

Summer 2015 Course Material Fees

College	Department	Course #	Type	Course Title	Cross-Listed Department	Cross-Listed Course #	Approved Fee	
CNAS	Biochemistry	101	Lab	Biochemical Laboratory: Fundamentals			\$80	
		102	Lab	Introductory Biochemistry Laboratory			\$80	
		162	Lec	Biochemistry and Molecular Biology			\$150	
	Biology	2	Lab	Cellular Basis of Life			\$50	
		3	Lab	Organisms in Their Environment			\$50	
		5LA	Lab	Introduction to Cell and Molecular Biology Lab			\$50	
		5B	Lab	Introduction to Organismal Biology			\$50	
		5C	Lab	Introduction to Evolution and Ecology			\$50	
		20	Lab	Dynamic Genome			\$50	
		100	Lab	General Entomology	Entomology	100	\$30	
		104	Lab	Foundations of Plant Biology	Botany and Plant Sciences	104	\$20	
		118	Lab	Molecular Phylogenetics & Evolution			\$50	
		121L	Lab	Microbiology Laboratory	Microbiology	121L	\$50	
		132	Lab	Plant Anatomy	Botany and Plant Sciences	132	\$30	
		138	Lab	Plant Development Morphology	Botany and Plant Sciences	138	\$30	
		143	Lab	Plant Physiology	Botany and Plant Sciences	143	\$30	
		151	Lab	Invertebrate Zoology			\$50	
		160L	Lab	Laboratory in Animal Behavior			\$50	
		161A	Lab	Functional Anatomy of the Vertebrates			\$50	
		161B	Lab	Functional Anatomy of the Vertebrates			\$50	
		162	Lec	Insect Behavior	Entomology	162	\$5	
		165	Lec	Restoration Ecology	Botany and Plant Sciences	165	\$30	
		171L	Lab	Human Anatomy & Physiology			\$50	
		173	Lab	Insect Physiology	Entomology	173	\$15	
		Botany and Plant Sciences	31	Lab	Spring Wildflowers			\$25
			104	Lab	Foundations of Plant Biology	Biology	104	\$20
	132		Lab	Plant Anatomy	Biology	132	\$30	
	133		Lab	Taxonomy of Flowering Plants			\$30	
	138		Lab	Plant Development Morphology	Biology	138	\$30	
	143		Lab	Plant Physiology	Biology	143	\$30	
	146		Lab	Plant Ecology			\$30	
	165		Lec	Restoration Ecology	Biology	165	\$30	
	166		Lab	Plant Physiological Ecology			\$30	
	Cell Biology and Neuroscience		106	Lec	Introduction to Neuroscience			\$9
		120L	Lec	Neuroscience Laboratory	Psychology	120L	\$40	
		124	Lec	Systems Neuroscience	Psychology	124	\$9	
		169	Lec	Human Embryology			\$11	
	Chemistry	1LA	Lab	General Chemistry			\$46	
		1LB	Lab	General Chemistry			\$46	
		1LC	Lab	General Chemistry			\$46	
		1HLA	Lab	Honors General Chemistry			\$46	
		1HLB	Lab	Honors General Chemistry			\$46	
1HLC		Lab	Honors General Chemistry			\$46		
5		Lab	Quantitative Analysis			\$46		

