	All ma	2021-22 BISC Major requirements for a ajor courses must be completed with a C- o	r bette	er and wi	th major GPA of at least 2.0	NRSC minor 18 cr max. 6 cr. overlap w/BISC	MCC Conf
			Cr.	Offered	Prerequisites	major	
cr.	BISC 3135	Clinical Human Anatomy	4	Fall	BIOL 1002		
2	BISC 2070 OR	Biochemistry for Health Professionals	3	Spring	BISC 2050, 2060 or CHEM 2111/2113		
1-1	BISC 3213	Biochemistry (Requ. for MU PA, Recom. For pre-med)	4		CHEM 2111 (will need permission # in spring 22if not taking 2112)		
H	BISC 4145	Human Physiology	4	Fa/Sp/Su	BISC 3135 and biochemistry course		
<u> </u>	BISC 3110	Nutritional Aspects of Health	3	Fall	BISC major and a course in biochemistry		BNJ-N
aj.	BISC 3112	Head & Neck Anat. (or BISC 4113 Anat. Fellows)	3	Fall	BISC 3135 and BISC major or consent of instructor		
Ξ	BISC 3850	Systems Neuroscience	3	Fall/Spr	BIOL 1001	2 of 4	CMI-N
ō	BISC 4140	Functional Neuroanatomy (or BISC 5140)	3	Spring	BISC 3135 or BISC 7130	2 of 4	CMI-N
ş	BISC 4173	Principles of Human Embryology (or BISC 5173)	3	Spring	BIOL 1002 and BISC 3135		
edit	BISC 4325	Endocrinology (or BISC 5325)	3	Spring	BIOL 1002; and BISC 4145 or BIOL 3701	Х	CMI-N
ē	BISC 4514	Human Microanatomy (or BISC 7514 for PRDS)	4	Fall	BISC 1001 and BISC 3135		
8	BISC 7130	Human Gross Anatomy	5	Fall	admitted to DPT or OTD program		
	BISC 7230	Medical Anatomy	6	Summer	admitted to MPA program		
Ja Ja	BISC 7515	Biomedical Systems 1	3	D1	Pre-Dental Scholars (PRDS)		
	BISC 9391	Signifies transfer credits for this content area	Var.	N/A	N/A		
	BISC 3115	Human Microbiology (or BISC 7410 for PRDS)	3	Fall	BIOL 1002 and Biochemistry (can be concurrent)		
	BISC 4160	Molecular Pathology (or BISC 5160)	3	Fall	Biochemistry (can be concurrent)		
	BISC 4210	Biology of Aging	3	Fall	BISC 4145	х	
S	BISC 4340	Human and Applied Medical Genetics (or BISC 5340)	3	Fall	Biochemistry (last spring offering spring 22)		
dits	BISC 8001	Neuroscience Foundations 1	3		Admitted ADP for the Neuroscience PhD program		
re	BISC 9392	Signifies transfer credits for this content area	Var.	N/A	N/A		
9	BIOL 3201	Genetics	3	Spring	BIOL 1001/1002		
	BIOL 3301	Cell Biology	3	Fall	BIOL 1001/1002		
	BIOL 4501	Cellular Neurobiology	3	Spring	BIOL 1002	2 of 4	CMI-N
	BIOL 4301	Immunobiology	3	Spring	BIOL 1002 BIOL 1001/1002	2014	CIVII-IV
	BISC 3150	General Pathology	3	Spring	BISC 3135 & BISC 4145 (can be conc.); or BISC 1015		
	BISC 4120	Pharmacology (or BISC 7220 for PA)	3	Spring	Biochemistry and BISC 4145		
	BISC 4150	Outbreaks, Epidemics and Pandemics (or BISC 7150)	3	<u> </u>	BISC 3115 or BIOL 4801		CB-N
ts	BISC 4150 BISC 4155	Diseases of the Brain (or BISC 5155)	3	Spring Fall	BISC 3135 & BISC 4145		CMI-V
edits				1		Х	CIVII-IV
5	BISC 4160	Molecular Pathology (or BISC 5160)	3	Fall	Biochemistry (can be concurrent)		
9	BISC 4275	Modern Plagues: Stress, Trauma and Addiction	3	21.12	1		
	BISC 9393	Signifies transfer credits for this content area	var.	N/A	N/A		
	OCTH 7150	Clinical and Health Conditions	3		admitted to OTD program		
	PHTH 7515	Pathology/Pathophysiology	4	DPT4	admitted to DPT program		
	BISC 1001	Contemporary Issues in Biomedical Sciences	1	Fall	Mandatory for all new freshman in BISC major		
	BISC 1030	Introduction to Dentistry	1	Spring	Pre-dental Scholars; Consent required		
	BISC 3136	Gross Anataomy for the Biomedical Sciences	3	Spring	BISC 3135 and consent of instr.		
