

COURSE MATERIALS AND SERVICE FEES: FALL 2024



COLLEGE OF NATURAL & AGRICULTURAL SCIENCES (CNAS)

COURSE #	TYPE	COURSE TITLE	APPROVED FEE	CROSS-LISTED DEPT.	Cross-Listed Course #
BIOCHEMISTRY					
015	Lab	Intro Biochemistry Laboratory	\$80.00		
162	Lec	Advanced Biochemistry Laboratory	\$150.00		
BIOLOGY					
002	Lab	Cellular Basis of Life	\$50.00		
003	Lab	Organisms in Their Environment	\$25.00		
005LA	Lab	Introduction to Cell and Molecular Biology Lab	\$100.00		
005B	Lab	Introduction to Organismal Biology	\$50.00		
005C	Lab	Introduction to Evolution and Ecology	\$15.00		
020	Lab	Dynamic Genome	\$100.00		
100	Lab	General Entomology	\$30.00	Entomology	100
104	Lab	Foundations of Plant Biology	\$30.00	Botany and Plant Sciences	104
118	Lab	Molecular Phylogenetics and Evolution	\$50.00		
121L	Lab	Microbiology Laboratory	\$100.00	Microbiology	121L
132	Lab	Plant Anatomy	\$40.00	Botany and Plant Sciences	132
138	Lab	Plant Development Morphology	\$30.00	Botany and Plant Sciences	138

COURSE #	TYPE	COURSE TITLE	APPROVED FEE	CROSS-LISTED DEPT.	Cross-Listed Course #
143	Lab	Plant Physiology	\$50.00	Botany and Plant Sciences	143
151	Lab	Invertebrate Zoology	\$130.00		
160L	Lab	Laboratory in Animal Behavior	\$50.00		
161A	Lab	Functional Anatomy of the Vertebrates	\$50.00		
161B	Lab	Functional Anatomy of the Vertebrates	\$50.00		
162	Lec	Insect Behavior	\$5.00	Entomology	162
163	Lab	Evolutionary Ecology of Terrestrial Vertebrates	\$120.00		
165	Lec	Restoration Ecology	\$40.00	Botany and Plant Sciences	165
170	Lab	Herpetology	\$160.00		
171L	Lab	Human Anatomy & Physiology Lab	\$100.00		
173	Lab	Insect Physiology	\$5.00	Entomology	173
BOTANY AND PLANT SCIENCES					
031	Lab	Spring Wildflowers	\$25.00		
104	Lab	Foundations of Plant Biology	\$30.00	Biology	104
132	Lab	Plant Anatomy	\$40.00	Biology	132
133	Lab	Taxonomy of Flowering Plants	\$40.00		
138	Lab	Plant Development Morphology	\$30.00	Biology	138
143	Lab	Plant Physiology	\$50.00	Biology	143
146	Lab	Plant Ecology	\$30.00		
165	Lec	Restoration Ecology	\$40.00	Biology	165
166	Workshop	Plant Physiological Ecology	\$30.00		

COURSE #	TYPE	COURSE TITLE	APPROVED FEE	CROSS-LISTED DEPT.	Cross-Listed Course #
CELL BIOLOGY AND NEUROSCIENCE					
106	Lec	Introduction to Neuroscience	\$9.00		
120L	Lec	Neuroscience Laboratory	\$40.00	Psychology	120L
124	Lec	Systems Neuroscience	\$9.00	Psychology	124
169	Lec	Human Embryology	\$11.00		
129	Dis	Brain Control of Bodly Function	\$12.00		
CHEMISTRY					
01LA	Lab	General Chemistry	\$46.00		
01LB	Lab	General Chemistry	\$46.00		
01LC	Lab	General Chemistry	\$46.00		
1HLA	Lab	Honors General Chemistry	\$46.00		
1HLB	Lab	Honors General Chemistry	\$46.00		
1HLC	Lab	Honors General Chemistry	\$46.00		
005	Lab	Quantitative Analysis	\$46.00		
08LA	Lab	Organic Chemistry	\$46.00		
08LB	Lab	Organic Chemistry	\$46.00		
08LC	Lab	Organic Chemistry	\$46.00		
111	Lab	Physical Chemistry	\$46.00		
125	Lab	Instrumental Methods	\$46.00		
140	Lab	Environmental Chemistry	\$46.00		
166	Lab	Advanced Structural and Synthetic Methods	\$46.00		

COURSE #	TYPE	COURSE TITLE	APPROVED FEE	CROSS-LISTED DEPT.	Cross-Listed Course #
ENTOMOLOGY					
010	Lec	Natural History of Insects	\$5.00		
100	Lab	General Entomology	\$30.00	Biology	100
020	Lec	Bees and Beekeeping	\$66.67		
109	Lab	Field Entomology	\$94.00		
114	Lab	Aquatic Insects	\$100.00		
124	Lab	Agricultural Entomology	\$100.00		
126	Lec	Medical and Veterinary Entomology	\$33.00		
162	Lec	Insect Behavior	\$5.00	Biology	162
173	Lab	Insect Physiology	\$5.00	Biology	173
GENETICS					
272	Lab	Introduction to Imaging Bioinstrumentation	\$30.00	Electrical Engineering	272
273	Lab	Live Imaging & Analysis of Cellular and Molecular Behaviors	\$30.00	Electrical Engineering	273
274	Lab	Introduction to Medical Imaging & Analysis	\$30.00	Electrical Engineering	274
GEOLOGY					
102B	Fld	Summer Field Geology	\$500.00		
MATHEMATICS					
004	Lec	Introduction to College Mathematics for Business and the Social Sciences	\$3.00		
005A	Lec	Precalculus	\$3.00		
009A	Lec	First Year Calculus	\$6.00		
009B	Lec	First Year Calculus	\$6.00		

COURSE #	TYPE	COURSE TITLE	APPROVED FEE	CROSS-LISTED DEPT.	Cross-Listed Course #
009C	Lec	First Year Calculus	\$6.00		
09HA	Lec	First Year Honors Calculus	\$3.00		
09HB	Lec	First Year Honors Calculus	\$3.00		
09HC	Lec	First Year Honors Calculus	\$3.00		
010A	Lec	Calculus - Several Variables	\$3.00		
010B	Lec	Calculus - Several Variables	\$3.00		
011	Lec	Introduction to Discrete Structures	\$3.00	Computer Science	011
022	Lec	Calculus for Business	\$6.00		
046	Lec	Ordinary Differential Equations	\$6.00		
MICROBIOLOGY					
121L	Lab	Microbiology Laboratory	\$100.00	Biology	121L
125	Lab	Experimental Microbiology	\$50.00		
128	Lab	Field Mycology	\$120.00		
PHYSICS					
002A	Lec	General Physics	\$5.00		
002HA	Lec	Honors General Physics	\$5.00		
002B	Lec	General Physics	\$5.00		
02HB	Lec	Honors General Physics	\$5.00		
002C	Lec	General Physics	\$5.00		
02HC	Lec	Honors General Physics	\$5.00		
02LA	Lab	General Physics Laboratory	\$25.00		

COURSE #	TYPE	COURSE TITLE	APPROVED FEE	CROSS-LISTED DEPT.	Cross-Listed Course #
02HLA	Lab	Honors General Physics Laboratory	\$25.00		
02LB	Lab	General Physics Laboratory	\$25.00		
02HLB	Lab	Honors General Physics Laboratory	\$25.00		
02LC	Lab	General Physics Laboratory	\$25.00		
02HLC	Lab	Honors General Physics Laboratory	\$25.00		
008	Lec	Color and Sound	\$5.00		
010	Lec	How Things Work	\$5.00		
016	Lec	Principles of Physics	\$5.00		
040A	Lab	General Physics	\$25.00		
040HA	Lab	Honors General Physics	\$25.00		
040B	Lab	General Physics	\$25.00		
040HB	Lab	Honors General Physics	\$25.00		
040C	Lab	General Physics	\$25.00		
040HC	Lab	Honors General Physics	\$25.00		
041A	Lab	Intro Physics for Physics Major	\$50.00		
041B	Lab	Intro Physics for Physics Major	\$50.00		
041C	Lab	Intro Physics for Physics Major	\$50.00		
139L	Lab	Electronics for Scientists	\$45.00		
142L	Lab	Advanced Physics Laboratory	\$150.00		
142W	Wrk	Advanced Physics Laboratory	\$150.00		

COLLEGE OF HUMANITIES, ARTS AND SOCIAL SCIENCES (CHASS)

COURSE #	TYPE	COURSE TITLE	APPROVED FEE	CROSS-LISTED DEPT.	Cross-Listed Course #
ART					
001	Lec	Beginning Drawing and Design	\$20.00		
002	Lec	Beginning Painting and Design	\$40.00		
003	Lec	Intro to Photo Process	\$50.00		
005	Lec	Beginning Sculpture and 3-D Design	\$85.00		
009	Lec	Introductory Web-Based Art: Site Creation and Navigation	\$50.00		
010	Stu	Intro to Video	\$60.00		
032	Lec	Art Studio One	\$80.00		
065	Lec	Introduction to Digital Printing & Drawing	\$65.00		
066	Lec	Introduction to 3-D Digital Modeling	\$40.00	Computer Science	066
067	Lec	Three-Dimensional Digital Modeling and Animation	\$65.00		067
070 E-Z	Lec	Digital Imaging Software for the Visual Arts	\$50.00		
071 E-Z	Lec	Photographic Materials & Processes	\$50.00		
075 E-Z	Wrk	Sculpture Materials & Processes	\$65.00		
102	Lec	Intermediate Drawing	\$20.00		
103	Lec	Advanced Drawing	\$20.00		
104	Lec	Life Drawing	\$45.00		
110	Lec	Intermediate Painting	\$40.00		
111	Lec	Advanced Painting	\$40.00		

COURSE #	TYPE	COURSE TITLE	APPROVED FEE	CROSS-LISTED DEPT.	Cross-Listed Course #
112 E-Z	Wrk	Painting Materials and Processes	\$50.00		
115	Lec	Intermediate Sculpture	\$80.00		
125	Lec	Sculpture Hybrid: FAD	\$75.00		
131	Lec	Intermediate Photography & Digital Technology	\$75.00	Media & Cultural Studies	131
132	Lec	Art Studio Two	\$80.00		
133	Lec	Senior Art Workshop	\$80.00		
134	Lec	Mixed Media	\$65.00		
136	Lec	Installation & Site-Specific Art	\$65.00	Media & Cultural Studies	136
137	Lec	Advanced Sculpture	\$80.00		
139	Lec	Intermediate Web-Based Art	\$40.00		
140	Lec	Intermediate Analog Photography	\$60.00		
143	Lec	Advanced Digital Imaging Technology	\$65.00		
145	Lec	Advanced Photography Workshop	\$60.00		
146 E-Z	Lec	Topics in Advanced Photography	\$60.00		
150	Lec	Intermediate Moving Images	\$50.00	Media & Cultural Studies	150
151	Lec	Intermediate Video/Time Based Expermtatn	\$60.00		
152	Lec	Advanced Video/Time Based Expermtatn	\$60.00		
155	Lec	Advanced Moving Images	\$50.00	Media & Cultural Studies	155
162	Stu	New Genres of Art Practice	\$50.00		
165	Lec	Intermediate Vector Image Making & Printing	\$65.00		
167	Lec	Web Authoring	\$35.00		

COURSE #	TYPE	COURSE TITLE	APPROVED FEE	CROSS-LISTED DEPT.	Cross-Listed Course #
169 E-Z	Lec	Digital Imaging Intermediate Software	\$35.00		
171	Lec	Intermediate & Advanced Sculpture/Digital	\$65.00		
175	Lec	Advanced Digital Workshop	\$65.00		
ART HISTORY					
136	Lec	History of Video Art	\$10.00	Media & Cultural Studies	137
137	Lec	History of Experimental Cinema	\$20.00	Media & Cultural Studies	138
GENDER AND SEXUALITY STUDIES					
148	Lec	INTRSCTNLTY, ECLGY, DSIGN SCI	\$917.00	Media & Cultural Studies	137
HIGHLANDER EARLY START ACADEMY					
001	Sem	Early Start Seminar	\$203.00		
MEDIA AND CULTURAL STUDIES					
131	Lec	Intermediate Photography & Digital Technology	\$75.00	Art	131
136	Lec	History of Experimental Cinema	\$65.00	Art	136
137	Lec	History of Video Art	\$10.00	Art History	136
138	Lec	History of Experimental Film	\$20.00	Art History	137
150	Lec	Intermediate Moving Images	\$50.00	Art	150
155	Lec	Advanced Moving Images	\$50.00	Art	155
MUSIC					
080 (E-Z)	Stu	Private Instruction: Voice, Keyboard, and Strings	\$350.00		
081 (E-Z)	Stu	Private Instruction: Brass, Woodwinds, Percussion, and Other Instruments	\$350.00		

COURSE #	TYPE	COURSE TITLE	APPROVED FEE	CROSS-LISTED DEPT.	Cross-Listed Course #
180 (E-Z)	Stu	Private Instruction: Voice, Keyboard, and Strings	\$833.00		
181 (E-Z)	Stu	Private Instruction: Brass, Woodwinds, Percussion, and Other Instruments	\$833.00		
PSYCHOLOGY					
120L	Lec	Neuroscience Laboratory	\$40.00	Cell Biology and Neuroscience	120L
124	Lec	Systems Neuroscience	\$9.00	Cell Biology and Neuroscience	124
THEATRE, FILM, AND DIGITAL PRODUCTION					
044	Dis	Make-Up, Theatre, Film TV	\$61.00		
117	Lec	Directing for the Screen	\$130.67		
130A	Lec	Producing Short Episodic Content A	\$130.67		
130B	Lec	Producing Short Episodic Content B	\$130.67		
144	Lec	Directing Actors for the Screen I	\$130.67		
153B	Lec	Advanced Cinematography	\$130.67		
155	Lec	Intro to Digital Film Production	\$98.00		
156A	Lec	Digital Film Production	\$98.00		
156B	Lec	Digital Film Production	\$98.00		
157	Lec	Introduction to Film Editing	\$71.00		
159	Wrk	Documentary Production	\$130.67		

MARLAN AND ROSEMARY BOURNS COLLEGE OF ENGINEERING (BCOE)

COURSE #	TYPE	COURSE TITLE	APPROVED FEE	CROSS-LISTED DEPT.	Cross-Listed Course #
BIOENGINEERING					
010	Lec	Overview of Bioengineering	\$50.00		
130L	Lab	Bioinstrumentation Lab	\$50.00		
155	Lab	Biotechnology Lab	\$150.00		
175A, 175B, 175C	Lec	Senior Design	\$100.00		
CHEMICAL AND ENVIRONMENTAL ENGINEERING					
011	Lab	Intro to Bioengineering	\$30.00		
125	Lab	Analys Meths For Chem & Env Engrs	\$116.67		
CHEMICAL ENGINEERING					
124L	Lab	Biochemical Engr Lab	\$106.67		
160A	Lab	Chem/Env Engineering Lab	\$86.67	Environmental Engineering	160A
160B	Lab	Chemical Engineering Lab	\$133.33		
160C	Lab	Chemical Engineering Lab	\$106.67		
161	Lab	Nanotechnology Processing Lab	\$93.33		
175A	Lab	Chemical Process Design	\$50.00		
COMPUTER SCIENCE					
005	Lab	Introduction to Computer Programming	\$30.00		
006	Lab	Effective Use of the World Wide Web	\$30.00		
008	Lab	Introduction to Computing	\$30.00		

COURSE #	TYPE	COURSE TITLE	APPROVED FEE	CROSS-LISTED DEPT.	Cross-Listed Course #
010A	Lab	Introduction to Computer Science for Science, Mathematics, and Engineering I	\$30.00		
010B	Lab	Introduction to Computer Science for Science, Mathematics, and Engineering I	\$30.00		
011	Lec	Introduction to Discrete Structures	\$3.00	Mathematics	11
009A	Lab	Data Oriented Intro to Comp 1	\$40.00		
009B	Lab	Data Oriented Intro to Comp 2	\$40.00		
100	Lab	Software Construction	\$40.00		
120A	Lab	Logic Design	\$30.00	Electrical Engineering	120A
120B	Lab	Introduction to Embedded Systems	\$30.00	Electrical Engineering	120B
122A	Lab	Intermediate Embedded and Real-Time Systems	\$30.00		
122B	Lab	Advanced Embedded and Real-Time Systems	\$30.00		
135	Lab	Virtual Reality	\$40.00		
152	Lab	Compiler Design	\$30.00		
153	Lab	Design of Operating Systems	\$30.00		
160	Lab	Concurrent Programming and Parallel Systems	\$30.00		
161L	Lec	Design and Architecture of Computer Systems	\$30.00		
162	Lab	Computer Architecture	\$30.00		
164	Lab	Computer Networks	\$30.00		
165	Lab	Computer Security	\$30.00		
166	Lab	Database Management Systems	\$30.00		

