

**INFORMATION SYSTEMS,
COMPUTER SCIENCE AND TECHNOLOGIES AA: 109**

**Total Credits: 60
Catalog Edition: 2016-2017**

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**
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- **Prof. Margaret Tseng**
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For more information please visit:

www.montgomerycollege.edu/computerscience

2016-2017

Program Advising Guide

An Academic Reference Tool for Students

INFORMATION SYSTEMS, COMPUTER SCIENCE AND TECHNOLOGIES AA: 109

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)
- Arts or humanities distribution
3 semester hours (GEIR) † †
- Natural sciences distribution with lab
4 semester hours (NSLD)

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

- COMM 108 - Introduction to Human Communication *3 semester hours (GEIR) OR*
- COMM 112 - Business and Professional Speech Communication *3 semester hours (GEIR)*
- Elective *3 semester hours †*
- Elective *3 semester hours †*
- Elective *2 semester hours †*
- Natural sciences distribution *3 semester hours (NSND)*

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 program electives based on transfer institution requirements. See an advisor 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.
- List of program electives: 200-level CMAP, CMSC, NWIT or TECH courses, ACCT 221, ACCT 222 , BSAD 101, CMSC 100, CMSC 141, ECON 201, ECON 202, MATH 150 or MATH 181, MATH 151 or MATH 182, MATH 117 or BSAD 210, MGMT 101 , MGMT 211.
- † † Please consult an advisor or the transfer institution before selecting institutional requirements.

INFORMATION SYSTEMS A.A.: 109

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Catalog Edition 16-17

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) | | | |

| GENERAL EDUCATION: DISTRIBUTION COURSES | Course | Hours | Grade |
|---|--------|-------|-------|
| Arts Distribution (ARTD) | | | |
| Humanities Distribution (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) | | | |
| General Education Institutional Requirement (GEIR) | | 3 | |
| HLTH‡ or ARTD/HUMD‡ (GEIR) <small>Choose course from general education HLTH or ARTD/HUMD. Discuss appropriate course choice with counselor/advisor</small> | | | |

| 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 † | | | |
| | | | |

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](#)

Last Modified: June 2016

Advising Worksheet Contact: [Anthony Solano](#)

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 <http://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: