

Chemistry-BS Program
Study Abroad Pathway
 (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)	
CHEM-130 Chemical Connections	1		1		Matriculated Chemistry or Biochemistry Majors	
CHEM-151 General Chemistry	3	3			Score of 85% or higher on SCMS assessment	
CHEM-155 Chemistry Workshop	2		2		CHEM-151 (co-req)	
MATH-181 Project-based Calculus I LAS-7a	4	4			none	
LAS Elective	3	3			none	
LAS Perspectives I	3	3			none	
Term credit total:	16	13	3			
Term: Fall 2		Check course classification (s)				
Course Number & Title	CR	LAS	Maj	New	Prerequisite(s)	
CHMA-161 Quantitative Analysis	3		3		CHEM-151 or CHMG-141	
CHMA-165 Analytical Methods Lab	1		1		CHEM-130 or CHMG-145	
CHMO-332 Comp. Organic Chem. II	3		3		CHMO-331	
CHMO-336 Comp. Organic Chem. Lab II	2		2		CHMO-335; CHMO-332 (co-req)	
CHMI-351 Descriptive Inorganic Chemistry	3		3		CHMO-231 or equiv.	
MATH-219 Multivariable Calculus	3	3			MATH-182	
Term credit total:	15	3	12			
Term: Fall 3—STUDY ABROAD		Check course classification (s)				
Course Number & Title	CR	LAS	Maj	New	Prerequisite(s)	
LAS Immersion 3	3	3				
LAS Elective or Advanced Chemistry Elective 1	3	3				
LAS Elective	3	3				
LAS Perspectives 4	3	3				
LAS Elective	3	3				
Term credit total:	15	15	0			
Term: Spring 1		Check course classification (s)				
Course Number & Title	CR	LAS	Maj	New	Prerequisite(s)	
CHMO-331 Comp. Organic Chem. I	3		3		CHEM-151	
CHMO-335 Comp. Organic Chem. Lab I	1		1		CHMO-331 (co-req)	
MATH-182 Project-based Calculus II LAS-7b	4	4			MATH-181	
Writing Seminar	3	3			none	
LAS Perspective 2	3	3				
Term credit total:	14	10	4			
Term: Spring 2		Check course classification (s)				
Course Number & Title	CR	LAS	Maj	New	Prerequisite(s)	
CHMB-402 Biochemistry I	3		3		CHMO-231 or equiv.	
PHYS-211 University Physics I LAS-5	4	4			MATH-181	
LAS Perspectives 3	3	3			none	
LAS Immersion 1	3	3				
MATH-233 Linear Systems and Differential Equations	4		4			
Term credit total:	17	10	7			
Term: Spring 3		Check course classification (s)				
Course Number & Title	CR	LAS	Maj	New	Prerequisite(s)	
CHMP-441 Physical Chemistry I	3		3		CHMA-221, MATH-219 and one year of College Physics or equivalent	
CHMA-261 Instrumental Analysis	3		3		CHMA-161 or CHMG-142	
CHMA-265 Instrumental Analysis Lab	1		1		CHMA 261 (co-req)	
PHYS-212 University Physics II LAS-6	4	4			PHYS-211 & MATH-182	
Open Elective	3					
Open Elective	3					
Term credit total:	17	4	7			

Term: Fall 4		Check course classification (s)			
Course Number & Title	CR	LAS	Maj	New	Prerequisite(s)
Advanced Chemistry Elective 1 or LAS Elective (depends on STUDY ABROAD)	3		3		
Advanced Chemistry Elective 2	3		3		
LAS Immersion 2	3	3			
LAS Elective	3	3			
Open Elective	3				
Term credit total:	15	6	6		

Term: Spring 4		Check course classification (s)			
Course Number & Title	CR	LAS	Maj	New	Prerequisite(s)
Advanced Chemistry Lab	2		2		CHMP-445
CHMI-464 Structural Inorganic Chemistry	3		3		CHMO-332 or equivalent
CHMP-442 Physical Chemistry II	3		3		CHMP-441 & MATH-233 or MATH231 & MATH241
CHMP-445 Experimental Physical Chemistry (Writing Intensive)	3		3		CHMP-441
Open Elective	3				
Term credit total:	14	3	11		

Program Totals:	Credits: 123	Liberal Arts & Sciences: 61	Major: 50	Elective & Other: 12
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Cr: credits LAS: liberal arts & sciences Maj: major requirement New: new course Prerequisite(s): list prerequisite(s) for the noted courses

LAS Foundations	LAS Perspectives	LAS Immersion	LAS elective
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Chemistry Electives:

Students must take 6 credits from A, and 3 credits from B

	Courses			Course Conversion Designation
	Course #	Course Title	SCH	Prerequisite (s)
A	CHMA-711	Advanced Instrumental Analysis	3	CHMA-221 Instrumental Analysis and CHMP-441 Physical Chemistry I
	CHMB-403	Biochemistry II	3	CHMB-402 Biochemistry I
	CHMB-460	Infectious Disease: Impact on Society and Culture	3	CHMB 402
	CHMB-610	Advanced Protein Biochemistry	3	CHMB-402 Biochemistry I
	CHMB-702	Protein Conformation and Dynamics	3	CHMB-402
	CHMB-704	Biochemistry of Nucleic Acids	3	CHMB 402
	CHMI-764	Modern Inorganic Chemistry	3	CHMI-552 Inorganic Chemistry II
	CHMO-637	Advanced Organic Chemistry	3	CHMO-332 Comprehensive Organic Chemistry II
	CHMO-636	Spec. ID of Organic Compounds	3	CHMO-332 Comprehensive Organic Chemistry II
	CHMO-739	Physical Organic Chemistry	3	CHMO-332 Comprehensive Organic Chemistry II and CHMP-441 Physical Chemistry I
	CHMO-740	Mechanisms of Drug Interactions	3	Graduate standing or CHMB-403
	CHMO-710	Literature Explorations in Organic Synthesis	1	CHMO-637 Advanced Organic Chemistry Synthesis
	CHMP-751	Colloid and Interface Science	3	Graduate standing or COS-CHMP-441 (or equivalent)
	CHMP-752	Molecular Photophysics and Photochemistry	3	Graduate standing or COS-CHMP-442 (or equivalent)
	CHMP-753	Computational Chemistry	3	Graduate standing or COS-CHMP-442 (or equivalent)
	CHPO-706	Polymer Chemistry I	3	Graduate Standing or CHMO-332 Comprehensive Organic Chemistry II and CHMP-441 Physical Chemistry I (or equivalent)
	CHPO-707	Polymer Chemistry II	3	CHPO-706 Polymer Chemistry II
B	CHMA-621	Advanced Instrumental Analysis Lab	3	COS-CHMB-405 or COS-CHMP-445
	CHMA-740	Practical NMR	3	Graduate Standing, or CHMO-332 or CHMA-221 and permission of instructor
	CHMB-405	Biochemistry Experimental Techniques	3	CHMB-402 Biochemistry I
	CHMB-495	Advanced Biochemistry Research	3	CHMB-403 Biochemistry II
	CHEM-495	Advanced Chemistry Research	3	CHMP-445 Experimental Physical Chemistry
	CHMI-565	Preparative Inorganic Chemistry Lab	2	CHMI-351 Inorganic Chemistry I
	CHMO-535	Advanced Techniques in Organic Synthesis	3	CHMO-336 Comprehensive Organic Chemistry Lab II
	CHPO-708	Polymer Synthesis & Characterization Lab	3	Graduate Standing or COS-CHMO-336 and permission of instructor