	BISC 3859	Evolution	3	Spring	BIOL 1001/1002, biochem. & instuctor consent		CB-N
	BISC 4010	Neuroeconomics: The Neurosc. of Decision Making	3			Х	
	BISC 4020	Molecular Neuroscience	3			2 of 4	
	BISC 4113	Anatomy Teaching Practicum	3	Fall	BISC Major and BISC 9002 prior summer, consent		
	BISC 4142	Science and Society	1	Spring	BISC Major and jr. standing		
	BISC 4146/H	Physiology In Depth: Contemp. Issues	1	Fall	BISC 4145		
	BISC 4147	Human Physiology Lab	1	Spring	BISC 4145 (can be conc.)		
(BISC 4151/H	Advanced Pathology	1	Spring	BISC 3150 (can be concurrent)		
<u> </u>	BISC 4153	Epidemiology	3	Spring	BISC major or MLSC 2060 or HEAL 1025		IC-NS
ຮັ	BISC 4157	Global Health	3	Fall	Jr. Standing; and MLSC 2060 or BISC 4153		CB-N
.×	BISC 4159	Pub. Hith Prgrm Plan., Implem. and Eval. (or BISC 7159)	3	Fall			
_	BISC 4165	Microbiology Lab	1	Spring	BISC 3115 and consent of instructor		
6	BISC 4170	Biology, Moral Behavior and Policy	3	Spring	BISC 3135	х	IC-NS
93	BISC 4214/H	Advanced Biochemistry	1	Fall	BISC 3213		
õ	BISC 4341/H	Advanced Cellular Genetics and Cancer	1	Fall	BISC 4340		
Bis	BISC 4460	Practical Cases in Medicine	3	Fall	BISC 4145 and consent of instructor		BNJ-N
٦	BISC 4851/H	Advanced Systems Neuroscience	1	Spring	BISC 3850		
a	BISC 4931	Topics in Biomedical Sciences	var.	Occas.	Varies by Topic		
5	BISC 4953	Readings in Anatomy	1	Occas.	BISC 3136		
Σ	BISC 4986*	Internship in BISC	1-3	•	Approval of Internship Director	1	Ī
at	BISC 4987*	Internship in BISC - Grading	1-3	Fall	Must be paired w/BISC 3987 in prior summer	1	
es	BISC 4988*	Research Internship in BISC	1-3		Approval of Internship Director		l
Ľ	BISC 4989*	Research Internship in BISC-Grading	1-3	Fall	Must be paired w/BISC 3989 in prior summer		
2	BISC 4991H*	Honors Community Engagement in BISC	1-3		Limited to Students in the Honors Program	1	
Š	BISC 4995/H*	Independent Study	1-3		Consent of instructor	w/approval	—
<u>:</u>	BISC 4997H	Capstone for Disciplinary Honors Program	1	Spring	Accepted to BISC Disciplinary Honors Program	, αρριοναί	—
٠ <u>,</u>	BISC 7180	Clinical Neuroanatomy	3	Spring	Admitted to PA program	1	
_	BISC 7514	Human Microanatomy	4	Spring	Pre-Dental Scholar (PRDS)	1	
31	BISC 7514		4	D1	Pre-Dental Scholar (PRDS)	1	
49	BISC 7516 BISC 8002	Biomedical Systems 2	3	1	BISC 8001 & ADP in Neuroscience PhD	1	
သွ		Neuroscience Foundations 2		Spring		1	-
B	BIOL 4102	Experimental Molecular Biology Experimental Constitution	3	Occas.	BIOL 1001	 	\vdash
	BIOL 4202	Experimental Genetics	3	Spring	BIOL 2201 (can be concurrent) and consent	 	
	BIOL 4302	Experimental Cell Biology	3	Fall	BIOL 2301 (can be concurrent)	+	
	BIOL 4501	Cellular Neurobiology	3	. .	DIOL 3504 (see)	1	⊢—
