

## 2024-25 BISC Major requirements for a minimum 33 credits in the major with C- or higher

BISC Required Courses: three courses, 11-12 credits depending on the biochemistry option taken						
Required						
BISC 3135	Clinical Human Anatomy	4	Fall/Sp	BIOL 1001 and BIOL 1002		
BISC 3213	Biochemistry (Requ. for MU PA, Recom. For pre-med)	4	Fa/Sp/Su	CHEM 2111		
BISC 4145	Human Physiology	4	Fa/Sp/Su	BISC 3135 and biochemistry course		
BISC Co					NRSC minor - max 6 cr. also for BISC	DSCV Content Fulfilled
BISC 3110	Nutritional Aspects of Health	3	Fall	Jr. stndg. and a course in biochemistry		BNJ
BISC 3112/4113	Head & Neck Anat. ( BISC 4113 Anatomy Fellows only)	3	Fall	BISC 3135 and BISC major		
BISC 3150^	General Pathology	3	Spring	BISC 3135 & BISC 4145 (can be conc.)		
BISC 4850	Systems Neuroscience	3	Fall	BIOL 1001	2 of 4	COG
BISC 4010	Neuroeconomics: The Neurosc. of Decision Making	3	Spring	BISC 3850, BISC 4140 or PSYC 3601	x	COG
BISC 4120^/7220^	Pharmacology (BISC 7220 for PA)	3	Spring	Biochemistry and BISC 4145		ExH
BISC 4140/5140	Functional Neuroanatomy	3	Fall	BISC 3135 or BISC 7130	2 of 4	COG
BISC 4155/5155	Diseases of the Brain	3	Fall	BISC 3135 & BISC 4145	x	COG
BISC 4173/5173	Principles of Human Embryology	3	Spring	BIOL 1002, BISC 3135 and Jr Stndg		
BISC 4325/5325	Endocrinology (or BISC 5325)	3	Spring	BISC 4145 or BIOL 4701	x	COG/WRIT
BISC 4514/7514	Human Microanatomy (BISC 7514 for PRDS)	4	Fall	BISC 1001 and BISC 3135		
BISC 7130	Human Gross Anatomy	5	Fall	admitted to DPT or OTD program		
BISC 7230	Medical Anatomy	6	Summer	admitted to MPA program		
BISC 7515	Biomedical Systems 1	3	D1 Fa	Pre-Dental Scholars (PRDS)		
EXPH 5192	Advanced Exercise Physiology (EXRS ADP only)	3	Fall	admitted to EXRS ADP program		
OCTH 7150^	Clinical and Health Conditions 1 (OTD only)	3	OTD Fa	admitted to OT program		
PHTH 7515^	Clinical Pathology and Pathophys (DPT only)	4	DPT Sp	admitted to PT program		
BISC 3115/7410	Human Microbiology (BISC 7410 for PRDS)	3	Fall	BIOL 1002 and Biochemistry (can be concurrent)		
BISC 4020	Molecular Neuroscience	3	Spring	BIOL 1001 and Soph Stndg	2 of 4	
BISC 4160^/5160^	Molecular Pathology	3	Fall	Biochemistry (can be concurrent)		ExH
BISC 4210	Biology of Aging	3	Fall	BISC 4145	x	ExH
BISC 4340/5340	Human and Applied Medical Genetics	3	Fall	Biochemistry		ExH
BISC 4342	Epigenetics and Human Disease	3	Spring	Biochemistry, which can be concurrent		
BIOL 3201	Genetics	3	Spring	BIOL 1001		ExH
BIOL 3301	Cell Biology	3	Fall	BIOL 1001		
BIOL 4501	Cellular Neurobiology	3	Spring	BIOL 1002	2 of 4	COG
BIOL 4806	Immunobiology	3	Spring	None		
BISC Electives (courses marked with * can be repeated a max of 6 cr., only 3 cr. towards BISC major)						
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 2020	Medical Terminology	1	Fa Even; Spr	BISC 3135		
BISC 3136	Gross Anatomy for the Biomedical Sciences	3	Spring	BISC 3135 and consent of instr.		
BISC 3859	Evolution	3	Occas.	BIOL 1001/1002, biochem. & cons. of instr.		CB
BISC 3954	U-RISE Entering Biomedical Research Seminar 1	1.5	Fall	Accepted to the URISE program.		
BISC 3955	U-RISE Entering Biomedical Research Seminar 2	1.5	Spring	Accepted to the URISE program.		