COURSE #	TYPE	COURSE TITLE	APPROVED FEE	CROSS-LISTED DEPT.	Cross-Listed Course #
168	Lab	Introduction to Very Large Scale Integration (VLSI) Design	\$30.00	Electrical Engineering	168
177	Lab	Modeling and Simulation	\$30.00		
178A	Lab	Project Sequence in CSE	\$40.00		
178B	Lab	Project Sequence in CSE	\$40.00		
179 E-Z	Lab	Project in Computer Science	\$30.00		
180	Lab	Introduction to Software Engineering	\$30.00		
181	Lab	Principles of Programming Languages	\$30.00		
183	Lab	UNIX System Administration	\$30.00		
ELECTRICAL ENGINEERING					
030B	Lab	Fund of Elec Circuits II	\$30.00		
030LA	Lab	Fund of Elec Circuits I Lab	\$30.00		
100A	Lab	Electronic Circuits I	\$30.00		
100B	Lab	Electronic Circuits II	\$30.00		
105	Lab	Modeling and Simulation of Dynamic Systems	\$30.00		
110B	Lab	Signals and Systems	\$30.00		
115	Lab	Introduction to Communication Systems	\$30.00		
120A	Lab	Logic Design	\$30.00	Computer Sciences	120A
120B	Lab	Introduction to Embedded Systems	\$30.00	Computer Sciences	120B
123	Lab	Power Electronics	\$30.00		
128	Lab	Data Acquisition, Instrumentation, and Process Control	\$30.00		
132	Lab	Automatic Control	\$30.00		

COURSE #	TYPE	COURSE TITLE	APPROVED FEE	CROSS-LISTED DEPT.	Cross-Listed Course #
135	Lab	Analog Integrated Circuit Layout and Design	\$30.00		
136	Lab	Semiconductor Device Processing	\$50.00		
141	Lab	Digital Signal Processing	\$30.00		
144	Lab	Foundations of Robotics	\$56.67	Mechanical Engineering	144
146	Lab	Computer Vision	\$30.00		
151	Lab	Introduction to Digital Control	\$30.00		
152	Lab	Image Processing	\$30.00		
153	Lab	Electric Drives	\$30.00		
161	Lab	Analytical Material Characterization	\$166.25	Materials Science and Engineering	161
165	Lab	Design for Reliability of Integrated Circuits and Systems	\$30.00		
168	Lab	Introduction to Very Large Scale Integration (VLSI) Design	\$30.00	Computer Science	168
204	Lab	Advanced Electromagnetics	\$30.00		
206	Lab	Nanoscale Characterization Techniques	\$30.00	Materials Science and Engineering	227A
229	Lab	Video Processing & Communication	\$30.00		
272	Lab	Introduction to Imaging Bioinstrumentation	\$30.00	Genetics	272
273	Lab	Live Imaging & Analysis of Cellular and Molecular Behaviors	\$30.00	Genetics	273
274	Lab	Introduction to Medical Imaging & Analysis	\$30.00	Genetics	274
275	Lab	Project in Video Bioinformatics	\$30.00		
281B	Lab	Image Processing	\$30.00		
282A	Lab	Introduction to Very Large Scale Integration (VLSI) Design	\$30.00		

COURSE #	TYPE	COURSE TITLE	APPROVED FEE	CROSS-LISTED DEPT.	Cross-Listed Course #
282C	Lab	Analog Integrated Circuit Layout and Design	\$30.00		
282D	Lab	Design for Reliability of Integrated Circuits and Systems	\$30.00		
283A	Lab	Introduction to Robotics	\$30.00		
283B	Lab	Introduction to Digital Control	\$30.00		
284B	Lab	Computer Vision	\$30.00		
285A	Lab	Semiconductor Device Processing	\$50.00		
286B	Lab	Electric Drives	\$30.00		
286C	Lab	Power Electronics	\$30.00		
ENGINEERING (ENGR)					
180W	Lec	Technical Communications	\$30.00		
ENVIRONMENTAL ENGINEERING					
160A	Lab	Chem/Env Engineering Lab	\$86.67	Chemical Engineering	160A
160B	Lab	Environmental Engineering Lab	\$133.33		
160C	Lab	Environmental Engineering Lab	\$50.00		
175A	Lab	Senior Design Project	\$50.00		
MATERIALS SCIENCE AND ENGINEERING					
002L	Lab	General Materials Laboratory - Spring	\$102.50		
003L	Lab	General Materials Laboratory - Fall	\$128.75		
004L	Lab	General Materials Laboratory - Winter	\$87.50		
160	Lab	Nanostructure Characterization	\$166.25		
161	Lab	Analytical Material Characterization	\$166.25	Electrical Engineering	161

COURSE #	TYPE	COURSE TITLE	APPROVED FEE	CROSS-LISTED DEPT.	Cross-Listed Course #
175A	Prc	Senior Design	\$166.25		
175B	Prc	Senior Design	\$166.25		
227A	Lab	Nanoscale Characterization Techniques	\$30.00	Electrical Engineering	206
MECHANICAL ENGINEERING					
131	Lab	Design of Mechanisms	\$56.67		
133	Lab	Introduction to Mechatronics	\$56.67		
144	Lab	Introduction to Robotics	\$56.67	Electrical Engineering	144
156	Lab	Mechanical Behavior of Materials	\$56.67		
170A	Lab	Experimental Techniques	\$56.67		
170B	Lab	Experimental Techniques	\$56.67		
175B	Lab	Mechanical Engineering Design	\$90.00		
175C	Lab	Mechanical Engineering Design	\$90.00		
180	Lab	Optics and Lasers in Engineering	\$56.67		

GRADUATE SCHOOL OF EDUCATION (GSOE)					
COURSE #	TYPE	COURSE TITLE	APPROVED FEE	CROSS-LISTED DEPT.	Cross-Listed Course #
EDUCATION					
265B	Sem	Beginning Practicum in School Psychology: Level 2	\$20.00		
265C	Sem	Intermediate Practicum in School Psychology: Level 3	\$20.00		
265D	Sem	Intermediate Practicum in School Psy: Level 1	\$20.00		
265E	Sem	Intermediate Practicum in School Psychology: Level 2	\$20.00		

COURSE #	TYPE	COURSE TITLE	APPROVED FEE	CROSS-LISTED DEPT.	Cross-Listed Course #
265F	Sem	Practicum in School Psy: Mental Health Intrvntn	\$20.00		
268A	Sem	Advanced Practicum in School Psy: Level 1	\$20.00		
268B	Sem	Advanced Practicum in School Psychology: Level 2	\$20.00		
268C	Sem	Advanced Practicum in School Psychology: Level 3	\$20.00		
331	Sem	Education Specialist Seminar	\$75.00		
332	Sem	Multiple Subject Seminar	\$75.00		
333	Sem	Single Subject Seminar	\$75.00		
334	Sem	Combined Credential Seminar	\$75.00		
335A	Sem	Supervsd Teaching in Special Ed	\$228.00		
337A	Fld	Teaching Performance for Multiple Subject Candidates	\$300.00		
344A	Sem	Mult Subj Credential Sem	\$228.00		
348A	Sem	Sing Subj Credential Sem	\$228.00		
377A	Fld	Teaching Performance for Single Subject Candidates	\$300.00		
381A	Sem	Education Specialist Semnr	\$304.00		
382A	Sem	Teacher Performance for Education Specialist Candidates	\$300.00		

COURSE MATERIALS AND SERVICE FEES: FALL 2023



COLLEGE OF NATURAL & AGRICULTURAL SCIENCES (CNAS)

COURSE #	TYPE	COURSE TITLE	APPROVED FEE	CROSS-LISTED DEPT.	Cross-Listed Course #
BIOCHEMISTRY					
015	Lab	Intro Biochemistry Laboratory	\$80.00		
162	Lec	Advanced Biochemistry Laboratory	\$150.00		
BIOLOGY					
002	Lab	Cellular Basis of Life	\$50.00		
003	Lab	Organisms in Their Environment	\$25.00		
005LA	Lab	Introduction to Cell and Molecular Biology Lab	\$100.00		
005B	Lab	Introduction to Organismal Biology	\$50.00		
005C	Lab	Introduction to Evolution and Ecology	\$15.00		
020	Lab	Dynamic Genome	\$100.00		
100	Lab	General Entomology	\$30.00	Entomology	100
104	Lab	Foundations of Plant Biology	\$30.00	Botany and Plant Sciences	104
118	Lab	Molecular Phylogenetics and Evolution	\$50.00		
121L	Lab	Microbiology Laboratory	\$100.00	Microbiology	121L
132	Lab	Plant Anatomy	\$40.00	Botany and Plant Sciences	132
138	Lab	Plant Development Morphology	\$30.00	Botany and Plant Sciences	138

COURSE #	TYPE	COURSE TITLE	APPROVED FEE	CROSS-LISTED DEPT.	Cross-Listed Course #
143	Lab	Plant Physiology	\$50.00	Botany and Plant Sciences	143
151	Lab	Invertebrate Zoology	\$130.00		
160L	Lab	Laboratory in Animal Behavior	\$50.00		
161A	Lab	Functional Anatomy of the Vertebrates	\$50.00		
161B	Lab	Functional Anatomy of the Vertebrates	\$50.00		
162	Lec	Insect Behavior	\$5.00	Entomology	162
163	Lab	Evolutionary Ecology of Terrestrial Vertebrates	\$120.00		
165	Lec	Restoration Ecology	\$40.00	Botany and Plant Sciences	165
170	Lab	Herpetology	\$160.00		
171L	Lab	Human Anatomy & Physiology Lab	\$100.00		
173	Lab	Insect Physiology	\$5.00	Entomology	173
BOTANY AND PLANT SCIENCES					
031	Lab	Spring Wildflowers	\$25.00		
104	Lab	Foundations of Plant Biology	\$30.00	Biology	104
132	Lab	Plant Anatomy	\$40.00	Biology	132
133	Lab	Taxonomy of Flowering Plants	\$40.00		
138	Lab	Plant Development Morphology	\$30.00	Biology	138
143	Lab	Plant Physiology	\$50.00	Biology	143
146	Lab	Plant Ecology	\$30.00		
165	Lec	Restoration Ecology	\$40.00	Biology	165
166	Workshop	Plant Physiological Ecology	\$30.00		

COURSE #	TYPE	COURSE TITLE	APPROVED FEE	CROSS-LISTED DEPT.	Cross-Listed Course #
CELL BIOLOGY AND NEUROSCIENCE					
106	Lec	Introduction to Neuroscience	\$9.00		
120L	Lec	Neuroscience Laboratory	\$40.00	Psychology	120L
124	Lec	Systems Neuroscience	\$9.00	Psychology	124
169	Lec	Human Embryology	\$11.00		
129	Dis	Brain Control of Bodly Function	\$12.00		
CHEMISTRY					
01LA	Lab	General Chemistry	\$46.00		
01LB	Lab	General Chemistry	\$46.00		
01LC	Lab	General Chemistry	\$46.00		
1HLA	Lab	Honors General Chemistry	\$46.00		
1HLB	Lab	Honors General Chemistry	\$46.00		
1HLC	Lab	Honors General Chemistry	\$46.00		
005	Lab	Quantitative Analysis	\$46.00		
08LA	Lab	Organic Chemistry	\$46.00		
08LB	Lab	Organic Chemistry	\$46.00		
08LC	Lab	Organic Chemistry	\$46.00		
111	Lab	Physical Chemistry	\$46.00		
125W	Lab	Instrumental Methods	\$46.00		
140	Lab	Environmental Chemistry	\$46.00		
166	Lab	Advanced Structural and Synthetic Methods	\$46.00		

COURSE #	TYPE	COURSE TITLE	APPROVED FEE	CROSS-LISTED DEPT.	Cross-Listed Course #
ENTOMOLOGY					
010	Lec	Natural History of Insects	\$5.00		
100	Lab	General Entomology	\$30.00	Biology	100
020	Lec	Bees and Beekeeping	\$66.67		
109	Lab	Field Entomology	\$94.00		
114	Lab	Aquatic Insects	\$100.00		
124	Lab	Agricultural Entomology	\$100.00		
126	Lec	Medical and Veterinary Entomology	\$33.00		
162	Lec	Insect Behavior	\$5.00	Biology	162
173	Lab	Insect Physiology	\$5.00	Biology	173
GENETICS					
272	Lab	Introduction to Imaging Bioinstrumentation	\$30.00	Electrical Engineering	272
273	Lab	Live Imaging & Analysis of Cellular and Molecular Behaviors	\$30.00	Electrical Engineering	273
274	Lab	Introduction to Medical Imaging & Analysis	\$30.00	Electrical Engineering	274
GEOLOGY					
102B	Fld	Summer Field Geology	\$500.00		
MATHEMATICS					
004	Lec	Introduction to College Mathematics for Business and the Social Sciences	\$3.00		
005A	Lec	Precalculus	\$3.00		
009A	Lec	First Year Calculus	\$6.00		
009B	Lec	First Year Calculus	\$6.00		

COURSE #	TYPE	COURSE TITLE	APPROVED FEE	CROSS-LISTED DEPT.	Cross-Listed Course #
009C	Lec	First Year Calculus	\$6.00		
09HA	Lec	First Year Honors Calculus	\$3.00		
09HB	Lec	First Year Honors Calculus	\$3.00		
09HC	Lec	First Year Honors Calculus	\$3.00		
010A	Lec	Calculus - Several Variables	\$3.00		
010B	Lec	Calculus - Several Variables	\$3.00		
011	Lec	Introduction to Discrete Structures	\$3.00	Computer Science	011
022	Lec	Calculus for Business	\$6.00		
046	Lec	Ordinary Differential Equations	\$6.00		
MICROBIOLOGY					
121L	Lab	Microbiology Laboratory	\$100.00	Biology	121L
125	Lab	Experimental Microbiology	\$50.00		
128	Lab	Field Mycology	\$120.00		
PHYSICS					
002A	Lec	General Physics	\$5.00		
002HA	Lec	Honors General Physics	\$5.00		
002B	Lec	General Physics	\$5.00		
02HB	Lec	Honors General Physics	\$5.00		
002C	Lec	General Physics	\$5.00		
02HC	Lec	Honors General Physics	\$5.00		
02LA	Lab	General Physics Laboratory	\$25.00		

COURSE #	TYPE	COURSE TITLE	APPROVED FEE	CROSS-LISTED DEPT.	Cross-Listed Course #
02HLA	Lab	Honors General Physics Laboratory	\$25.00		
02LB	Lab	General Physics Laboratory	\$25.00		
02HLB	Lab	Honors General Physics Laboratory	\$25.00		
02LC	Lab	General Physics Laboratory	\$25.00		
02HLC	Lab	Honors General Physics Laboratory	\$25.00		
008	Lec	Color and Sound	\$5.00		
010	Lec	How Things Work	\$5.00		
016	Lec	Principles of Physics	\$5.00		
040A	Lab	General Physics	\$25.00		
040HA	Lab	Honors General Physics	\$25.00		
040B	Lab	General Physics	\$25.00		
040HB	Lab	Honors General Physics	\$25.00		
040C	Lab	General Physics	\$25.00		
040HC	Lab	Honors General Physics	\$25.00		
041A	Lab	Intro Physics for Physics Major	\$50.00		
041B	Lab	Intro Physics for Physics Major	\$50.00		
041C	Lab	Intro Physics for Physics Major	\$50.00		
139L	Lab	Electronics for Scientists	\$45.00		
142L	Lab	Advanced Physics Laboratory	\$150.00		
142W	Wrk	Advanced Physics Laboratory	\$150.00		

COLLEGE OF HUMANITIES, ARTS AND SOCIAL SCIENCES (CHASS)

COURSE #	TYPE	COURSE TITLE	APPROVED FEE	CROSS-LISTED DEPT.	Cross-Listed Course #
ART					
001	Lec	Beginning Drawing and Design	\$20.00		
002	Lec	Beginning Painting and Design	\$40.00		
003	Lec	Intro to Photo Process	\$50.00		
005	Lec	Beginning Sculpture and 3-D Design	\$85.00		
009	Lec	Introductory Web-Based Art: Site Creation and Navigation	\$50.00		
010	Stu	Intro to Video	\$60.00		
032	Lec	Art Studio One	\$80.00		
065	Lec	Introduction to Digital Printing & Drawing	\$65.00		
066	Lec	Introduction to 3-D Digital Modeling	\$40.00	Computer Science	066
067	Lec	Three-Dimensional Digital Modeling and Animation	\$65.00		067
070 E-Z	Lec	Digital Imaging Software for the Visual Arts	\$50.00		
071 E-Z	Lec	Photographic Materials & Processes	\$50.00		
075 E-Z	Wrk	Sculpture Materials & Processes	\$65.00		
102	Lec	Intermediate Drawing	\$20.00		
103	Lec	Advanced Drawing	\$20.00		
104	Lec	Life Drawing	\$45.00		
110	Lec	Intermediate Painting	\$40.00		
111	Lec	Advanced Painting	\$40.00		

