PURDUE UNIVERSITY

Statistics Honors
College of Science

STAT-BS
Code-STHO
120 Credits

Departmental/Program Major Courses (69-99 credits)

Required Major Courses (42-46 credits): Average GPA in courses must be 2.00 excluding Calculus I, II and III. An Average GPA in MA 44000, 44200, 45000, STAT 51600, or STAT 51700 must be 3.5 or higher – must take **three** of these five courses*.

- (4-5) Calculus I Option – Select from MA 16100, MA 16500 *(satisfies Quantitative Reasoning for core)* CC
- (4-5) Calculus II Option – Select from MA 16200, MA 16600 *(satisfies Quantitative Reasoning for core)*
- (4-5) Calculus III Option – Select from MA 26100, MA 27101 *(satisfies Quantitative Reasoning for core)* **Grade of C or Better Required**
- (3) MA 35100 Elementary Linear Algebra CC **Grade of C or Better Required**
- (3) STAT 35000 Introduction To Statistics *(satisfies Statistics Requirement)*
- (3) MA 34100 Foundations Of Analysis or **MA 44000 Real Analysis Honors***
- (3) MA or STAT 41600 – Probability or **STAT 51600 - Basic Probability And Applications***CC
- (3) Advance Calculus Selective: MA 36200 Topics In Vector Calculus/**MA 44200 - Multivariate Analysis I Honors***/MA 51000 - Vector Calculus
- (3) STAT 41700 - Statistical Theory or **STAT 51700 - Statistical Inference***
- (3-4) Advanced MA Selective: MA 36600 Ordinary Differential Equations/MA 37500 - Introduction To Discrete Mathematics/MA 42100 - Linear Programming And Optimization Techniques/MA 42500 - Elements Of Complex Analysis/MA 42800 - Introduction To Fourier Analysis/MA 45300 - Elements Of Algebra I **or MA 45000 - Algebra Honors***/MA 52000 - Boundary Value Problems Of Differential Equations [check with advisor for additional approved courses]
- (3) STAT 51200 Applied Regression Analysis
- (3) MA 35300 Linear Algebra II With Applications
- (3) STAT Selective: STAT 51300 - Statistical Quality Control/STAT 51400 - Design Of Experiments/STAT 42000 - Introduction To Time Series, IE 53000 - Quality Control

Other Departmental /Program Course Requirements (27-53 credits)

- ^{Met within major} Calculus I Option – Select from MA 16100, MA 16500 *(satisfies Quantitative Reasoning for core)* CC
- ^{Met within major} Calculus II Option – Select from MA 16200, MA 16600 *(satisfies Quantitative Reasoning for core)*
- (3-4) ENGL 10600 or ENGL 10800 - *(satisfies Written Communication and Information Literacy for core)*
- (0-4) Language I Option* – *(Select courses COULD satisfy Human Cultures Humanities for core)*
- (0-4) Language II Option* – *(Select courses COULD satisfy Human Cultures Humanities for core)*
- (0-4) Language III/Culture/Diversity Option* – *(Select courses COULD satisfy Human Cultures Humanities for core)*
- (3-6) Technical Writing Option and Technical Presenting Option *(Select courses COULD satisfy Oral Communication for core)*
- (3-4) Laboratory Science I Option *(satisfies Science Selective for core)*
- (3-4) Laboratory Science II Option *(satisfies Science Selective for core)*
- (3) General Education I Option *(Select courses COULD satisfy Human Culture Behavioral/Social Science or Humanities for core)*
- (3) General Education II Option *(Select courses COULD satisfy Human Culture Behavioral/Social Science or Humanities for core)*
- (3) General Education II Option *(Select courses COULD satisfy Human Culture Behavioral/Social Science or Humanities for core)*
- ^{Met within major} STAT 35000 Introduction To Statistics
- (3-4) Computing Option
- (0-4) Teambuilding and Collaboration Experience*
- (3) Great Issues Option
- (0-3) Multidisciplinary Experience* *(Select courses COULD satisfies Science, Technology, and Society Selective for core)*

*Requirement may be met with a zero credit experiential learning option. See your advisor for more information

Electives (21-51 credits)

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

University Core Requirements

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

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

(Degree Works) MyPurduePlan is knowledge source for specific requirements and completion

Suggested Arrangement of Courses:

Credits	Fall 1st Year	Prerequisite	Credits	Spring 1st Year	Prerequisite
4-5	Calculus I Option	ALEKS 85	4-5	Calculus II Option	Calculus I C- or higher
3-4	ENGL 10600/10800		3-4	Computing Option (rec CS 17700 & meets Teambuilding and Collaboration Experience)	
3-4	Language I Option		3-4	Language II Option	Language 10100
1	Free Elective (STAT 19000 First Year Statistics Seminar)				
4	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 Option ^{CC}	Calculus II C- or higher	3	MA 35100 Elementary Linear Algebra	Calculus III C- or higher
3	General Education I Option		3	STAT 35000 Introduction To Statistics	Calculus II C- or higher
3-4	Language III/Culture/Diversity Option	See Course Info	3-6	Technical Writing Option and Technical Presenting Option (COM 21700)	
3	Free Elective (MA 30100)	Calculus II C- or higher	0-3	Free Elective	
2	Free Elective		3	Free Elective	
15-17			**15**		

Credits	Fall 3rd Year	Prerequisite	Credits	Spring 3rd Year	Prerequisite
3	MA 34100 or **MA 44000***	Calculus III C- or higher	3	Advance Calculus Selective – MA 36200 or **MA 44200***	Varies by Class
3	MA/STAT 41600 or **STAT 51600*** ^{CC}	Calculus III C- or higher	3	STAT 41700 or **STAT 51700***	C- or higher Stat 41600/35000 **STAT 51600**
3-4	Laboratory Science I Option		3-4	Laboratory Science II Option	Lab Sci Option I
3	Free Elective		3	Free Elective	
3	Free Elective		3	Free Elective	
15-16			**15-16**		

Credits	Fall 4th Year	Prerequisite	Credits	Spring 4th Year	Prerequisite
3	MA 35300 Linear Algebra II With Applications	MA 35100 C- or higher	3-4	Advanced MA Selective - **MA 45000***	Varies by Class
3	STAT 51200 Applied Regression Analysis	STAT 35000 or STAT 41700 C- or higher	3	STAT Selective	Varies by Class
3	General Education II Option		3	General Education III Option	
0-3	Multidisciplinary Experience		3	Free Elective	
3-6	Free Elective (Science, Technology & Society Selective Course)		3	Great Issues Option	Jr/Sr Standing; may require COM or ENGL
15-18			**15-16**		

^{CC} Identified as a critical course. Student should earn minimum of a C.

Courses in ( ) are recommended.

Students must earn a 2.0 average in MATH/STAT/IE courses required for major AND Average GPA in MA 44000, 44200, 45000, STAT 51600, or STAT 41700 must be 3.5 or higher – must take t**hree** of these five courses*. Calculus I, II, III and MA 35100 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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