## Bloomsburg University - Department of Mathematics, Computer Science and Statistics Bachelor of Arts in Mathematics - Statistics

Mathematics BA Statistics Requirements   50	Courses	Cr.	Taken:	Courses	Cr.	Taken:
Sal 126 Calculus	Mathematics BA Statistics Requirements	50		Quantitative - 0 Additional Credits		
13.126 calculus   1   3   3   3   53.185 Discrete Mathematics   3   3   53.185 Discrete Mathematics   3   3   53.185 Discrete Mathematics   3   3   2   1   1   53.241 Probability & Statistics   3   2   1   1   53.241 Probability & Statistics   3   2   1   1   53.341 Linear Algebra   3   3   53.341 Linear Algebra   3   3   53.341 Linear Algebra   3   3   53.342 Design & Analysis of Experiments   3   2   3   3   3   3   3   3   3   3	53.141 Introduction to Statistics	3		Satisfied by Major requirement 53.126		
Sa. 185 Discrete Mathematics   3	53.125 Calculus I	3		Values <sup>2</sup> - 3 Credits		
53.240 Statistical Methods	53.126 Calculus II	3		_1)	3	
1	53.185 Discrete Mathematics	3		Fitness - 2 Credits		
Sa.241 Probability & Stalistics   3   2   3   Group A (Humanities) <sup>2</sup> - 9 Additional Credits   1   Satisfied by Communications or Values Course   5.3.342 Design & Analysis of Experiments   3   2   3   3   3   3   3   3   3   3	53.240 Statistical Methods	3		_1)	1	
10   Satisfied by Communications or Values Course   3   Satisfied by Course   3   Satisfied by Communications or Values Course   3   Satisfied by Communications or Values Course   3   Satisfied by Course   3	53.241 Probability & Statistics	3			1	
53.342 Design & Analysis of Experiments   3   2   3   3   3   5   5   3   4   3   5   5   3   4   3   5   5   3   4   3   5   5   3   4   4   5   5   5   5   5   5   5   5	53.314 Linear Algebra	3		Group A (Humanities) <sup>2</sup> - 9 Additional Credits		
53.413 Applied Regression Analysis   3   3   3   3   3   3   3   5   5   4   1   5   5   4   1   5   5   5   5   5   5   5   5   5	53.340 Statistical Software	3		1) Satisfied by Communications or Values Course		
53.413 Applied Regression Analysis   3   3   3   3   3   3   3   5   5   4   10   5   5   5   10   5   5   5   5   5   5   5   5   5	53.342 Design & Analysis of Experiments	3		2)	3	
Sacredits minimum in a discipline to which Statistics is applied.   1   2   3   3   3   3   3   3   3   3   3	53.343 Applied Regression Analysis	3	' <u> </u>	•	3	
1) 3 1) 3 2) 3 2) 3 3 2) 3 3 3 3 3 3 3 3 3 3 3					3	
2	Mathematics Electives (53.225 or above):			Group B (Social Sciences) <sup>2</sup> - 12 Credits		
2)   3   2)   3   3   3   3   3   3   3   3   3	1)	_ 3		_1)	3	
Select one Computer Science Sequence (6 to 8 Credits*): 8         4)         3           Option A1) 56. 121 Object-Oriented Progr with Java (4 cr)         Group C (Nat. Sci. & Math) - 6 Additional Credits           Option A2) 56. 122 Graphical User Interfaces in Java (4 cr)         1) Satisfied by major requirement 53.125           Option B1) 56. 123 Visual Basic I (3)         3           Option B2) 56.223 Visual Basic II (3)         4)           Six credits minimum in a discipline to which Statistics is applied.         1)           Consult Advisor; may be applied to Gen Ed distribution requirement.         2)           Giology, Economics, Geology, Geography, Psychology)         3         4)           3)         3         4)           4)         3         4           5)         3         4           6)         3         3           6)         3         3           7)         3         4           1)         3         4           2)         4         7)           Communication² - 9 Credits         8         9)         4           1)         20.101 Composition 1         3         9)         4           2)         20 all level Writing Course:         3         10           3)	2)	3			3	
Select one Computer Science Sequence (6 to 8 Credits*): 8         4)         3           Option A1) 56. 121 Object-Oriented Progr with Java (4 cr)         Group C (Nat. Sci. & Math) - 6 Additional Credits           Option A2) 56. 122 Graphical User Interfaces in Java (4 cr)         1) Satisfied by major requirement 53.125           Option B1) 56. 123 Visual Basic I (3)         3           Option B2) 56.223 Visual Basic II (3)         4)           Six credits minimum in a discipline to which Statistics is applied.         1)           Consult Advisor; may be applied to Gen Ed distribution requirement.         2)           Giology, Economics, Geology, Geography, Psychology)         3         4)           3)         3         4)           4)         3         4           5)         3         4           6)         3         3           6)         3         3           7)         3         4           1)         3         4           2)         4         7)           Communication² - 9 Credits         8         9)         4           1)         20.101 Composition 1         3         9)         4           2)         20 all level Writing Course:         3         10           3)			' <u> </u>	3)	3	
Option A2) 56.122 Graphical User Interfaces in Java (4 cr) or other 300 or higher 56 course (3 to 4 credits)  Option B1) 56.123 Visual Basic I (3) Option B2) 56.223 Visual Basic II (3)  Six credits minimum in a discipline to which Statistics is applied.  Consult Advisor; may be applied to Gen Ed distribution requirement.  (Biology, Economics, Geology, Geography, Psychology) 1) 3 4) 2)  General Education - Total Additional Credits: 41 7) Communication² - 9 Credits 1) 2) 20 101 Composition 1 2) 20 101 Composition 1 3) 100 3) Note 1: Total Free Electives will depend on Major Elective Choices. Note 2: One Communications or Values course counts as Group A or B. Note 3: If 09.100 not taken, then take additional Free Elective Credit.  1) Satisfied by major requirement 53.125 2) Satisfied by major requirement 53.185 2) Satisfied by adjoration for page from the factive folios.  1) Satisfied prequirement 53.185 2) Satisfied by adjoration for page from the factive folios of page from the factive folios of page from t	Select one Computer Science Sequence (6 to 8 Credits 1):	8			3	