COURSE #	TYPE	COURSE TITLE	APPROVED FEE	CROSS-LISTED DEPT.	Cross-Listed Course #
112 E-Z	Wrk	Painting Materials and Processes	\$50.00		
115	Lec	Intermediate Sculpture	\$80.00		
125	Lec	Sculpture Hybrid: FAD	\$75.00		
131	Lec	Intermediate Photography & Digital Technology	\$75.00	Media & Cultural Studies	131
132	Lec	Art Studio Two	\$80.00		
133	Lec	Senior Art Workshop	\$80.00		
134	Lec	Mixed Media	\$65.00		
136	Lec	Installation & Site-Specific Art	\$65.00	Media & Cultural Studies	136
137	Lec	Advanced Sculpture	\$80.00		
139	Lec	Intermediate Web-Based Art	\$40.00		
140	Lec	Intermediate Analog Photography	\$60.00		
143	Lec	Advanced Digital Imaging Technology	\$65.00		
145	Lec	Advanced Photography Workshop	\$60.00		
146 E-Z	Lec	Topics in Advanced Photography	\$60.00		
150	Lec	Intermediate Moving Images	\$50.00	Media & Cultural Studies	150
151	Lec	Intermediate Video/Time Based Expermtatn	\$60.00		
152	Lec	Advanced Video/Time Based Expermtatn	\$60.00		
155	Lec	Advanced Moving Images	\$50.00	Media & Cultural Studies	155
162	Stu	New Genres of Art Practice	\$50.00		
165	Lec	Intermediate Vector Image Making & Printing	\$65.00		
167	Lec	Web Authoring	\$35.00		

COURSE #	TYPE	COURSE TITLE	APPROVED FEE	CROSS-LISTED DEPT.	Cross-Listed Course #
169 E-Z	Lec	Digital Imaging Intermediate Software	\$35.00		
171	Lec	Intermediate & Advanced Sculpture/Digital	\$65.00		
175	Lec	Advanced Digital Workshop	\$65.00		
ART HISTORY					
136	Lec	History of Video Art	\$10.00	Media & Cultural Studies	137
137	Lec	History of Experimental Cinema	\$20.00	Media & Cultural Studies	138
GENDER AND SEXUALITY STUDIES					
148	Lec	INTRSCTNLTY, ECLGY, DSIGN SCI	\$917.00	Media & Cultural Studies	137
HIGHLANDER EARLY START ACADEMY					
001	Sem	Early Start Seminar	\$203.00		
MEDIA AND CULTURAL STUDIES					
131	Lec	Intermediate Photography & Digital Technology	\$75.00	Art	131
136	Lec	History of Experimental Cinema	\$65.00	Art	136
137	Lec	History of Video Art	\$10.00	Art History	136
138	Lec	History of Experimental Film	\$20.00	Art History	137
150	Lec	Intermediate Moving Images	\$50.00	Art	150
155	Lec	Advanced Moving Images	\$50.00	Art	155
MUSIC					
080 (E-Z)	Stu	Private Instruction: Voice, Keyboard, and Strings	\$350.00		
081 (E-Z)	Stu	Private Instruction: Brass, Woodwinds, Percussion, and Other Instruments	\$350.00		

COURSE #	TYPE	COURSE TITLE	APPROVED FEE	CROSS-LISTED DEPT.	Cross-Listed Course #
180 (E-Z)	Stu	Private Instruction: Voice, Keyboard, and Strings	\$700.00		
181 (E-Z)	Stu	Private Instruction: Brass, Woodwinds, Percussion, and Other Instruments	\$700.00		
PSYCHOLOGY					
120L	Lec	Neuroscience Laboratory	\$40.00	Cell Biology and Neuroscience	120L
124	Lec	Systems Neuroscience	\$9.00	Cell Biology and Neuroscience	124
THEATRE, FILM, AND DIGITAL PRODUCTION					
044	Dis	Make-Up, Theatre, Film TV	\$61.00		
117	Lec	Directing for the Screen	\$130.67		
130A	Lec	Producing Short Episodic Content A	\$130.67		
130B	Lec	Producing Short Episodic Content B	\$130.67		
144	Lec	Directing Actors for the Screen I	\$130.67		
153B	Lec	Advanced Cinematography	\$130.67		
155	Lec	Intro to Digital Film Production	\$98.00		
156A	Lec	Digital Film Production	\$98.00		
156B	Lec	Digital Film Production	\$98.00		
157	Lec	Introduction to Film Editing	\$71.00		
159	Wrk	Documentary Production	\$130.67		

MARLAN AND ROSEMARY BOURNS COLLEGE OF ENGINEERING (BCOE)

COURSE #	TYPE	COURSE TITLE	APPROVED FEE	CROSS-LISTED DEPT.	Cross-Listed Course #
BIOENGINEERING					
010	Lec	Overview of Bioengineering	\$50.00		
130L	Lab	Bioinstrumentation Lab	\$50.00		
155	Lab	Biotechnology Lab	\$150.00		
175A, 175B, 175C	Lec	Senior Design	\$100.00		
CHEMICAL AND ENVIRONMENTAL ENGINEERING					
011	Lab	Intro to Bioengineering	\$30.00		
125	Lab	Analys Meths For Chem & Env Engrs	\$116.67		
CHEMICAL ENGINEERING					
124L	Lab	Biochemical Engr Lab	\$106.67		
160A	Lab	Chem/Env Engineering Lab	\$86.67	Environmental Engineering	160A
160B	Lab	Chemical Engineering Lab	\$133.33		
160C	Lab	Chemical Engineering Lab	\$106.67		
161	Lab	Nanotechnology Processing Lab	\$93.33		
175A	Lab	Chemical Process Design	\$50.00		
COMPUTER SCIENCE					
005	Lab	Introduction to Computer Programming	\$30.00		
006	Lab	Effective Use of the World Wide Web	\$30.00		
008	Lab	Introduction to Computing	\$30.00		

COURSE #	TYPE	COURSE TITLE	APPROVED FEE	CROSS-LISTED DEPT.	Cross-Listed Course #
010A	Lab	Introduction to Computer Science for Science, Mathematics, and Engineering I	\$30.00		
010B	Lab	Introduction to Computer Science for Science, Mathematics, and Engineering I	\$30.00		
011	Lec	Introduction to Discrete Structures	\$3.00	Mathematics	11
009A	Lab	Data Oriented Intro to Comp 1	\$40.00		
009B	Lab	Data Oriented Intro to Comp 2	\$40.00		
100	Lab	Software Construction	\$40.00		
120A	Lab	Logic Design	\$30.00	Electrical Engineering	120A
120B	Lab	Introduction to Embedded Systems	\$30.00	Electrical Engineering	120B
122A	Lab	Intermediate Embedded and Real-Time Systems	\$30.00		
122B	Lab	Advanced Embedded and Real-Time Systems	\$30.00		
135	Lab	Virtual Reality	\$40.00		
152	Lab	Compiler Design	\$30.00		
153	Lab	Design of Operating Systems	\$30.00		
160	Lab	Concurrent Programming and Parallel Systems	\$30.00		
161L	Lec	Design and Architecture of Computer Systems	\$30.00		
162	Lab	Computer Architecture	\$30.00		
164	Lab	Computer Networks	\$30.00		
165	Lab	Computer Security	\$30.00		
166	Lab	Database Management Systems	\$30.00		

COURSE #	TYPE	COURSE TITLE	APPROVED FEE	CROSS-LISTED DEPT.	Cross-Listed Course #
168	Lab	Introduction to Very Large Scale Integration (VLSI) Design	\$30.00	Electrical Engineering	168
177	Lab	Modeling and Simulation	\$30.00		
178A	Lab	Project Sequence in CSE	\$40.00		
178B	Lab	Project Sequence in CSE	\$40.00		
179 E-Z	Lab	Project in Computer Science	\$30.00		
180	Lab	Introduction to Software Engineering	\$30.00		
181	Lab	Principles of Programming Languages	\$30.00		
183	Lab	UNIX System Administration	\$30.00		
ELECTRICAL ENGINEERING					
030B	Lab	Fund of Elec Circuits II	\$30.00		
030LA	Lab	Fund of Elec Circuits I Lab	\$30.00		
100A	Lab	Electronic Circuits I	\$30.00		
100B	Lab	Electronic Circuits II	\$30.00		
105	Lab	Modeling and Simulation of Dynamic Systems	\$30.00		
110B	Lab	Signals and Systems	\$30.00		
115	Lab	Introduction to Communication Systems	\$30.00		
120A	Lab	Logic Design	\$30.00	Computer Sciences	120A
120B	Lab	Introduction to Embedded Systems	\$30.00	Computer Sciences	120B
123	Lab	Power Electronics	\$30.00		
128	Lab	Data Acquisition, Instrumentation, and Process Control	\$30.00		
132	Lab	Automatic Control	\$30.00		

COURSE #	TYPE	COURSE TITLE	APPROVED FEE	CROSS-LISTED DEPT.	Cross-Listed Course #
135	Lab	Analog Integrated Circuit Layout and Design	\$30.00		
136	Lab	Semiconductor Device Processing	\$50.00		
141	Lab	Digital Signal Processing	\$30.00		
144	Lab	Foundations of Robotics	\$30.00	Mechanical Engineering	144
146	Lab	Computer Vision	\$30.00		
151	Lab	Introduction to Digital Control	\$30.00		
152	Lab	Image Processing	\$30.00		
153	Lab	Electric Drives	\$30.00		
161	Lab	Analytical Material Characterization	\$166.25	Materials Science and Engineering	161
165	Lab	Design for Reliability of Integrated Circuits and Systems	\$30.00		
168	Lab	Introduction to Very Large Scale Integration (VLSI) Design	\$30.00	Computer Science	168
204	Lab	Advanced Electromagnetics	\$30.00		
206	Lab	Nanoscale Characterization Techniques	\$30.00	Materials Science and Engineering	227A
229	Lab	Video Processing & Communication	\$30.00		
272	Lab	Introduction to Imaging Bioinstrumentation	\$30.00	Genetics	272
273	Lab	Live Imaging & Analysis of Cellular and Molecular Behaviors	\$30.00	Genetics	273
274	Lab	Introduction to Medical Imaging & Analysis	\$30.00	Genetics	274
275	Lab	Project in Video Bioinformatics	\$30.00		
281B	Lab	Image Processing	\$30.00		
282A	Lab	Introduction to Very Large Scale Integration (VLSI) Design	\$30.00		

COURSE #	TYPE	COURSE TITLE	APPROVED FEE	CROSS-LISTED DEPT.	Cross-Listed Course #
282C	Lab	Analog Integrated Circuit Layout and Design	\$30.00		
282D	Lab	Design for Reliability of Integrated Circuits and Systems	\$30.00		
283A	Lab	Introduction to Robotics	\$30.00		
283B	Lab	Introduction to Digital Control	\$30.00		
284B	Lab	Computer Vision	\$30.00		
285A	Lab	Semiconductor Device Processing	\$50.00		
286B	Lab	Electric Drives	\$30.00		
286C	Lab	Power Electronics	\$30.00		
ENGINEERING (ENGR)					
180W	Lec	Technical Communications	\$30.00		
ENVIRONMENTAL ENGINEERING					
160A	Lab	Chem/Env Engineering Lab	\$86.67	Chemical Engineering	160A
160B	Lab	Environmental Engineering Lab	\$133.33		
160C	Lab	Environmental Engineering Lab	\$50.00		
175A	Lab	Senior Design Project	\$50.00		
MATERIALS SCIENCE AND ENGINEERING					
002L	Lab	General Materials Laboratory - Spring	\$102.50		
003L	Lab	General Materials Laboratory - Fall	\$128.75		
004L	Lab	General Materials Laboratory - Winter	\$87.50		
160	Lab	Nanostructure Characterization	\$166.25		
161	Lab	Analytical Material Characterization	\$166.25	Electrical Engineering	161

COURSE #	TYPE	COURSE TITLE	APPROVED FEE	CROSS-LISTED DEPT.	Cross-Listed Course #
175A	Prc	Senior Design	\$166.25		
175B	Prc	Senior Design	\$166.25		
227A	Lab	Nanoscale Characterization Techniques	\$30.00	Electrical Engineering	206
MECHANICAL ENGINEERING					
131	Lab	Design of Mechanisms	\$30.00		
133	Lab	Introduction to Mechatronics	\$30.00		
144	Lab	Introduction to Robotics	\$30.00	Electrical Engineering	144
156	Lab	Mechanical Behavior of Materials	\$30.00		
170A	Lab	Experimental Techniques	\$30.00		
170B	Lab	Experimental Techniques	\$30.00		
175B	Lab	Mechanical Engineering Design	\$30.00		
175C	Lab	Mechanical Engineering Design	\$30.00		
180	Lab	Optics and Lasers in Engineering	\$30.00		

GRADUATE SCHOOL OF EDUCATION (GSOE)					
COURSE #	TYPE	COURSE TITLE	APPROVED FEE	CROSS-LISTED DEPT.	Cross-Listed Course #
EDUCATION					
265B	Sem	Beginning Practicum in School Psychology: Level 2	\$20.00		
265C	Sem	Intermediate Practicum in School Psychology: Level 3	\$20.00		
265D	Sem	Intermediate Practicum in School Psy: Level 1	\$20.00		
265E	Sem	Intermediate Practicum in School Psychology: Level 2	\$20.00		

COURSE #	TYPE	COURSE TITLE	APPROVED FEE	CROSS-LISTED DEPT.	Cross-Listed Course #
265F	Sem	Practicum in School Psy: Mental Health Intrvntn	\$20.00		
268A	Sem	Advanced Practicum in School Psy: Level 1	\$20.00		
268B	Sem	Advanced Practicum in School Psychology: Level 2	\$20.00		
268C	Sem	Advanced Practicum in School Psychology: Level 3	\$20.00		
331	Sem	Education Specialist Seminar	\$75.00		
332	Sem	Multiple Subject Seminar	\$75.00		
333	Sem	Single Subject Seminar	\$75.00		
334	Sem	Combined Credential Seminar	\$75.00		
335A	Sem	Supervsd Teaching in Special Ed	\$228.00		
337A	Fld	Teaching Performance for Multiple Subject Candidates	\$300.00		
344A	Sem	Mult Subj Credential Sem	\$228.00		
348A	Sem	Sing Subj Credential Sem	\$228.00		
377A	Fld	Teaching Performance for Single Subject Candidates	\$300.00		
381A	Sem	Education Specialist Semnr	\$304.00		
382A	Sem	Teacher Performance for Education Specialist Candidates	\$300.00		

COURSE MATERIALS AND SERVICE FEES: FALL 2022

Due to the occurrence of COVID-19, some course materials were not assessed for the fall 2021 quarter as the usual instructional materials were not provided. The only course material fees assessed by the college are listed below.

COLLEGE OF NATURAL & AGRICULTURAL SCIENCES (CNAS)					
COURSE #	TYPE	COURSE TITLE	APPROVED FEE	CROSS-LISTED DEPT.	Cross-Listed Course #
BIOCHEMISTRY					
15	Lab	Intro Biochemistry Laboratory	\$80.00		
162	Lec	Biochemistry and Molecular Biology	\$150.00		
BIOLOGY					
2	Lab	Cellular Basis of Life	\$50.00		
3	Lab	Organisms in Their Environment	\$25.00		
5LA	Lab	Introduction to Cell and Molecular Biology Lab	\$50.00		
5B	Lab	Introduction to Organismal Biology	\$50.00		
5C	Lab	Introduction to Evolution and Ecology	\$15.00		
20	Lab	Dynamic Genome	\$50.00		
100	Lab	General Entomology	\$30.00	Entomology	100
104	Lab	Foundations of Plant Biology	\$30.00	Botany and Plant Sciences	104
118	Lab	Molecular Phylogenetics and Evolution	\$50.00		
121L	Lab	Microbiology Laboratory	\$50.00	Microbiology	121L

COURSE #	TYPE	COURSE TITLE	APPROVED FEE	CROSS-LISTED DEPT.	Cross-Listed Course #
132	Lab	Plant Anatomy	\$40.00	Botany and Plant Sciences	132
138	Lab	Plant Development Morphology	\$30.00	Botany and Plant Sciences	138
143	Lab	Plant Physiology	\$50.00	Botany and Plant Sciences	143
151	Lab	Invertebrate Zoology	\$130.00		
160L	Lab	Laboratory in Animal Behavior	\$50.00		
161A	Lab	Functional Anatomy of the Vertebrates	\$50.00		
161B	Lab	Functional Anatomy of the Vertebrates	\$50.00		
162	Lec	Insect Behavior	\$5.00	Entomology	162
163	Lab	Evolutionary Ecology of Terrestrial Vertebrates	\$120.00		
165	Lec	Restoration Ecology	\$40.00	Botany and Plant Sciences	165
170	Lab	Herpetology	\$160.00		
171L	Lab	Human Anatomy & Physiology	\$100.00		
173	Lab	Insect Physiology	\$5.00	Entomology	173
BOTANY AND PLANT SCIENCES					
31	Lab	Spring Wildflowers	\$25.00		
104	Lab	Foundations of Plant Biology	\$30.00	Biology	104
132	Lab	Plant Anatomy	\$40.00	Biology	132
133	Lab	Taxonomy of Flowering Plants	\$40.00		
138	Lab	Plant Development Morphology	\$30.00	Biology	138
143	Lab	Plant Physiology	\$50.00	Biology	143
146	Lab	Plant Ecology	\$30.00		

