

**Fall 2022**  
**Bachelor of Science in Mathematics**  
**Specialization in Actuarial 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 - at least one Lab Science required	
_____	_____
_____	_____
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:**

WRIT 1120 Research Writing	_____
Total BGP Credits: Must be at least 36	_____

**Arts & Sciences Requirements**

**World Languages and Cultures** (\_\_\_\_ yrs of HS\_\_\_\_)  
 Consult the Undergraduate Catalog or the Arts and Sciences Student Handbook regarding approved course options in the different language and culture areas.

_____	1010	_____
_____	1020	_____
_____		_____
_____		_____

**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** (43-44 Hrs.; 2.0 GPA in courses listed below)

Hrs	Grade	
5	_____	MATH 1310 Calculus & Analytic Geometry I (QL)
5	_____	MATH 2320 Calculus & Analytic Geometry II
3	_____	MATH 2330 Calculus & Analytic Geometry III OR
4	_____	MATH 2350 Calculus & Analytic Geometry III with Vector Fields
3	_____	MATH 3220 Discrete Mathematics
3	_____	MATH 3320 Elementary Linear Algebra
3	_____	MATH 4250 Theory of Interest
3	_____	MATH 4260 Actuarial Mathematics I
3	_____	MATH 4270 Actuarial Mathematics II
3	_____	MATH 4320 Linear Algebra w/ Applications
3	_____	MATH 4410 Probability & Statistics I
3	_____	MATH 4420 Probability & Statistics II

Select **two** courses from:

3	_____	MATH 4440 Statistical Learning <b>OR</b>
3	_____	MATH 4450 Applied Probability <b>OR</b>
		MATH 4470 Exploratory Data Analysis <b>OR</b>
		STAT 4160 Time Series Analysis

Note: The MATH 1310 requirement may be met by taking MATH 1340-1350.

**Suggested electives for this program are ACCT 2220, FIN 3500.**

**Additional Requirements**

3	_____	CS 1010 Introduction to Programming <b>OR</b>
		CS 2010 Introduction to Object-Oriented Programming
3	_____	ECON 2020 Principles of Microeconomics
3	_____	ECON 2030 Principles of Macroeconomics
3	_____	STAT 4020 Regression Analysis
3	_____	ACCT 2210 Accounting & Business Concepts I
3	_____	FIN 3000 Business Finance

Arrangements have been made to waive the stated prerequisites to FIN 4200. The economics courses may be counted toward the social sciences requirement. It is essential that students consult with the program advisor on a regular basis.

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

_____	_____	_____
_____	_____	_____

**No minor is required**

**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.