb@montgomerycollege.edu

Germantown
- **Prof. Margaret Tseng, 240-567-7737**
  Margaret.Tseng@montgomerycollege.edu

Takoma Park/Silver Spring
- **Dr. Qingming Zhou, 240-567-1433**
  Qingmin.Zhou@montgomerycollege.edu

For more information please visit:
www.montgomerycollege.edu/computerscience

2015-2016
Program Advising Guide
An Academic Reference Tool for Students

109

INFORMATION SYSTEMS,
COMPUTER SCIENCE AND TECHNOLOGIES AA: 109

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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. Visit *www.montgomerycollege.edu/computerscience* for more information.

First Semester

CMSC 110 - Computer Concepts
3 semester hours ‡

ENGL 101 - Introduction to College Writing
3 semester hours *

Arts distribution
3 semester hours (ARTD)

Behavioral and social sciences distribution
3 semester hours (BSSD) **

Mathematics foundation
3 semester hours (MATF)

Second Semester

CMSC 140 - Introduction to Programming
3 semester hours

Elective
3 semester hours †

English foundation
3 semester hours (ENGF)

Natural sciences distribution with lab
4 semester hours (NSLD)

Speech foundation
3 semester hours (SPCF)

Third Semester

CMSC 243 - Systems Analysis and Design
3 semester hours

Behavioral and social sciences distribution
3 semester hours (BSSD) **

Humanities distribution
3 semester hours (HUMD)

Elective
3 semester hours †

Elective
3 semester hours †

Fourth Semester

Arts or humanities distribution
3 semester hours (ARTD or HUMD)

Health foundation
1 semester hour (HLTF)

Natural sciences distribution
3 semester hours (NSND)

Elective
4 semester hours †

Elective
3 semester hours †

Total Credit Hours: 60

Advising Notes

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

**Behavioral and Social Science Distribution (BSSD) courses must come from different disciplines. Contact department advisor for transfer requirements for specific schools. Students applying to business schools should consider using economics as an elective because it meets transfer and BSSD requirements. If you have any questions, please see a department adviser.

‡ May be replaced by another CMSC course with departmental consent.

† Select electives based on transfer institution requirements. See an adviser for assistance and use ARTSYS for Maryland transfer school requirements, http://artweb.usmd.edu. Note: There must be at least 12 credits total at the 200-level for an AA degree.

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Name: | **Date:** | **ID #:**

GENERAL EDUCATION: FOUNDATION COURSES	Course	Hours	Grade
English Foundation (EN 102/ENGL 102 or EN 109/ENGL 103)		3	
Math Foundation (MA 110/MATH 110 or higher)			
Speech Foundation (SP 108/COMM 108 or SP 112/COMM 112)		3	
Health Foundation HLHF (Choose HLTH 100 - HLTH 230)			

GENERAL EDUCATION: DISTRIBUTION COURSES	Course	Hours	Grade
Arts Distribution (ARTD)			
Humanities Distribution (HUMD)			
Arts or Humanities Distribution (ARTD or HUMD)			
Behavioral & Social Sciences Distribution (BSSD) **		3	
Behavioral & Social Sciences Distribution (BSSD) **		3	
Natural Sciences Distribution with Lab (NSLD)		4	
Natural Sciences Distribution without Lab (NSND) or **Natural Sciences Distribution with Lab** (NSLD)			

PROGRAM REQUIREMENTS	Course	Hours	Grade
EN 101/ENGL 101 (if needed for ENGL102/103 or program elective if not) *			
	CS 140/**CMSC 140**	3	
	CS 136/**CMSC 243**	3	
PROGRAM ELECTIVE †			
PROGRAM ELECTIVE †			
PROGRAM ELECTIVE †			
PROGRAM ELECTIVE †			
PROGRAM ELECTIVE †			

Has student completed the Global Perspectives requirement? ☐ Yes ☐ No

Overall GPA of 2.0 is required to graduate

Global Perspectives Course:

Total Credits:

Has student completed a minimum of 12 credits at the 200 level for completion of the program? ☐ Yes ☐ No

‡ *May be replaced by another CMSC course with departmental consent*

Engineering and Computer Science Advising Web Page

See an *advisor* to submit an *Application for Graduation* the semester BEFORE you intend to graduate.
This UNOFFICIAL document is for planning purposes ONLY and completion does not guarantee graduation.

Transfer Opportunities

Montgomery College has partnerships with multiple four-year institutions and the tools to help you transfer. To learn more please visit: *http://cms.montgomerycollege.edu/EDU/Plain.aspx?id=62381* or *artsys.usmd.edu*

Get Involved at MC!

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

Computer Science and Technologies Student Professional Groups
www.montgomerycollege.edu/computerscience

Related Careers

Some require a Bachelor's degree.
Computer Science Teacher, Computer Systems Engineer/Architect, Computer/Information Research Scientist, Web Administrator, Mobile Developer, Game Programmer

Career Services
http://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. Visit the website listed below:
https://montgomerycollege.emsicareercoach.com

Notes:

Montgomery College
endless possibilities

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