COURSE #	TYPE	COURSE TITLE	APPROVED FEE	CROSS-LISTED DEPT.	Cross-Listed Course #
165	Lec	Restoration Ecology	\$40.00	Biology	165
166	Workshop	Plant Physiological Ecology	\$30.00		
CELL BIOLOGY AND NEUROSCIENCE					
106	Lec	Introduction to Neuroscience	\$9.00		
120L	Lec	Neuroscience Laboratory	\$40.00	Psychology	120L
124	Lec	Systems Neuroscience	\$9.00	Psychology	124
169	Lec	Human Embryology	\$11.00		
129	Dis	Brain Control of Bodly Function	\$12.00		
CHEMISTRY					
1LA	Lab	General Chemistry	\$46.00		
1LB	Lab	General Chemistry	\$46.00		
1LC	Lab	General Chemistry	\$46.00		
1HLA	Lab	Honors General Chemistry	\$46.00		
1HLB	Lab	Honors General Chemistry	\$46.00		
1HLC	Lab	Honors General Chemistry	\$46.00		
5	Lab	Quantitative Analysis	\$46.00		
08LA	Lab	Organic Chemistry	\$46.00		
08LB	Lab	Organic Chemistry	\$46.00		
08LC	Lab	Organic Chemistry	\$46.00		
111	Lab	Physical Chemistry	\$46.00		

COURSE #	TYPE	COURSE TITLE	APPROVED FEE	CROSS-LISTED DEPT.	Cross-Listed Course #
125W	Lab	Instrumental Methods	\$46.00		
140	Lab	Environmental Chemistry	\$46.00		
166	Lab	Advanced Structural and Synthetic Methods	\$46.00		
ENTOMOLOGY					
10	Lec	Natural History of Insects	\$5.00		
100	Lab	General Entomology	\$30.00	Biology	100
20	Lec	Bees and Beekeeping	\$66.67		
109	Lab	Field Entomology	\$94.00		
114	Lab	Aquatic Insects	\$100.00		
124	Lab	Agricultural Entomology	\$100.00		
126	Lec	Medical and Veterinary Entomology	\$33.00		
162	Lec	Insect Behavior	\$5.00	Biology	162
173	Lab	Insect Physiology	\$5.00	Biology	173
GENETICS					
272	Lab	Introduction to Imaging Bioinstrumentation	\$30.00	Electrical Engineering	272
273	Lab	Live Imaging & Analysis of Cellular and Molecular Behaviors	\$30.00	Electrical Engineering	273
274	Lab	Introduction to Medical Imaging & Analysis	\$30.00	Electrical Engineering	274
GEOLOGY					
102B	Fld	Summer Field Geology	\$500.00		

COURSE #	TYPE	COURSE TITLE	APPROVED FEE	CROSS-LISTED DEPT.	Cross-Listed Course #
MATHEMATICS					
2	Lec	Math Support Practicum	\$3.00		
4	Lec	Introduction to College Mathematics for Business and the Social Sciences	\$3.00		
05A	Lec	Precalculus	\$3.00		
008A	Lec	Intro to Coll Math for Sciences	\$3.00		
008B	Lec	Intro to Coll Math for Sciences	\$6.00		
009A	Lec	First Year Calculus	\$6.00		
009B	Lec	First Year Calculus	\$6.00		
009C	Lec	First Year Calculus	\$6.00		
09HA	Lec	Honors Calculus	\$3.00		
09HB	Lec	Honors Calculus	\$3.00		
09HC	Lec	Honors Calculus	\$3.00		
010A	Lec	Calculus - Several Variables	\$3.00		
010B	Lec	Calculus - Several Variables	\$3.00		
11	Lec	Introduction to Discrete Structures	\$3.00	Computer Science	11
22	Lec	Calculus for Business	\$6.00		
46	Lec	Ordinary Differential Equations	\$6.00		
MICROBIOLOGY					
121L	Lab	Microbiology Laboratory	\$100.00	Biology	121L
125	Lab	Experimental Microbiology	\$50.00		
128	Lab	Field Mycology	\$120.00		

COURSE #	TYPE	COURSE TITLE	APPROVED FEE	CROSS-LISTED DEPT.	Cross-Listed Course #
PHYSICS					
002A	Lec	General Physics	\$5.00		
002HA	Lec	Honors General Physics	\$5.00		
002B	Lec	General Physics	\$5.00		
002HB	Lec	Honors General Physics	\$5.00		
002C	Lec	General Physics	\$5.00		
002HC	Lec	Honors General Physics	\$5.00		
2LA	Lab	General Physics Laboratory	\$25.00		
02HLA	Lab	Honors General Physics Laboratory	\$25.00		
2LB	Lab	General Physics Laboratory	\$25.00		
02HLB	Lab	Honors General Physics Laboratory	\$25.00		
2LC	Lab	General Physics Laboratory	\$25.00		
02HLC	Lab	Honors General Physics Laboratory	\$25.00		
8	Lec	Color and Sound	\$5.00		
10	Lec	How Things Work	\$5.00		
16	Lec	Principles of Physics	\$5.00		
40A	Lab	General Physics	\$25.00		
040HA	Lab	Honors General Physics	\$25.00		
40B	Lab	General Physics	\$25.00		
040HB	Lab	Honors General Physics	\$25.00		
40C	Lab	General Physics	\$25.00		

COURSE #	TYPE	COURSE TITLE	APPROVED FEE	CROSS-LISTED DEPT.	Cross-Listed Course #
040HC	Lab	Honors General Physics	\$25.00		
41A	Lab	Intro Physics for Physics Major	\$50.00		
41B	Lab	Intro Physics for Physics Major	\$50.00		
41C	Lab	Intro Physics for Physics Major	\$50.00		
139L	Lab	Electronics for Scientists	\$45.00		
142L	Lab	Advanced Physics Laboratory	\$150.00		
142W	Wrk	Advanced Physics Laboratory	\$150.00		

COLLEGE OF HUMANITIES, ARTS AND SOCIAL SCIENCES (CHASS)

COURSE #	TYPE	COURSE TITLE	APPROVED FEE	CROSS-LISTED DEPT.	Cross-Listed Course #
ART					
1	Lec	Beginning Drawing and Design	\$20.00		
2	Lec	Beginning Painting and Design	\$40.00		
3	Lec	Intro to Photo Process	\$50.00		
5	Lec	Beginning Sculpture and 3-D Design	\$85.00		
9	Lec	Introductory Web-Based Art: Site Creation and Navigation	\$50.00		
10	Stu	Intro to Video	\$60.00		
32	Lec	Sophomore Workshop	\$80.00		
65	Lec	Intro To Vector Image Making & Printing	\$65.00		
66	Lec	Introduction to 3-D Digital Modeling	\$40.00	Computer Science	66
67	Lec	Three-Dimensional Digital Modeling and Animation	\$65.00		67

COURSE #	TYPE	COURSE TITLE	APPROVED FEE	CROSS-LISTED DEPT.	Cross-Listed Course #
70 E-Z	Lec	Digital Imaging Software for the Visual Arts	\$50.00		
71 E-Z	Lec	Photographic Materials & Processes	\$50.00		
75 E-Z	Wrk	Sculpture Materials & Processes	\$65.00		
102	Lec	Intermediate Drawing	\$20.00		
103	Lec	Advanced Drawing	\$20.00		
104	Lec	Life Drawing	\$45.00		
110	Lec	Intermediate Painting	\$40.00		
111	Lec	Advanced Painting	\$40.00		
112 E-Z	Wrk	Painting Materials and Processes	\$50.00		
115	Lec	Intermediate Sculpture	\$80.00		
125	Lec	Sculpture Hybrid	\$75.00		
131	Lec	Intermediate Photography & Digital Technology	\$75.00	Media & Cultural Studies	131
132	Lec	Junior Workshop	\$80.00		
133	Lec	Senior Art Workshop	\$80.00		
134	Lec	Mixed Media	\$65.00		
136	Lec	Installation & Site-Specific Art	\$65.00	Media & Cultural Studies	136
137	Lec	Advanced Sculpture	\$80.00		
139	Lec	Intermediate Web-Based Art	\$40.00		
140	Lec	Intermediate Analog Photography	\$60.00		
143	Lec	Advanced Digital Imaging Technology	\$65.00		
145	Lec	Advanced Photography Workshop	\$60.00		

COURSE #	TYPE	COURSE TITLE	APPROVED FEE	CROSS-LISTED DEPT.	Cross-Listed Course #
146 E-Z	Lec	Topics in Advanced Photography	\$60.00		
150	Lec	Intermediate Moving Images	\$50.00	Media & Cultural Studies	150
151	Lec	Intermediate Video/Time Based Expermtatn	\$60.00		
152	Lec	Advanced Video/Time Based Expermtatn	\$60.00		
155	Lec	Advanced Moving Images	\$50.00	Media & Cultural Studies	155
162	Stu	New Genres of Art Practice	\$50.00		
165	Lec	Intermediate Vector Image Making & Printing	\$65.00		
167	Lec	Web Authoring	\$35.00		
169 E-Z	Lec	Digital Imaging Intermediate Software	\$35.00		
171	Lec	Intermediate & Advanced Sculpture/Digital	\$65.00		
175	Lec	Advanced Digital Workshop	\$65.00		
ART HISTORY					
136	Lec	History of Video Art	\$10.00	Media & Cultural Studies	137
137	Lec	History of Experimental Film	\$20.00	Media & Cultural Studies	138
GENDER AND SEXUALITY STUDIES					
148	Lec	INTRSCTNLTY, ECLGY, DSIGN SCI	\$917.00	Media & Cultural Studies	137
HIGHLANDER EARLY START ACADEMY					
1	Sem	Early Start Seminar	\$203.00		
MEDIA AND CULTURAL STUDIES					
131	Lec	Intermediate Photography & Digital Technology	\$75.00	Art	131
136	Lec	Installation & Site-Specific Art	\$65.00	Art	136

COURSE #	TYPE	COURSE TITLE	APPROVED FEE	CROSS-LISTED DEPT.	Cross-Listed Course #
137	Lec	History of Video Art	\$10.00	Art History	136
138	Lec	History of Experimental Film	\$20.00	Art History	137
150	Lec	Intermediate Moving Images	\$50.00	Art	150
155	Lec	Advanced Moving Images	\$50.00	Art	155
MUSIC					
080 (E-Z)	Stu	Private Instruction: Voice, Keyboard, and Strings	\$300.00		
081 (E-Z)	Stu	Private Instruction: Brass, Woodwinds, Percussion, and Other Instruments	\$300.00		
0180 (E-Z)	Stu	Private Instruction: Voice, Keyboard, and Strings	\$600.00		
0181 (E-Z)	Stu	Private Instruction: Brass, Woodwinds, Percussion, and Other Instruments	\$600.00		
PSYCHOLOGY					
120L	Lec	Neuroscience Laboratory	\$40.00	Cell Biology and Neuroscience	120L
124	Lec	Systems Neuroscience	\$9.00	Cell Biology and Neuroscience	124
THEATRE, FILM, AND DIGITAL PRODUCTION					
44	Dis	Make-Up, Theatre, Film TV	\$61.00		
117	Lec	Directing for the Screen	\$130.67		
130A	Lec	Producing Short Episodic Content A	\$130.67		
130B	Lec	Producing Short Episodic Content B	\$130.67		
144	Lec	Directing Actors for the Screen I	\$130.67		
153B	Lec	Advanced Cinematography	\$130.67		
155	Lec	Intro to Digital Film Production	\$98.00		

COURSE #	TYPE	COURSE TITLE	APPROVED FEE	CROSS-LISTED DEPT.	Cross-Listed Course #
156A	Lec	Digital Film Production	\$98.00		
156B	Lec	Digital Film Production	\$98.00		
157	Lec	Introduction to Film Editing	\$71.00		
159	Wrk	Documentary Production	\$130.67		

MARLAN AND ROSEMARY BOURNS COLLEGE OF ENGINEERING (BCOE)

COURSE #	TYPE	COURSE TITLE	APPROVED FEE	CROSS-LISTED DEPT.	Cross-Listed Course #
BIOENGINEERING					
10	Lec	Overview of Bioengineering	\$50.00		
130L	Lab	Bioinstrumentation Lab	\$50.00		
155	Lab	Biotechnology Lab	\$150.00		
175A, 175B, 175C	Lec	Senior Design	\$100.00		
CHEMICAL AND ENVIRONMENTAL ENGINEERING					
11	Lab	Intro to Bioengineering	\$30.00		
125	Lab	Analys Meths For Chem & Env Engrs	\$50.00		
CHEMICAL ENGINEERING					
124L	Lab	Biochemical Engr Lab	\$106.67		
160A	Lab	Chem/Env Engineering Lab	\$86.67	Environmental Engineering	160A
160B	Lab	Chemical Engineering Lab	\$133.33		
160C	Lab	Chemical Engineering Lab	\$106.67		

COURSE #	TYPE	COURSE TITLE	APPROVED FEE	CROSS-LISTED DEPT.	Cross-Listed Course #
161	Lab	Nanotechnology Processing Lab	\$93.33		
175A	Lab	Chemical Process Design	\$50.00		
COMPUTER SCIENCE					
5	Lab	Introduction to Computer Programming	\$30.00		
6	Lab	Effective Use of the World Wide Web	\$30.00		
8	Lab	Introduction to Computing	\$30.00		
10A	Lab	Introduction to Computer Science for Science, Mathematics, and Engineering I	\$30.00		
10B	Lab	Introduction to Computer Science for Science, Mathematics, and Engineering I	\$30.00		
11	Lec	Introduction to Discrete Structures	\$3.00	Mathematics	11
009A	Lab	Data Oriented Intro to Comp 1	\$40.00		
009B	Lab	Data Oriented Intro to Comp 2	\$40.00		
009M	Lab	Introduction to Programming	\$30.00		
100	Lab	Software Construction	\$40.00		
120A	Lab	Logic Design	\$30.00	Electrical Engineering	120A
120B	Lab	Introduction to Embedded Systems	\$30.00	Electrical Engineering	120B
122A	Lab	Intermediate Embedded and Real-Time Systems	\$30.00		
122B	Lab	Advanced Embedded and Real-Time Systems	\$30.00		
135	Lab	Virtual Reality	\$40.00		
152	Lab	Compiler Design	\$30.00		
153	Lab	Design of Operating Systems	\$30.00		

COURSE #	TYPE	COURSE TITLE	APPROVED FEE	CROSS-LISTED DEPT.	Cross-Listed Course #
160	Lab	Concurrent Programming and Parallel Systems	\$30.00		
161L	Lec	Design and Architecture of Computer Systems	\$30.00		
162	Lab	Computer Architecture	\$30.00		
164	Lab	Computer Networks	\$30.00		
165	Lab	Computer Security	\$30.00		
166	Lab	Database Management Systems	\$30.00		
168	Lab	Introduction to Very Large Scale Integration (VLSI) Design	\$30.00	Electrical Engineering	168
177	Lab	Modeling and Simulation	\$30.00		
178A	Lab	Project Sequence in CSE	\$40.00		
178B	Lab	Project Sequence in CSE	\$40.00		
179 E-Z	Lab	Project in Computer Science	\$30.00		
180	Lab	Introduction to Software Engineering	\$30.00		
181	Lab	Principles of Programming Languages	\$30.00		
183	Lab	UNIX System Administration	\$30.00		
ELECTRICAL ENGINEERING					
30B	Lab	Fund of Elec Circuits II	\$30.00		
30LA	Lab	Fund of Elec Circuits I Lab	\$30.00		
100A	Lab	Electronic Circuits	\$30.00		
100B	Lab	Electronic Circuits	\$30.00		
105	Lab	Modeling and Simulation of Dynamic Systems	\$30.00		
110B	Lab	Signals and Systems	\$30.00		

COURSE #	TYPE	COURSE TITLE	APPROVED FEE	CROSS-LISTED DEPT.	Cross-Listed Course #
115	Lab	Introduction to Communication Systems	\$30.00		
120A	Lab	Logic Design	\$30.00	Computer Sciences	120A
120B	Lab	Introduction to Embedded Systems	\$30.00	Computer Sciences	120B
123	Lab	Power Electronics	\$30.00		
128	Lab	Data Acquisition, Instrumentation, and Process Control	\$30.00		
132	Lab	Automatic Control	\$30.00		
135	Lab	Analog Integrated Circuit Layout and Design	\$30.00		
136	Lab	Semiconductor Device Processing	\$50.00		
141	Lab	Digital Signal Processing	\$30.00		
144	Lab	Introduction to Robotics	\$30.00	Mechanical Engineering	144
146	Lab	Computer Vision	\$30.00		
151	Lab	Introduction to Digital Control	\$30.00		
152	Lab	Image Processing	\$30.00		
153	Lab	Electric Drives	\$30.00		
161	Lab	Analytical Material Characterization	\$133.00	Materials Science and Engineering	161
165	Lab	Design for Reliability of Integrated Circuits and Systems	\$30.00		
168	Lab	Introduction to Very Large Scale Integration (VLSI) Design	\$30.00	Computer Science	168
204	Lab	Advanced Electromagnetics	\$30.00		
206	Lab	Nanoscale Characterization Techniques	\$30.00	Materials Science and Engineering	227A
229	Lab	Video Processing & Communication	\$30.00		

