[Department:	Undergraduate Biochemistry Program
1	Course Plan to	B.S. in Biochemistry
ľ	Complete a:	(These are the biochemistry major requirements with the CHEM 031, 032, 141, 142 option)

Biochemistry, B.S. (Catalogue)

			Y	ear 1				
		Fall			Spring			
Prefix	Course #	Course Name (catalogue)	Credits	Prefix	Course #	Course Name (catalogue)	Credits	
CHEM	031	*General Chemistry 1	4	CHEM	032	*General Chemistry 2	4	
BCOR	011	*Exploring Biology	4	BCOR	012	*Exploring Biology 2	4	
MATH	021	Calculus 1	4	MATH	022	Calculus 2	4	
		TAP Seminar	3			Distribution	3	
				_				
			15				15	
		Fall	Ŷ	ear 2		Spring		
	C	-	a		C		e 11:	
Prefix	Course #	Course Name (catalogue)	Credits	Prefix BCOR	Course #	Course Name (catalogue)	Credits	
BCOR	101	Genetics	3		103	Molecular & Cell Biology	4	
CHEM	47	*Organic Chemistry for Majors 1	4	CHEM	48	*Organic Chemistry for Majors 2	4	
PHYS	PHYS 051	*Fundamentals of Physics I	4-5	PHYS	PHYS 152	*Fundamentals of Physics II	4-5	
		Sustainability	3	-		Distribution	3	
			14-15	-			15-16	
				ar 3			15 10	
		Fall				Spring		
Prefix	Course #	Course Name (catalogue)	Credits	Prefix	Course #	Course Name (catalogue)	Credits	
BIOC	205	Biochemistry 1	3	BIOC	206	Biochemistry II	3	
		Undergraduate Research or Elective	3	BIOC	207	Biochemistry Lab	3	
		D1 Diversity	3	CHEM	165	Intro Physical Chemistry	3	
						Advanced Biochemistry-related elective/Undergraduate		
STAT	141	QR:Basic Statistical Methods 1	3			Research	3	
						One course from choice of intermediate-level lab		
		Distribution	3			electives (see below) or Elective	2-4	
			15				14-16	
			Y	ear 4				
		Fall				Spring		
Prefix	Course #	Course Name (catalogue)	Credits	Prefix	Course #	Course Name (catalogue)	Credits	
		One course from choice of intermediate-level lab electives (see						
		below) or Elective	2-4	BIOC	284	Senior Seminar	1	
		Advanced Biochemistry-related elective	3			Advanced Biochemistry-related elective	3	
	1	Distribution	3			Distribution	3	
	1	Distribution	3			Distribution	3	
		D2 - Diversity (Non-European Cultures Course)	3	1		Elective	3	
				-		Elective	3	
			14-16				16	

This is merely one suggested route to completing a major in Biochemistry.

The path followed by students will depend on their how soon they enter the major, their desired pace, other academic plans.

MAJOR:

Required Core: BCOR 011, 012, 101, 103, MATH 021, 022, PHYS 051, 152, CHEM 051, 052, 047, 048, 165, BIOC 205, 206, 207.

9 credits of advanced biochemistry-related electives: Pre-approved upper-level electives for B.S. in Biochemistry).

Choose one Intermediate-level lab elective course from: MMG 104 or BIOL 205 (offered Spring semester) or CHEM 121 or MMG 201 or BIOL 204 (offered Fall semester). Choose one of: BIOC 284 OR HON 275 and HON 276.

*Acceptable substitutions (however, the courses listed above will provide a better foundation for the Biochemistry degree): (a) BIOL 001/002 for BCOR 011/012: (b) CHEM 141 & 142 for CHEM 047 & 048; (c) PHYS 11/12 with 21/22 for PHYS 51/152;

Distribution Requirements: B.S. degrees in the College of Arts and Sciences will be required to complete the following:

Natural Sciences: two courses with labs from specific departments, as defined by the major. Mathematical Sciences: Two courses as defined by the major requirements. Social Sciences: Two 3-credit courses in social science disciplines •In addition, B.S. degree students are required to complete course in <u>TWO</u> of the following <u>THREE</u> categories: Fine Arts disciplines and Literature disciplines (two courses- one course in each area) Foreign Language: two courses in the same foreign language Humanities: two 3-credit courses in a humanities discipline

General Requirements:

One Diversity Category 1 course – minimum 3 credits One Diversity Category 2 course from list of D2 Non-European Cultures courses - minimum 3 credits One Sustainability Category course - minimum 3 credits One Writing and Information Literacy course-minimum 3 credits

One Quantitative Reasonina course-minimum 3 credits

>>A TAP course will satisfy UVM's Writing and Information Literacy requirement and might also count toward a distribution. >>>Sustainability courses and Diversity courses might also count toward a distribution. 07/2019