Course Material Fee Rates and Courses List Winter 2018 Cross-Listed Course Course # Course Title Cross-Listed Department Approved Fee Date of approval Department Type **College of Natural and Agricultural Sciences** Biochemistry Lab Intro Biochemical Laboratory \$80 4/13/09 102 Lab Introductory Biochemistry Laboratory \$80 4/13/09 162 Lec Biochemistry and Molecular Biology \$150 4/13/09 Biology Lab Cellular Basis of Life \$50 5/16/03 3 Lab Organisms in Their Environment \$50 5/16/03 Introduction to Cell and Molecular 5LA Lab Biology Lab \$50 5/16/03 5B Lab Introduction to Organismal Biology \$50 5/16/03 5C Introduction to Evolution and Ecology Lab \$50 5/15/12 20 Lab Dynamic Genome \$50 4/12/11 100 Lab General Entomology Entomology 100 \$30 5/15/12 Botany and Plant 104 Lab Foundations of Plant Biology Sciences 104 \$30 5/25/17 118 Lab Molecular Phylogenetics & Evolution \$50 5/16/03 121L Lab Microbiology Laboratory Microbiology 121L \$50 5/16/03 Botany and Plant 132 Lab Plant Anatomy Sciences 132 \$40 5/25/17 Botany and Plant 138 Lab Plant Development Morphology 138 Sciences \$30 5/15/12 Botany and Plant 143 Lab Plant Physiology Sciences 143 \$50 5/25/17 151 Lab Invertebrate Zoology \$50 5/16/03 160L Lab Laboratory in Animal Behavior \$50 5/16/03 Functional Anatomy of the 161A Lab Vertebrates \$50 5/16/03 Functional Anatomy of the 161B \$50 Lab Vertebrates 5/16/03 162 Lec Insect Behavior Entomology 162 \$5 8/26/11 Evolutionary Ecology of Terrestrial 163 Lab Vertebrates \$120 6/12/15 Botany and Plant 165 \$40 Lec Restoration Ecology Sciences 165 5/25/17

*renumbered from BCH 101

	171L	Lab	Human Anatomy & Physiology			\$50	5/16/03
	173	Lab	Insect Physiology	Entomology	173	\$5	5/25/17
Botany and Plant Sciences	31	Lab	Spring Wildflowers			\$25	5/31/13
	104	Lab	Foundations of Plant Biology	Biology	104	\$30	5/25/17
	132	Lab	Plant Anatomy	Biology	132	\$40	5/25/17
	133	Lab	Taxonomy of Flowering Plants			\$40	5/25/17
	138	Lab	Plant Development Morphology	Biology	138	\$30	5/31/13
	143	Lab	Plant Physiology	Biology	143	\$50	5/25/17
	146	Lab	Plant Ecology			\$30	5/31/13
	165	Lec	Restoration Ecology	Biology	165	\$40	5/25/17
	166	Lab	Plant Physiological Ecology			\$30	5/31/13
Cell Biology and Neuroscience	106	Lec	Introduction to Neuroscience			\$9	4/24/08
	120L	Lec	Neuroscience Laboratory	Psychology	120L	\$40	4/13/09
	124	Lec	Systems Neuroscience	Psychology	124	\$9	4/24/08
	169	Lec	Human Embryology			\$11	4/13/09
Chemistry	1LA	Lab	General Chemistry			\$46	6/9/05
	1LB	Lab	General Chemistry			\$46	6/9/05
	1LC	Lab	General Chemistry			\$46	6/9/05
	1HLA	Lab	Honors General Chemistry			\$46	6/9/05
	1HLB	Lab	Honors General Chemistry			\$46	6/9/05
	1HLC	Lab	Honors General Chemistry			\$46	6/9/05
	5	Lab	Quantitative Analysis			\$46	6/9/05
	08LA	Lab	Organic Chemistry			\$46	3/22/17
	08LB	Lab	Organic Chemistry			\$46	3/22/17
	08LC	Lab	Organic Chemistry			\$46	3/22/17
	12A	Lab	Organic Chemistry			\$46	11/3/16
	12B	Lab	Organic Chemistry			\$46	11/3/16

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	12C	Lab	Organic Chemistry			\$46	11/3/16	Per Dept Request this course will remain active for Fall 20
	111	Lab	Physical Chemistry			\$46	6/9/05	
	125	Lab	Instrumental Methods			\$46	6/9/05	
	140	Lab	Environmental Chemistry			\$46	6/9/05	
	166	Lab	Advanced Structural and Synthetic Methods			\$46	6/9/05	
Entomology	10	Lec	Natural History of Insects			\$5	4/12/11	
	100	Lab	General Entomology	Biology	100	\$30	4/12/11	
	109	Lab	Field Entomology			\$94	5/25/17	
	114	Lab	Aquatic Insects			\$100	4/12/11	
	124	Lab	Agricultural Entomology			\$100	4/12/11	
	126	Lec	Medical and Veterinary Entomology			\$33	5/15/12	
	162	Lec	Insect Behavior	Biology	162	\$5	8/26/11	
	173	Lab	Insect Physiology	Biology	173	\$5	5/25/17	
Genetics	272	Lab	Introduction to Imaging Bioinstrumentation	Electrical Engineering	272	\$30	9/15/11	
	273	Lab	Live Imaging & Analysis of Cellular and Molecular Behaviors	Electrical Engineering	273	\$30	9/15/11	
	274	Lab	Introduction to Medical Imaging & Analysis	Electrical Engineering	274	\$30	9/15/11	
Geosciences	102B	Fld	Summer Field Geology			\$2,288	2/27/17	REMOVE
Mathematics	2	Lec	Math Support Practicum			\$3	5/15/12	
	4	Lec	Intro Col Math Bus & Soc			\$3	5/15/12	
	5	Lec	Precalculus			\$3	5/15/12	
	008A	Lec	Intro to Coll Math for Sciences			\$3	5/15/12	
	008B	Lec	Intro to Coll Math for Sciences			\$6	5/15/12	
	009A	Lec	First Year Calculus			\$6	5/15/12	
	009B	Lec	First Year Calculus			\$6	5/15/12	
	009C	Lec	First Year Calculus			\$6	5/15/12	
	09НА	Lec	Honors Calculus			\$3	5/15/12	
	09HB	Lec	Honors Calculus			\$3	5/15/12	

	09НС	Lec	Honors Calculus			\$3	5/15/12
	010A	Lec	Calculus - Several Variables			\$3	5/15/12
	010B	Lec	Calculus - Several Variables			\$3	5/15/12
	11	Lec	Introduction to Discrete Structures	Computer Science	11	\$3	5/15/12
	15	Lec	Contempt Math of Hum			\$3	5/15/12
	22	Lec	Calculus for Business			\$6	5/15/12
	46	Lec	Ordinary Differential Eq.			\$6	5/15/12
Microbiology	121L	Lab	Microbiology Laboratory	Biology	121L	\$50	5/16/03
	125	Lab	Experimental Microbiology			\$50	6/12/15
Physics	002A	Lec	General Physics			\$5	5/15/12
	002B	Lec	General Physics			\$5	5/15/12
	002C	Lec	General Physics			\$5	5/15/12
	2LA	Lab	General Physics Laboratory			\$25	5/15/12
	2LB	Lab	General Physics Laboratory			\$25	5/15/12
	2LC	Lab	General Physics Laboratory			\$25	5/15/12
	8	Lec	Color & Sound			\$5	6/14/07
	10	Lec	How Things Work			\$5	6/14/07
	16	Lec	Principles of Physics			\$5	6/14/07
	40A	Lab	General Physics			\$25	6/14/07
	40B	Lab	General Physics			\$25	6/14/07
	40C	Lab	General Physics			\$25	6/14/07
	41A	Lab	Intro Physics for Physics Major			\$50	4/12/11
	41B	Lab	Intro Physics for Physics Major			\$50	4/12/11
	41C	Lab	Intro Physics for Physics Major			\$50	4/12/11
	139L	Lab	Electronics for Scientists			\$45	6/4/10
	142L	Lab	Advanced Physics Laboratory			\$150	5/15/12
	142W	Wrk	Advanced Physics Laboratory			\$150	5/25/17

