

GENERAL STUDIES AA: 611B**The Science, Technology, Engineering, and Mathematics (STEM) Core**

Total Credits: 60

Catalog Edition: 2018-2019

Program Description

The Studies in Science, Technology, Engineering, and Mathematics major allows students to develop an interdisciplinary course of study emphasizing the science, technology, engineering, and/or mathematics disciplines. The STEM area or concentration is designed to allow students to pursue a general exploration of these disciplines while deepening knowledge through a selected academic focus.

Program Outcomes

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

- Articulate a plan for their educational and career development that relates their coursework to their goals.
- Identify available resources related to their ongoing educational and professional development.
- Apply critical thinking, quantitative reasoning, and/or scientific reasoning skills by articulating, analyzing, and evaluating problems and scenarios across discipline areas.
- Find, evaluate, use, and synthesize information needed to address increasingly complex problems and scenarios.
- Use technology effectively to accomplish a variety of general and discipline specific activities.
- Communicate effectively in writing and orally appropriately across disciplines.
- Articulate an academic identity that reflects an integrated, interdisciplinary view of their formal, co-curricular and personal learning.
- Make and articulate the connections within their course of study.

General Studies Program Meeting

- **Dr. Vedham Karpakakunjaram (Biology Focus)**
240-567-5480
vkarpaka@montgomerycollege.edu
- **Dr. Cory Newman (Chemistry Focus)**
240-567-1413
cory.newman@montgomerycollege.edu
- **Prof. Alison Rose (Math Focus)**
240-567-4231
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General Studies Chair

- **Prof. Samantha Streamer Veneruso**
240-567-7940
samantha.veneruso@montgomerycollege.edu

For a full list of program advisors, please visit:

https://cms.montgomerycollege.edu/uploadedFiles/EDU/Departments_-_Academic/General_Studies/Instructional_Faculty_Advising.pdf

To request an advisor, please complete the form here:

<https://cms.montgomerycollege.edu/EDU/Department.aspx?id=102728>

For more information please visit:

<http://cms.montgomerycollege.edu/generalstudies/stem-core/>

2018-2019 Program Advising Guide

An Academic Reference Tool for Students

GENERAL STUDIES - STEM

AA: 611B

Suggested Course Sequence

A suggested course sequence for full-time students follows. All students should review this advising guide and consult an advisor. Visit <http://www.montgomerycollege.edu/generalstudies> for more information.

First Semester

- ENGL 101 - Introduction to College Writing 3 semester hours *
- OR
- ENGL 101A - Introduction to College Writing 3 semester hours *
- Mathematics foundation 3 semester hours (MATF) ‡
- Natural science distribution 3 semester hours (NSND) ††
- General education institutional requirement 3 semester hours (GEIR) †
- Elective 3 semester hours

Second Semester

- English foundation 3 semester hours (ENGF) ‡
- Behavioral and social sciences distribution (BSSD) **
- Humanities distribution 3 semester hours (HUMD)
- Natural science distribution with lab 4 semester hours (NSLD)
- Elective 3 semester hours

Third Semester

- Arts distribution 3 semester hours (ARTD or HUMD)
- Behavioral and social sciences distribution 3 semester hours (BSSD) **
- Core course 1 3 semester hours
- Core course 2 3 semester hours
- General education institutional requirement 3 semester hours (GEIR) †

Fourth Semester

- Core course 3 semester hours
- Core course 3 semester hours
- Core course 3 semester hours
- Elective 3 semester hours ††
- Elective 2 semester hours ††

Total Credit Hours: 60

Advising Notes

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

** Behavioral and Social Science Distribution (BSSD) courses must come from different disciplines.

*** Students must complete one Global or Cultural Perspectives designated course as part of their General Education Program.

‡ Students should attempt ENGL and MATH foundation requirements within completion of the first 24 credits of college level work or at the completion of any prerequisite or required non-credit coursework.

†† Any credit hours beyond the minimum in General Education (31 Credit hours) or Core courses are counted toward elective credit hours.