BISC 3956	U-RISE Entering Biomedical Research Seminar 3	1.5	Fall	Accepted to the URISE program.		
BISC 3957	U-RISE Entering Biomedical Research Seminar 4	1.5	Spring	Accepted to the URISE program.		
BISC 4113	Anatomy Teaching Practicum	3	Fall	Consent only. Can't also earn credit for BISC 3112		
BISC 4142/H	Science and Society	1	Occas.	BISC Major and jr. standing		
BISC 4146/H	Physiology In Depth: Contemp. Issues	1	Spring	BISC 4145		
BISC 4147	Human Physiology Lab	1	Spring	BISC 4145 (can be conc.)		
BISC 4150	Outbreaks, Epidemics and Pandemics (or BISC 7150)	3	Spring	BISC 3115 and Sr Stndg		CB
BISC 4151/H	Advanced Pathology	1	Spring	BISC 3150 (can be concurrent)		
BISC 4153	Epidemiology	3	Spring	BISC major & Jr Stndg; or MLSC 2060		IndC
BISC 4157	Global Health	3	Fall	Jr. stndg.; and MLSC 2060 or BISC 4153		
BISC 4165	Microbiology Lab	1	Spring	BISC 3115 and cons. of instr.		
BISC 4170	Biology, Moral Behavior and Policy	3	Spring	BISC 3135	x	IndC
BISC 4214/H	Advanced Biochemistry	1	Occas.	BISC 3213		
BISC 4275	Modern Plagues: Stress, Trauma and Addiction	3	Occas.	BISC 4145 and cons. of instr.		
BISC 4341/H	Advanced Cellular Genetics and Cancer	1	Fa/Spr Even	BISC 4340		
BISC 4460	Practical Cases in Medicine	3	Fall	BISC 4145 and cons. of instr.		BNJ/ESSV2
BISC 4851/H	Advanced Systems Neuroscience	1	Spr Odd Yr	BISC 3850		
BISC 4931	Topics in Biomedical Sciences	var.	Occas.	Varies by Topic		
BISC 4953	Readings in Anatomy	1	Fall Odd Yr	BISC 3136 or 3112, which may be concurrent		
BISC 4986*	Internship in BISC	1-3	Fa/Sp/Su	Approval of Internship Director		
BISC 4987*	Internship in BISC - Grading	1-3	Fall	Must be paired w/BISC 3987 in prior summer		
BISC 4988*	Research Internship in BISC	1-3	Fa/Sp/Su	Approval of Internship Director		
BISC 4989*	Research Internship in BISC-Grading	1-3	Fall	Must be paired w/BISC 3989 in prior summer		
BISC 4991H*	Honors Community Engagement in BISC	1-3	Fa/Sp/Su	BISC Disciplinary Honors Program		
BISC 4995/H*	Independent Study	1-3	Fa/Sp/Su	Consent of instructor	w/approval	
BISC 4997H	Capstone for Disciplinary Honors Program	1	Spring	BISC Disciplinary Honors Program		
BISC 7516	Biomedical Systems 2	4	D1 Spr	Pre-Dental Scholar (PRDS)		
BIOL 4102	Experimental Molecular Biology	3	occas.	BIOL 3101 or CHEM 4530 and BIOL 4532 or equiv.		
BIOL 4202	Experimental Genetics	3	Spring	BIOL 3201 (can be concurrent) and consent		
BIOL 4302	Experimental Cell Biology	3	Fall	BIOL 3301 and consent		
BIOL 4502	Experimental Neurobiology	3	Spring	BIOL 4501 (can be concurrent) and consent		
BIOL 4702	Experimental Physiology	3	Fall	BIOL 4701 (can be concurrent) and consent		
BIOL 4802	Experimental Microbiology	3	Fall	BIOL 4801 and consent		
MLSC 2050	Forensic Science	3	Spring	None		
MLSC 2060	Public Health	3	Spring	None		BNJ
MLSC 4124	Medical Bacteriology 1	4	Spring	Biochemistry and cons. of instr.		
MLSC 4127	Medical Microbiology 2	4	Spring	MLSC 4124 and cons. of instr.		
OCTH 7190	Neuroanatomy	3	OTD Sp	admitted to OT program		
PHAS 7260	Pediatric Medicine	3	PA Sp	admitted to PA program		
PHTH 7120	Pharmacology in Physical Therapy	2	DPT Sp	admitted to PT program		