

2025-2026 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 1002		
	BISC 3213	Biochemistry	4	Fa/Sp	CHEM 2111		
	BISC 4145	Human Physiology	4	Fa/Sp/Su	BISC 3135 and biochemistry course		
BISC Content Areas: Five Courses (minimum 15 credits) including at least two courses from Anatomy and Systems (BISC AS) and two courses from Cellular and Molecular (BISC CM). At least one course designated as Disease and Pathology cognate^ must be taken.						NRSC minor - max 6 cr. also for BISC	DSCV Content Fulfilled
BISC AS (Anat/Systems)	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)	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 4113	Anatomy Teaching Practicum	3	Fall	Consent only. Can't also earn credit for BISC 3112		
	BISC 4120^/7220^	Pharmacology (BISC 7220 for PA)	3	Spring	Biochemistry and BISC 4145		ExH
	BISC 4140/5140	Functional Neuroanatomy	3	Spring	BISC 3135 or BISC 7130	2 of 4	COG
	BISC 4155/5155	Diseases of the Brain	3	Sp(not in 26)	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)		
	BISC 8002	Neuroscience Foundations 2	4	Spring	admitted to Neuroscience PhD Program		
	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 CM (Cell/Molecular)	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^	Human Molecular Pathology and Clinical Therapeutics	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 4342/5342	Epigenetics and Human Disease	3	Spring	Biochemistry, which can be concurrent		
	BISC 8001	Neuroscience Foundations 1	4	Fall	admitted to Neuroscience PhD program		
	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: Select additional courses from the content areas above or the list below to achieve the minimum 33 credits in the BISC major with C- or higher.							
BISC Electives (courses marked with * can be repated 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	URISE Entering Biomedical Research Seminar 1	2	Fall	accepted to the URISE program		
	BISC 3955	URISE Entering Biomedical Research Seminar 2	2	Spring	accepted to the URISE program		
	BISC 3956	URISE Entering Biomedical Research Seminar 3	2	Fall	accepted to the URISE program		
	BISC 3957	URISE Entering Biomedical Research Seminar 4	2	Spring	accepted to the URISE program		
	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 4150/7150	Outbreaks, Epidemics and Pandemics	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 PBHE minor & MLSC 2060		IndC
	BISC 4157/7157	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 and JR stndg	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/H	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 4124/7124	Medical Bacteriology 1	4	Spring	Biochemistry and cons. of instr.		
	MLSC 4127/7127	Medical Microbiology 2	4	Spring	MLSC 4124 and cons. of instr.		
	OCTH 7195	Neuroscience	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		