

# GENERAL STUDIES AA: STUDIES IN SCIENCE, TECHNOLOGY, ENGINEERING, AND MATHEMATICS AREA OF CONCENTRATION (STEM CORE): 611B

**Total Credits: 60**

**Catalog Edition: 2020-2021**

## 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.

## Program Advisors

- **Biology Focus:** Dr. Vedham Karpakakunjaram, 240-567-5480, [Vedham.Karpakakunjaram@montgomerycollege.edu](mailto:Vedham.Karpakakunjaram@montgomerycollege.edu)
- **Chemistry Focus:** Dr. Cory Newman, 240-567-1413, [Cory.Newman@montgomerycollege.edu](mailto:Cory.Newman@montgomerycollege.edu)

- **Math Focus:** Prof. Alison Rose, 240-567-4231, [Alison.Rose@montgomerycollege.edu](mailto:Alison.Rose@montgomerycollege.edu)
- **General Studies Chair:** Prof. Samantha Streamer Veneruso, 240-567-7940, [samantha.veneruso@montgomerycollege.edu](mailto:samantha.veneruso@montgomerycollege.edu)

For more information, please visit <https://www.montgomerycollege.edu/academics/programs/general-studies/science-technology-engineering-and-mathematics-core/index.html>

To view the Advising Worksheet, please visit <https://www.montgomerycollege.edu/documents/counseling-and-advising/advising-worksheets/current-catalog/611b-stem.pdf>

2020-2021

# Program Advising Guide

An Academic Reference Tool for Students

611B

GENERAL STUDIES  
ASSOCIATE OF ARTS: 611B

# GENERAL STUDIES AA: STUDIES IN SCIENCE, TECHNOLOGY, ENGINEERING, AND MATHEMATICS AREA OF CONCENTRATION (STEM CORE): 611B

## 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) ‡

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

General Education Institutional Requirement 3 semester hours (GEIR) †

Elective 3 semester hours

### Third Semester

Arts Distribution 3 semester hours (ARTD or HUMD)

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

STEM Core Course 1 3 semester hours

STEM Core Course 2 3 semester hours

General Education Institutional Requirement 3 semester hours (GEIR) †

### Second Semester

English Foundation 3 semester hours (ENGF) ‡

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

Humanities Distribution 3 semester hours (HUMD)

Natural Sciences Distribution with or without Lab 3 semester hours (NSD)

Elective 3 semester hours

### Fourth Semester

STEM Core Course 3 3 semester hours

STEM Core Course 4 3 semester hours

STEM Core Course 5 3 semester hours

Elective 3 semester hours ‡‡

Elective 2 semester hours ‡‡

## Total Credit Hours: 60

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

\*\* Behavioral and social sciences 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 General Education credit hours (31) or core courses are counted toward elective credit hours.

† Two General Education institutional requirement (GEIR) courses are 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 or program advisor for NSND/science course selection. Students potentially interested in science, health or engineer transfer programs should consider a 4-credit lab science course.

**NOTE:** Exact semester credit counts may vary based on specific course selections.

## 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

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

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>

## Notes: