










2024 - 2025 Major Map

Medical Studies, **BS**

School/College: College of Health Solutions
NHMEDBS



Term 1 0 - 15 Credit Hours Critical course signified by 	Hours	Minimum Grade	Notes
 BIO 181: General Biology I (SCIT OR SQ)	4	C	<ul style="list-style-type: none"> ASU 101 or college-specific equivalent First-Year Seminar required of all first-year students. College of Health Solutions students take CHS 101 to fulfill this requirement. Students who enter the major as first-year students must complete CHS 100; students who enter the major with more than 30 hours should complete CHS 300. Explore pre-health resources. Visit the CHS website for current student resources including forms and policies, advising appointment scheduling, internship information, and more.
 CHS 101: The ASU Experience for Health Solutions Students	1		
CHM 113: General Chemistry I (SCIT OR SQ)	4	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	
MAT 170: Precalculus (MATH OR MA)	3	C	
Term hours subtotal:	15		

Term 2 15 - 32 Credit Hours Critical course signified by 	Hours	Minimum Grade	Notes
 BIO 182: General Biology II (SCIT OR SG)	4	C	<ul style="list-style-type: none"> Research career pathways and decide on a professional track from the lists at bottom of major map prior to registering for the next term. Track your progress and learn how to run your Graduation Audit (DARS). Meet with a pre-health advisor to discuss coursework as well as extracurricular activities. Join a student club or professional organization.
CHM 116: General Chemistry II (SCIT OR SQ)	4	C	
CHS 100: Optimizing Your Health and Performance (SOBE OR SB) OR CHS 300: An Exploration of Well-Being (SOBE OR SB)	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	
HSC 210: Cultural Aspects of Health (GCSI OR C)	3	C	
 Complete ENG 101 OR ENG 105 OR ENG 107 course(s).			
Minimum 3.00 GPA ASU Cumulative.			
Term hours subtotal:	17		




Term 3 32 - 46 Credit Hours Critical course signified by 	Hours	Minimum Grade	Notes
CDE 232: Human Development (SOBE OR SB) OR COM 100: Introduction to Human Communication (SOBE OR SB) OR ECN 211: Macroeconomic Principles (SOBE OR SB) OR SOC 101: Introductory Sociology (SOBE OR SB)	3	C	<ul style="list-style-type: none"> 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 Graduation Audit (DARS). Research professional schools and their admission requirements, including required courses. Follow the professional track list at bottom of major map for your desired career.
CHM 233: General Organic Chemistry I AND CHM 237: General Organic Chemistry Laboratory I	4	C	
PSY 101: Introduction to Psychology (SOBE OR SB)	3	C	
Professional Track Course	4	C	
 Complete Mathematics (MATH) requirement.			
 Minimum 3.00 GPA ASU Cumulative.			

Term hours subtotal: 14



- Start volunteering for health organizations and shadowing health professionals to learn more about opportunities in the field.
- In order to be successful in upper division Medical Studies coursework, a minimum 3.00 cumulative ASU GPA is required.

Term 4 46 - 60 Credit Hours Critical course signified by 	Hours	Minimum Grade	Notes
CHM 234: General Organic Chemistry II AND CHM 238: General Organic Chemistry Laboratory II	4	C	
Professional Track Course	4	C	
Humanities, Arts and Design (HUAD)	3		
Sustainability (SUST)	3		
 Minimum 3.00 GPA ASU Cumulative.			
Term hours subtotal:	14		

- Review **scholarship renewal criteria** to ensure adequate enrollment.
- Follow the professional track list at bottom of major map for your desired career and meet with a **pre-health advisor** to discuss coursework.
- Begin thinking about preparation for professional school entrance exams.
- In order to be successful in upper division Medical Studies coursework, a minimum 3.0 cumulative ASU GPA is required.
- Learn about the **Pre-Health Internship Program**.
- Continue volunteering and shadowing in health organizations.

Term 5 60 - 74 Credit Hours Necessary course signified by 	Hours	Minimum Grade	Notes
 BIO 201: Human Anatomy and Physiology I (SCIT OR SG)	4	C	
 HCD 300: Biostatistics (QTRS OR CS)	3	C	
MED 320: Applied Medical/Health Care Ethics (HUAD OR HU)	3	C	
Upper Division Medical Studies Breadth Elective	3	C	
Elective	1		
Minimum 3.00 GPA ASU Cumulative.			
Term hours subtotal:	14		

- Consider using upper division medical studies breadth elective to fulfill upper division pre-requisites for desired graduate programs.
- Study for the professional school entrance exam and register to take it in the spring or summer of your junior year.
- Update your **resume**.
- Students must have a minimum ASU cumulative GPA of 3.00 or higher to apply for the MED 484 internship.
- Admissions to health professions graduate schools is very competitive. Students should research recommended cumulative and science GPA minimums for their desired programs.

Term 6 74 - 90 Credit Hours Necessary course signified by 	Hours	Minimum Grade	Notes
 BIO 202: Human Anatomy and Physiology II (SCIT OR SG)	4	C	
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	C	
HSC 310: Health Communication	3	C	
Professional Track Course	3	C	
Upper Division Elective	3		
Minimum 3.00 GPA ASU Cumulative.			
Term hours subtotal:	16		

- Follow the professional track list at bottom of major map for your desired career.
- Consider using the upper division elective to take additional upper division coursework from professional track list if needed or to fulfill upper division science pre-requisites for desired graduate programs.
- Any of the courses from the list in this term (CHS 484, CHS 493, CHS 494, HSC 484, MED 484, or MED 494) will fulfill the college's experiential learning

requirement. Visit the [CHS website](#) for more information.