COURSE #	TYPE	COURSE TITLE	APPROVED FEE	CROSS-LISTED DEPT.	Cross-Listed Course #
272	Lab	Introduction to Imaging Bioinstrumentation	\$30.00	Genetics	272
273	Lab	Live Imaging & Analysis of Cellular and Molecular Behaviors	\$30.00	Genetics	273
274	Lab	Introduction to Medical Imaging & Analysis	\$30.00	Genetics	274
275	Lab	Project in Video Bioinformatics	\$30.00		
281B	Lab	Image Processing	\$30.00		
282A	Lab	Introduction to Very Large Scale Integration (VLSI) Design	\$30.00		
282C	Lab	Analog Integrated Circuit Layout and Design	\$30.00		
282D	Lab	Design for Reliability of Integrated Circuits and Systems	\$30.00		
283A	Lab	Introduction to Robotics	\$30.00		
283B	Lab	Introduction to Digital Control	\$30.00		
284B	Lab	Computer Vision	\$30.00		
285A	Lab	Semiconductor Device Processing	\$50.00		
286B	Lab	Electric Drives	\$30.00		
286C	Lab	Power Electronics	\$30.00		
ENGINEERING (ENGR)					
180W	Lec	Technical Communications	\$30.00		
ENVIRONMENTAL ENGINEERING					
160A	Lab	Chem/Env Engineering Lab	\$86.67	Chemical Engineering	160A
160B	Lab	Environmental Engineering Lab	\$133.33		
160C	Lab	Environmental Engineering Lab	\$50.00		
175A	Lab	Senior Design Project	\$50.00		

COURSE #	TYPE	COURSE TITLE	APPROVED FEE	CROSS-LISTED DEPT.	Cross-Listed Course #
MATERIALS SCIENCE AND ENGINEERING					
160	Lab	Nanostructure Characterization	\$133.00		
161	Lab	Analytical Material Characterization	\$133.00	Electrical Engineering	161
175A	Prc	Senior Design	\$133.00		
175B	Prc	Senior Design	\$133.00		
227A	Lab	Nanoscale Characterization Techniques	\$30.00	Electrical Engineering	206
MECHANICAL ENGINEERING					
131	Lab	Design of Mechanisms	\$30.00		
133	Lab	Introduction to Mechatronics	\$30.00		
144	Lab	Introduction to Robotics	\$30.00	Electrical Engineering	144
156	Lab	Mechanical Behavior of Materials	\$30.00		
170A	Lab	Experimental Techniques	\$30.00		
170B	Lab	Experimental Techniques	\$30.00		
175B	Lab	Mechanical Engineering Design	\$30.00		
175C	Lab	Mechanical Engineering Design	\$30.00		
180	Lab	Optics and Lasers in Engineering	\$30.00		

GRADUATE SCHOOL OF EDUCATION (GSOE)

COURSE #	TYPE	COURSE TITLE	APPROVED FEE	CROSS-LISTED DEPT.	Cross-Listed Course #
EDUCATION					
265B	Sem	Practicum in School Psy: Basic Acad Intervtn and Consltatn	\$20.00		
265C	Sem	Practicum in School Psy: Admin and Interp of Cog Assmts	\$20.00		
265D	Sem	Intermediate Practicum in School Psy: Level 1	\$20.00		
265E	Sem	Practicum in School Psychology: Mental Health Assmt	\$20.00		
265F	Sem	Practicum in School Psy: Mental Health Intrvntn	\$20.00		
268A	Sem	Advanced Practicum in School Psy: Level 1	\$20.00		
268B	Sem	Practicum in School Psy: Psychology Suprvision	\$20.00		
268C	Sem	Practicum in School Psy: Consultation and Systems Level Chg	\$20.00		
331	Sem	Education Specialist Seminar	\$75.00		
332	Sem	Multiple Subject Seminar	\$75.00		
333	Sem	Single Subject Seminar	\$75.00		
334	Sem	Combined Credential Seminar	\$75.00		
335A	Sem	Supervsd Teaching in Special Ed	\$228.00		
337A	Fld	Teaching Performance for Multiple Subject Candidates	\$300.00		
344A	Sem	Mult Subj Credential Sem	\$228.00		
348A	Sem	Sing Subj Credential Sem	\$228.00		
377A	Fld	Teaching Performance for Single Subject Candidates	\$300.00		
381A	Sem	Education Specialist Semnr	\$304.00		
382A	Sem	Teacher Performance for Education Specialist Candidates	\$300.00		

COURSE MATERIALS AND SERVICE FEES: FALL 2021

Due to the occurrence of COVID-19, some course materials were not assessed for the fall 2021 quarter as the usual instructional materials were not provided. The only course material fees assessed by the college are listed below.

COLLEGE OF HUMANITIES, ARTS AND SOCIAL SCIENCES (CHASS)					
COURSE #	TYPE	COURSE TITLE	APPROVED FEE	CROSS-LISTED DEPT.	Cross-Listed Course #
ART					
001	Lec	Beginning Drawing and Design	\$20.00		
010	Stu	Intro to Video and Time-Based Experimentation	\$60.00		
002	Lec	Beginning Painting and Design	\$40.00		
003	Lec	Intro to Photo Process	\$50.00		
005	Lec	Beginning Sculpture and 3-D Design	\$85.00		
009	Lec	Introductory Web-Based Art: Site Creation and Navigation	\$50.00		
032	Lec	Sophomore Workshop	\$80.00		
065	Lec	Intro to Vector Image Making & Printing	\$65.00		
066	Lec	Introduction to 3-D Digital Modeling	\$40.00		
067	Lec	3-D Dimensional Digital Modeling & Animation	\$65.00		
102	Lec	Intermediate Drawing	\$20.00		
103	Lec	Advanced Drawing	\$20.00		
104	Lec	Life Drawing	\$45.00		

COURSE #	TYPE	COURSE TITLE	APPROVED FEE	CROSS-LISTED DEPT.	Cross-Listed Course #
110	Lec	Intermediate Painting	\$40.00		
111	Lec	Advanced Painting	\$40.00		
115	Lec	Intermediate Sculpture	\$80.00		
125	Lec	Sculpture Hybrid	\$75.00		
131	Lec	Intermediate Photography & Digital Technology	\$75.00	Media & Cultural Studies	131
132	Lec	Junior Workshop	\$80.00		
133	Lec	Senior Art Workshop	\$80.00		
134	Lec	Mixed Media	\$65.00		
136	Lec	Installation & Site-Specific Art	\$65.00	Media & Cultural Studies	136
137	Lec	Advanced Sculpture	\$80.00		
139	Lec	Intermediate Web Based Art	\$40.00		
140	Lec	Intermediate Analog Photography	\$60.00		
143	Lec	Advanced Digital Imaging Technology	\$65.00		
145	Lec	Advanced Photography Workshop	\$60.00		
151	Lec	Intermediate Video/Time Based Expermtatn	\$60.00		
152	Lec	Advanced Video/Time Based Expermtatn	\$60.00		
162	Stu	New Genres of Art Practice	\$50.00		
165	Lec	Intermediate Vector Image Making & Printing	\$65.00		
167	Lec	Web Authoring	\$35.00		
171	Lec	Intermediate & Advanced Sculpture/Digital	\$65.00		
175	Lec	Advanced Digital Workshop	\$65.00		

COURSE #	TYPE	COURSE TITLE	APPROVED FEE	CROSS-LISTED DEPT.	Cross-Listed Course #
070 E-Z	Lec	Digital Imaging Software for the Visual Arts	\$50.00		
071 E-Z	Lec	Photographic Materials & Processes	\$50.00		
075 E-Z	Wrk	Sculpture Materials & Processes	\$65.00		
112 E-Z	Wrk	Painting Materials and Processes	\$50.00		
146 E-Z	Lec	Topics in Advanced Photography	\$60.00		
169 E-Z	Lec	Digital Imaging Intermediate Software	\$35.00		
ART HISTORY					
136	Lec	History of Video Art	\$10.00	Media & Cultural Studies	137
137	Lec	History of Experimental Film	\$20.00	Media & Cultural Studies	138
MEDIA AND CULTURAL STUDIES					
131	Lec	Intermediate Photography & Digital Technology	\$75.00	Art	131
136	Lec	Installation & Site-Specific Art	\$65.00	Art	136
137	Lec	History of Video Art	\$10.00	Art History	136
138	Lec	History of Experimental Film	\$20.00	Art History	137
MUSIC					
080 (E-Z)	Stu	Private Instruction: Voice, Keyboard, and Strings	\$300.00		
081 (E-Z)	Stu	Private Instruction: Brass, Woodwinds, Percussion, and Other Instruments	\$300.00		
0180 (E-Z)	Stu	Private Instruction: Voice, Keyboard, and Strings	\$600.00		
0181 (E-Z)	Stu	Private Instruction: Brass, Woodwinds, Percussion, and Other Instruments	\$600.00		

COURSE #	TYPE	COURSE TITLE	APPROVED FEE	CROSS-LISTED DEPT.	Cross-Listed Course #
THEATRE, FILM, AND DIGITAL PRODUCTION					
044	Dis	Makeup: Theater, Film, TV	\$61.00		
155	Lec	Intro to Digital Film Production	\$98.00		
157	Lec	Introduction to Film Editing	\$71.00		
156A	Lec	Digital Film Production	\$98.00		
156B	Lec	Digital Film Production	\$98.00		

COLLEGE OF NATURAL & AGRICULTURAL SCIENCES (CNAS)					
COURSE #	TYPE	COURSE TITLE	APPROVED FEE	CROSS-LISTED DEPT.	Cross-Listed Course #
BIOCHEMISTRY					
015	Lab	Intro to Biochemical Laboratory	\$80.00		
162	Lec	Biochemistry and Molecular Biology	\$150.00		
BIOLOGY					
002	Lab	Cellular Basis of Life	\$50.00		
020	Lab	Dynamic Genome	\$50		
100	Lab	General Entomology	\$30	Entomology	100
143	Lab	Plant Physiology	\$50.00	Botany and Plant Sciences	143
163	Lab	Evolutionary Ecology of Terrestrial Vertebrates	\$120.00		
005B	Lab	Introduction to Organismal Biology	\$50.00		
005C	Lab	Introduction to Evolution and Ecology	\$15.00		
05LA	Lab	Introduction to Cell and Molecular Biology Lab	\$50.00		

COURSE #	TYPE	COURSE TITLE	APPROVED FEE	CROSS-LISTED DEPT.	Cross-Listed Course #
121L	Lab	Microbiology Laboratory	\$100.00	Microbiology	121L
161A	Lab	Functional Anatomy of the Vertebrates	\$50.00		
BOTANY AND PLANT SCIENCES					
143	Lab	Plant Physiology	\$50.00	Biology	143
CHEMISTRY					
005	Lab	Quantitative Analysis	\$46.00		
111	Lab	Physical Chemistry Lab	\$46.00		
140	Lab	Environmental Chemistry Lab	\$46.00		
166	Lab	Advanced Structural and Synthetic Methods	\$46.00		
01LA	Lab	General Chemistry Lab	\$46.00		
01LB	Lab	General Chemistry Lab	\$46.00		
01LC	Lab	General Chemistry Lab	\$46.00		
08LA	Lab	Organic Chemistry Lab	\$46.00		
08LB	Lab	Organic Chemistry Lab	\$46.00		
08LC	Lab	Organic Chemistry Lab	\$46.00		
125W	Lab	Instrumental Methods	\$46.00		
1HLA	Lab	Honors General Chemistry Lab	\$46.00		
1HLB	Lab	Honors General Chemistry Lab	\$46.00		
1HLC	Lab	Honors General Chemistry Lab	\$46.00		

COURSE #	TYPE	COURSE TITLE	APPROVED FEE	CROSS-LISTED DEPT.	Cross-Listed Course #
ENTOMOLOGY					
020	Lec	Bees and Beekeeping	\$66.67	Biology	100
100	Lab	General Entomology	\$30.00		
MATHEMATICS					
002	Lec	Math Support Practicum	\$3.00		
004	Lec	Introduction to College Math for Business & Soc Sciences	\$3.00		
011	Lec	Introduction to Discrete Structures	\$3.00	Computer Science	011
022	Lec	Calculus for Business	\$6.00		
008A	Lec	Intro to Coll Math for Sciences	\$3.00		
008B	Lec	Intro to Coll Math for Sciences	\$6.00		
009A	Lec	First Year Calculus	\$6.00		
009B	Lec	First Year Calculus	\$6.00		
009C	Lec	First Year Calculus	\$6.00		
010A	Lec	Calculus - Several Variables	\$3.00		
010B	Lec	Calculus - Several Variables	\$3.00		
MICROBIOLOGY					
125	Lab	Experimental Microbiology	\$50.00		
128	Lab	Field Mycology	\$120.00		
121L	Lab	Microbiology Laboratory	\$200.00	Biology	121L

COURSE #	TYPE	COURSE TITLE	APPROVED FEE	CROSS-LISTED DEPT.	Cross-Listed Course #
PHYSICS					
010	Lec	How Things Work	\$5.00		
016	Lec	Principles of Physics	\$5.00		
002A	Lec	General Physics	\$5.00		
002B	Lec	General Physics	\$5.00		
002C	Lec	General Physics	\$5.00		
02HA	Lec	Honors General Physics	\$5.00		
02HB	Lec	Honors General Physics	\$5.00		
02HC	Lec	Honors General Physics	\$5.00		
02HLA	Lab	Honors General Physics Lab	\$15.00		
02HLB	Lab	Honors General Physics Lab	\$15.00		
02HLC	Lab	Honors General Physics Lab	\$15.00		
02LA	Lab	General Physics Laboratory	\$15.00		
02LB	Lab	General Physics Laboratory	\$15.00		
02LC	Lab	General Physics Laboratory	\$15.00		
040A	Lab	General Physics	\$15.00		
040B	Lab	General Physics	\$15.00		
040C	Lab	General Physics	\$15.00		
040HA	Lab	Honors General Physics	\$15.00		
040HB	Lab	Honors General Physics	\$15.00		
040HC	Lab	Honors General Physics	\$15.00		

COURSE #	TYPE	COURSE TITLE	APPROVED FEE	CROSS-LISTED DEPT.	Cross-Listed Course #
041A	Lab	Intro Physics for Physics Major	\$25.00		
041B	Lab	Intro Physics for Physics Major	\$25.00		
041C	Lab	Intro Physics for Physics Major	\$25.00		
139L	Lab	Electronics for Scientists	\$45.00		
142L	Lab	Advanced Physics Laboratory	\$150.00		
142W	Wrk	Advanced Physics Laboratory	\$150.00		

MARLAN AND ROSEMARY BOURNS COLLEGE OF ENGINEERING (BCOE)

COURSE #	TYPE	COURSE TITLE	APPROVED FEE	CROSS-LISTED DEPT.	Cross-Listed Course #
BIOENGINEERING					
010	Lec	Overview of Bioengineering	\$50.00		
155	Lab	Biotechnology Lab Bioinstrumentation	\$150.00		
130L	Lab	Lab	\$50.00		
175A	Lab	Lab	\$50.00		
175B	Lab	Lab	\$50.00		
175C	Lec	Senior Design	\$100.00		
CHEMICAL AND ENVIRONMENTAL ENGINEERING					
001	Lab	Intro to Bioengineering	\$30.00		
125	Lab	Analys Meths For Chem & Env Engrs	\$50.00		
CHEMICAL ENGINEERING					
161	Lab	Nanotechnology Processing Lab	\$50.00		

COURSE #	TYPE	COURSE TITLE	APPROVED FEE	CROSS-LISTED DEPT.	Cross-Listed Course #
124L	Lab	Biochemical Engr Lab	\$50.00		
160A	Lab	Chem/Env Engineering Lab	\$50.00	Environmental Engineering	160A
160B	Lab	Chemical Engineering Lab	\$50.00		
160C	Lab	Chemical Engineering Lab	\$50.00		
175A	Lab	Chemical Process Design	\$50.00		
COMPUTER SCIENCE					
005	Lab	Introduction to Computer Programming	\$30.00		
006	Lab	Effective Use of the World Wide Web	\$30.00		
008	Lab	Introduction to Computing	\$30.00		
010A	Lab	Introduction to Computer Science for Science, Mathematics, and Engineering I	\$30.00		
010B	Lab	Introduction to Computer Science for Science, Mathematics, and Engineering II	\$30.00		
011	Lec	Introduction to Discrete Structures	\$3.00	Mathematics	11
130	Lab	Computer Graphics	\$30.00		
122A	Lab	Intermediate Embedded and Real-Time Systems	\$30.00		
133	Lab	Computational Geometry	\$30.00		
152	Lab	Compiler Design	\$30.00		
153	Lab	Design of Operating Systems	\$30.00		
160	Lab	Concurrent Programming and Parallel Systems	\$30.00		
162	Lab	Computer Architecture	\$30.00		
164	Lab	Computer Networks	\$30.00		

