PURDUE UNIVERSITY

Applied Statistics
College of Science

STAT-BS
Code-STAP

Departmental/Program Major Courses (60-89 credits)

Required Major Courses (28-30 credits): Average GPA in courses must be 2.00 excluding Calculus III Selective

_____ (4-5) Calculus III Selective – Select from MA 26100, MA 27101 ***(satisfies Quantitative Reasoning for core)*** **Grade of C or Better Required**
_____ (3) MA 35100 Elementary Linear Algebra
_____ (3) STAT 35000 Introduction To Statistics ***(satisfies Statistics Requirement)***
_____ (3) MA 36200 Topics In Vector Calculus or STAT 42000 - Introduction To Time Series
_____ (3) MA or STAT 41600 – Probability or STAT 51600 - Basic Probability And Applications
(3) STAT 41700 - Statistical Theory or STAT 51700 - Statistical Inference
_____ (6-7) Applied STAT Selective: STAT 51300 - Statistical Quality Control/STAT 51400 - Design Of Experiments/STAT 42000 - Introduction To Time Series/STAT 47201 - Actuarial Models- Life Contingencies/STAT 47301 - Introduction To Arbitrage-Free Pricing Of Financial Derivatives/STAT 50600 - Statistical Programming And Data Management/STAT 52200 - Sampling And Survey Techniques
_____ (3) STAT 51200 Applied Regression Analysis

Other Departmental /Program Course Requirements (32-59 credits)

(4-5) Calculus I Selective – Select from MA 16100, MA 16500 ***(satisfies Quantitative Reasoning for core)*** **Grade of C or Better Required**
_____ (4-5) Calculus II Selective – Select from MA 16200, MA 16600 ***(satisfies Quantitative Reasoning for core)*** **Grade of C or Better Required**
_____ (3-4) ENGL 10600 or ENGL 10800 - ***(satisfies Written Communication and Information Literacy for core)***
_____ (0-4) Language I Selective –LINK
_____ (0-4) Language II Selective – LINK
_____ (0-4) Language and Culture III Selective –*LINK* ***(Select courses COULD satisfy Human Cultures Humanities for core)***
_____ (0-3) Technical Writing Selective LINK ***(Select courses COULD satisfy Oral Communication for core)***
_____ (0-3) Technical Presenting Selective LINK ***(Select courses COULD satisfy Oral Communication for core)***
_____ (3-4) Laboratory Science I Selective LINK ***(satisfies Science Selective for core)***
_____ (3-4) Laboratory Science II Selective LINK ***(satisfies Science Selective for core)***
_____ (3) General Education I Selective LINK ***(Select courses COULD satisfy Human Culture Behavioral/Social Science for core)***
_____ (3) General Education II Selective LINK ***(Select courses COULD satisfy Human Culture Behavioral/Social Science for core)***
_____ (3) General Education III Selective LINK ***(Select courses COULD satisfy Human Culture Behavioral/Social Science for core)***
_____ Within major STAT 35000 Introduction To Statistics
_____ (3-4) Computing Selective LINK
_____ (0) Teambuilding Experience LINK
_____ (0-3) Multidisciplinary Experience LINK ***(Select courses COULD satisfies Science, Technology, and Society Selective for core)***
_____ (3) Great Issues Selective LINK

Electives (31-60 credits)

_____ ( ) _____ _____ ( ) _____ _____ ( ) _____ _____ ( ) _____
_____ ( ) _____ _____ ( ) _____ _____ ( ) _____ _____ ( ) _____

University Core Requirements LINK

Human Cultures Humanities	☐ _____	*Science, Technology & Society Selective*	☐ _____
Human Cultures Behavioral/Social Science	☐ _____	*Written Communication*	☐ _____
Information Literacy	☐ _____	*Oral Communication*	☐ _____
Science Selective	☐ _____	*Quantitative Reasoning*	☐ _____
Science Selective	☐ _____		

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The student is ultimately responsible for knowing and completing all degree requirements.

Degree Works is knowledge source for specific requirements and completion

Applied Statistics

http://www.science.purdue.edu/Current_Students/majors/index.html

Suggested Arrangement of Courses:

Credits	**Fall 1st Year**	**Prerequisite**	Credits	**Spring 1st Year**	**Prerequisite**
4-5	Calculus I Selective	ALEKS 85	4-5	Calculus II Selective	Calculus I
3-4	ENGL 10600 First-Year Composition		3-4	Computing Selective	
3-4	Language I Selective		3-4	Language II Selective	Language 10100
2	Free Elective		0	Teambuilding Experience	
3	Free Elective		3	Free Elective	
			2	Free Elective	
15-18			**15-18**		

Credits	**Fall 2nd Year**	**Prerequisite**	Credits	**Spring 2nd Year**	**Prerequisite**
4-5	Calculus III Selective	Calculus II	3	MA 35100 Elementary Linear Algebra	Calculus III
3	General Education I Selective		3	STAT 35000 Introduction To Statistics	Calculus II
3-4	Language Selective III	See Course Info	3	COM 21700 Science Writing & Presentation	
5	Free Elective		6	Free Elective	
15-17			**15**		

Credits	**Fall 3rd Year**	**Prerequisite**	Credits	**Spring 3rd Year**	**Prerequisite**
3	MA 36200 or STAT 42000	Varies by Class	3	STAT 41700 Statistical Theory	STAT 41600
3	MA/STAT 41600 Probability	Calculus III	3-4	Applied STAT Selective	Varies by Class
3-4	Laboratory Science I Selective		3-4	Laboratory Science II Selective	Lab Sci Selective I
3	Free Elective		6	Free Elective	
3	Free Elective				
15-16			**15-17**		

Credits	**Fall 4th Year**	**Prerequisite**	Credits	**Spring 4th Year**	**Prerequisite**
3	STAT 51200 Applied Regression Analysis	STAT 35000	3	Applied STAT Selective	Varies by Class
3	General Education II Selective		3	General Education III Selective	
0-4	Multidisciplinary Experience		3	Great Issues Selective	Jr/Sr Standing; may require COM or ENGL
9	Free Elective/ Science, Technology & Society Selective Course		6	Free Elective	
15-18			**15**		

Identified as a critical course. Student should earn minimum of a C.

Students must earn a 2.0 average in MATH/STAT courses required for major. Calculus I, II, and III must have a grade of C or higher.

120 semester credits required for Bachelor of Science degree.

2.0 Graduation GPA required for Bachelor of Science degree.

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