

2021-22 BISC Major requirements for a minimum 33 credits in the major				NRSC minor 18 cr. - max. 6 cr. overlap w/BISC major	MCC Content Fulfilled	
All major courses must be completed with a C- or better and with major GPA of at least 2.0						
		Cr.	Offered	Prerequisites		
Required 11-12 cr.	BISC 3135	4	Fall	BIOL 1002		
	BISC 2070 OR BISC 3213	3	Spring	BISC 2050, 2060 or CHEM 2111/2113		
	BISC 4145	4	Fa/Sp/Su	CHEM 2111 (will need permission if in spring 22 if not taking 2112)		
Anatomy/Systems Max. 3 credits for major	BISC 3110	3	Fall	BISC 3135 and a course in biochemistry	BNJ-NSM	
	BISC 3112	3	Fall	BISC major and a course in biochemistry		
	BISC 3850	3	Fall/Spr	BIOL 1001	2 of 4	
	BISC 4140	3	Spring	BISC 3135 or BISC 7130	2 of 4	
	BISC 4173	3	Spring	BIOL 1002 and BISC 3135		
	BISC 4325	3	Spring	BIOL 1002; and BISC 4145 or BIOL 3701	x	
	BISC 4514	4	Fall	BISC 1001 and BISC 3135		
	BISC 7130	5	Fall	admitted to DPT or OTD program		
	BISC 7230	6	Summer	admitted to MPA program		
	BISC 7515	3	D1	Pre-Dental Scholars (PRDS)		
	BISC 9391	Var.	N/A	N/A		
	Cell/Molecular 6 credits	BISC 3115	3	Fall	BIOL 1002 and Biochemistry (can be concurrent)	
BISC 4160		3	Fall	Biochemistry (can be concurrent)		
BISC 4210		3	Fall	BISC 4145	x	
BISC 4340		3	Fall	Biochemistry (last spring offering spring 22)		
BISC 8001		3		Admitted ADP for the Neuroscience PhD program		
BISC 9392		Var.	N/A	N/A		
BIOL 3201		3	Spring	BIOL 1001/1002		
BIOL 3301		3	Fall	BIOL 1001/1002		
BIOL 4501		3	Spring	BIOL 1002	2 of 4	
BIOL 4806		3	Spring	BIOL 1001/1002		
Dis/Pathology 6 credits	BISC 3150	3	Spring	BISC 3135 & BISC 4145 (can be conc.); or BISC 1015		
	BISC 4120	3	Spring	Biochemistry and BISC 4145		
	BISC 4150	3	Spring	BISC 3115 or BIOL 4801	CB-NSM	
	BISC 4155	3	Fall	BISC 3135 & BISC 4145	x	
	BISC 4160	3	Fall	Biochemistry (can be concurrent)		
	BISC 4275	3				
	BISC 9393	var.	N/A	N/A		
	OCTH 7150	3		admitted to OTD program		
	PHTH 7515	4	DPT4	admitted to DPT program		
	BISC electives (also includes content courses once content area completed) BISC 4031 (Topics Courses at MU) and BISC 9390 (Tx Credits)	BISC 1001	1	Fall	Mandatory for all new freshman in BISC major	
		BISC 1030	1	Spring	Pre-dental Scholars; Consent required	
		BISC 3136	3	Spring	BISC 3135 and consent of instr.	
BISC 3859		3	Spring	BIOL 1001/1002, biochem. & instructor consent	CB-NSM	
BISC 4010		3			x	
BISC 4020		3			2 of 4	
BISC 4113		3	Fall	BISC Major and BISC 9002 prior summer, consent		
BISC 4142		1	Spring	BISC Major and Jr. standing		
BISC 4146/H		1	Fall	BISC 4145		
BISC 4147		1	Spring	BISC 4145 (can be conc.)		
BISC 4151/H		1	Spring	BISC 3150 (can be concurrent)		
BISC 4153		3	Spring	BISC major or MLSC 2060 or HEAL 1025	IC-NSM	
BISC 4157		3	Fall	Jr. Standing; and MLSC 2060 or BISC 4153	CB-NSM	
BISC 4159		3	Fall			
BISC 4165		1	Spring	BISC 3115 and consent of instructor		
BISC 4170		3	Spring	BISC 3135	x	
BISC 4214/H		1	Fall	BISC 3213		
BISC 4341/H		1	Fall	BISC 4340		
BISC 4460		3	Fall	BISC 4145 and consent of instructor	BNJ-NSM	
BISC 4851/H		1	Spring	BISC 3850		
BISC 4931		var.	Occas.	Varies by Topic		
BISC 4953		1	Occas.	BISC 3136		
BISC 4986*		1-3	Fa/Sp/Su	Approval of Internship Director		
BISC 4987*		1-3	Fall	Must be paired w/BISC 3987 in prior summer		
BISC 4988*		1-3	Fa/Sp/Su	Approval of Internship Director		
BISC 4989*		1-3	Fall	Must be paired w/BISC 3989 in prior summer		
BISC 4991H*		1-3	Fa/Sp/Su	Limited to Students in the Honors Program		
BISC 4995/H*		1-3	Fa/Sp/Su	Consent of instructor	w/approval	
BISC 4997H		1	Spring	Accepted to BISC Disciplinary Honors Program		
BISC 7180		3	Spring	Admitted to PA program		
BISC 7514		4	Spring	Pre-Dental Scholar (PRDS)		
BISC 7516		4	D1	Pre-Dental Scholar (PRDS)		
BISC 8002		3	Spring	BISC 8001 & ADP in Neuroscience PhD		
BIOL 4102		3	occas.	BIOL 1001		
BIOL 4202		3	Spring	BIOL 2201 (can be concurrent) and consent		
BIOL 4302		3	Fall	BIOL 2301 (can be concurrent)		
BIOL 4501		3				
BIOL 4502		3	Spring	BIOL 3501 (can be concurrent) and consent		
BIOL 4702		3	Fall	BIOL 3701 (can be concurrent) and consent		
BIOL 4802		3	Fall	BIOL 1002/1002H and consent		
BIOL 4806		3				
MLSC 2050		3	Spring	None		
MLSC 2060		3	Spring	None	BNJ-NSM	
OCTH 7190		3	Spring	admitted to OTD program		
PHTH 7120		2	Spring	admitted to DPT program		

\* can be repeated for a maximum of 6 credits with only 3 credits counting toward BISC major.

#### Other Degree Requirements (Biomedical Sciences Cognates)

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