

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

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
Technical elective ^{4,5}		3
General electives ⁶		9
Semester Credit Hours		15

Spring		
BIMS 320/ GENE 320	Biomedical Genetics	3
Communication (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#communication) ^{4,5}		3
Technical elective ^{4,5}		3
General electives ⁶		6
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/RWFM 309, VTPB 303, VTPB 407, VTPB 409, VTPB 410, VTPB 411, VTPB 415, VTPB 438, VTPB 460, VTPB 485, VTPB 487/BIOL 487, VTPB 489; VTTP 123, VTTP 223, VTTP 224, VTTP 234, VTTP 235, VTTP 401/BMEN 400, VTTP 420, , VTTP 425, VTTP 427, VTTP 429, VTTP 438, VTTP 444, VTTP 452, VTTP 485, VTTP 489, VTTP 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 enforced 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/RWFM 309, 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.