† Two general education institutional requirement (GEIR) courses required from the following general education courses: COMM, HLTH, or one ARTD or HUMD. Students may only take one course from ARTD or HUMD to fulfill General Education Institutional Requirements.

†† Consult a counselor/advisor for NSND/Science course selection. Students potentially interested in science, health or engineer transfer programs should consider a 4 credit lab science course.

Please Note: Exact semester credit counts may vary based on specific course selections.

GENERAL STUDIES AA: 611B

Science, Technology, Engineering, and Mathematics (STEM)

(Must complete a minimum of 15 credits at the 200 level for completion of the program)

Total Credits: 60
Catalog Editions 17-18 through 18-19

Initial Placement Scores	
Reading: _____	English: _____
Math: _____	
Anticipated Completion Date: _____	

Name: _____ Date: _____ ID #: _____

	COURSE	HOURS	GRADE
ENGL 101 or ENGL 101A (If needed for ENGL 102/103 or elective if not) *			
English Foundation (ENGL 102 or ENGL 103) GENERAL EDUCATION FOUNDATION ‡		3	
Math Foundation (MATH 110, 115 (A), 117 (A), 120, 130, 150, 165, 170, or 181) SEE A COUNSELOR/ADVISOR			
Arts Distribution (ARTD) GENERAL EDUCATION DISTRIBUTION			
Humanities Distribution (HUMD) GENERAL EDUCATION DISTRIBUTION			
Behavioral & Social Sciences Distribution (BSSD) GENERAL EDUCATION DISTRIBUTION **		3	
Behavioral & Social Sciences Distribution (BSSD) <i>Different discipline from other BSSD</i> GED **		3	
Natural Sciences Distribution with Lab (NSLD) GENERAL EDUCATION DISTRIBUTION		4	
Natural Sciences Distribution without Lab or Natural Sciences Distribution with lab (NSND/NSLD) GENERAL EDUCATION DISTRIBUTION			
General Education Institutional Requirement (GEIR) GENERAL EDUCATION IR † <small>Choose course from general education COMM, HLTH, or ARTD/HUMD. Discuss appropriate course choice with counselor/advisor</small>			
General Education Institutional Requirement (GEIR) GENERAL EDUCATION IR † <small>Choose course from general education COMM, HLTH, or ARTD/HUMD. Students may not select two COMM, two HLTH, or two ARTD/HUMD courses to meet their General Education Institutional Requirements. Discuss appropriate course choice with counselor/advisor</small>			

<p>STEM CORE COURSE SELECTION CHOOSE AT LEAST 15 CREDIT HOURS FROM: AOSC, ASTR, BIOL, CHEM, CMSC, ENEE, ENES, GEOL, MATH, NUTR, PSCI, or PHYS. MUST SELECT A MINIMUM OF 3 CREDIT HOURS OF STEM CORE COURSES AT THE 200 LEVEL. SEE A COUNSELOR/ADVISOR.</p>	<p>ELECTIVE COURSE SELECTION CHOOSE UP TO 11 CREDIT HOURS TO REACH COMPLETION OF 60 COLLEGE LEVEL CREDITS REFLECTING PERSONAL, ACADEMIC, AND CAREER INTERESTS. SEE A COUNSELOR/ADVISOR.</p>
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	COURSE	HOURS	GRADE		COURSE	HOURS	GRADE
TOTAL HOURS				TOTAL HOURS			

Graduation Requirements **Overall GPA of 2.0 is required to graduate** *Only two credits of PE/PHED courses may be used as electives*

Has student completed a minimum of 15 credits at the 200 level? Yes No 200-level credits completed: _____

Has student completed the Global Perspectives requirement? Yes No Global Perspectives Course: _____

Does student have an overall 2.0 GPA? Yes No Overall cumulative GPA: _____

Has the student completed 60 credits? Yes No Total credits completed: _____

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/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://cms.montgomerycollege.edu/edu/plain.aspx?id=2439>

Related Careers

The General Studies degree provides opportunities for students to develop and hone their critical thinking, analytical, team-building and problem-solving skills. Students with General Studies degree will be able to successfully apply these skills in a wide range of careers.

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: