

I have been attending the University of Utah for six semesters, and during that time I have had several different majors. One reason for this is that I am interested in a variety of classes that fall under different majors. The common theme among these classes is the human body. The University offers several courses of study that incorporate learning about the human body, however the University does not offer a major dedicated completely to learning about the body. By having Anatomy and Physiology as my major, I am able to take a rigorous course load that fulfills the prerequisites for graduate school and will give me a solid understanding of the mechanics of the body. I hope to attend medical school or podiatry school upon receiving my degree. The schools that I am interested in applying to are not very particular in the applicants' major, only that their applicants have completed the general pre-med classes. During the first two years of medical school and podiatry, there is significant time devoted to learning anatomy, immunology, biochemistry, and other like subjects. All of the topics covered are related to the body and how our structure and function is affected. I hope that by having taken a wide range of classes dealing with the human body during my undergraduate studies, that I will be able to excel in medical school.

As previously mentioned, the University offers several majors that provide one with basic understanding of the human body. Many of these majors satisfy the pre-requisites for medical school. My major is unique because I will gain valuable experience from taking a wide variety of classes from several other departments such as biology, chemistry, exercise sport science, nutrition, and medical laboratory sciences. Taking classes from all of these departments cannot be done with any

other major currently offered by the University! I am absolutely fascinated by the human body, and my goal in taking classes from these departments is to gain a deeper understanding of the body than other majors allot.

For my senior project, I will be working with a team doing research in a molecular biology research lab at the school of medicine. We are studying platelets and the role they play in immunology. A member of our lab made a recent discovery that concerns how platelets divide. His data was primarily drawn off data from experiments done in vitro. One objective of our lab is to study platelets to see if these divisions occur the same way in vivo. My role in these studies will be to collect blood on mice while they are under anesthetic. This includes creating a protocol with a procedure to collect venous blood simultaneously with arterial blood. The vessels that we will be collecting blood from are very specific and our methods need to be consistent. We hope to replicate the results previously proven in vitro and publish the results in a peer-reviewed journal. If given the opportunity, I would like to present my findings in an anatomy-physiology colloquium.

Major Emphasis

Code	Course Number	Course Title	Department	Credit Hours
t	1210	Principles of Biology	BIOL	4
	2020	Cell Biology	BIOL	3
	2210	Human Genetics	BIOL	3
t	2325	Human Anatomy	BIOL	4
ip	2420	Human Physiology	BIOL	4
	3320	Comparative Physiology	BIOL	3
	3360	Vertebrate Embryology	BIOL	3
	4955	Individual Research	BIOL	4
	5030	Basic Immunology	BIOL	3
	5312	Human Dissection	BIOL	1
ip	5313	Teaching Anatomy	BIOL	2
	5315	Advanced Human Anatomy	BIOL	3
ip	5414	Anatomy Colloquium	BIOL	1
ip	1210	General Chemistry I	CHEM	4
ip	1215	General Chemistry I Lab	CHEM	1
	1220	General Chemistry II	CHEM	4
	1225	General Chemistry II Lab	CHEM	1
	2310	Organic Chemistry I	CHEM	4
	2315	Organic Chemistry I Lab	CHEM	1
	3510	Biological Chemistry	CHEM	3
	3515	Biological Chemistry Lab I	CHEM	2
	3091	Physiology of Fitness	ESS	3
	3093	Biomechanics	ESS	3
	4300	Hematology I	MDLB	3
	4310	Hematology II	MDLB	2
	4320	Coagulation	MDLB	2
		Nutrition Intervention in Treatment and Prevention		
	3010	of Chronic Disease	NUTR	4
t	3100	Intro. To Medical Microbiology	PATH	3
t	3520	Bioethics	PHIL	3
	2010	General Physics I	PHYS	4
	2015	General Physics I Lab	PHYS	1
	2020	General Physics II	PHYS	4
	2025	General Physics Lab II	PHYS	1
t	3110	Physics of the Human Body I	PHYS	3
ip	3111	Physics of the Human Body II	PHYS	4

<i>t</i>	<i>ip</i>	<i>remaining</i>
17	16	65

Total	98
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Above 4000	21
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Above 3000	55
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General Education Requirements

Code	Course Number	Course Title	Department	Credit Hours	Fulfills
t	1010	Intro to Music	MUSC	3	FF
t	1080	Survey of Jazz	ART	4	FF
t	2550	African American Experiences	ETHNC	3	HF
t	3520	Bioethics	PHIL	3	HF
t	1300	World Regional Geogrophy	GEOG	3	BF
t	1500	Human Growth & Development	FCS	3	BF
t	1210	Principles of Biology	BIO	4	SF
t	3110	Phyiscs of the Human Body I	PHYS	4	AS

Code	Course Number	Course Title	Department	Credit Hours	Fulfills
t	AP	Math Calculus BC		12	QA
t	1040	Introduction to Statistical Thinking	MATH	3	QB
	3091	Physiology of Fitness	ESS	3	QI
	3093	Biomechanics	ESS	3	QI
t	1100	U.S. National Government	POLS	3	AI
t	2010	Intermediate Writing	WRTG	3	WR2
					CW
t	2550	African American Experiences	ETHNC	3	DV

All Other Course Work

Code	Course Number	Course Title	Department	Credit Hours
t	1200	Prep For General Chemistry I	CHEM	3
t	2010	Computer Essentials	IS	3
t	1010	Beginning Spanish I	SPAN	4
t	1020	Beginning Spanish II	SPAN	4
t	1110	Elementary Chemistry	CHEM	4
t	1115	Elementary Chemistry Lab	CHEM	1
t	1020	Science Foundation Nutrition & Health	NUTR	3
ip	2500	Explore Movement Science	ESS	3

Hours by College

College	Credit Hours	
College of Fine Arts	7	music, art
College of Health	23	ess, nutr
College of Humanities	14	comm, eng, hist, lang, ling,
Ethnic Studies	3	philosophy, writing
College of Science	64	bio, chem, math, physics
College of Social and Behavioral Science	9	fcs, geog, polisci, psycho, socio
Medical Laboratory Science	13	
AP Test Credit	12	
Operations and Information Systems	3	
Total hours completed	90	148
Hours in Progress	19	
Total hours yet to be completed(excluding ip)	66	
Total upper-division hours	56	
Total hours counting toward graduation	175	