COURSE #	TYPE	COURSE TITLE	APPROVED FEE	CROSS-LISTED DEPT.	Cross-Listed Course #
165	Lab	Computer Security	\$30.00		
166	Lab	Database Management Systems	\$30.00		
177	Lab	Modeling and Simulation	\$30.00		
179 E-Z	Lab	Project in Computer Science	\$30.00		
180	Lab	Introduction to Software Engineering	\$30.00		
181	Lab	Principles of Programming Languages	\$30.00		
183	Lab	UNIX System Administration	\$30.00		
009M	Lab	Introduction to Programming	\$30.00		
120A	Lab	Logic Design	\$30.00	Electrical Engineering	120A
120B	Lab	Introduction to Embedded Systems	\$30.00	Electrical Engineering	120B
ELECTRICAL ENGINEERING					
030LA	Lab	Fund of Elec Circuits I Lab	\$30.00		
100A	Lab	Electronic Circuits	\$30.00		
115	Lab	Introduction to Communication Systems	\$30.00		
120A	Lab	Logic Design	\$30.00	Computer Science	120A
120B	Lab	Introduction to Embedded Systems	\$30.00	Computer Science	120B
128	Lab	Sensing and Actuation for Embedded Systems	\$30.00		
136	Lab	Semiconductor Device Processing	\$50.00		
144	Lab	Intro to Robotics	\$30.00	Mechanical Engineering	144

COURSE #	TYPE	COURSE TITLE	APPROVED FEE	CROSS-LISTED DEPT.	Cross-Listed Course #
ENVIRONMENTAL ENGINEERING					
160A	Lab	Chem/Env Engineering Lab	\$50.00	Chemical Engineering	160A
160B	Lab	Environmental Engineering Lab	\$50.00		
160C	Lab	Environmental Engineering Lab	\$50.00		
175A	Lab	Senior Design Project	\$50.00		
MATERIALS SCIENCE AND ENGINEERING					
161	Lab	Analytical Material Characterization	\$133.00		
MECHANICAL ENGINEERING					
144	Lab	Introduction to Robotics	\$30.00	Electrical Engineering	144
156	Lab	Mechanical Behavior of Materials	\$30.00		
180	Lab	Optics and Lasers in Engineering	\$30.00		
170A	Lab	Experimental Techniques	\$30.00		
170B	Lab	Experimental Techniques	\$30.00		
175B	Lab	Mechanical Engineering Design	\$30.00		
175C	Lab	Mechanical Engineering Design	\$30.00		

GRADUATE SCHOOL OF EDUCATION (GSOE)

COURSE #	TYPE	COURSE TITLE	APPROVED FEE	CROSS-LISTED DEPT.	Cross-Listed Course #
EDUCATION					
265A	Sem	Beginning Practicum in School Psy: Level 1	\$20.00		
265D	Sem	Intermediate Practicum in School Psyc: Level 1	\$20.00		

COURSE #	TYPE	COURSE TITLE	APPROVED FEE	CROSS-LISTED DEPT.	Cross-Listed Course #
268A	Sem	Advanced Practicum in School Psy: Level 1	\$20.00		
335A	Sem	Supervised Teaching in Special Ed	\$228.00		
344A	Sem	Mult Subj Credential Sem	\$228.00		
348A	Sem	Sing Subj Credential Sem	\$228.00		

COURSE MATERIALS AND SERVICE FEES: SPRING 2021

Due to the occurrence of COVID-19, the majority of course material fees were not assessed for the spring 2021 quarter as the usual instructional materials were not provided. The only course material fees assessed by the college are listed below.

COLLEGE OF HUMANITIES, ARTS AND SOCIAL SCIENCES (CHASS)

COURSE #	TYPE	COURSE TITLE	APPROVED FEE	CROSS-LISTED DEPT.	Cross-Listed Course #
MUSIC					
080 (E-Z)	Stu	Private Instruction: Voice, Keyboard, and Strings	\$300.00		
081 (E-Z)	Stu	Private Instruction: Brass, Woodwinds, Percussion, and Other Instruments	\$300.00		
0180 (E-Z)	Stu	Private Instruction: Voice, Keyboard, and Strings	\$600.00		
0181 (E-Z)	Stu	Private Instruction: Brass, Woodwinds, Percussion, and Other Instruments	\$600.00		

COLLEGE OF NATURAL & AGRICULTURAL SCIENCES (CNAS)

COURSE #	TYPE	COURSE TITLE	APPROVED FEE	CROSS-LISTED DEPT.	Cross-Listed Course #
BIOLOGY					
163	Lab	Evolutionary Ecology of Terrestrial Vertebrates	\$10.00		
121L	Lab	Microbiology Laboratory	\$200.00	Microbiology	121L

COURSE #	TYPE	COURSE TITLE	APPROVED FEE	CROSS-LISTED DEPT.	Cross-Listed Course #
BOTANY AND PLANT SCIENCES					
133	Lab	Taxonomy of Flowering Plants	\$40.00		
ENTOMOLOGY					
20	Lec	Bees and Beekeeping	\$66.67		
MICROBIOLOGY					
121L	Lab	Microbiology Laboratory	\$200.00	Biology	121L

MARLAN AND ROSEMARY BOURNS COLLEGE OF ENGINEERING (BCOE)

COURSE #	TYPE	COURSE TITLE	APPROVED FEE	CROSS-LISTED DEPT.	Cross-Listed Course #
CHEMICAL ENGINEERING					
161	Lab	Nanotechnology Processing Lab	\$50.00		
160A	Lab	Chem/Env Engineering Lab	\$50.00	Environmental Engineering	160A
COMPUTER SCIENCE					
5	Lab	Introduction to Computer Programming	\$30.00		
6	Lab	Effective Use of the World Wide Web	\$30.00		
8	Lab	Introduction to Computing	\$30.00		
010A	Lab	Introduction to Computer Science for Science, Mathematics, and Engineering I	\$30.00		
11	Lec	Introduction to Discrete Structures	\$3.00	Mathematics	11
13	Lab	Introduction to Computer Science for Engineering Majors	\$30.00		
122A	Lab	Intermediate Embedded and Real-Time Systems	\$30.00		
122B	Lab	Advanced Embedded and Real-Time Systems	\$30.00		

COURSE #	TYPE	COURSE TITLE	APPROVED FEE	CROSS-LISTED DEPT.	Cross-Listed Course #
130	Lab	Computer Graphics	\$30.00		
133	Lab	Computational Geometry	\$30.00		
152	Lab	Compiler Design	\$30.00		
153	Lab	Design of Operating Systems	\$30.00		
160	Lab	Concurrent Programming and Parallel Systems	\$30.00		
161L	Lec	Lab in Design and Architecture of Computer Systems	\$30.00		
162	Lab	Computer Architecture	\$30.00		
164	Lab	Computer Networks	\$30.00		
165	Lab	Computer Security	\$30.00		
166	Lab	Database Management Systems	\$30.00		
177	Lab	Modeling and Simulation	\$30.00		
179 E-Z	Lab	Project in Computer Science	\$30.00		
180	Lab	Introduction to Software Engineering	\$30.00		
181	Lab	Principles of Programming Languages	\$30.00		
183	Lab	UNIX System Administration	\$30.00		
009M	Lab	Introduction to Programming	\$30.00		
ELECTRICAL ENGINEERING					
001B	Lab	Engineering Circuit Analysis II	\$30.00		
01LA	Lab	Engineering Circuit Analysis I Laboratory	\$30.00		
100A	Lab	Electronic Circuits	\$30.00		

100B	Lab	Electronic Circuits	\$30.00		
COURSE #	TYPE	COURSE TITLE	APPROVED FEE	CROSS-LISTED DEPT.	Cross-Listed Course #
120A	Lab	Logic Design	\$30.00	Computer Science	120A
128	Lab	Sensing and Actuation for Embedded Systems	\$30.00		
132	Lab	Automatic Control	\$30.00		
141	Lab	Digital Signal Processing	\$30.00		
153	Lab	Electric Drives	\$30.00		
ENVIRONMENTAL ENGINEERING					
160A	Lab	Chem/Env Engineering Lab	\$50.00	Chemical Engineering	160A
160C	Lab	Environmental Engineering Lab	\$50.00		
175A	Lab	Senior Design Project	\$50.00		
MATERIALS SCIENCE AND ENGINEERING					
160	Lab	Nanostructure Characterization	\$133.00		
175B	Prc	Senior Design	\$133.00		
MECHANICAL ENGINEERING					
144	Lab	Introduction to Robotics	\$30.00	Electrical Engineering	144
170A	Lab	Experimental Techniques	\$30.00		
170B	Lab	Experimental Techniques	\$30.00		
175B	Lab	Mechanical Engineering Design	\$30.00		

175C	Lab	Mechanical Engineering Design	\$30.00		
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GRADUATE SCHOOL OF EDUCATION (GSOE)

COURSE #	TYPE	COURSE TITLE	APPROVED FEE	CROSS-LISTED DEPT.	Cross-Listed Course #
EDUCATION					
265C	Sem	Practicum in School Psy: Admin and Interp of Cog Assmts	\$20.00		
265F	Sem	Practicum in School Psy: Mental Health Intrvntn	\$20.00		
268C	Sem	Practicum in School Psy: Consultation and Systems Level Chg	\$20.00		

COURSE MATERIALS AND SERVICE FEES: WINTER 2021

Due to the occurrence of COVID-19, the majority of course material fees were not assessed for the winter 2021 quarter as the usual instructional materials were not provided. The only course material fees assessed by the college are listed below.

COLLEGE OF HUMANITIES, ARTS AND SOCIAL SCIENCES (CHASS)

COURSE #	TYPE	COURSE TITLE	APPROVED FEE	CROSS-LISTED DEPT.	Cross-Listed Course #
MUSIC					
080 (E-Z)	Stu	Private Instruction: Voice, Keyboard, and Strings	\$300.00		
081 (E-Z)	Stu	Private Instruction: Brass, Woodwinds, Percussion, and Other Instruments	\$300.00		
0180 (E-Z)	Stu	Private Instruction: Voice, Keyboard, and Strings	\$600.00		
0181 (E-Z)	Stu	Private Instruction: Brass, Woodwinds, Percussion, and Other Instruments	\$600.00		

COLLEGE OF NATURAL & AGRICULTURAL SCIENCES (CNAS)

COURSE #	TYPE	COURSE TITLE	APPROVED FEE	CROSS-LISTED DEPT.	Cross-Listed Course #
BIOLOGY					
163	Lab	Evolutionary Ecology of Terrestrial Vertebrates	\$10.00		
121L	Lab	Microbiology Laboratory	\$200.00	Microbiology	121L

COURSE #	TYPE	COURSE TITLE	APPROVED FEE	CROSS-LISTED DEPT.	Cross-Listed Course #
ENTOMOLOGY					
20	Lec	Bees and Beekeeping	\$66.67		
MICROBIOLOGY					
121L	Lab	Microbiology Laboratory	\$200.00	Biology	121L

MARLAN AND ROSEMARY BOURNS COLLEGE OF ENGINEERING (BCOE)					
COURSE #	TYPE	COURSE TITLE	APPROVED FEE	CROSS-LISTED DEPT.	Cross-Listed Course #
CHEMICAL ENGINEERING					
160B	Lab	Chemical Engineering Lab	\$50.00		
124L	Lab	Biochemical Engr Lab	\$50.00		
160C	Lab	Chemical Engineering Lab	\$50.00		
175A	Lab	Chemical Process Design	\$50.00		
CHEMICAL AND ENVIRONMENTAL ENGINEERING					
125	Lab	Analys Meths For Chem & Env Engrs	\$50.00		
COMPUTER SCIENCE					
5	Lab	Introduction to Computer Programming	\$30.00		
6	Lab	Effective Use of the World Wide Web	\$30.00		
8	Lab	Introduction to Computing	\$30.00		
010A	Lab	Introduction to Computer Science for Science, Mathematics, and Engineering I	\$30.00		
13	Lab	Introduction to Computer Science for Engineering Majors	\$30.00		
120B	Lab	Introduction to Embedded Systems	\$30.00	Electrical Engineering	120B

COURSE #	TYPE	COURSE TITLE	APPROVED FEE	CROSS-LISTED DEPT.	Cross-Listed Course #
122A	Lab	Intermediate Embedded and Real-Time Systems	\$30.00		
122B	Lab	Advanced Embedded and Real-Time Systems	\$30.00		
130	Lab	Computer Graphics	\$30.00		
133	Lab	Computational Geometry	\$30.00		
152	Lab	Compiler Design	\$30.00		
153	Lab	Design of Operating Systems	\$30.00		
160	Lab	Concurrent Programming and Parallel Systems	\$30.00		
161L	Lec	Lab in Design and Architecture of Computer Systems	\$30.00		
164	Lab	Computer Networks	\$30.00		
165	Lab	Computer Security	\$30.00		
166	Lab	Database Management Systems	\$30.00		
177	Lab	Modeling and Simulation	\$30.00		
179 E-Z	Lab	Project in Computer Science	\$30.00		
180	Lab	Introduction to Software Engineering	\$30.00		
181	Lab	Principles of Programming Languages	\$30.00		
183	Lab	UNIX System Administration	\$30.00		
009M	Lab	Introduction to Programming	\$30.00		
ELECTRICAL ENGINEERING					
100B	Lab	Electronic Circuits	\$30.00		
115	Lab	Introduction to Communication Systems	\$30.00		

COURSE #	TYPE	COURSE TITLE	APPROVED FEE	CROSS-LISTED DEPT.	Cross-Listed Course #
120B	Lab	Introduction to Embedded Systems	\$30.00	Computer Sciences	120B
141	Lab	Digital Signal Processing	\$30.00		
144	Lab	Introduction to Robotics	\$30.00	Mechanical Engineering	144
128	Lab	Sensing and Actuation for Embedded Systems	\$30.00		
132	Lab	Automatic Control	\$30.00		
135	Lab	Analog Integrated Circuit Layout and Design	\$30.00		
153	Lab	Electric Drives	\$30.00		
165	Lab	Design for Reliability of Integrated Circuits and Systems	\$30.00		
204	Lab	Advanced Electromagnetics	\$30.00		
229	Lab	Video Processing & Communication	\$30.00		
272	Lab	Introduction to Imaging Bioinstrumentation	\$30.00		
273	Lab	Live Imaging & Analysis of Cellular and Molecular Behaviors	\$30.00		
274	Lab	Introduction to Medical Imaging & Analysis	\$30.00		
275	Lab	Project in Video Bioinformatics	\$30.00		
ENVIRONMENTAL ENGINEERING					
160B	Lab	Environmental Engineering Lab	\$50.00		
160C	Lab	Environmental Engineering Lab	\$50.00		
175A	Lab	Senior Design Project	\$50.00		
MECHANICAL ENGINEERING					
144	Lab	Introduction to Robotics	\$30.00	Electrical Engineering	144

170B	Lab	Experimental Techniques	\$30.00		
175B	Lab	Mechanical Engineering Design	\$30.00		

GRADUATE SCHOOL OF EDUCATION (GSOE)

COURSE #	TYPE	COURSE TITLE	APPROVED FEE	CROSS-LISTED DEPT.	Cross-Listed Course #
EDUCATION					
265B	Sem	Beginning Practicum: Level 2	\$20.00		
265E	Sem	Intermediate Practicum in School Psy: Level 2	\$20.00		
268B	Sem	Advanced Practicum in School. Psy: Level 2	\$20.00		

COURSE MATERIALS AND SERVICE FEES: FALL 2020

Due to the occurrence of COVID-19, the majority of course material fees were not assessed in this quarter as the usual instructional materials were not provided. The only course material fees assessed by the college are listed below.

