

Auburn University B.S.-Biomedical Sciences Pre-professional Concentration in Health Sciences

Samford University M.S. – Health Informatics and Analytics

Fall		Spring	
YEAR 1 @ AU (29 hours)			
ENGL 1100 English Composition I	3	ENGL 1120 English Composition II	3
CORE HISTORY I	3	CORE HISTORY II	3
CHEM 1030 Fundamentals Chemistry I	3	CHEM 1040 Fundamental Chemistry II	3
CHEM 1031 Fundamentals Chemistry I Lab	1	CHEM 1041 Fundamental Chemistry II Lab	1
BIOL 1020 Principle of Biology	3	BIOL 1030 Organismal Biology	3
BIOL 1021 Principle of Biology Lab	1	BIOL 1031 Organismal Biology Lab	1
SCMH 1950 COSAM Major & Career Exploration	1		
15			14
YEAR 2 @ Auburn (30 hours)			
Foundational Elective ¹	4	Foundational Elective ¹	4
BIOL 2500 Human Anatomy & Physiology I	3	BIOL 2510 Human Anatomy & Physiology II	3
BIOL 2501 Human Anatomy & Physiology I Lab	1	BIOL 2501 Human Anatomy & Physiology II Lab	1
MATH 1610 Calculus I	4	STAT2510 Statistics for Biologic & Health Sciences	3
SCMH 1890 Pre-Health Professions Orientation	1	COMM 1000 Public Speaking	3
COMP 1210 or 1230 Fundamentals of Computing	3	Experiential Learning Elective ²	1
15			15
JUNIOR YEAR @ Auburn (28 hours)			
BMSC Elective Group A ³	4	BMSC Elective Group A ³	4
BMSC Elective Group B ³	4	BMSC Elective Group B ³	4
PSYC 2010 Introduction to Psychology	3	CORE FINE ARTS	3
CORE LITERATURE	3	STAT 4000 Introduction to Data Science	3
14			14
YEAR 4 @ Auburn & Samford (33 hours)			
BMSC Elective Group A ³	4	BMSC Elective Group A ³	3
BMSC Elective Group B ³	2	BMSC Elective Group B ³	3
CORE SOCIAL SCIENCE	3	Free Elective	5
PHIL 1030 Ethics and the Health Sciences	3	HIIM 502 Electronic Health Records ⁴	3
HIIM 650 Intro to Biomedical Informatics & Analytics ⁴	3	HIIM 653 Data Design &Analysis ⁴	3
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15			18
YEAR 5 @ Samford (30 hours)			

Total: 150 hours

¹ Foundational Electives: Choice of PHYS 1500/1510, CHEM 2070/2080 and labs, BIOL 3000/3001/3200/3201.

² Experiential Learning Electives: Approved undergraduate research, Internship, or Study abroad courses.

³ BMSC Electives Group A and B: Please see advisors for full list of options.

⁴ Graduate level courses from Samford University taken online that can be counted towards both B.S. and M.S. degrees.

Note of changes: 15 credit hours of minor courses replaced by 9 graduate level credit hours from Samford University that can be taken online, 3 credit hours of a computing course, and 3 credit hours of Intro to Data Science course.