STATISTICS-BA OR BS WITH ACTUARIAL SCIENCES EMPHASIS

THIS IS A **GENERAL** CURRICULUM GUIDE AND IS NOT APPLICABLE TO EVERY STUDENT. IT IS IMPORTANT TO MEET WITH YOUR ADVISOR.

THIS GUIDE ASSUMES FULFILLMENT OF THE MTH 110 REQUIREMENT

Year One			
MTH 124 Precalculus: Functions and Models [GE Math] Prerequisite: MTH 110 or proficiency through math placement **SEE NOTE BELOW REGARDING OPTIONS FOR THIS COURSE**	5	MTH 201 Calculus I Prerequisites: MTH 122 and MTH 123 or proficiency through math placement	4
		STA 215 Introductory Applied Statistics Prerequisite: MTH 110 or equivalent	3
Gen Ed [GE Historical Analysis] or [1]WRT 120 (self-placement)	3	Gen Ed [GE Life Science] or Language (if BA)	3/4
Gen Ed [GE Social/Behavioral] or Language (if BA)	3/4	[1]WRT 130 or 150 [GE Writing]	3/4
Gen Ed [GE Physical Science]	3	[2]Elective (if necessary)	1-2
[2]Elective (if necessary)	1		
Total	*15*	*Total*	*15*
Year Two			
MTH 202 Calculus II Prerequisites: MTH 201	4	**MTH 204** Linear Algebra I Prerequisites: MTH 122 and 123; or MTH 124; or proficiency through math placement	3
STA 216 Intermediate Applied Statistics Prerequisite: STA 215 or STA 312	3	CIS 161 Computational Science (prerequisite MTH 201) OR CIS 160 Learn to Code in Python OR CIS 162 Computer Science I Prerequisite: MTH 110	3/4
Gen Ed or Language (if BA)	3/4		
CIS 231 Problem Solving Using Spreadsheets	3	ECO 211 Introductory Microeconomics	3
[2]Elective	1-2	Gen Ed [GE Philosophy and Literature]	3
		[2]Elective	3
Total	*14/15*	*Total*	*15/16**
Year Three			
STA 321 Applied Regression (Prereq: STA 216)	3	STA 311 Introduction to Survey Sampling (Prereq: STA 216)	3
STA 318 Statistical Computing (Prereq: STA 215) **OR**	3	Application Cognate – see page 2 for requirements	3
STA 418 Statistical Computing w/R Prereq: STA 215 or STA 220 or STA 312 AND STA 216 or CIS 162		Application Cognate – see page 2 for requirements	3
		Gen Ed [GE US Diversity]	3
ECO 210 Introductory Macroeconomics [GE Social/Behavioral]	3	Issue	3
Gen Ed [GE Global Perspectives]	3		
Issue	3		
Total	*15*	*Total*	*15*
Year Four			
STA 412 Mathematical Statistics I Prerequisites: STA 215 or STA 312, and MTH 202	4	[3]STA 419 Statistics Project **(SWS)** Prerequisite: Prerequisites: Gen Ed Foundations – Writing, STA 216, and 2 of STA 301, STA 310, STA 311, STA 314, STA 315, STA 317, STA 318, and STA 321.	3
Application Cognate – see page 2 for requirements	3		
Application Cognate – see page 2 for requirements	3	STA 415 Mathematical Statistics II (Capstone) Prerequisites: STA 412 and MTH 204	4
Gen Ed [GE Art]	3	STA 425 Actuarial Probability and Statistics Prerequisite: STA 412	3
[2]Elective	1-2	[2]Elective	1-2
Total	*14/15*	*Total*	*14/15*

It is imperative to meet with your faculty advisor and an advisor in the CLAS Academic Advising Center regularly.
The CLAS Academic Advising Center is located in C-1-140 MAK, 616-331-8585.
Online at: http://www.gvsu.edu/clasadvising

Notes and Recommendations:
MTH 124 is designed for calculus-bound students as a replacement for MTH 122 & 123. While students can still fulfill the MTH 201 prerequisite by taking MTH 122 & 123, MTH 124 is strongly recommended.
* The block tuition rate is for 12-15 credits. You will pay additional tuition for any credits over 15.
[1] Students who self-place into WRT 120 should take this course in the fall semester and then take WRT 130 in the winter semester of their first year. Students who self-place into WRT 150 can take in either semester during their first year. Students will not need to take WRT 150 if they have earned credit for the course through AP/Dual Enrollment. A grade of C or better is required in WRT 130 or 150 in order to satisfy the WRT requirement at GVSU.
[2] Elective refers to any course to help you earn the required 120 credits to graduate.
[3] Students must complete a total of two courses with an SWS attribute. One SWS course should be outside the major.

Students who are interested in taking the first actuarial exams between third and fourth year, should consult with their Statistics faculty advisor to determine appropriate courses to take in the third year in preparation for the exams.

Bachelor of Arts/Bachelor of Science Degree Requirements
Statistics students can pursue a Bachelor of Arts or Bachelor of Science degree. Students who wish to obtain a BA must fulfill 3rd semester proficiency in a foreign language (201 level). The BS requirements are incorporated into the major requirements and include CIS 160, 161 or 162, MTH 201, and MTH 202.

To earn a degree from GVSU, all students must complete the following: 120 total credits, all major/minor requirements, all general education requirements, at least 58 credits from a 4-year institution, and the last 30 credits of the degree completed through GVSU.

Declaring the Statistics Major:
1. Log into myBanner from the GVSU homepage
2. Once logged in, select "Student," "Student Records," and then "Change Major"
3. Click on the "Change Major 1/Program" box
4. Click on the down arrow in the box next to "New Major 1/Program"
5. From here scroll down and choose "Statistics-Actuarial Emphasis-BA **OR** BS" depending on your degree.
6. Click "Submit" and then click "Change to New Program"

General Education Overlap

General Education Categories fulfilled by the Statistics Major:
Mathematical Sciences: MTH 122 or MTH 123 or MTH 124 or MTH 201 or STA 215
Social Behavioral Sciences: option of ECO 210 or ECO 211 (for Actuarial Science Emphasis)

Application Cognates **All Students Must Complete 15 – 18 Credit Hours**
ACC 212 – Principles of Financial Accounting (3)
FIN 320 – Managerial Finance (3)   Prerequisite: ACC 212, CIS 221 or CIS 231, and MTH 110 or 122 or 201 – Permit Required
FIN 321 – Investments (3)   Prerequisite: FIN 320 and STA 215 – Permit Required
FIN 331 – Risk and Insurance (3)   Prerequisite: Junior Standing – Permit Required
Choose one Economics Option from:
ECO 200 – Business Economics (3) Prerequisite: MTH 110, 122 or 201 and sophomore standing
OR Both
ECO 210 – Introductory Macroeconomics (3) Prerequisite: MTH 110, 122 or 201 and sophomore standing
AND
ECO 211 – Introductory Microeconomics (3) Prerequisite: MTH 110, 122 or 201 and sophomore standing