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		111	Lab	Physical Chemistry			\$46
		112A	Lab	Organic Chemistry			\$46
		112B	Lab	Organic Chemistry			\$46
		112C	Lab	Organic Chemistry			\$46
		125	Lab	Instrumental Methods			\$46
		140	Lab	Environmental Chemistry			\$46
		166	Lab	Advanced Structural and Synthetic Methods			\$46
	Entomology	10	Lec	Natural History of Insects			\$5
		100	Lab	General Entomology	Biology	100	\$30
		109	Lab	Field Entomology			\$75
		114	Lab	Aquatic Insects			\$100
		124	Lab	Agricultural Entomology			\$100
		126	Lec	Medical and Veterinary Entomology			\$33
		162	Lec	Insect Behavior	Biology	162	\$5
		173	Lab	Insect Physiology	Biology	173	\$15
	Genetics	272	Lab	Introduction to Imaging Bioinstrumentation	Electrical Engineering	272	\$30
		273	Lab	Live Imaging & Analysis of Cellular and Molecular Behaviors	Electrical Engineering	273	\$30
		274	Lab	Introduction to Medical Imaging & Analysis	Electrical Engineering	274	\$30
	Mathematics	2	Lec	Math Support Practicum			\$3
		4	Lec	Intro Col Math Bus & Soc			\$3
		5	Lec	Precalculus			\$3
		008A	Lec	Intro to Coll Math for Sciences			\$3
		008B	Lec	Intro to Coll Math for Sciences			\$6
		009A	Lec	First Year Calculus			\$6
		009B	Lec	First Year Calculus			\$6
		009C	Lec	First Year Calculus			\$6
		09HA	Lec	Honors Calculus			\$3
		09HB	Lec	Honors Calculus			\$3
		09HC	Lec	Honors Calculus			\$3
		010A	Lec	Calculus - Several Variables			\$3
		010B	Lec	Calculus - Several Variables			\$3
		11	Lec	Introduction to Discrete Structures	Computer Science	11	\$3
		15	Lec	Contempt Math of Hum			\$3
		22	Lec	Calculus for Business			\$6
		46	Lec	Ordinary Differential Eq.			\$6
	Microbiology	121L	Lab	Microbiology Laboratory	Biology	121L	\$50
	Physics	002A	Lec	General Physics			\$5
		002B	Lec	General Physics			\$5
		002C	Lec	General Physics			\$5
		2LA	Lab	General Physics Laboratory			\$25
		2LB	Lab	General Physics Laboratory			\$25
		2LC	Lab	General Physics Laboratory			\$25
		8	Lec	Color & Sound			\$5
		10	Lec	How Things Work			\$5
		16	Lec	Principles of Physics			\$5
		40A	Lab	General Physics			\$25

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		40B	Lab	General Physics			\$25
		40C	Lab	General Physics			\$25
		41A	Lab	Intro Physics for Physics Major			\$50
		41B	Lab	Intro Physics for Physics Major			\$50
		41C	Lab	Intro Physics for Physics Major			\$50
		139L	Lab	Electronics for Scientists			\$45
		142L	Lab	Advanced Physics Laboratory			\$150
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	Art Department	1	Lec	Beginning Drawing and Design			\$20
		2	Lec	Beginning Painting and Design			\$40
		3	Lec	Intro to Photo Process			\$50
		4	Lec	Introduction to Moving Images	Media & Cultural Studies	4	\$60
		5	Lec	Beginning Sculpture and 3-D Design			\$75
		9	Lec	Introductory Web-Based Art: Site Creation and Navigation			\$50
		65	Lec	Intro To Vector Image Making & Printing			\$65
		66	Lec	Introduction to 3-D Digital Modeling	Computer Science	66	\$40
		67	Lec	3-D Dimensional Digital Modeling & Animation	Computer Science	67	\$65
		70 E-Z	Lec	Digital Imaging Software for the Visual Arts			\$50
		71 E-Z	Lec	Photographic Materials & Processes			\$50
		75 E-Z	Wrk/ Lab	Sculpture Materials & Processes			\$65
		102	Lec	Intermediate Drawing			\$20
		103	Lec	Advanced Drawing			\$20
		104	Lec	Life Drawing			\$40
		110	Lec	Intermediate Painting			\$40
		111	Lec	Advanced Painting			\$40
		112 E-Z	Wrk/ Stu	Painting Materials and Processes			\$50
		115	Lec	Intermediate Sculpture			\$75
		120	Lec	Printmaking			\$35
		122 E-Z	Lec	Advanced Printmaking			\$35
		125	Lec	Sculpture Hybrid			\$65
		131	Lec	Intermediate Photography & Digital Technology	Media & Cultural Studies	131	\$75
		134	Lec	Mixed Media			\$65
		136	Lec	Installation & Site-Specific Art	Media & Cultural Studies	136	\$65
		137	Lec	Advanced Sculpture			\$65
		139	Lec	Intermediate Web Based Art			\$40
		140	Lec	Intermediate Analog Photography			\$60
		142	Lec	Color Photography			\$45
		143	Lec	Advanced Digital Imaging Technology			\$65
		145	Lec	Advanced Photography Workshop			\$60
		146 E-Z	Lec	Topics in Advanced Photography			\$60
		150	Lec	Intermediate Moving Images	Media & Cultural Studies	150	\$50
		155	Lec	Advanced Moving Images			\$50
		165	Lec	Intermediate Vector Image Making & Printing			\$65
		167	Lec	Web Authoring			\$35