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Option B1) 56.123 Visual Basic I (3)         3         3           Option B2) 56.223 Visual Basic II (3)         4)         3           Free Electives¹         28           Six credits minimum in a discipline to which Statistics is applied.         1)         3           Consult Advisor; may be applied to Gen Ed distribution requirement.         2)         3           (Biology, Economics, Geology, Geography, Psychology)         3         4)         3           1)         3         4)         3         3           2)         3         5)         3         3           2)         3         5)         3         3           20         4         7)         3         4           Communication² - 9 Credits         8)         3         3           1) 20.101 Composition 1         3         9)         4         4           2) 2nd level Writing Course:         3         10)         4         2           2) 2nd level Writing Course:         3         11)         Note 1: Total Free Electives will depend on Major Elective Choices.         Optional 09.100 University Seminar³         1         1           Note 2: One Communications or Values course counts as Group A or B.         TOTAL CREDITS FOR PROGRAM         120	Option A2) 56.122 Graphical User Interfaces in Java (4 cr)			1) Satisfied by major requirement 53.125		
Option B2) 56.223 Visual Basic II (3)       4)       3       28         Free Electives¹       28         Six credits minimum in a discipline to which Statistics is applied.       1)       3       3         Consult Advisor; may be applied to Gen Ed distribution requirement.       2)       3       3       3         (Biology, Economics, Geology, Geography, Psychology)       3       4)       3       3         1)       3       4)       3       3         2)       3       5)       3       3         2)       3       5)       3       3         3       6)       3       3         4       7)       3       3         5       8)       3       3         1) 20.101 Composition 1       3       9       4         2) 2nd level Writing Course:       3       10)         3)       11)         Note 1: Total Free Electives will depend on Major Elective Choices.       Optional 09.100 University Seminar³       1         Note 2: One Communications or Values course counts as Group A or B.       TOTAL CREDITS FOR PROGRAM       120         Note 3: If 09.100 not taken, then take additional Free Elective Credit.       Two Approved Div	or other 300 or higher 56 course (3 to 4 credits)			2) Satisfied by major requirement 53.185		
Six credits minimum in a discipline to which Statistics is applied.  Consult Advisor; may be applied to Gen Ed distribution requirement.  (Biology, Economics, Geology, Geography, Psychology)  3	Option B1) 56.123 Visual Basic I (3)			3)	3	
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1)       3       4)       3       3         2)       3       5)       3         6)       3       3         6)       3       3         Communication² - 9 Credits       8)       3         1) 20.101 Composition 1       3       9)       4         2) 2nd level Writing Course:       3       10)         3)       11)         Note 1: Total Free Electives will depend on Major Elective Choices.       Optional 09.100 University Seminar³       1         Note 2: One Communications or Values course counts as Group A or B.       TOTAL CREDITS FOR PROGRAM       120         Note 3: If 09.100 not taken, then take additional Free Elective Credit.       Two Approved Diversity Courses⁴	Consult Advisor; may be applied to Gen Ed distribution requirement.		nt.	2)	3	
2)   3   5   6   3   6   6   6   6   6   6   6   6	(Biology, Economics, Geology, Geography, Psychology)			3)	3	
2) 5) 3 5) 3 3 6) 6) 3 3 5 6) 6) 3 3 5 6) 6) 7 5 6) 7 7 7 7 8 7 8 7 8 7 8 7 8 7 8 8 8 7 8	1)	3		4)	3	
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3 11)  Note 1: Total Free Electives will depend on Major Elective Choices.  Note 2: One Communications or Values course counts as Group A or B.  Note 3: If 09.100 not taken, then take additional Free Elective Credit.  3 11)  Optional 09.100 University Seminar³  1 1  TOTAL CREDITS FOR PROGRAM  120  Two Approved Diversity Courses⁴	•	3		10)		
Note 2: One Communications or Values course counts as Group A or B.  Note 3: If 09.100 not taken, then take additional Free Elective Credit.  TOTAL CREDITS FOR PROGRAM Two Approved Diversity Courses <sup>4</sup>				•		
Note 3: If 09.100 not taken, then take additional Free Elective Credit.  Two Approved Diversity Courses <sup>4</sup>	Note 1: Total Free Electives will depend on Major Elective Choices.				1	
	Note 2: One Communications or Values course counts as Group A or B.			TOTAL CREDITS FOR PROGRAM	120	
Note 4: Two Major, General Ed. or Elective Courses selected must also 1)	Note 3: If 09.100 not taken, then take additional Free Elective Credit.			Two Approved Diversity Courses <sup>4</sup>		
	Note 4: Two Major, General Ed. or Elective Courses selected must also			1)		