

APPLIED MATHEMATICS-BS Program
Study Abroad Pathway—Option 1
(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-181 Project-Based Calculus I, P7-1	4	4				
MATH-199 Math and Statistics Seminar	1		1			
CSCI-101 Principles of Computing	3	3				
LAS P2	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-231 Differential Equations	3		3		MATH-182	
LAS P3	3	3				
LAS Elective 1	3	3				
Open Elective 1	3					
Term credit total:	16	10	3			
Term: FALL 3		Check course classification (s)				
Course Number & Title	CR	LAS	Maj	New	Prerequisite(s)	
MATH-431 Real Variables I	3		3		MATH-200, -221	
Program Elective 1	3		3			
Program Elective 2	3		3			
MATH-252 Probability and Statistics II	3		3		MATH-251	
LAS Immersion 1	3	3				
MATH-399 Mathematical Sciences Job Search Seminar	0		0			
Term credit total:	15	3	12			
Term: SPRING 1		(Check course classification (s))				
Course Number & Title	CR	LAS	Maj	New	Prerequisite(s)	
MATH-182 Project-Based Calculus II P7-2	4	4			MATH-181	
CSCI-141 Computer Science I	4	4				
Science I P5*	3	3				
First-Year Writing Seminar WI	3	3				
Wellness Activity 1	0					
Term credit total:	14	14	0			
Term: SPRING 2		(Check course classification (s))				
Course Number & Title	CR	LAS	Maj	New	Prerequisite(s)	
MATH-200 Discrete Mathematics with Introduction to Proof	3		3		MATH-182	
MATH-241 Linear Algebra	3		3		MATH-221	
MATH-251 Probability and Statistics I	3		3		MATH-182	
Science II P6	3	3			Science I	
LAS P4	3	3				
Wellness Activity 2	0					
Term credit total:	15	6	9			
Term: SPRING 3		Check course classification (s)				
Course Number & Title	CR	LAS	Maj	New	Prerequisite(s)	
Program Elective 3	3		3			
Program Elective 4	3		3			
Program Elective 5	3		3			
Program Elective 6	3		3			
LAS Immersion 2	3	3				
Term credit total:	15	3	12			

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)
MATH-421 Mathematical Modeling (WI)	3		3		MATH-221, -231, -241, -251	LAS Elective 3	3	3			
LAS Immersion 3	3	3				MATH-500 Senior Capstone in Mathematics**	3		3		MATH-411, -421, & (-431 or -441)
LAS Elective 2	3	3				Program Elective 7	3		3		
MATH-411 Numerical Analysis	3		3		MATH-231, -241	Open Elective 2	3				
MATH-441 Abstract Algebra	3		3		MATH-200, -241	Open Elective 3	3				
						LAS Elective 4	3	3			
Term credit total:	15	6	9			Term credit total:	18	6	6		
Program Totals:	Credits: 122		Liberal Arts & Sciences: 61			Major: 52			Elective & Other: 9		

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 MATH-421). These papers are reviewed and assessed by the SMS Writing Committee.
2. Students are required to complete an *experiential learning* component of the program, as approved by the School of Mathematical Sciences.

Footnotes:

* Students will satisfy the science requirements by taking either a 3-credit or 4-credit lab science course. If a science course consists of separate lecture and laboratory sections, the student **MUST** take both the lecture and lab portions to satisfy the requirement. The lecture alone will not fulfill the requirement.

** Students who have not otherwise fulfilled their experiential learning requirement must take MATH-500 Senior Capstone in Mathematics. Students who have completed the experiential learning requirement in some other way (as approved by the RIT School of Mathematical Sciences) may use this cell in the program mask as a program elective.