COLLEGE OF HUMANITIES, ARTS AND SOCIAL SCIENCES (CHASS)

COURSE #	TYPE	COURSE TITLE	APPROVED FEE	CROSS-LISTED DEPT.	Cross-Listed Course #
MUSIC					
080 (E-Z)	Stu	Private Instruction: Voice, Keyboard, and Strings	\$300.00		
081 (E-Z)	Stu	Private Instruction: Brass, Woodwinds, Percussion, and Other Instruments	\$300.00		
0180 (E-Z)	Stu	Private Instruction: Voice, Keyboard, and Strings	\$600.00		
0181 (E-Z)	Stu	Private Instruction: Brass, Woodwinds, Percussion, and Other Instruments	\$600.00		

COLLEGE OF NATURAL & AGRICULTURAL SCIENCES (CNAS)

COURSE #	TYPE	COURSE TITLE	APPROVED FEE	CROSS-LISTED DEPT.	Cross-Listed Course #
BIOLOGY					
163	Lab	Evolutionary Ecology of Terrestrial Vertebrates	\$10.00		
ENTOMOLOGY					
20	Lec	Bees and Beekeeping	\$66.67		

MARLAN AND ROSEMARY BOURNS COLLEGE OF ENGINEERING (BCOE)

COURSE #	TYPE	COURSE TITLE	APPROVED FEE	CROSS-LISTED DEPT.	Cross-Listed Course #
CHEMICAL ENGINEERING					
160B	Lab	Chemical Engineering Lab	\$50.00		
COMPUTER SCIENCE					
5	Lab	Introduction to Computer Programming	\$30.00		
6	Lab	Effective Use of the World Wide Web	\$30.00		
8	Lab	Introduction to Computing	\$30.00		
010A	Lab	Introduction to Computer Science for Science, Mathematics, and Engineering I	\$30.00		
010B	Lab	Introduction to Computer Science for Science, Mathematics, and Engineering I	\$30.00		
13	Lab	Introduction to Computer Science for Engineering Majors	\$30.00		
120A	Lab	Logic Design	\$30.00	Electrical Engineering	120A
120B	Lab	Introduction to Embedded Systems	\$30.00	Electrical Engineering	120B
122A	Lab	Intermediate Embedded and Real-Time Systems	\$30.00		
122B	Lab	Advanced Embedded and Real-Time Systems	\$30.00		
130	Lab	Computer Graphics	\$30.00		
133	Lab	Computational Geometry	\$30.00		
152	Lab	Compiler Design	\$30.00		

153	Lab	Design of Operating Systems	\$30.00		
160	Lab	Concurrent Programming and Parallel Systems	\$30.00		
COURSE #	TYPE	COURSE TITLE	APPROVED FEE	CROSS-LISTED DEPT.	Cross-Listed Course #
161L	Lec	Lab in Design and Architecture of Computer Systems	\$30.00		
164	Lab	Computer Networks	\$30.00	Electrical Engineering	120A
165	Lab	Computer Security	\$30.00	Electrical Engineering	120B
179 E-Z	Lab	Project in Computer Science	\$30.00		
180	Lab	Introduction to Software Engineering	\$30.00		
183	Lab	UNIX System Administration	\$30.00		
ELECTRICAL ENGINEERING					
011A	Lab	Engineering Circuit Analysis I Laboratory	\$30.00		
100B	Lab	Electronic Circuits	\$30.00		
115	Lab	Introduction to Communication Systems	\$30.00		
120A	Lab	Logic Design	\$30.00	Computer Sciences	120A
120B	Lab	Introduction to Embedded Systems	\$30.00	Computer Sciences	120B
141	Lab	Digital Signal Processing	\$30.00		
144	Lab	Introduction to Robotics	\$30.00	Mechanical Engineering	144
ENVIRONMENTAL ENGINEERING					
160B	Lab	Environmental Engineering Lab	\$50.00		
MECHANICAL ENGINEERING					

144	Lab	Introduction to Robotics	\$30.00	Electrical Engineering	144
170B	Lab	Experimental Techniques	\$30.00		

GRADUATE SCHOOL OF EDUCATION (GSOE)

COURSE #	TYPE	COURSE TITLE	APPROVED FEE	CROSS-LISTED DEPT.	Cross-Listed Course #
EDUCATION					
265A	Sem	Beginning Practicum in School Psychology: Level 1	\$20.00		
265D	Sem	Intermediate Practicum in School Psychology: Level 1	\$20.00		
268A	Sem	Advanced Practicum in School Psychology: Level 1	\$20.00		
335A	Sem	Supervsd Teaching: Special Ed	\$228.00		
344A	Sem	Mult Subj Credential Sem	\$228.00		
348A	Sem	Sing Subj Credential Sem	\$228.00		

COURSE MATERIALS AND SERVICES FEES | SPRING 2020

COLLEGE OF NATURAL & AGRICULTURAL SCIENCES (CNAS)

COURSE #	TYPE	COURSE TITLE	APPROVED FEE	CROSS-LISTED DEPT.	Cross-Listed Course #
BIOCHEMISTRY					
15	Lab	Intro Biochemistry Laboratory	\$80		
162	Lec	Biochemistry and Molecular Biology	\$150		
BIOLOGY					
2	Lab	Cellular Basis of Life	\$50		
3	Lab	Organisms in Their Environment	\$25		
5LA	Lab	Introduction to Cell and Molecular Biology Lab	\$50		
5B	Lab	Introduction to Organismal Biology	\$50		
5C	Lab	Introduction to Evolution and Ecology	\$15		
20	Lab	Dynamic Genome	\$50		
100	Lab	General Entomology	\$30	Entomology	100
104	Lab	Foundations of Plant Biology	\$30	Botany and Plant Sciences	104
118	Lab	Molecular Phylogenetics and Evolution	\$50		
121L	Lab	Microbiology Laboratory	\$100	Microbiology	121L
132	Lab	Plant Anatomy	\$40	Botany and Plant Sciences	132

138	Lab	Plant Development Morphology	\$30	Botany and Plant Sciences	138
143	Lab	Plant Physiology	\$50	Botany and Plant Sciences	143
151	Lab	Invertebrate Zoology	\$130		
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	\$5	Entomology	162
163	Lab	Evolutionary Ecology of Terrestrial Vertebrates	\$120		
165	Lec	Restoration Ecology	\$40	Botany and Plant Sciences	165
170	Lab	Herpetology	\$160		
171L	Lab	Human Anatomy & Physiology	\$100		
173	Lab	Insect Physiology	\$5	Entomology	173
BOTANY AND PLANT SCIENCES					
31	Lab	Spring Wildflowers	\$25		
104	Lab	Foundations of Plant Biology	\$30	Biology	104
132	Lab	Plant Anatomy	\$40	Biology	132
133	Lab	Taxonomy of Flowering Plants	\$40		
138	Lab	Plant Development Morphology	\$30	Biology	138
143	Lab	Plant Physiology	\$50	Biology	143
146	Lab	Plant Ecology	\$30		

165	Lec	Restoration Ecology	\$40	Biology	165
166	Workshop	Plant Physiological Ecology	\$30		
CELL BIOLOGY AND NEUROSCIENCE					
106	Lec	Introduction to Neuroscience	\$9		
120L	Lec	Neuroscience Laboratory	\$40	Psychology	120L
124	Lec	Systems Neuroscience	\$9	Psychology	124
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		
08LA	Lab	Organic Chemistry	\$46		
08LB	Lab	Organic Chemistry	\$46		
08LC	Lab	Organic Chemistry	\$46		
111	Lab	Physical Chemistry	\$46		

125W	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		
20	Lec	Bees and Beekeeping	\$66.67		
100	Lab	General Entomology	\$30	Biology	100
109	Lab	Field Entomology	\$94		
114	Lab	Aquatic Insects	\$100		
124	Lab	Agricultural Entomology	\$100		
126	Lec	Medical and Veterinary Entomology	\$33		
162	Lec	Insect Behavior	\$5	Biology	162
173	Lab	Insect Physiology	\$5	Biology	173
GENETICS					
272	Lab	Introduction to Imaging Bioinstrumentation	\$30	Electrical Engineering	272
273	Lab	Live Imaging & Analysis of Cellular and Molecular Behaviors	\$30	Electrical Engineering	273
274	Lab	Introduction to Medical Imaging & Analysis	\$30	Electrical Engineering	274
GEOLOGY					
102B	Fld	Summer Field Geology	\$1,732.00		
MATHEMATICS					
2	Lec	Math Support Practicum	\$3		

4	Lec	Introduction to College Mathematics for Business and the Social Sciences	\$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	\$3	Computer Science	11
22	Lec	Calculus for Business	\$6		
46	Lec	Ordinary Differential Equations	\$6		
MICROBIOLOGY					
121L	Lab	Microbiology Laboratory	\$100	Biology	121L
125	Lab	Experimental Microbiology	\$50		
PHYSICS					
002A	Lec	General Physics	\$5		

002HA	Lec	Honors General Physics	\$5		
002B	Lec	General Physics	\$5		
002HB	Lec	Honors General Physics	\$5		
002C	Lec	General Physics	\$5		
002HC	Lec	Honors General Physics	\$5		
2LA	Lab	General Physics Laboratory	\$25		
02HLA	Lab	Honors General Physics Laboratory	\$25		
2LB	Lab	General Physics Laboratory	\$25		
02HLB	Lab	Honors General Physics Laboratory	\$25		
2LC	Lab	General Physics Laboratory	\$25		
02HLC	Lab	Honors General Physics Laboratory	\$25		
8	Lec	Color and Sound: Dimensions in Communication	\$5		
10	Lec	How Things Work	\$5		
16	Lec	Principles of Physics	\$5		
40A	Lab	General Physics	\$25		
040HA	Lab	Honors General Physics	\$25		
40B	Lab	General Physics	\$25		
040HB	Lab	Honors General Physics	\$25		
40C	Lab	General Physics	\$25		
040HC	Lab	Honors 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		
142W	Wrk	Advanced Physics Laboratory	\$150		

COLLEGE OF HUMANITIES, ARTS AND SOCIAL SCIENCES (CHASS)

COURSE #	TYPE	COURSE TITLE	APPROVED FEE	CROSS-LISTED DEPT.	Cross-Listed Course #
ART					
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	\$60	Media & Cultural Studies	4
5	Lec	Beginning Sculpture and 3-D Design	\$85		
9	Lec	Introductory Web-Based Art: Site Creation and Navigation	\$50		
10	Stu	Intro to Video	\$60		
32	Lec	Sophomore Workshop	\$80		
65	Lec	Intro To Vector Image Making & Printing	\$65		
66	Lec	Introduction to 3-D Digital Modeling	\$40	Computer Science	66
67	Lec	Three-Dimensional Digital Modeling and Animation	\$65		67

70 E-Z	Lec	Digital Imaging Software for the Visual Arts	\$50		
71 E-Z	Lec	Photographic Materials & Processes	\$50		
75 E-Z	Wrk	Sculpture Materials & Processes	\$65		
102	Lec	Intermediate Drawing	\$20		
103	Lec	Advanced Drawing	\$20		
104	Lec	Life Drawing	\$45		
110	Lec	Intermediate Painting	\$40		
111	Lec	Advanced Painting	\$40		
112 E-Z	Wrk	Painting Materials and Processes	\$50		
115	Lec	Intermediate Sculpture	\$80		
125	Lec	Sculpture Hybrid	\$75		
131	Lec	Intermediate Photography & Digital Technology	\$75	Media & Cultural Studies	131
132	Lec	Junior Workshop	\$80		
133	Lec	Senior Art Workshop	\$80		
134	Lec	Mixed Media	\$65		
136	Lec	Installation & Site-Specific Art	\$65	Media & Cultural Studies	136
137	Lec	Advanced Sculpture	\$80		
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	\$50	Media & Cultural Studies	150
155	Lec	Advanced Moving Images	\$50	Media & Cultural Studies	155
162	Stu	New Genres of Art Practice	\$50		
165	Lec	Intermediate Vector Image Making & Printing	\$65		
167	Lec	Web Authoring	\$35		
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	\$10	Media & Cultural Studies	137
137	Lec	History of Experimental Film	\$20	Media & Cultural Studies	138
GENDER AND SEXUALITY STUDIES					
148	Lec	INTRSCTNLTY, ECLGY, DSIGN SCI	\$917		
HIGHLANDER EARLY START ACADEMY					
1	Sem	Early Start Seminar	\$203		
MEDIA AND CULTURAL STUDIES					
4	Lec	Introduction to Moving Images	\$60	Art	4
131	Lec	Intermediate Photography & Digital Technology	\$75	Art	131
136	Lec	Installation & Site-Specific Art	\$65	Art	136

137	Lec	History of Video Art	\$10	Art History	136
138	Lec	History of Experimental Film	\$20	Art History	137
150	Lec	Intermediate Moving Images	\$50	Art	150
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	\$40	Cell Biology and Neuroscience	120L
124	Lec	Systems Neuroscience	\$9	Cell Biology and Neuroscience	124
THEATRE, FILM, AND DIGITAL PRODUCTION					
44	Dis	Make-Up, Theatre, Film TV	\$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		

COURSE #	TYPE	COURSE TITLE	APPROVED FEE	CROSS-LISTED DEPT.	Cross-Listed Course #
BIOENGINEERING					
10	Lec	Overview of Bioengineering	\$50		
130L	Lab	Bioinstrumentation Lab	\$50		
155	Lab	Biotechnology Lab	\$150		
175A, 175B, 175C	Lec	Senior Design	\$100		
CHEMICAL AND ENVIRONMENTAL ENGINEERING					
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	\$50	Environmental Engineering	160A
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		
11	Lec	Introduction to Discrete Structures	\$3	Mathematics	11
12	Lab	Introduction to Computer Science for Science, Mathematics, and Engineering II	\$30		
13	Lab	Introduction to Computer Science for Engineering Majors	\$30		
009M	Lab	Introduction to Programming	\$30		
120A	Lab	Logic Design	\$30	Electrical Engineering	120A
120B	Lab	Introduction to Embedded Systems	\$30	Electrical Engineering	120B
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		
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	\$30	Electrical Engineering	168
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					
011A	Lab	Engineering Circuit Analysis I Laboratory	\$30		
001B	Lab	Engineering Circuit Analysis II	\$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		
120A	Lab	Logic Design	\$30	Computer Sciences	120A
120B	Lab	Introduction to Embedded Systems	\$30	Computer Sciences	120B
123	Lab	Power Electronics	\$30		
128	Lab	Data Acquisition, Instrumentation, and Process Control	\$30		
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		
144	Lab	Introduction to Robotics	\$30	Mechanical Engineering	144
146	Lab	Computer Vision	\$30		
151	Lab	Introduction to Digital Control	\$30		
152	Lab	Image Processing	\$30		
153	Lab	Electric Drives	\$30		
165	Lab	Design for Reliability of Integrated Circuits and Systems	\$30		
168	Lab	Introduction to Very Large Scale Integration (VLSI) Design	\$30	Computer Science	168
204	Lab	Advanced Electromagnetics	\$30		
206	Lab	Nanoscale Characterization Techniques	\$30	Materials Science and Engineering	227A
229	Lab	Video Processing & Communication	\$30		
272	Lab	Introduction to Imaging Bioinstrumentation	\$30	Genetics	272
273	Lab	Live Imaging & Analysis of Cellular and Molecular Behaviors	\$30	Genetics	273
274	Lab	Introduction to Medical Imaging & Analysis	\$30	Genetics	274
275	Lab	Project in Video Bioinformatics	\$30		
ENGINEERING (ENGR)					
180W	Lec	Technical Communications	\$30		
ENVIRONMENTAL ENGINEERING					
160A	Lab	Chem/Env Engineering Lab	\$50	Chemical Engineering	160A

160B	Lab	Environmental Engineering Lab	\$50		
160C	Lab	Environmental Engineering Lab	\$50		
175A	Lab	Senior Design Project	\$50		
MATERIAL SCIENCE AND ENGINEERING					
160	Lab	Nanostructure Characterization	\$133		
161	Lab	Nanostructure Characterization	\$133		
227A	Lab	Nanoscale Characterization Techniques	\$30	Electrical Engineering	206
MECHANICAL ENGINEERING					
131	Lab	Design of Mechanisms	\$30		
133	Lab	Introduction to Mechatronics	\$30		
144	Lab	Introduction to Robotics	\$30	Electrical Engineering	144
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		

SCHOOL OF BUSINESS

COURSE #	TYPE	COURSE TITLE	APPROVED FEE	CROSS-LISTED DEPT.	Cross-Listed Course #
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MANAGEMENT

404	Lec	Com, Leadership, Teams, and Ethics	\$181		
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GRADUATE SCHOOL OF EDUCATION (GSOE)

COURSE #	TYPE	COURSE TITLE	APPROVED FEE	CROSS-LISTED DEPT.	Cross-Listed Course #
EDUCATION					
265A	Sem	Practicum in School Psychology: Introductory	\$20		
265B	Sem	Practicum in School Psychology: Basic	\$20		
265C	Sem	Practicum in School Psychology: Advanced	\$20		
265D	Sem	Practicum in School Psychology: Clinical	\$20		
265E	Sem	Practicum in School Psychology: Supervision	\$20		
265F	Sem	Practicum: Mental Health Intervention	\$20		
268A	Sem	Practicum: Mental Health Intervention	\$20		
268B	Prc	Practicum: Mental Health Intervention	\$20		
268C	Prc	Practicum: Mental Health Intervention	\$20		
331	Sem	Early Supervsd Fieldwrk &Sem:ES	\$75		
332	Sem	Early Supervsd Fieldwrk &Sem:MS	\$75		
333	Sem	Early Supervsd Fieldwrk &Sem:SS	\$75		
335A	Sem	Supervsd Teaching: Special Ed	\$228		
337A	Fld	Fld Teaching Performance Assessment	\$300		
344A	Sem	Mult Subj Credential Sem	\$228		
348A	Sem	Sing Subj Credential Sem	\$228		
377A	Fld	Teaching Perf Assess Sing Subj	\$300		

COURSE MATERIALS AND SERVICES FEES | WINTER 2020

COLLEGE OF NATURAL & AGRICULTURAL SCIENCES (CNAS)

COURSE #	TYPE	COURSE TITLE	APPROVED FEE	CROSS-LISTED DEPT.	Cross-Listed Course #
BIOCHEMISTRY					
15	Lab	Intro Biochemistry Laboratory	\$80		
162	Lec	Biochemistry and Molecular Biology	\$150		
BIOLOGY					
2	Lab	Cellular Basis of Life	\$50		
3	Lab	Organisms in Their Environment	\$25		
5LA	Lab	Introduction to Cell and Molecular Biology Lab	\$50		
5B	Lab	Introduction to Organismal Biology	\$50		
5C	Lab	Introduction to Evolution and Ecology	\$15		
20	Lab	Dynamic Genome	\$50		
100	Lab	General Entomology	\$30	Entomology	100
104	Lab	Foundations of Plant Biology	\$30	Botany and Plant Sciences	104
118	Lab	Molecular Phylogenetics and Evolution	\$50		
121L	Lab	Microbiology Laboratory	\$100	Microbiology	121L
132	Lab	Plant Anatomy	\$40	Botany and Plant Sciences	132

