2022 - 2023 Major Map Medical Studies, **BS**

School/College: College of Health Solutions

NHMEDBS

erm 10 - 15 Credit Hours Critical course signified by	Hours	Minimum Grade	Notes	
BIO 181: General Biology I (SQ)	4	С	 ASU 101 or college-specific equivalent First-Year Seminar required of all first-ye students. College of Health Solutions students take CHS 101 to fulfill this requirement. Explore pre-health resources. Visit the CHS Student Site for resources, 	
CHM 113: General Chemistry I (SO)	4	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	С		
ENG 107 or ENG 108: First-Year Composition MAT 170: Precalculus (MA)	3	C	appointment scheduling, internship information, etc.	
Term hours subtotal:	15			
erm 2 15 - 32 Credit Hours Critical course signified by	Hours	Minimum Grade		
BIO 182: General Biology II (SG)	4	C	• Students who enter the major as first-year	
CHM 116: General Chemistry II (SQ)	4	С	 Students who enter the major as first-yea students must complete CHS 100; students who enter the major with more than 45 hours should complete CHS 300 Meet with a pre-health advisor to discus coursework and extracurricular activities Join a student club or professional organization. Research career pathways and decide on professional track prior to registering for the next term. 	
CHS 100: Optimizing Your Health and Performance (SB) OR CHS 300: An Exploration of Well-Being (SB)	3	С		
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	С		
HSC 210: Cultural Aspects of Health (C)				
Complete ENG 101 OR ENG 105 OR ENG 107 course(s).				
Minimum 3.00 GPA ASU Cumulative.			the next term.	
Term hours subtotal:	17			
erm 3 32 - 46 Credit Hours Critical course signified by	Hours	Minimum Grade	Notes	
CHM 233: General Organic Chemistry I AND CHM 237: General Organic Chemistry Laboratory I	4	С	• The course chosen from the list in this term (CDE 232, COM 100, ECN 211, SOC 101) should be selected from the Professional Track list in the Degree Audit (DARS). If the track list in DARS	
CDE 232: Human Development (SB) OR COM 100: Introduction to Human Communication (SB) OR ECN 211: Macroeconomic Principles (SB) OR SOC 101: Introductory Sociology (SB)	3	С		
PSY 101: Introduction to Psychology (SB)	3	С	does not specify one of the courses, SO	
Professional Track Course	4	С	101 is recommended.Research professional schools and their admission requirements, including	
Complete Mathematics (MA) requirement.				
Minimum 3.00 GPA ASU Cumulative. Term hours subtotal:			required courses.	
			 Start volunteering for health organizations and shadowing health professionals to learn more about opportunities in the field. Develop your skills. 	

'erm 4 46 - 60 Credit Hours Critical course signified by 💠	Hours	Grade	Notes	
CHM 234: General Organic Chemistry II AND CHM 238: General Organic Chemistry Laboratory II	4	С	 Review scholarship renewal criteria to ensure adequate enrollment. Begin thinking about preparation for professional school entrance exams. Learn about the Pre-Health Internship Program. Continue volunteering and shadowing 	
Professional Track Course	4	С		
Humanities, Arts and Design (HU) AND Historical Awareness (H)	3			
Literacy and Critical Inquiry (L)	3			
Minimum 3.00 GPA ASU Cumulative.				
Term hours subtotal:	14		in health organizations.	
erm 5 60 - 74 Credit Hours Necessary course signified by	Hours	Minimum Grade	Notes	
BIO 201: Human Anatomy and Physiology I (SG)	4	С	• Study for the professional school entrance	
HCD 300: Biostatistics (CS)	3	С	exam and register to take it in the spring of	
MED 320: Applied Medical/Health Care Ethics (HU)			summer of your junior year.	
Upper Division Medical Studies Breadth Elective			 Update your resume. Visit the CHS student website to explore	
Elective	1		experiential learning opportunities,	
Minimum 3.00 GPA ASU Cumulative.			including research and internships, specif	
Term hours subtotal:	14		to your major. • Students must have a minimum ASU cumulative GPA of 3.00 or higher to app for the MED 484 internship.	
erm 6 74 - 90 Credit Hours Necessary course signified by	Hours	Minimum Grade	Notes	
BIO 202: Human Anatomy and Physiology II (SG)	4	C	• Any of the courses from the list in this	
rofessional Track Course	3	C	term (CHS 484, CHS 493, CHS 494,	
CHS 484: Translational Research OR CHS 493: Honors Thesis (L) OR CHS 494: Undergraduate Research OR HSC 484: Internship OR MED 484: Internship OR MED 494: Introduction To Clinical Healthcare	3	С	HSC 484, MED 484, or MED 494) will fulfill the college's experiential learning requirement. Visit the CHS student website to learn more. • Take the professional school entrance	
HSC 310: Health Communication	3	С	exam.	
			• Meet with a pre-health advisor to review	
Upper Division Elective	3			
Upper Division Elective Complete Cultural Diversity in the U.S. (C) AND Global Awareness (G) AND Historical Awareness (H) course(s).	3		 Meet with a pre-health advisor to review your professional school application. Apply early! 	
Complete Cultural Diversity in the U.S. (C) AND Global Awareness (G) AND Historical Awareness (H) course(s). Minimum 3.00 GPA ASU Cumulative.	3		your professional school application.	
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Complete Cultural Diversity in the U.S. (C) AND Global Awareness (G) AND Historical Awareness (H) course(s). Minimum 3.00 GPA ASU Cumulative. Term hours subtotal: Term 7 90 - 105 Credit Hours Necessary course signified by HCD 303: Global Health Care Systems (G)	16 Hours		your professional school application. • Apply early! Notes	
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Upper Division Elective		6	
Minimum 3.00 GPA ASU Cumulative.			
	Term hours subtotal:	15	

- A course in biochemistry with lab is strongly recommended for competitive application to most professional schools.
 - Students in the MD track who plan to apply to the University of Arizona Medical School in Tucson must complete upper-division coursework in Cell Biology, Histology, Microbiology, Pathology, or Immunobiology as well as an upper-division course in Molecular Biology. This means that at least one of the upper-division electives should come from the Medical Studies Breadth Electives list.

