



**Data Science Discipline Option
General Studies Associate of Arts
Degree (611B- STEM)**

ACADEMIC MAP

Below is a recommendation for courses and course sequencing based on full-time status. *Always consult a program advisor or counselor and review specific requirements for your transfer institution.*
For information contact: generalstudies@montgomerycollege.edu.

Requirements/Recommended courses		0-15 Credits
ENGL 101		3
MATF	Any MATF (MATH 117 required for Data Science Certificate)*	3 or 4
BSSD	Any BSSD**	3
NSND/NSLD	Any NSLD/NSND	3 or 4
GEIR	Any GEIR (COMM 108 or COMM 112 recommended)	3
Total Credits		15-17

Staying on track at 0-15 Credits	
<input checked="" type="checkbox"/>	Complete ENGL 101
<input checked="" type="checkbox"/>	Complete Math Foundation
<input checked="" type="checkbox"/>	Start Academic Plan
<input checked="" type="checkbox"/>	Identify Counselor to Work with regularly

Requirements/Recommended courses		16-30 Credits
ENGF	ENGL 102 or ENGL 103	3
STEM 1	DATA 101 required for certificate*	3
STEM 2	DATA 110 required for Certificate*	3
HUMD	Any 200 level HUMD	3
NSLD	Any NSLD	4
Total Credits		16

Staying on track at 16-30 Credits	
<input checked="" type="checkbox"/>	Update Academic Plan
<input checked="" type="checkbox"/>	Identify Program Advisor to work with
<input checked="" type="checkbox"/>	Complete English Foundation
<input checked="" type="checkbox"/>	Complete at least 3 credits at 200 level
<input checked="" type="checkbox"/>	Complete at least one course from core
<input checked="" type="checkbox"/>	Complete at least one of each Gen Ed Requirement (HUMD, ARTD, BSSD, NSLD/NSND, GEIR)
<input checked="" type="checkbox"/>	Complete at least one internship or volunteer opportunity
<input checked="" type="checkbox"/>	Identify or review transfer programs and program requirements

Requirements/Recommended courses		31-45 Credits
BSSD	Any BSSD**	3
STEM 3	DATA 201 required for certificate*	3
ARTD	Any ARTD (GDES 116 or GDES 121 recommended)	3
STEM 4	MATH 165 or MATH 181 or MATH 217 or CMSC 140 recommended ***	3
GEIR	GEIR HLTH or ARTD or HUMD 200 level recommended	3
Total Credits		15

Staying on track at 31-45 Credits	
<input checked="" type="checkbox"/>	Update Academic Plan
<input checked="" type="checkbox"/>	Complete all General Education Requirements
<input checked="" type="checkbox"/>	Complete 5 credits of 200 level course work (9 credits by 45)
<input checked="" type="checkbox"/>	Apply for transfer schools based on institution deadlines
<input checked="" type="checkbox"/>	Apply for Graduation by 45 credits

Requirements/Recommended courses		46-60 Credits
STEM 5	DATA 205 required for certificate*	3
Elective	Any elective (MATH 182 or MATH 217 or CMSC 140 recommended)	3
Elective	Any 200 level course	3
Elective	Any 200 level course	3
Elective	Any course	0-2
Total Credits		Up to 14

Staying on track 46-60 Credits	
<input checked="" type="checkbox"/>	Complete 6 credits of 200 level course work (15 total required)
<input checked="" type="checkbox"/>	Complete all General Education Requirements

GENERAL EDUCATION ABBREVIATIONS KEY

ENGF – English Foundation
MATF – Math Foundation
ARTD – Arts Distribution

HUMD – Humanities Distribution
BSSD – Behavioral Social Sciences Distribution
NSLD – Natural Sciences with Lab

NSND – Natural Sciences without Lab
GEIR – Gen Ed Institutional Requirement

For more information on General Education, please visit: montgomerycollege.edu/academics/general-education-program

WHO TO CONTACT

If you have a question and would like to speak with an advisor, you may schedule an appointment with the counseling office or reach out to one of our Instructional Faculty Advisors.

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CONSIDERATIONS

• In order to complete this degree, students must:

1. Complete of a minimum of 60 Credit hours including:
 - General Education Requirements- 31 Credit hours
 - Science, Technology, Engineering, and Mathematics Core courses- at least 15 credit hours, with a minimum of 3 credit hours at 200 level
 - Electives- Up to 11 Credit hours as needed to complete 60 Credit hours
2. Complete a minimum of 15 Credits at 200 level., with at least 3 credit hours at the 200 level from the Core
3. Have a GPA of 2.0

ENGL 101, 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.

Students transferring to a specific four year institution, please check the Transfer Agreements site for articulated pathways that identify required coursework.

Notation from the other side:

Students transferring to a specific four year institution, please check the Transfer Agreements site for articulated pathways that identify required coursework.

*  These courses are required for Data Science Certificate.

*** Prerequisite for MATH 217; if MATH 117 is taken to fulfill MATH Foundation, MATH 181 or MATH 150 or MATH 165 and MATH 181 should be taken as electives to complete MATH 217.

NOTES
