

## Applied Statistics & Actuarial Science—BS Program

### Study Abroad Pathway – Option 2

(last revised September 2016)

**Table 1a: Undergraduate Program Schedule**

*These undergraduate program schedules are subject to change.*

*Please verify information with your academic advisor and/or School representative before planning your study abroad trip.*

Term: FALL 1		Check course classification (s)				
Course Number & Title	CR	LAS	Maj	New	Prerequisite(s)	
MATH-199 Mathematics and Statistics Seminar	1		1			
MATH-181 Project-Based Calculus I (P7)	4	4				
CSCI-101 Principles of Computing	3	3				
LAS (P3)	3	3				
LAS (P1)	3	3				
Term credit total:		14	13	1		
Term: FALL 2 – Study Abroad		Check course classification (s)				
Course Number & Title	CR	LAS	Maj	New	Prerequisite(s)	
MATH-221 Multivariable and Vector Calculus	4	4			MATH-182	
MATH-251 Probability and Statistics I	3		3		MATH-182	
Open Elective 1	3					
LAS Elective 2	3	3				
LAS Elective 1	3	3				
Term credit total:		16	10	3		
Term: FALL 3 – STUDY ABROAD		Check course classification (s)				
Course Number & Title	CR	LAS	Maj	New	Prerequisite(s)	
LAS elective 3	3	3				
Program Elective 2	3		3			
Program Elective 1	3		3			
LAS (Immersion 1)	3	3				
LAS elective 4	3	3				
Term credit total:		15	9	6		
Term: SPRING 1		Check course classification (s)				
Course Number & Title	CR	LAS	Maj	New	Prerequisite(s)	
MATH-182 Project-Based Calculus II (P8)	4	4			MATH-181	
Science I LAS (P5)	4	4				
LAS (P2)	3	3				
First-Year Writing (WI)	3	3				
Term credit total:		14	14	0		
Term: SPRING 2		Check course classification (s)				
Course Number & Title	CR	LAS	Maj	New	Prerequisite(s)	
MATH-241 Linear Algebra I	3		3		MATH-221	
MATH-252 Probability and Statistics II	3		3		MATH-251	
MATH-200 Discrete Mathematics and Introduction to Proof	3		3		MATH-182	
Science II LAS (P6)	4	4			Science I	
LAS (P4)	3	3				
Term credit total:		16	7	9		
Term: SPRING 3		Check course classification (s)				
Course Number & Title	CR	LAS	Maj	New	Prerequisite(s)	
STAT-305 Regression Analysis	3		3		MATH-241, -252	
MATH-255 Actuarial Mathematics	2		2		MATH-251	
MATH-261 Topics in Math Finance	3		3		MATH-221, -145	
LAS (Immersion 2)	3	3				
LAS (Immersion 3)	3	3				
Open elective 2	3					
MATH-399 Math/Stat Job Seminar	0		0			
Term credit total:		17	6	8		

Term: FALL 4		Check course classification (s)					Term: SPRING 4		Check course classification (s)				
Course Number & Title	CR	LAS	Maj	New	Prerequisite(s)	Course Number & Title	CR	LAS	Maj	New	Prerequisite(s)		
STAT-405 Mathematical Statistics I	3		3		MATH-252	STAT-406 Mathematical Statistics II	3		3		STAT- 405		
STAT-325 Design of Experiments (WI)	3		3		MATH-252	STAT-500 Senior Capstone in Statistics	3		3		STAT-305, -325		
STAT-511 Statistical Software	3		3		MATH-252	Program Elective 5	3		3				
Program Elective 3	3		3			Program Elective 6	3		3				
Program Elective 4	3		3			LAS elective 5	3	3					
Term credit total:	15	0	15			Term credit total:	15	3	12				
<b>Program Totals:</b>	<b>Credits: 122</b>		<b>Liberal Arts &amp; Sciences: 62</b>			<b>Major: 54</b>			<b>Elective &amp; Other: 6</b>				

Cr: credits    LAS: liberal arts & sciences    Maj: major requirement    New: new course    Prerequisite(s): list prerequisite(s) for the noted courses

### Additional Notes:

1. Students are required to earn passing marks on both a *first-year paper* (typically written in MATH-199) and a *third-year paper* (typically written in STAT-325). These papers are reviewed and assessed by the SMS Writing Committee.
2. Two of the six program electives must be chosen from the following list of courses:
  - a. STAT-315 Statistical Quality Control
  - b. STAT-335 Introduction to Time Series
  - c. STAT-345 Nonparametric Statistics
  - d. MATH-401 Stochastic Processes
  - e. STAT-415 Statistical Sampling
  - f. STAT-425 Multivariate Analysis
  - g. STAT-435 Statistical Linear Models