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		169 E-Z	Lec	Digital Imaging Intermediate Software			\$35
		171	Lec	Intermediate & Advanced Sculpture/Digital			\$65
		175	Lec	Advanced Digital Workshop			\$65
	Art History	136	Lec	History of Video Art	Media & Cultural Studies	137	\$10
		137	Lec	History of Experimental Film	Media & Cultural Studies	138	\$20
	Media and Cultural Studies	4	Lec	Introduction to Moving Images	Art	4	\$60
		131	Lec	Intermediate Photography & Digital Technology	Art	131	\$75
		136	Lec	Installation & Site-Specific Art	Art	136	\$65
		137	Lec	History of Video Art	Art History	136	\$10
		138	Lec	History of Experimental Film	Art History	137	\$20
		150	Lec	Intermediate Moving Images	Art	150	\$50
	Music	080 (E-Z)	Stu	Private Instruction: Voice, Keyboard, and Strings			\$250
		081 (E-Z)	Stu	Private Instruction: Brass, Woodwinds, Percussion, and Other Instruments			\$250
		0180 (E-Z)	Stu	Private Instruction: Voice, Keyboard, and Strings			\$500
		0181 (E-Z)	Stu	Private Instruction: Brass, Woodwinds, Percussion, and Other Instruments			\$500
	Psychology	120L	Lec	Neuroscience Laboratory	Cell Biology and Neuroscience	120L	\$40
		124	Lec	Systems Neuroscience	Cell Biology and Neuroscience	124	\$9
	Theatre	142	Lec	Costume Construction			\$61
		155	Lec	Intro to Digital Film Production			\$98
		156A	Lec	Digital Film Production			\$98
		156B	Lec	Digital Film Production			\$98
		157	Lec	Introduction to Film Editing			\$71
<i>BCOE</i>							
	Bioengineering	10	Lec	Overview of Bioengineering			\$50
		130L	Lab	Bioinstrumentation Lab			\$50
		155	Lab	Biotechnology Lab			\$50
		175A, 175B	Lec	Senior Design			\$50
	Chemical and Environmental Engineering	10	Lab	Intro To Chem & Environ Engrng			\$30
		11	Lab	Intro to Bioengineering			\$30
		125	Lab	Analys Meths For Chem & Env Engrs			\$50
	Chemical Engineering	124L	Lab	Biochemical Engr Lab			\$50
		160A	Lab	Chem/Env Engineering Lab	Environmental Engineering	160A	\$50
		160B	Lab	Chemical Engineering Lab			\$50
		160C	Lab	Chemical Engineering Lab			\$50
		161	Lab	Nanotechnology Processing Lab			\$50
		175A	Lab	Chemical Process Design			\$50
	Computer Science	5	Lab	Introduction to Computer Programming			\$30
		6	Lab	Effective Use of the World Wide Web			\$30
		8	Lab	Introduction to Computing			\$30
		10	Lab	Introduction to Computer Science for Science, Mathematics, and Engineering I			\$30