t	1	Lec	Beginning Drawing and Design			\$20	2/3/10
	2	Lec	Beginning Painting and Design			\$40	
	2	Lec					2/3/10
	3	Lec	Intro to Photo Process			\$50	6/27/14
	4	Lec	Introduction to Moving Images	Media & Cultural Studies	4	\$60	5/31/13
	5	Lec	Beginning Sculpture and 3-D Design			\$85	5/25/17
	9	Lec	Introductory Web-Based Art: Site Creation and Navigation			\$50	6/27/14
	65	Lec	Intro To Vector Image Making & Printing			\$65	
		Lec	rining			\$05	2/3/10
	66	Lec	Introduction to 3-D Digital Modeling 3-D Dimensional Digital Modeling &			\$40	2/3/10
	67	Lec	Animation			\$65	2/3/10
	70 E-Z	Lec	Digital Imaging Software for the Visual Arts			\$50	6/27/14
	71 E-Z	Lec	Photographic Materials & Processes			\$50	6/27/14
	75 E-Z	Wrk	Sculpture Materials & Processes			\$65	2/3/10
	102	Lec	Intermediate Drawing			\$20	2/3/10
	103	Lec	Advanced Drawing			\$20	2/3/10
	104	Lec	Life Drawing			\$45	5/25/17
	110	Lec	Intermediate Painting			\$40	2/3/10
	111	Lec	Advanced Painting			\$40	2/3/10
	112 E-Z	Wrk	Painting Materials and Processes			\$50	2/3/10
	115	Lec	Intermediate Sculpture			\$80	5/25/17
	125	Lec	Sculpture Hybrid			\$75	5/25/17
	131	Lec	Intermediate Photography & Digital Technology	Media & Cultural Studies	131	\$75	6/27/14
	134	Lec	Mixed Media			\$65	2/3/10
	136	Lec	Installation & Site-Specific Art	Media & Cultural Studies	136	\$65	2/3/10
	137	Lec	Advanced Sculpture			\$80	5/25/17

	140	Lec	Intermediate Analog Photography			\$60	6/27/14
	142	Lec	Color Photography			\$45	4/12/02
	143	Lec	Advanced Digital Imaging Technology			\$65	2/3/10
	145	Lec	Advanced Photography Workshop			\$60	6/27/14
	146 E-Z	Lec	Topics in Advanced Photography			\$60	6/27/14
	150	Lec	Intermediate Moving Images	Media & Cultural Studies	150	\$50	5/31/13
	155	Lec	Advanced Moving Images	Media & Cultural Studies	155	\$50	5/31/13
	162	Stu	New Genres of Art Practice			\$50	5/25/17
	165	Lec	Intermediate Vector Image Making & Printing			\$65	2/3/10
	167	Lec	Web Authoring			\$35	4/12/02
	169 E-Z	Lec	Digital Imaging Intermediate Software			\$35	4/12/02
	171	Lec	Intermediate & Advanced Sculpture/Digital			\$65	2/3/10
	175	Lec	Advanced Digital Workshop			\$65	2/3/10
Art History	136	Lec	History of Video Art	Media & Cultural Studies	137	\$10	5/14/04
	137	Lec	History of Experimental Film	Media & Cultural Studies	138	\$20	5/14/04
Media and Cultural Studies	4	Lec	Introduction to Moving Images	Art	4	\$60	2/3/10
	131	Lec	Intermediate Photography & Digital Technology	Art	131	\$75	6/27/14
	136	Lec	Installation & Site-Specific Art	Art	136	\$65	2/3/10
	137	Lec	History of Video Art	Art History	136	\$10	5/14/04
	138	Lec	History of Experimental Film	Art History	137	\$20	5/14/04
	150	Lec	Intermediate Moving Images	Art	150	\$50	5/31/13
	155	Lec	Advanced Moving Images	Art	155	\$50	5/31/13
Music	080 (E-Z)	Stu	Private Instruction: Voice, Keyboard, and Strings			\$250	5/31/13
	081 (E-Z)	Stu	Private Instruction: Brass, Woodwinds, Percussion, and Other			\$250	5/31/13
	0180 (E-Z)	Stu	Private Instruction: Voice, Keyboard, and Strings			\$500	5/31/13
	0181 (E-Z)	Stu	Private Instruction: Brass, Woodwinds, Percussion, and Other			\$500	5/31/13
Psychology	120L	Lec	Neuroscience Laboratory	Cell Biology and Neuroscience	120L	\$40	4/13/09

