## ACCELERATED BACHELOR OF SCIENCE IN BIOCHEMISTRY/ MASTER OF ARTS IN TEACHING (WITH TEACHING CERTIFICATE)

To earn an Accelerated BS in Biochemistry and MAT with Teaching Certificate, a student must complete all basic requirements for the BS degree with a major in Biochemistry, as well as additional coursework at the graduate level. (See Graduate Catalog (https://catalog.baylor.edu/graduate-school/curriculum-departments-institutes-instruction/school-education/mat-teaching-certification/) for details of graduate requirements, including eligibility and admission).

## BS in Biochemistry

## Requirements for a Major in Biochemistry

Code Title Hours
Thirty-nine semester hours including the following:

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Required Courses		
CHE 1301	Basic Principles of Modern Chemistry I	
& CHE 1101	and General Chemistry Laboratory I	
CHE 1302	Basic Principles of Modern Chemistry II	4
& CHE 1102	and General Chemistry Laboratory II	
CHE 2416	Laboratory Measurements and Techniques	
CHE 3331	Organic Chemistry I	
CHE 3332	Organic Chemistry II	
CHE 3238	Organic Chemistry Laboratory	
CHE 4001	Exit Examination	
CHE 4225	Biophysical Chemistry Laboratory	
CHE 4141	Modern Biochemistry Laboratory	
CHE 4142	Advanced Biochemistry Laboratory	
CHE 4151	Undergraduate Seminar I	
CHE 4327	Physical Chemistry for the Life Sciences	3
CHE 4341	General Biochemistry	3
CHE 4342	Topics in Human Biochemistry	3
Five semester hour	rs of 4000-level CHE <sup>1</sup>	5
Subtotal		39
<b>Required Courses i</b>	n Other Fields	
BIO 1305	Modern Concepts of Bioscience	4
& BIO 1105	and Modern Concepts of Bioscience Laboratory	
or BIO 1405	Investigations of Modern Biology Concepts I	
BIO 1306	Modern Concepts of Bioscience, continued	4
& BIO 1106	and Modern Concepts of Bioscience Laboratory	
or BIO 1406	Investigations of Modern Biology Concepts II	
Two 2000-4000 level, 3-4 hr BIO courses <sup>2</sup>		6
MTH 1321	Calculus I	3
MTH 1322	Calculus II	3
PHY 1420	General Physics I	4

PHY 1430	General Physics II	4
Total Hours		67

- Excluding CHE 4321 Physical Chemistry I and CHE 4151 Undergraduate Seminar I. It is recommended that CHE 4316 Instrumental Analysis be included in the five hour total. A maximum of three semester hours of CHE 4V98 Senior Research Problems may count toward this requirement. Undergraduate research in chemistry is strongly encouraged.
- It is recommended that BIO 4306 Molecular Genetics and Genomics - BIO 4106 Molecular Genetics and Genomics Laboratory be taken as one of the two courses. BIO 2401 Human Anatomy and Physiology of Motion and Innervation and BIO 2402 Human Anatomy and Physiology of Metabolism and Processing cannot be used to complete this requirement.

## MAT with Teaching Certificate

- Elementary (EC-6) Education Certification M.A.T. Degree Plan (https://catalog.baylor.edu/graduate-school/curriculum-departments-institutes-instruction/school-education/mat-teaching-certification/elementary-ec-6-education-certification-mat-degree-plan/)
- Middle Grades Education Certification M.A.T. Degree Plan (https://catalog.baylor.edu/graduate-school/curriculum-departments-institutes-instruction/school-education/mat-teaching-certification/middle-grades-education-certification-mat-degree-plan/)
- Secondary Education Certification M.A.T. Degree Plan (https://catalog.baylor.edu/graduate-school/curriculum-departments-institutes-instruction/school-education/mat-teaching-certification/secondary-education-certification-mat-degree-plan/)