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		11	Lec	Introduction to Discrete Structures	Mathematics	11	\$3
		12	Lab	Introduction to Computer Science for Science, Mathematics, and Engineering II			\$30
		13	Lab	Introduction to Computer Science for Engineering Majors			\$30
		14	Lab	Introduction to Data Structures and Algorithms			\$30
		30	Lab	Introduction to Computational Science and Engineering			\$30
		61	Lab	Machine Organization and Assembly Language Programming			\$30
		66	Lec	Introduction to 3-D Digital Modeling	Art	66	\$40
		67	Lec	3-D Dimensional Digital Modeling & Animation	Art	67	\$65
		100	Lab	Software Construction			\$30
		120A	Lab	Logic Design	Electrical Engineering	120A	\$30
		120B	Lab	Introduction to Embedded Systems	Electrical Engineering	120B	\$30
		122A	Lab	Intermediate Embedded and Real-Time Systems			\$30
		122B	Lab	Advanced Embedded and Real-Time Systems			\$30
		130	Lab	Computer Graphics			\$30
		133	Lab	Computational Geometry			\$30
		134	Lab	Video Game and Creation and Design			\$30
		143	Lab	Multimedia Technologies and Programming	Electrical Engineering	143	\$30
		152	Lab	Compiler Design			\$30
		153	Lab	Design of Operating Systems			\$30
		160	Lab	Concurrent Programming and Parallel Systems			\$30
		161L	Lec	Design and Architecture of Computer Systems			\$30
		162	Lab	Computer Architecture			\$30
		164	Lab	Computer Networks			\$30
		165	Lab	Computer Security			\$30
		166	Lab	Database Management Systems			\$30
		168	Lab	Introduction to Very Large Scale Integration (VLSI) Design	Electrical Engineering	168	\$30
		170	Lab	Introduction to Artificial Intelligence			\$30
		177	Lab	Modeling and Simulation			\$30
		179 E-Z	Lab	Project in Computer Science			\$30
		180	Lab	Introduction to Software Engineering			\$30
		181	Lab	Principles of Programming Languages			\$30
		183	Lab	UNIX System Administration			\$30
	Electrical Engineering	01LA	Lab	Engineering Circuit Analysis I Laboratory			\$30
		001B	Lab	Engineering Circuit Analysis II			\$30
		2	Lab	Electrical and Electronic Circuits			\$30
		100A	Lab	Electronic Circuits			\$30
		100B	Lab	Electronic Circuits			\$30
		105	Lab	Modeling and Simulation of Dynamic Systems			\$30
		110B	Lab	Signals and Systems			\$30
		115	Lab	Introduction to Communication Systems			\$30
		117	Lab	Electromagnetics II			\$30
		120A	Lab	Logic Design	Computer Sciences	120A	\$30
		120B	Lab	Introduction to Embedded Systems	Computer Sciences	120B	\$30
		123	Lab	Power Electronics			\$30
		128	Lab	Data Acquisition, Instrumentation, and Process Control			\$30

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		132	Lab	Automatic Control			\$30
		134	Lab	Digital Integrated Circuit Layout and Design			\$30
		135	Lab	Analog Integrated Circuit Layout and Design			\$30
		136	Lab	Semiconductor Device Processing			\$50
		140	Lab	Computer Visualization			\$30
		141	Lab	Digital Signal Processing			\$30
		143	Lab	Multimedia Technologies and Programming	Computer Sciences	143	\$30
		144	Lab	Introduction to Robotics			\$30
		146	Lab	Computer Vision			\$30
		151	Lab	Introduction to Digital Control			\$30
		152	Lab	Image Processing			\$30
		153	Lab	Electric Drives			\$30
		160	Lab	Fiber-Optic Communication Systems			\$30
		165	Lab	Design for Reliability of Integrated Circuits and Systems			\$30
		168	Lab	Introduction to Very Large Scale Integration (VLSI) Design	Computer Science	168	\$30
		204	Lab	Advanced Electromagnetics			\$30
		206	Lab	Nanoscale Characterization Techniques	Materials Science and Engineering	227	\$30
		229	Lab	Video Processing & Communication			\$30
		272	Lab	Introduction to Imaging Bioinstrumentation	Genetics	272	\$30
		273	Lab	Live Imaging & Analysis of Cellular and Molecular Behaviors	Genetics	273	\$30
		274	Lab	Introduction to Medical Imaging & Analysis	Genetics	274	\$30
		275	Lab	Project in Video Bioinformatics			\$30
	Engineering (ENGR)	180W	Lec	Technical Communications			\$30
	Environmental Engineering	160A	Lab	Chem/Env Engineering Lab	Chemical Engineering	160A	\$50
		160B	Lab	Environmental Engineering Lab			\$50
		160C	Lab	Environmental Engineering Lab			\$50
		175A	Lab	Senior Design Project			\$50
	Materials Science and Engineering	227	Lab	Nanoscale Characterization Techniques	Electrical Engineering	206	\$30
	Mechanical Engineering	1A	Lab	Introduction to Mechanical Engineering			\$30
		1B	Lab	Introduction to Mechanical Engineering			\$30
		1C	Lab	Introduction to Mechanical Engineering			\$30
		9	Lab	Engineering Graphics and Design			\$30
		18	Lab	Introduction to Engineering Computation			\$30
		131	Lab	Design of Mechanisms			\$30
		133	Lab	Introduction to Mechatronics			\$30
		156	Lab	Mechanical Behavior of Materials			\$30
		170A	Lab	Experimental Techniques			\$30
		170B	Lab	Experimental Techniques			\$30
		175B	Lab	Mechanical Engineering Design			\$30
		175C	Lab	Mechanical Engineering Design			\$30
		180	Lab	Optics and Lasers in Engineering			\$30