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

Dentistry Professional Track	Integrative Health (ND/NMD/DC)	Medicine (MD/DO) Professional Track	
PHY 111: General Physics (SQ) AND PHY 113: General Physics Laboratory (SQ)	Professional Track BIO 340: General Genetics or LSC 347: Fundamentals of Genetics AND LSC 348:	BIO 340: General Genetics or LSC 347: Fundamentals of Genetics AND LSC 348:	
PHY 112: General Physics (SQ) AND PHY 114: General Physics Laboratory (SQ)	Fundamentals of Genetics Laboratory	Fundamentals of Genetics Laboratory MIC 205: Microbiology (SG) AND MIC	
MIC 205: Microbiology (SG)	HSC 300: Complementary Health Care	206: Microbiology Laboratory (SG)	
The 200. Metolology (CC)	MIC 205: Microbiology (SG) AND MIC 206: Microbiology Laboratory (SG)	PHY 111: General Physics (SQ) AND PHY 113: General Physics Laboratory (SQ)	
	PSY 341: Developmental Psychology (SB)	PHY 112: General Physics (SQ) AND PHY 114: General Physics Laboratory (SQ)	
Occupational Therapy Professional Track	Optometry Professional Track	Pharmacy Professional Track	
CHS 260: Health Professions Terminology	MAT 251: Calculus for Life Sciences (MA)	COM 225: Public Speaking (L)	
PSY 341: Developmental Psychology (SB)	MIC 205: Microbiology (SG) AND MIC	MAT 251: Calculus for Life Sciences (MA)	
PSY 366: Abnormal Psychology (SB)	206: Microbiology Laboratory (SG)	MIC 205: Microbiology (SG) AND MIC	
SOC 400: Perspectives on Aging (SB) or SOC 410: Race, Medicine, and the Body (L) or SOC 418: Aging and the Life Course (SB & H) or SOC 424: Women and Health (SB) or SOC 426: Social Inequalities (SB) or SOC 427: Sociology of Health and Illness (SB)	PHY 111: General Physics (SQ) AND PHY 113: General Physics Laboratory (SQ)	206: Microbiology Laboratory (SG) PHY 111: General Physics (SQ) AND PH	
	PHY 112: General Physics (SQ) AND PHY 114: General Physics Laboratory (SQ)	113: General Physics Laboratory (SQ)	
Physician Assistant (PA) Professional Track	Medical Studies Breadth Electives		
BIO 340: General Genetics or LSC 347: Fundamentals of Genetics AND LSC 348: Fundamentals of Genetics Laboratory	BCH 361: Advanced Principles of Biochemistry AND BCH 367: Elementary Biochemistry Laboratory		
CHS 260: Health Professions Terminology	BCH 371: Modern Concepts in Biochemistry		
MIC 205: Microbiology (SG)	AND BCH 372: Modern Concepts in Biochemistry Laboratory		
MIC 206: Microbiology Laboratory (SG)	BIO 353: Cell Biology		
	BIO 355: Introduction to Computational Molecular Biology (CS)		
	BIO 360: Animal Physiology		
	BIO 420: Immunology: Molecular and Cellular Foundations		

BIO 475: Advanced Human Anatomy CHS 340: Health Theory HCD 302: Health Care Management HCD 304: Health Care Finance HCD 332: Population Health Policy and Legislation HCD 420: Population Health Management HSC 410: Supporting the Health of Older Adults HSC 412: Health Issues in Later Life LSC 4** Elective MED 325: Elements of Hospice and Palliative Care MED 375: Alzheimer's and Other Dementias (SB) MED 394: Healthcare and Humanities MED 417: Impact of Violence on Health MED 445: Prevention and Management of Chronic Disease MED 475: Palliative Care: Managing Complex Serious Illness MED 484: Internship PBH 410: Public Mental Health PBH 422: Health Disparities and Access to Health

Notes:

- First-Year Composition: All students are placed in ENG 101 unless submission of SAT, ACT, Accuplacer, IELTS, or TOEFL score, or college-level transfer credit or test credit equivalent to ASU's first-year composition course(s), determine otherwise. Students on Polytechnic, Downtown Phoenix and West Campuses are encouraged to complete the Directed Self-Placement survey to choose the first-year composition option they believe best suits their needs.
 Visit: https://cisa.asu.edu/DSP
- Mathematics Placement Assessment score determines placement in first mathematics course.
- Students interested in applying to Physical Therapy graduate programs should major in Kinesiology.
- Due to the high volume of overlap in curriculum, students enrolled in this degree are not permitted to declare a
 concurrent degree combination with the Biological Sciences BS, including the following concentrations: Biomedical
 Sciences; Genetics, Cell and Developmental Biology; and Neurobiology, Physiology and Behavior. Students should
 speak with their academic advisor for any further questions.

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 2022 - 2023 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.