

## 2016 - 2017 Major Map



### Health Sciences (Pre-professional), BS




School/College: College of Health Solutions  
 NUHSCPREBS




ASU is no longer accepting new students to this program. Interested students should apply to the **BS in medical studies**.



Term 1 0 - 15 Credit Hours Critical course signified by ⚠	Hours	Minimum Grade	Notes
⚠ BIO 181: General Biology I (SQ) OR BIO 182: General Biology II (SG)	4	C	<ul style="list-style-type: none"> <li>An SAT, ACT, Accuplacer, IELTS or TOEFL score determines placement into first-year composition courses</li> <li>ASU Mathematics Placement Test score determines placement in mathematics course</li> <li>ASU 101 or college-specific equivalent First-Year Seminar required of all freshman students</li> <li>Students must test into MAT 170 or higher to be able to take CHM 113 in term 1</li> </ul>
CHM 113: General Chemistry I (SQ)	4	C	
CHS 100: Introduction to Health Solutions	3	C	
CHS 101: The ASU Experience for Health Solutions Students	1		
ENG 101 or ENG 102: First-Year Composition OR ENG 105: Advanced First-Year Composition OR ENG 107 or ENG 108: First-Year Composition	3	C	
Term hours subtotal:	15		
Term 2 15 - 29 Credit Hours Critical course signified by ⚠	Hours	Minimum Grade	Notes
⚠ BIO 181: General Biology I (SQ) OR BIO 182: General Biology II (SG)	4	C	<ul style="list-style-type: none"> <li>Pre-Pharmacy students are approved to substitute MAT 251 with MAT 270 Calculus with Analytic Geometry I (4) [MA]</li> </ul>
⚠ CHM 116: General Chemistry II (SQ)	4	C	
MAT 251: Calculus for Life Sciences (MA)	3	C	
ENG 101 or ENG 102: First-Year Composition OR ENG 105: Advanced First-Year Composition OR ENG 107 or ENG 108: First-Year Composition	3	C	
⚠ Complete ENG 101 OR ENG 105 OR ENG 107 course(s).			
Term hours subtotal:	14		
Term 3 29 - 46 Credit Hours Critical course signified by ⚠	Hours	Minimum Grade	Notes
⚠ BIO 201: Human Anatomy and Physiology I (SG) OR PHY 111: General Physics (SQ) AND PHY 113: General Physics Laboratory (SQ)	4	C	<ul style="list-style-type: none"> <li>Pre-Veterinary students are approved to substitute BIO 201 with BIO 360 Animal Physiology (3) and a 1 credit hour elective</li> </ul>
CHM 233: General Organic Chemistry I AND CHM 237: General Organic Chemistry Laboratory I	4	C	
HSC 210: Cultural Aspects of Health (C)	3	C	
PHI 101: Introduction to Philosophy (HU)	3	C	
STP 226: Elements of Statistics (CS) OR STP 231: Statistics for Life Science (CS)	3	C	
⚠ Complete First-Year Composition requirement.			
⚠ Complete Mathematics (MA) requirement.			




Term hours subtotal: 17

Term 4 46 - 60 Credit Hours <b>Critical course signified by</b> 	Hours	Minimum Grade	Notes
 BIO 202: Human Anatomy and Physiology II (SG) OR PHY 112: General Physics (SQ) AND PHY 114: General Physics Laboratory (SQ)	4	C	<ul style="list-style-type: none"> <li>• Pre-Veterinary students are approved to substitute BIO 202 with BIO 331 Animal Behavior (3) and a 1 credit hour elective</li> <li>• Pre-Veterinary students are approved to substitute NTR 241 with ABS 378 Wildlife Nutrition (3)</li> </ul>
BMI 201: Introduction to Clinical Informatics	3	C	
CHM 234: General Organic Chemistry II AND CHM 238: General Organic Chemistry Laboratory II	4	C	
NTR 241: Human Nutrition	3	C	
Term hours subtotal:	14		

Term 5 60 - 77 Credit Hours <b>Necessary course signified by</b> 	Hours	Minimum Grade	Notes
 HSC 300: Complementary Health Care	3	C	
 HSC 320: Applied Medical/Healthcare Ethics (HU)	3	C	
KIN 290: Introduction to Evidence-Based Practice (L)	3	C	
BIO 340: General Genetics	4	C	
BIO 201: Human Anatomy and Physiology I (SG) OR PHY 111: General Physics (SQ) AND PHY 113: General Physics Laboratory (SQ)	4	C	
Term hours subtotal:	17		

Term 6 77 - 93 Credit Hours <b>Necessary course signified by</b> 	Hours	Minimum Grade	Notes
 HSC 330: Health Care Systems in the U.S.	3	C	
 HSC 420: Evaluation of Health Sciences Research	3	C	
Upper Division Technical Writing Communications AND Upper Division Literacy and Critical Inquiry (L)	3	C	
BIO 202: Human Anatomy and Physiology II (SG) OR PHY 112: General Physics (SQ) AND PHY 114: General Physics Laboratory (SQ)	4	C	
Upper Division Social-Behavioral Sciences (SB) AND Global Awareness (G)	3		
Term hours subtotal:	16		

Term 7 93 - 108 Credit Hours <b>Necessary course signified by</b> 	Hours	Minimum Grade	Notes
 HSC 332: Health Care Legislation	3	C	
BCH 361: Advanced Principles of Biochemistry AND BCH 367: Elementary Biochemistry Laboratory	4	C	
HSC 304: Health Communication	3	C	
MIC 220: Biology of Microorganisms AND MIC 206: Microbiology Laboratory (SG) OR MIC 205: Microbiology (SG) AND MIC 206: Microbiology Laboratory (SG)	4	C	
Upper Division Elective	1		
Term hours subtotal:	15		

Term 8 108 - 120 Credit Hours <b>Necessary course signified by</b> 	Hours	Minimum Grade	Notes
 HSC 400: Practicum in Health Sciences OR HSC 484: Internship OR CHS 484: Internship	3	C	
 HSC 432: Legal Issues in Health Care	3	C	
Upper Division Social-Behavioral Sciences (SB) AND Historical Awareness (H)	3		

Term hours subtotal: 12

Hide Course List(s)/Track Group(s)

Technical Writing Communications

ENG 301: Writing for the Professions (L)

NTR 351: Nutrition Communication (L)

TWC 301: Fundamentals of Writing for  
Digital Media (L)

TWC 347: Written Communication for  
Managers (L)

TWC 401: Fundamentals of Technical  
Communication (L)

TWC 446: Technical and Scientific Reports  
(L)

**Total Hours:** 120

**Upper Division Hours:** 45 minimum

**Major GPA:** 2.00 minimum

**Cumulative GPA:** 2.00 minimum

**Total hrs at ASU:** 30 minimum

**Hrs Resident Credit for**

**Academic Recognition:** 56 minimum

**Total Community College Hrs:** 64 maximum

**General University Requirements Legend**

General Studies Core Requirements:

- Literacy and Critical Inquiry (L)
- Mathematical Studies (MA)
- Computer/Statistics/Quantitative Applications (CS)
- Humanities, Arts and Design (HU)
- Social-Behavioral Sciences (SB)
- Natural Science - Quantitative (SQ)
- Natural Science - General (SG)

General Studies Awareness Requirements:

- Cultural Diversity in the U.S. (C)
- Global Awareness (G)
- Historical Awareness (H)

First-Year Composition

General Studies designations listed next to courses on the major map were valid for the 2016 - 2017 academic year. Please refer to the course catalog for current General Studies designations at time of class registration. General Studies credit is applied according to the designation the course carries at the time the class is taken.