	BIOL 4502	Experimental Neurobiology	3	Spring	BIOL 3501 (can be concurrent) and consent	+	
	BIOL 4702	Experimental Physiology	3	Fall	BIOL 3701 (can be concurrent) and consent	<u> </u>	<u> </u>
	BIOL 4802	Experimental Microbiology	3	Fall	BIOL 1002/1002H and consent		<u> </u>
	BIOL 4806	Immunobiology	3	ļ			ļ
	MLSC 2050	Forensic Science	3	Spring	None		
	MLSC 2060	Public Health	3	Spring	None		BNJ-N
		Nouroanatomy	3	Spring	admitted to OTD program		I
	OCTH 7190 PHTH 7120	Neuroanatomy	3	Spring	damitted to 012 program		

Other Degree Requirements (Biomedical Sciences Cognates)

Science Cognates - complete all of the following Credits Offered								
BIOL 1001	General Biology 1 3	FA/SUM						
BIOL 1002	General Biology 2 3	SPR/SUM						
CHEM 1001	General Chemistry 1 4	FA/SPR/SUM						
CHEM 1002	General Chemistry 2 4	FA/SPR/SUM						
CHEM 2111	Organic Chemistry 1 4	FA/SUM	For pre-med, dent, PA, other prof. programs					
or BISC 2050	Organic Chemistry for the Health Sciences 1	FA only	For programs not requiring year of o-chem (i.e. PT)					
Lab Cognate	e - complete one of the following	Offered	Prerequisites					
BIOL 2001	Princ. of Biological Investigation (for programs needing 8 cr. of BIO with lab)	FA/SPR/SUM	BIOL 1002 (can be concurrent)					
MLSC 2200	Concepts in Medical Laboratory Medicine	Fall	MLSC major, BIOL 1001/1002 & CHEM 1001/1002	T				
PHAS 7270	Diagnostics Technology	PA1	admitted to PA	T				
Health and	Society Cognate (H&S) - complete one of the following							
BISC 4153	Epidemiology (BISC elective or H&S cognate, NOT both)	Spring	BISC major or MLSC 2060 or HEAL 1025					
BISC 4157	Global Health (BISC elective or H&S cognate, NOT both)	Fall	JR. standing and MLSC 2060 or BISC 4153	1				
BISC 4170	Biology, Moral Behavior and Policy (BISC elective or H&S cognate, NOT both)	Spring	BISC 3135	T				
BISC 4275	Modern Plagues: Stress, Trauma & Addiction (BISC elective or H&S, NOT both)	Occas.	BISC 4145 and cons. of instr.	<u> </u>				
BISC 4381	Politics of U.S. Health Care	Fall	Jr. Standing					
BISC 4461	Comparative Health Politics and Policy	Spring	Jr. Standing					
MLSC 2060	Public Health (applies as BISC elective or H&S cognate, but NOT both)	Spring	None	BNJ-NSM				
CMST 4500	Health Communication	Spring	CMST 2100 or instructor consent	BNJ-SSC				
COMM 4330	Health, Science and Environmental Communication	Spring	None					
ENGL 3222	Writing for Health and Medicine		ENGL 1001 or HOPR 1955H	DSCV/WRIT				
ENGL 4661	Medicine and Literature		ENGL 1001 or HOPR 1955H	DSCV/WRIT				
HEAL 1025	Culture and Health	every term	None	ESSV1				
HEAL 1200	Women's Health	Fall/Spring	None					
HEAL 1400	Veteran Health and Culture	every term	None					