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Production	44	Dis	Makeup: Theater, Film, TV			\$61	9/11,
	155	Lec	Intro to Digital Film Production			\$98	6/29,
	156A	Lec	Digital Film Production			\$98	6/29/
	156B	Lec	Digital Film Production			\$98	6/29,
	157	Lec	Introduction to Film Editing			\$71	6/29,
urns College of Eng	giņeering						
Bioengineering	010	Lec	Overview of Bioengineering			\$50	6/20,
	130L	Lab	Bioinstrumentation Lab			\$50	11/10
	155	Lab	Biotechnology Lab			\$150	5/25,
	175A, 175B, 175C	Lec	Senior Design			\$100	6/12,
Chemical and Environmenta Engineering	11	Lab	Intro to Bioengineering			\$30	11/10
	125	Lab	Analys Meths For Chem & Env Engrs			\$50	11/10
Chemical Engineering	124L	Lab	Biochemical Engr Lab			\$50	11/10
	160A	Lab	Chem/Env Engineering Lab	Environmental Engineering	160A	\$50	11/10
	160B	Lab	Chemical Engineering Lab			\$50	11/10
	160C	Lab	Chemical Engineering Lab			\$50	11/10
	161	Lab	Nanotechnology Processing Lab			\$50	11/10
	175A	Lab	Chemical Process Design			\$50	11/10
Computer Science	5	Lab	Introduction to Computer Programming			\$30	11/10
	6	Lab	Effective Use of the World Wide Web			\$30	11/10
	8	Lab	Introduction to Computing			\$30	11/10
	10	Lab	Science, Mathematics, and Engineering I			\$30	11/10
	11	Lec	Introduction to Discrete Structures	Mathematics	11	\$3	5/15,
	12	Lab	Science, Mathematics, and Engineering II			\$30	11/10
			Introduction to Computer Science for				

			Introduction to Computational Science				
	30	Lab	and Engineering			\$30	11/10/09
	120A	Lab	Logic Design	Electrical Engineering	120A	\$30	9/15/11
	120B	Lab	Introduction to Embedded Systems	Electrical Engineering	120B	\$30	11/10/09
	122A	Lab	Intermediate Embedded and Real- Time Systems			\$30	11/10/09
	122B	Lab	Advanced Embedded and Real-Time Systems			\$30	11/10/09
	130	Lab	Computer Graphics			\$30	11/10/09
	133	Lab	Computational Geometry			\$30	11/10/09
	134	Lab	Video Game and Creation and Design			\$30	11/10/09
	152	Lab	Compiler Design			\$30	11/10/09
	153	Lab	Design of Operating Systems			\$30	11/10/09
	160	Lab	Concurrent Programming and Parallel Systems			\$30	11/10/09
	161L	Lec	Design and Architecture of Computer Systems			\$30	11/10/09
	162	Lab	Computer Architecture			\$30	11/10/09
	164	Lab	Computer Networks			\$30	11/10/09
	165	Lab	Computer Security			\$30	11/10/09
	166	Lab	Database Management Systems			\$30	11/10/09
	168	Lab	Introduction to Very Large Scale Integration (VLSI) Design	Electrical Engineering	168	\$30	11/10/09
	177	Lab	Modeling and Simulation			\$30	11/10/09
	179 E-Z	Lab	Project in Computer Science			\$30	11/10/09
	180	Lab	Introduction to Software Engineering			\$30	11/10/09
	181	Lab	Principles of Programming Languages			\$30	11/10/09
	183	Lab	UNIX System Administration			\$30	11/10/09
Electrical Engineering	01LA	Lab	Engineering Circuit Analysis I Laboratory			\$30	9/15/11
	001B	Lab	Engineering Circuit Analysis II			\$30	9/15/11
	100A	Lab	Electronic Circuits			\$30	9/15/11
	100B	Lab	Electronic Circuits			\$30	9/15/11
	105	Lab	Modeling and Simulation of Dynamic Systems			\$30	9/15/11

