Spring 2020
Bachelor of Science in Mathematics
Specialization in Actuarial Science

COLLEGE OF **Arts** and
BGSU. | **Sciences**
BOWLING GREEN STATE UNIVERSITY
205 Administration Building • 419-372-2015

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

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 (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 **OR**
3	_____	MATH 4450 Applied Probability **OR**
		MATH 4470 Exploratory Data Analysis **OR**
		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 **OR**
		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 <u>must</u> originate in the department/school offering the major or minor and <u>must</u> 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.