



**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](mailto:generalstudies@montgomerycollege.edu).

Requirements/Recommended courses		0-15 Credits
<b>ENGL 101/011</b>		<b>3</b>
<b>MATF</b>	Any MATF (MATH 117 required for Data Science Certificate)*	<b>3 or 4</b>
<b>BSSD</b>	Any BSSD**	<b>3</b>
<b>NSND/NSLD</b>	Any NSLD/NSND	<b>3 or 4</b>
<b>GEIR</b>	Any GEIR (COMM 108 or COMM 112 recommended)	<b>3</b>
<b>Total Credits</b>		<b>15-17</b>

Staying on track at 0-15 Credits	
<input checked="" type="checkbox"/>	Complete ENGL 101/011
<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
<b>ENGF</b>	ENGL 102 or ENGL 103	<b>3</b>
<b>STEM 1</b>	DATA 101 required for certificate*	<b>3</b>
<b>STEM 2</b>	DATA 110 required for Certificate*	<b>3</b>
<b>HUMD</b>	Any 200 level HUMD	<b>3</b>
<b>NSLD</b>	Any NSLD	<b>4</b>
<b>Total Credits</b>		<b>16</b>

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
<b>BSSD</b>	Any BSSD**	<b>3</b>
<b>STEM 3</b>	DATA 201 required for certificate*	<b>3</b>
<b>ARTD</b>	Any ARTD (GDES 116 or GDES 121 recommended)	<b>3</b>
<b>STEM 4</b>	MATH 165 or MATH 181 or MATH 217 or CMSC 140 recommended ***	<b>3</b>
<b>GEIR</b>	GEIR HLTH or ARTD or HUMD 200 level recommended	<b>3</b>
<b>Total Credits</b>		<b>15</b>

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

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](http://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.

**Mais Alraee** | Data Science Program Advisor | RV | mais.alraee@montgomerycollege.edu

**Christina Gentile** | Collegewide Chair of General Studies Program | RV | christina.gentile@montgomerycollege.edu

**Ingrid Scott** | Chair, Mathematics, Statistics, and Data Science Department | RV | ingrid.scott@montgomerycollege.edu

**Kimberly Fouche** | Chair, Department of Mathematics, Statistics, and Data Science | TP/SS | kimberly.fouche@montgomerycollege.edu

**Luc Desir** | Chair, Mathematics Statistics, and Data Science Department | GT | luc.desir@montgomerycollege.edu

## 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 101/011, 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

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