

Fall 2018
Bachelor of Science in Mathematics
Specialization in Data Science

BG Perspective (BGP) Requirements

Must complete at least 1 course in each of the following:

| | |
|---|---------|
| English Composition and Oral Communication Course | Credits |
| _____ | _____ |
| Quantitative Literacy | |
| _____ | _____ |

Must Complete at least 2 courses in each of the following:

| | |
|--------------------------------|-------|
| Humanities and the Arts | |
| _____ | _____ |
| _____ | _____ |
| Natural Sciences | |
| _____ | _____ |
| _____ | _____ |
| Social and Behavioral Sciences | |
| _____ | _____ |
| _____ | _____ |

Complete total required BGP credit hours by selecting courses from any of the above categories:

| | |
|-------|-------|
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |

University Requirements Designated courses in Humanities and the Arts and the Social and Behavioral Sciences domains may be used to fulfill both the BGP requirement and one of the following university requirements:

| | |
|------------------------------|-------|
| Cultural Diversity in the US | _____ |
| International Perspective | _____ |

Composition Requirement:

| | |
|--|-------|
| GSW 1120 Academic Writing | _____ |
| Total BGP Credits: Must be at least 36 | _____ |

Arts & Sciences Requirements

Foreign Language (____ yrs of HS____)

| | | |
|-------|-----------|-------|
| _____ | 1010 | _____ |
| _____ | 1020 | _____ |
| _____ | 2010 | _____ |
| _____ | 2020/2120 | _____ |

Lab Science

| | | |
|-------|-------|-------|
| _____ | _____ | _____ |
|-------|-------|-------|

Quantitative Literacy

| | | |
|-------|-------|---|
| _____ | _____ | EITHER MATH 1310 OR MATH 1340 & MATH 1350 |
|-------|-------|---|

Multidisciplinary Component Select from approved offerings, in consultation with an advisor and a faculty mentor. Four courses total, each with a different subject prefix. At least two courses at 3000/4000 level. Courses applied to the Arts & Sciences MDC may not be used to fulfill other Arts and Sciences degree requirements, nor may they be used to fulfill major, minor, BGP or other program requirements.

| | | |
|-------|-------|-------|
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |

Major Requirements (44-49 hours)

| Hrs | Grade | |
|-----|-------|---|
| 5-6 | _____ | MATH 1310 Calculus & Analytic Geometry I OR MATH 1340 Calculus & Analytic Geometry IA AND MATH 1350 Calculus & Analytic Geometry IB |
| 5 | _____ | MATH 2320 Calculus & Analytic Geometry II |
| 3-4 | _____ | MATH 2330 Calculus & Analytic Geometry III OR MATH 2350 Calculus & Analytic Geometry III with Vector Fields |
| 3 | _____ | CS 2010 Introduction to Programming |
| 1 | _____ | MATH 2960 Introduction to Data Science |
| 3 | _____ | MATH 3320 Elementary Linear Algebra |
| 3 | _____ | MATH 3430 Computing with Data |
| 3 | _____ | MATH 3440 Statistical Programming |
| 3 | _____ | MATH 4410 Probability & Statistics I |
| 3 | _____ | MATH 4440 Statistical Learning |
| 3 | _____ | STAT 4020 Regression Analysis |
| 3-6 | _____ | MATH 4900 Capstone Experience |

Choose 2 of the following courses: MATH 4320, MATH 4420, MATH 4470, CS 2020, STAT 4440, CS 4400, CS 4620

| | | |
|-------|-------|-------|
| _____ | _____ | _____ |
| _____ | _____ | _____ |

Capstone Experience (indicate SP, ST, HP, IN, REU, Other and Title)

Title: _____

Lab Science Sequence: Students must take an approved Arts & Sciences lab science sequence.

| | | |
|-------|-------|-------|
| _____ | _____ | _____ |
| _____ | _____ | _____ |

Minor Requirements (Usually 21 hours)

| | | |
|-------|-------|-------|
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |

Electives and Non-Credit Courses

| | | |
|-------|-------|-------|
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |

Name (Print First & Last Name)

BGSU ID#

Phone (Cell or Local Number)

For Graduation You Will Need:

1. 122 credit hours minimum.

In Progress/Completed _____ **Needed** _____

2. Minimum GPA 2.00.

Current GPA _____

3. At least 30 credit hours of BGSU course work.

In Progress/Completed _____ **Needed** _____

4. 40 credit hours at the 3000/4000 level.

In Progress/Completed _____ **Needed** _____

5. Completion of all degree requirements, including the BG Perspective Core.

In Progress/Completed _____ **Needed** _____

6. A major, and if required, a minor, specialization or emphasis.

Declared with the College Office **Yes** **No**

Any substitution or waiver of courses required for your major or minor program must originate in the department/school offering the major or minor and must be approved by the College Office.

To ensure a timely graduation, see a **College Advisor** during the semester prior to your intended graduation.

Remember to complete an **Application for Graduation** by the end of the second week of classes during the fall semester or spring regular session, or by the end of the first week of the summer semester. For the specific dates, check your DARS. You may log onto MyBGSU to complete the online application. After the deadlines, you will need to complete an application in person in the College Office.