	110B	Lab	Signals and Systems			\$30	9/15/11
	115	Lab	Introduction to Communication Systems			\$30	9/15/11
	120A	Lab	Logic Design	Computer Sciences	120A	\$30	9/15/11
	120B	Lab	Introduction to Embedded Systems	Computer Sciences	120B	\$30	11/10/09
	123	Lab	Power Electronics			\$30	5/31/13
	128	Lab	Data Acquisition, Instrumentation, and Process Control			\$30	9/15/11
	132	Lab	Automatic Control			\$30	9/15/11
	134	Lab	Digital Integrated Circuit Layout and Design			\$30	9/15/11
	135	Lab	Analog Integrated Circuit Layout and Design			\$30	9/15/11
	136	Lab	Semiconductor Device Processing			\$50	9/15/11
	140	Lab	Computer Visualization			\$30	9/15/11
	141	Lab	Digital Signal Processing			\$30	9/15/11
	144	Lab	Introduction to Robotics	Mechanical Engineering	144	\$30	9/15/11
	146	Lab	Computer Vision			\$30	9/15/11
	151	Lab	Introduction to Digital Control			\$30	9/15/11
	152	Lab	Image Processing			\$30	9/15/11
	153	Lab	Electric Drives			\$30	5/31/13
	165	Lab	Design for Reliability of Integrated Circuits and Systems			\$30	9/15/11
	168	Lab	Introduction to Very Large Scale Integration (VLSI) Design	Computer Science	168	\$30	5/31/13
	204	Lab	Advanced Electromagnetics			\$30	9/15/11
	206	Lab	Nanoscale Characterization Techniques	Materials Science and Engineering	227	\$30	9/15/11
	229	Lab	Video Processing & Communication			\$30	9/15/11
	272	Lab	Introduction to Imaging Bioinstrumentation	Genetics	272	\$30	9/15/11
	273	Lab	Live Imaging & Analysis of Cellular and Molecular Behaviors	Genetics	273	\$30	9/15/11
	274	Lab	Introduction to Medical Imaging & Analysis	Genetics	274	\$30	9/15/11
	275	Lab	Project in Video Bioinformatics			\$30	9/15/11
Engineering (ENGR)	180W	Lec	Technical Communications			\$30	4/12/11

Environmental Engineering	160A	Lab	Chem/Env Engineering Lab	Chemical Engineering	160A	\$50	11/10/09	
	160B	Lab	Environmental Engineering Lab			\$50	11/10/09	
	160C	Lab	Environmental Engineering Lab			\$50	11/10/09	
	175A	Lab	Senior Design Project			\$50	11/10/09	
Materials Science and	227	Lab	Nanoscale Characterization	Electrical Engineering	206	420		
Engineering	227	Lab	Techniques	Electrical Engineering	206	\$30	9/15/11	
			Introduction to Mechanical			+20		
Mechanical Engineering	1A	Lab	Engineering Introduction to Mechanical			\$30	4/13/09	
	1B	Lab	Engineering			\$30	4/13/09	
	1C	Lab	Introduction to Mechanical Engineering			\$30	4/13/09	
	18	Lab	Introduction to Engineering Computation			\$30	4/13/09	
	131	Lab	Design of Mechanisms			\$30	4/13/09	
	133	Lab	Introduction to Mechatronics			\$30	4/13/09	
	144	Lab	Introduction to Robotics	Electrical Engineering	144	\$30	6/13/14	
	156	Lab	Mechanical Behavior of Materials			\$30	4/13/09	
	170A	Lab	Experimental Techniques			\$30	4/13/09	
	170B	Lab	Experimental Techniques			\$30	4/13/09	
	175B	Lab	Mechanical Engineering Design			\$30	4/13/09	
	175C	Lab	Mechanical Engineering Design			\$30	4/13/09	
	180	Lab	Optics and Lasers in Engineering			\$30	4/13/09	
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nool of Business Adr	ninistrat	tion						
Management	404	Lec	Com, Leadership, Teams, and Ethics			\$168	5/25/17	
aduate School of Edu	ucation							
Education	265A	Sem	Practicum in School Psychology: Introductory			\$20	5/25/17	Requires new attritbute FSEM CMF on Semina
	265B	Sem	Practicum in School Psychology: Basic			\$20	5/25/17	requires new attribute 1 3LIVI CIVII OII Sellillia
	265C	Sem	Practicum in School Psychology: Advanced			\$20	5/25/17	
	2030	Jen	Practicum in School Pschology:			ΨΖΟ] 3/23/1/	
	265D	Sem	Clinical			\$20	5/25/17	

		Practicum in School Psychology:			ĺ
265E	Sem	Supervision		\$20	5/25/17