

UNIVERSITY STUDIES - BS, BIOMEDICAL SCIENCES CONCENTRATION

Program Requirements

First Year

Fall		Semester Credit Hours
BIOL 111	Introductory Biology I	4
CHEM 119	Fundamentals of Chemistry I	4
	Mathematics (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#mathematics) ¹	3
	Social and behavioral sciences (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#social-behavioral-sciences)	3
Semester Credit Hours		14

Spring

BIOL 112	Introductory Biology II	4
CHEM 120	Fundamentals of Chemistry II	4
	Select one of the following:	3
ENGL 103	Introduction to Rhetoric and Composition	
ENGL 104	Composition and Rhetoric	
ENGL 203	Writing about Literature	
ENGL 210	Technical and Professional Writing	
	Select one of the following:	3
MATH 142	Business Calculus	
MATH 151	Engineering Mathematics I	
MATH 171	Calculus I	
Semester Credit Hours		14

Second Year

Fall		
CHEM 227 & CHEM 237	Organic Chemistry I and Organic Chemistry Laboratory	4
	American history (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#american-history) ²	3
	Creative arts (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#creative-arts)	3
	Government/Political science (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#government-political-science) ²	3
	BIMS directed elective ^{3,4}	3
Semester Credit Hours		16

Spring

	American history (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#american-history) ²	3
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Government/Political science (<http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#government-political-science>)² 3

Language, philosophy and culture (<http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#language-philosophy-culture>) 3

BIMS directed elective^{3,4} 6

Semester Credit Hours 15

Third Year

Fall		
VTPB 421	Infectious Diseases of Humans and Animals	3
	General electives ⁶	9
	Technical elective ^{4,5}	3
Semester Credit Hours		15

Spring

BIMS 320/ GENE 320	Biomedical Genetics	3
	Communication (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#communication)	3
	General electives ⁶	6
	Technical elective ^{4,5}	3
Semester Credit Hours		15

Fourth Year

Fall		
	General electives ⁶	15
Semester Credit Hours		15
Spring		
	Technical elective ^{4,5}	3
	General electives ⁶	13
Semester Credit Hours		16
Total Semester Credit Hours		120

¹ Except MATH 167; PHIL 240.

² Completion of four semesters of upper-level ROTC may be substituted for 3 hours of American history and 3 hours of political science.

- ³ Select from ANSC 107, ANSC 108, ANSC 210, ANSC 303/
NUTR 303, ANSC 318, ANSC 320; ANSC 326/FSTC 326, ANSC 327/
FSTC 327, BICH 410, BICH 411, BICH 412, BICH 414, BICH 431/
GENE 431, BICH 432/GENE 432; BIMS 110, BIMS 125, BIMS 201,
BIMS 289, BIMS 291, BIMS 380, BIMS 392, BIMS 405/GENE 405,
BIMS 421/GENE 421, BIMS 481, BIMS 484, BIMS 485, BIMS 489,
BIMS 491; ENTO 208, ENTO 209, ENTO 210, ENTO 423,
ENTO 426/VIBS 426, ENTO 431/FIVS 431, ENTO 432/FIVS 432;
NRSC 101; NUTR 222; URPN 370; VIBS 111, VIBS 204,
VIBS 210, VIBS 211, VIBS 222, VIBS 243, VIBS 277/NRSC 277,
VIBS 285, VIBS 289, VIBS 310, VIBS 311, VIBS 343, VIBS 401,
VIBS 404, VIBS 407/NRSC 407, VIBS 408, VIBS 411, VIBS 413,
VIBS 422, VIBS 424/VTPP 424, VIBS 443, VIBS 447, VIBS 450/
NRSC 450, VIBS 456, VIBS 485, VIBS 489; VLCS 422, VLCS 485;
VSCS 485, VTPB 212, VTPB 221, VTPB 285, VTPB 289, VTPB 301/
WFSC 327, VTPB 303, VTPB 407, VTPB 409, VTPB 410,
VTPB 411, VTPB 415, VTPB 438, VTPB 460, VTPB 485, VTPB 487/
BIOL 487, VTPB 489; VTPP 123, VTPP 223, VTPP 224, VTPP 234,
VTPP 235, VTPP 401/BMEN 400, VTPP 420, , VTPP 425, VTPP 427,
VTPP 429, VTPP 438, VTPP 444, VTPP 452, VTPP 485, VTPP 489,
VTPP 491.
- ⁴ Up to 9 course hours may be selected from BIMS 484, BIMS 485;
BIMS 491; VIBS 285, VIBS 485, VLCS 485; VSCS 485; VTPB 285,
VTPB 485; VTPP 285, VTPP 291, VTPP 485, VTPP 491. No more than
6 hours of BIMS 484 may be used. Restriction to be enforce by the
BIMS advising office.
- ⁵ Select from BIMS 380, BIMS 392, BIMS 405/
GENE 405, BIMS 421/GENE 421; BIMS 481, BIMS 484,
BIMS 485, BIMS 489, BIMS 491, VIBS 310, VIBS 311, VIBS 343,
VIBS 401, VIBS 404, VIBS 407/NRSC 407, VIBS 408, VIBS 411,
VIBS 413, VIBS 422, VIBS 424/VTPP 424, VIBS 426/ENTO 426,
VIBS 443, VIBS 447, VIBS 450/NRSC 450, VIBS 456, VIBS 485,
VIBS 489; VLCS 422, VLCS 485; VSCS 485, VTPB 301/WFSC 327,
VTPB 303, VTPB 407, VTPB 409, VTPB 410, VTPB 411, VTPB 415,
VTPB 438, VTPB 460, VTPB 485, VTPB 487/BIOL 487; VTPB 489,
VTPP 401/BMEN 400, VTPP 420, VTPP 424/VIBS 424, VTPP 425,
VTPP 429, VTPP 438, VTPP 444, VTPP 452, VTPP 485, VTPP 489,
VTPP 491.
- ⁶ Includes 30-36 hours used to satisfy the two minor requirements
and 7-13 hours any 100-499 course not used elsewhere (except
MATH 102-104 (<http://catalog.tamu.edu/undergraduate/course-descriptions/math/>)); only 1 KINE 199 may be used in this area.

All students are required to complete 3 hours of International and Cultural Diversity (<http://catalog.tamu.edu/undergraduate/general-information/degree-information/international-cultural-diversity-requirements/>) credit (ICD) and 3 hours of Cultural Discourse (<http://catalog.tamu.edu/undergraduate/general-information/degree-information/cultural-discourse-requirements/>) (CD) credits. A course satisfying a core category, a college department requirement, or a free elective can be used to satisfy this requirement. Select in consultation with academic advisor.

Graduation requirements require two courses with the (UWRT) Writing Intensive, or 1 course with the Writing Intensive (UWRT)/1 course Oral communication (UCRT) attribute. Consult your academic advisor for choices. These credits may come from the concentration field of study or the minor areas.

Students must complete 36 hours 3/400 level coursework in residency at TAMU.