2022 - 2023 Major Map Biomedical Informatics, **BS**

School/College: College of Health Solutions

ESBMIBS

Γerm 1 0 - 14 Credit Hours Critical course signified by Φ	Hours	Minimum Grade	Notes	
BIO 181: General Biology I (SQ)	4	C	• ASU 101 or college-specific equivaler First-Year Seminar required of all	
CHS 101: The ASU Experience for Health Solutions Students	1			
CHS 100: Optimizing Your Health and Performance (SB) OR CHS 300: An Exploration of Well-Being (SB)	3	С	first-year students. College of Health Solutions majors take CHS 101 to fulfil this requirement.	
ENG 101: First-Year Composition or ENG 102: First-Year Composition OR ENG 105: Advanced First-Year Composition OR ENG 107: First-Year Composition or ENG 108: First-Year Composition	3	С	 First-year students must complete CHS 100; students who enter with more than 45 hours should complete CHS 300 instead. 	
Elective (MAT 170 recommended)	3		• Students who test into MAT 251 can	
Term hours subtotal:	14		take MAT 170 in Term 1 as a refresher or take an elective course instead.	
Ferm 2 14 - 30 Credit Hours Critical course signified by Φ	Hours	Minimum Grade	Notes	
BMI 110: Introduction to Python	3	C	Visit the CHS Student Site for	
BMI 201: Introduction to Clinical Informatics	3	С	resources, forms, appointment	
◆ MAT 251: Calculus for Life Sciences (MA)	3	С	 scheduling, internship information, e Join a student club or professional 	
BIO 182: General Biology II (SG)	4	C	organization.	
ENG 101: First-Year Composition or ENG 102: First-Year Composition OR ENG 105: Advanced First-Year Composition OR ENG 107: First-Year Composition or ENG 108: First-Year Composition	3	С	 Create a first draft resume. Select your Career Interest Communities and play me3@ASU. 	
Complete ENG 101 OR ENG 105 OR ENG 107 course(s).				
Term hours subtotal:	16			
Ferm 3 30 - 46 Credit Hours Critical course signified by Φ	Hours	Minimum Grade	Notes	
BMI 210: Data Structures and Algorithms in Python	3	С	• Develop your skills	
CHM 113: General Chemistry I (SQ)	4	С	Develop your skins	
BMI 102: Introduction to Population Health Informatics	3	C		
MAT 243: Discrete Mathematical Structures	3	С		
Elective	3			
Complete Mathematics (MA) requirement.				
Term hours subtotal:	16			
Γerm 4 46 - 61 Credit Hours Critical course signified by Φ	Hours	Minimum Grade	Notes	
BMI 221: Knowledge Representation for Biomedical Informatics	2	C	• Explore an interpolin	
bivii 221. Kilowieuge Representation for Bioineulear informatics	3	С	 Explore an internship 	

BMI 310: App Development for Clinical and Population Health	3	С
STP 231: Statistics for Life Science (CS)	3	C
Humanities, Arts and Design (HU) AND Historical Awareness (H)	3	
• Complete BMI 102 AND BMI 201 course(s).		

Term 5 61 - 76 Credit Hours Necessary course signified by	Hours	Minimum Grade
RIO 340: General Genetics	4	С
BMI 311: Modeling Biomedical Knowledge	3	С
BMI 330: Topics in Translational Bioinformatics	3	С
Social-Behavioral Sciences (SB) AND Cultural Diversity in the U.S. (C)	3	
Upper Division Elective	2	

• Update your resume.

 Thinking about graduate school?
 Consider registering for a grad school test prep course.

Notes

Term hours subtotal: 15

Term hours subtotal:

15

Term 6 76 - 91 Credit Hours Necessary course signified by	Hours	Minimum Grade
Am BMI 312: Modeling Biomedical Data	3	C
BMI 440: Software Engineering for Biomedical Informatics	3	С
BMI 465: Introduction to Comparative Genomics	3	С
Humanities, Arts and Design (HU) AND Global Awareness (G)	3	
Elective	3	
Complete Cultural Diversity in the U.S. (C) AND Global		
Awareness (G) AND Historical Awareness (H) course(s).		

 Use Handshake to research employment opportunities

• Complete an in person or virtual practice interview

Notes

Term hours subtotal: 15

Term 7 91 - 106 Credit Hours Necessary course signified by		Minimum Grade
BMI 461: Advanced Topics in Biomedical Informatics I	3	С
BMI 482: Capstone I (L) OR CHS 492: Honors Directed Study	3	С
BMI 410: Database Management in Health Care	3	С
Upper Division Humanities, Arts and Design (HU) OR Upper Division Social-Behavioral Sciences (SB)	3	
Upper Division Elective (BMI 484 OR CHS 394 OR CHS 484 OR CHS 494 recommended)	3	
Term hours subtotal:	15	

 Students are recommended to take BMI 484: Internship, CHS 394: Peer Instructional Facilitator, CHS 484: Citizen Science in Health or CHS 494: Advanced Undergraduate TA for their upper division elective. Visit the CHS student website to learn more.

Notes

Minimum Hours Term 8 106 - 120 Credit Hours Necessary course signified by Grade RMI 404: Clinical Environments 3 C BMI 483: Capstone II (L) OR CHS 493: Honors Thesis (L) 3 C Literacy and Critical Inquiry (L) 3 Complete 2 courses: 5 Elective Term hours subtotal: 14

• Apply for full-time career opportunities.

Notes

- BMI 483 and CHS 493 fulfill the college's experiential learning requirement.
- Barrett Honors College students who take CHS 492 and CHS 493 will need a Literacy and Critical Inquiry (L) course in Term 8.
 Non-Barrett students who take BMI 482 and BMI 483 may take an elective course instead.

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

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.

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.