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 101/011		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

- ☑ Complete ENGL 101/011
- ☑ Complete Math Foundation
- ☑ Start Academic Plan
- ☑ 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

- ☑ Update Academic Plan
- ☑ Identify Program Advisor to work with
- ☑ Complete English Foundation
- ☑ Complete at least 3 credits at 200 level
- ☑ Complete at least one course from core
- ☑ Complete at least one of each Gen Ed Requirement (HUMD, ARTD, BSSD, NSLD/NSND, GEIR)
- ☑ Complete at least one internship or volunteer opportunity
- ☑ 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

- ☑ Update Academic Plan
- ☑ Complete all General Education Requirements
- ☑ Complete 5 credits of 200 level course work (9 credits by 45)
- ☑ Apply for transfer schools based on institution deadlines
- ☑ 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

- ☑ Complete 6 credits of 200 level course work (15 total required)
- ☑ 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.

Data Science Program Advisor | RV | data.science@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.

*** Prerequiste 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.

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