- Meet with a [pre-health advisor](#) to review your professional school application.
- Apply early!

Term 7 90 - 105 Credit Hours Necessary course signified by ★	Hours	Minimum Grade	Notes
★ HCD 303: Global Health Care Systems (GCSI OR G)	3	C	<ul style="list-style-type: none"> • If needed, the elective should be used to complete a professional track course. • Consider using upper division medical studies breadth electives to fulfill upper division science pre-requisites for desired graduate programs (biochemistry with lab is highly recommended). • Admissions to health professions graduate schools is very competitive. Students should research recommended cumulative and science GPA minimums for their desired programs. • Complete an in person or virtual practice interview. • Continue gaining hands on experience.
MED 300: Historical and Contemporary Issues in Health (L)	3	C	
Complete 2 courses:			
Upper Division Medical Studies Breadth Elective	6	C	
American Institutions (AMIT)	3		
Minimum 3.00 GPA ASU Cumulative.			
Term hours subtotal:	15		

Term 8 105 - 120 Credit Hours Necessary course signified by ★	Hours	Minimum Grade	Notes
★ HCD 330: Health Care Systems in the U.S. (CIVI)	3	C	<ul style="list-style-type: none"> • Consider using upper division electives to take additional upper division coursework from professional track list if needed or fulfill upper division science pre-requisites for desired graduate programs. • Explore graduate gap-year programs.
MED 450: Leadership and Professionalism	3	C	
Complete 3 courses:			
Upper Division Elective	9		
Term hours subtotal:	15		

- A course in biochemistry with lab is strongly recommended for competitive application to most professional schools.
- Students interested in applying to Physical Therapy graduate programs should major in Kinesiology.
- 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.
- 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.

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

Dentistry Professional Track	Integrative Health (ND/NMD/DC) Professional Track	Medicine (MD/DO) Professional Track
MIC 205: Microbiology (SCIT OR SG) AND MIC 206: Microbiology Laboratory (SCIT OR SG)	BIO 340: General Genetics or LSC 347: Fundamentals of Genetics AND LSC 348: Fundamentals of Genetics Laboratory	BIO 340: General Genetics or LSC 347: Fundamentals of Genetics AND LSC 348: Fundamentals of Genetics Laboratory
PHY 111: General Physics (SCIT OR SQ) AND PHY 113: General Physics Laboratory (SCIT OR SQ)	HSC 300: Complementary Health Care	MIC 205: Microbiology (SCIT OR SG) AND MIC 206: Microbiology Laboratory (SCIT OR SG)

PHY 112: General Physics (SCIT OR SQ) AND PHY 114: General Physics Laboratory (SCIT OR SQ)	MIC 205: Microbiology (SCIT OR SG) AND MIC 206: Microbiology Laboratory (SCIT OR SG)	PHY 111: General Physics (SCIT OR SQ) AND PHY 113: General Physics Laboratory (SCIT OR SQ)
	PSY 341: Developmental Psychology (SOBE OR SB)	PHY 112: General Physics (SCIT OR SQ) AND PHY 114: General Physics Laboratory (SCIT OR SQ)
Occupational Therapy Professional Track	Optometry Professional Track	Pharmacy Professional Track
CHS 260: Health Professions Terminology	MAT 251: Calculus for Life Sciences (MATH OR MA)	COM 225: Public Speaking (CIVI OR L)
PSY 341: Developmental Psychology (SOBE OR SB)	MIC 205: Microbiology (SCIT OR SG) AND MIC 206: Microbiology Laboratory (SCIT OR SG)	MAT 251: Calculus for Life Sciences (MATH OR MA)
PSY 366: Psychological Disorders (SOBE OR SB)	PHY 111: General Physics (SCIT OR SQ) AND PHY 113: General Physics Laboratory (SCIT OR SQ)	MIC 205: Microbiology (SCIT OR SG) AND MIC 206: Microbiology Laboratory (SCIT OR SG)
SOC 400: Perspectives on Aging (SB) or SOC 410: Race, Medicine, and the Body or SOC 418: Aging and the Life Course (SOBE OR SB & H) or SOC 424: Women and Health (SOBE OR SB) or SOC 426: Social Inequalities (CIVI OR SB) or SOC 427: Sociology of Health and Illness (SOBE OR SB)	PHY 112: General Physics (SCIT OR SQ) AND PHY 114: General Physics Laboratory (SCIT OR SQ)	PHY 111: General Physics (SCIT OR SQ) AND PHY 113: General Physics Laboratory (SCIT OR 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	Other options may be possible. See your advisor.	
CHS 260: Health Professions Terminology	BCH 361: Advanced Principles of Biochemistry AND BCH 367: Elementary Biochemistry Laboratory	
MIC 205: Microbiology (SCIT OR SG) AND MIC 206: Microbiology Laboratory (SCIT OR SG)	BCH 371: Modern Concepts in Biochemistry AND BCH 372: Modern Concepts in Biochemistry Laboratory	
	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 350: Health Care and Humanities

MED 375: Alzheimer's and Other Dementias
(SB)

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

NTR 390: Current Nutrition Research

NTR 480: Integrative and Functional
Nutrition

NTR 490: Undergraduate Research Methods
in Nutrition

PBH 410: Public Mental Health

PBH 422: Health Disparities and Access to
Health

- **Total Hours:** 120
- **Upper Division Hours:** 45 minimum
- **University Undergraduate Graduation Requirements**

Notes:

Mathematics Placement Assessment score determines placement in first mathematics course.

General Studies designations listed next to courses on the major map were valid for the 2024 - 2025 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.