HEAL 2100	Primary Health Care Concepts	Fall/Spring	Sophomore standing					
PSYC 2101	Introduction to Life-Span Devleopmental Psychology for Nursing Students	Fall	PSYC 1001					
PSYC 3101	Developmental Psychology: Conception through Adolescence	Fall/Spr/Sum	PSYC 1001					
PSYC 3120	Developmental Psychology: Adulthood and Aging	Spr/Sum	PSYC 1001					
PSYC 3220	Human Sexuality	Fall/Spr	PSYC 1001					
PSYC 3420	Health Psychology	Spring	PSYC 2050 or PSYC 3601	ESSV2/IC-SSC				
SOCI 3300	Sociology of the Life Course	Fall	SOCI 1001 recommended					
SOCI 3500	Culture, Health and Illness	Spring	SOCI 1001, ANTH 1001 or ANTH 2101 recom.	<u> </u>				
SOCI 3520	Health Care Systems	Inactive	SOCI 1001 recommended					
SOCI 3550	Race, Gender and Medicine	Fall	SOCI 1001, ANTH 1001 or ANTH 2101 recom.					
SOCI 3570	Men, Masculinities and Health	Fall	SOCI 1001 recommended	†				
SOCI 4300	Sociology of Aging	Spring	SOCI 1001 recommended	1				
SOWJ 1001	Introduction to Social Welfare and Justice	every term	None	ESSV1				
SOWJ 2200	Human Behavior in the Social Environment	Fall/Spring	None	1 23312				
SOWJ 4700	Global Aid and Humanitarianism	Spring	None	ESSV2				
SPAN 4715	Advanced Spanish for the Health Professions	every term	SPAN 3710 or SPAN 3005	1 -5512				
BISC 4930	Special Topics (approved based on topic)	variable	BISC dept. approval based on topic					
BISC 4931	Topics In (approved based on topic)	variable	BISC dept. approval based on topic					
PHAS 7095	Public Health	Fall PA1	admitted to the PA program					
	ognate - complete one of the following	Offered	durinted to the myrogram	CMI NSM CD				
NAATU 1700	Modern Flomentany Statistics	EA /5		CMI-NSM CB- NSM				
MATH 1700	Modern Elementary Statistics	FA/Spr/Sum						
MATH 4720	Statistics Methods Distriction Methods and Medala (consequence and for MCAT area)	FA/Spr/Sum		EH-NSM				
MATH 4740	Biostatistics Methods and Models (recommended for MCAT prep)	Fall		-				
PSYC 2001	Psychological Measurements and Statistics (4 credits)	Inactive		-				
SOCI 2060 Social Statistics Fall/Spr/Sum Medical Ethics Cognate - complete one of the following Offered								
		Offered	All IDC at LIFCC and a					
HEAL 3200	Bioethics for Healthcare (Can fulfill BISC H&S or Medical Ethics cognate, NOT both)	Fall/Spr	NURS or HESC major	BNI				
PHIL 4335	Biomedical Ethics (3 credits)	Fall/Spr	PHIL 2310 and soph. standing	BNJ-HUM				
PHIL 4336	Applied Ethics for the Health Sciences (1 credit)	Fall/Spr	PHIL 2310 and jr. standing					
THEO 4450	Medical Ethics (3 credits)	Spring	THEO 1001 and Jr. standing	EH-HUM				
PHAS 7245	Professional and Ethical Issues (3 credits)	Spring PA2	admitted to the PA program					