138	Lab	Plant Development Morphology	\$30	Botany and Plant Sciences	138
143	Lab	Plant Physiology	\$50	Botany and Plant Sciences	143
151	Lab	Invertebrate Zoology	\$130		
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	\$5	Entomology	162
163	Lab	Evolutionary Ecology of Terrestrial Vertebrates	\$120		
165	Lec	Restoration Ecology	\$40	Botany and Plant Sciences	165
170	Lab	Herpetology	\$160		
171L	Lab	Human Anatomy & Physiology	\$100		
173	Lab	Insect Physiology	\$5	Entomology	173
BOTANY AND PLANT SCIENCES					
31	Lab	Spring Wildflowers	\$25		
104	Lab	Foundations of Plant Biology	\$30	Biology	104
132	Lab	Plant Anatomy	\$40	Biology	132
133	Lab	Taxonomy of Flowering Plants	\$40		
138	Lab	Plant Development Morphology	\$30	Biology	138
143	Lab	Plant Physiology	\$50	Biology	143
146	Lab	Plant Ecology	\$30		

165	Lec	Restoration Ecology	\$40	Biology	165
166	Workshop	Plant Physiological Ecology	\$30		
CELL BIOLOGY AND NEUROSCIENCE					
106	Lec	Introduction to Neuroscience	\$9		
120L	Lec	Neuroscience Laboratory	\$40	Psychology	120L
124	Lec	Systems Neuroscience	\$9	Psychology	124
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		
08LA	Lab	Organic Chemistry	\$46		
08LB	Lab	Organic Chemistry	\$46		
08LC	Lab	Organic Chemistry	\$46		
111	Lab	Physical Chemistry	\$46		

125W	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		
20	Lec	Bees and Beekeeping	\$66.67		
100	Lab	General Entomology	\$30	Biology	100
109	Lab	Field Entomology	\$94		
114	Lab	Aquatic Insects	\$100		
124	Lab	Agricultural Entomology	\$100		
126	Lec	Medical and Veterinary Entomology	\$33		
162	Lec	Insect Behavior	\$5	Biology	162
173	Lab	Insect Physiology	\$5	Biology	173
GENETICS					
272	Lab	Introduction to Imaging Bioinstrumentation	\$30	Electrical Engineering	272
273	Lab	Live Imaging & Analysis of Cellular and Molecular Behaviors	\$30	Electrical Engineering	273
274	Lab	Introduction to Medical Imaging & Analysis	\$30	Electrical Engineering	274
GEOLOGY					
102B	Fld	Summer Field Geology	\$1,732.00		
MATHEMATICS					
2	Lec	Math Support Practicum	\$3		

4	Lec	Introduction to College Mathematics for Business and the Social Sciences	\$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	\$3	Computer Science	11
22	Lec	Calculus for Business	\$6		
46	Lec	Ordinary Differential Equations	\$6		
MICROBIOLOGY					
121L	Lab	Microbiology Laboratory	\$100	Biology	121L
125	Lab	Experimental Microbiology	\$50		
PHYSICS					
002A	Lec	General Physics	\$5		

002HA	Lec	Honors General Physics	\$5		
002B	Lec	General Physics	\$5		
002HB	Lec	Honors General Physics	\$5		
002C	Lec	General Physics	\$5		
002HC	Lec	Honors General Physics	\$5		
2LA	Lab	General Physics Laboratory	\$25		
02HLA	Lab	Honors General Physics Laboratory	\$25		
2LB	Lab	General Physics Laboratory	\$25		
02HLB	Lab	Honors General Physics Laboratory	\$25		
2LC	Lab	General Physics Laboratory	\$25		
02HLC	Lab	Honors General Physics Laboratory	\$25		
8	Lec	Color and Sound: Dimensions in Communication	\$5		
10	Lec	How Things Work	\$5		
16	Lec	Principles of Physics	\$5		
40A	Lab	General Physics	\$25		
040HA	Lab	Honors General Physics	\$25		
40B	Lab	General Physics	\$25		
040HB	Lab	Honors General Physics	\$25		
40C	Lab	General Physics	\$25		
040HC	Lab	Honors 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		
142W	Wrk	Advanced Physics Laboratory	\$150		

COLLEGE OF HUMANITIES, ARTS AND SOCIAL SCIENCES (CHASS)

COURSE #	TYPE	COURSE TITLE	APPROVED FEE	CROSS-LISTED DEPT.	Cross-Listed Course #
ART					
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	\$60	Media & Cultural Studies	4
5	Lec	Beginning Sculpture and 3-D Design	\$85		
9	Lec	Introductory Web-Based Art: Site Creation and Navigation	\$50		
10	Stu	Intro to Video	\$60		
32	Lec	Sophomore Workshop	\$80		
65	Lec	Intro To Vector Image Making & Printing	\$65		
66	Lec	Introduction to 3-D Digital Modeling	\$40	Computer Science	66
67	Lec	Three-Dimensional Digital Modeling and Animation	\$65		67

70 E-Z	Lec	Digital Imaging Software for the Visual Arts	\$50		
71 E-Z	Lec	Photographic Materials & Processes	\$50		
75 E-Z	Wrk	Sculpture Materials & Processes	\$65		
102	Lec	Intermediate Drawing	\$20		
103	Lec	Advanced Drawing	\$20		
104	Lec	Life Drawing	\$45		
110	Lec	Intermediate Painting	\$40		
111	Lec	Advanced Painting	\$40		
112 E-Z	Wrk	Painting Materials and Processes	\$50		
115	Lec	Intermediate Sculpture	\$80		
125	Lec	Sculpture Hybrid	\$75		
131	Lec	Intermediate Photography & Digital Technology	\$75	Media & Cultural Studies	131
132	Lec	Junior Workshop	\$80		
133	Lec	Senior Art Workshop	\$80		
134	Lec	Mixed Media	\$65		
136	Lec	Installation & Site-Specific Art	\$65	Media & Cultural Studies	136
137	Lec	Advanced Sculpture	\$80		
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	\$50	Media & Cultural Studies	150
155	Lec	Advanced Moving Images	\$50	Media & Cultural Studies	155
162	Stu	New Genres of Art Practice	\$50		
165	Lec	Intermediate Vector Image Making & Printing	\$65		
167	Lec	Web Authoring	\$35		
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	\$10	Media & Cultural Studies	137
137	Lec	History of Experimental Film	\$20	Media & Cultural Studies	138
GENDER AND SEXUALITY STUDIES					
148	Lec	INTRSCTNLTY, ECLGY, DSIGN SCI	\$917		
HIGHLANDER EARLY START ACADEMY					
1	Sem	Early Start Seminar	\$203		
MEDIA AND CULTURAL STUDIES					
4	Lec	Introduction to Moving Images	\$60	Art	4
131	Lec	Intermediate Photography & Digital Technology	\$75	Art	131
136	Lec	Installation & Site-Specific Art	\$65	Art	136

137	Lec	History of Video Art	\$10	Art History	136
138	Lec	History of Experimental Film	\$20	Art History	137
150	Lec	Intermediate Moving Images	\$50	Art	150
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	\$40	Cell Biology and Neuroscience	120L
124	Lec	Systems Neuroscience	\$9	Cell Biology and Neuroscience	124
THEATRE, FILM, AND DIGITAL PRODUCTION					
44	Dis	Make-Up, Theatre, Film TV	\$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		

COURSE #	TYPE	COURSE TITLE	APPROVED FEE	CROSS-LISTED DEPT.	Cross-Listed Course #
BIOENGINEERING					
10	Lec	Overview of Bioengineering	\$50		
130L	Lab	Bioinstrumentation Lab	\$50		
155	Lab	Biotechnology Lab	\$150		
175A, 175B, 175C	Lec	Senior Design	\$100		
CHEMICAL AND ENVIRONMENTAL ENGINEERING					
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	\$50	Environmental Engineering	160A
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		
11	Lec	Introduction to Discrete Structures	\$3	Mathematics	11
12	Lab	Introduction to Computer Science for Science, Mathematics, and Engineering II	\$30		
13	Lab	Introduction to Computer Science for Engineering Majors	\$30		
009M	Lab	Introduction to Programming	\$30		
120A	Lab	Logic Design	\$30	Electrical Engineering	120A
120B	Lab	Introduction to Embedded Systems	\$30	Electrical Engineering	120B
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		
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	\$30	Electrical Engineering	168
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					
011A	Lab	Engineering Circuit Analysis I Laboratory	\$30		
001B	Lab	Engineering Circuit Analysis II	\$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		
120A	Lab	Logic Design	\$30	Computer Sciences	120A
120B	Lab	Introduction to Embedded Systems	\$30	Computer Sciences	120B
123	Lab	Power Electronics	\$30		
128	Lab	Data Acquisition, Instrumentation, and Process Control	\$30		
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		
144	Lab	Introduction to Robotics	\$30	Mechanical Engineering	144
146	Lab	Computer Vision	\$30		
151	Lab	Introduction to Digital Control	\$30		
152	Lab	Image Processing	\$30		
153	Lab	Electric Drives	\$30		
165	Lab	Design for Reliability of Integrated Circuits and Systems	\$30		
168	Lab	Introduction to Very Large Scale Integration (VLSI) Design	\$30	Computer Science	168
204	Lab	Advanced Electromagnetics	\$30		
206	Lab	Nanoscale Characterization Techniques	\$30	Materials Science and Engineering	227A
229	Lab	Video Processing & Communication	\$30		
272	Lab	Introduction to Imaging Bioinstrumentation	\$30	Genetics	272
273	Lab	Live Imaging & Analysis of Cellular and Molecular Behaviors	\$30	Genetics	273
274	Lab	Introduction to Medical Imaging & Analysis	\$30	Genetics	274
275	Lab	Project in Video Bioinformatics	\$30		
ENGINEERING (ENGR)					
180W	Lec	Technical Communications	\$30		
ENVIRONMENTAL ENGINEERING					
160A	Lab	Chem/Env Engineering Lab	\$50	Chemical Engineering	160A

160B	Lab	Environmental Engineering Lab	\$50		
160C	Lab	Environmental Engineering Lab	\$50		
175A	Lab	Senior Design Project	\$50		
MATERIAL SCIENCE AND ENGINEERING					
160	Lab	Nanostructure Characterization	\$133		
161	Lab	Nanostructure Characterization	\$133		
227A	Lab	Nanoscale Characterization Techniques	\$30	Electrical Engineering	206
MECHANICAL ENGINEERING					
131	Lab	Design of Mechanisms	\$30		
133	Lab	Introduction to Mechatronics	\$30		
144	Lab	Introduction to Robotics	\$30	Electrical Engineering	144
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		

SCHOOL OF BUSINESS

COURSE #	TYPE	COURSE TITLE	APPROVED FEE	CROSS-LISTED DEPT.	Cross-Listed Course #
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MANAGEMENT

404	Lec	Com, Leadership, Teams, and Ethics	\$181		
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GRADUATE SCHOOL OF EDUCATION (GSOE)

COURSE #	TYPE	COURSE TITLE	APPROVED FEE	CROSS-LISTED DEPT.	Cross-Listed Course #
EDUCATION					
265A	Sem	Practicum in School Psychology: Introductory	\$20		
265B	Sem	Practicum in School Psychology: Basic	\$20		
265C	Sem	Practicum in School Psychology: Advanced	\$20		
265D	Sem	Practicum in School Psychology: Clinical	\$20		
265E	Sem	Practicum in School Psychology: Supervision	\$20		
265F	Sem	Practicum: Mental Health Intervention	\$20		
268A	Sem	Practicum: Mental Health Intervention	\$20		
268B	Prc	Practicum: Mental Health Intervention	\$20		
268C	Prc	Practicum: Mental Health Intervention	\$20		
331	Sem	Early Supervsd Fieldwrk &Sem:ES	\$75.00		
332	Sem	Early Supervsd Fieldwrk &Sem:MS	\$75.00		
333	Sem	Early Supervsd Fieldwrk &Sem:SS	\$75.00		
335A	Sem	Supervsd Teaching: Special Ed	\$228.00		
337A	Fld	Fld Teaching Performance Assessment	\$300.00		
344A	Sem	Mult Subj Credential Sem	\$228.00		
348A	Sem	Sing Subj Credential Sem	\$228.00		
377A	Fld	Teaching Perf Assess Sing Subj	\$300.00		

COURSE MATERIALS AND SERVICES FEES | FALL 2019

COLLEGE OF NATURAL & AGRICULTURAL SCIENCES (CNAS)

COURSE #	TYPE	COURSE TITLE	APPROVED FEE	CROSS-LISTED DEPT.	Cross-Listed Course #
BIOCHEMISTRY					
15	Lab	Intro Biochemistry Laboratory	\$80		
162	Lec	Biochemistry and Molecular Biology	\$150		
BIOLOGY					
2	Lab	Cellular Basis of Life	\$50		
3	Lab	Organisms in Their Environment	\$25		
5LA	Lab	Introduction to Cell and Molecular Biology Lab	\$50		
5B	Lab	Introduction to Organismal Biology	\$50		
5C	Lab	Introduction to Evolution and Ecology	\$15		
20	Lab	Dynamic Genome	\$50		
100	Lab	General Entomology	\$30	Entomology	100
104	Lab	Foundations of Plant Biology	\$30	Botany and Plant Sciences	104
118	Lab	Molecular Phylogenetics and Evolution	\$50		
121L	Lab	Microbiology Laboratory	\$100	Microbiology	121L
132	Lab	Plant Anatomy	\$40	Botany and Plant Sciences	132

138	Lab	Plant Development Morphology	\$30	Botany and Plant Sciences	138
143	Lab	Plant Physiology	\$50	Botany and Plant Sciences	143
151	Lab	Invertebrate Zoology	\$130		
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	\$5	Entomology	162
163	Lab	Evolutionary Ecology of Terrestrial Vertebrates	\$120		
165	Lec	Restoration Ecology	\$40	Botany and Plant Sciences	165
170	Lab	Herpetology	\$160		
171L	Lab	Human Anatomy & Physiology	\$100		
173	Lab	Insect Physiology	\$5	Entomology	173
BOTANY AND PLANT SCIENCES					
31	Lab	Spring Wildflowers	\$25		
104	Lab	Foundations of Plant Biology	\$30	Biology	104
132	Lab	Plant Anatomy	\$40	Biology	132
133	Lab	Taxonomy of Flowering Plants	\$40		
138	Lab	Plant Development Morphology	\$30	Biology	138
143	Lab	Plant Physiology	\$50	Biology	143
146	Lab	Plant Ecology	\$30		

165	Lec	Restoration Ecology	\$40	Biology	165
166	Workshop	Plant Physiological Ecology	\$30		
CELL BIOLOGY AND NEUROSCIENCE					
106	Lec	Introduction to Neuroscience	\$9		
120L	Lec	Neuroscience Laboratory	\$40	Psychology	120L
124	Lec	Systems Neuroscience	\$9	Psychology	124
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		
08LA	Lab	Organic Chemistry	\$46		
08LB	Lab	Organic Chemistry	\$46		
08LC	Lab	Organic Chemistry	\$46		
111	Lab	Physical Chemistry	\$46		

125W	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		
20	Lec	Bees and Beekeeping	\$67		
100	Lab	General Entomology	\$30	Biology	100
109	Lab	Field Entomology	\$94		
114	Lab	Aquatic Insects	\$100		
124	Lab	Agricultural Entomology	\$100		
126	Lec	Medical and Veterinary Entomology	\$33		
162	Lec	Insect Behavior	\$5	Biology	162
173	Lab	Insect Physiology	\$5	Biology	173
GENETICS					
272	Lab	Introduction to Imaging Bioinstrumentation	\$30	Electrical Engineering	272
273	Lab	Live Imaging & Analysis of Cellular and Molecular Behaviors	\$30	Electrical Engineering	273
274	Lab	Introduction to Medical Imaging & Analysis	\$30	Electrical Engineering	274
GEOLOGY					
102B	Fld	Summer Field Geology	\$1,732.00		
MATHEMATICS					
2	Lec	Math Support Practicum	\$3		

4	Lec	Introduction to College Mathematics for Business and the Social Sciences	\$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	\$3	Computer Science	11
22	Lec	Calculus for Business	\$6		
46	Lec	Ordinary Differential Equations	\$6		
MICROBIOLOGY					
121L	Lab	Microbiology Laboratory	\$100	Biology	121L
125	Lab	Experimental Microbiology	\$50		
PHYSICS					
002A	Lec	General Physics	\$5		

002HA	Lec	Honors General Physics	\$5		
002B	Lec	General Physics	\$5		
002HB	Lec	Honors General Physics	\$5		
002C	Lec	General Physics	\$5		
002HC	Lec	Honors General Physics	\$5		
2LA	Lab	General Physics Laboratory	\$25		
02HLA	Lab	Honors General Physics Laboratory	\$25		
2LB	Lab	General Physics Laboratory	\$25		
02HLB	Lab	Honors General Physics Laboratory	\$25		
2LC	Lab	General Physics Laboratory	\$25		
02HLC	Lab	Honors General Physics Laboratory	\$25		
8	Lec	Color and Sound: Dimensions in Communication	\$5		
10	Lec	How Things Work	\$5		
16	Lec	Principles of Physics	\$5		
40A	Lab	General Physics	\$25		
040HA	Lab	Honors General Physics	\$25		
40B	Lab	General Physics	\$25		
040HB	Lab	Honors General Physics	\$25		
40C	Lab	General Physics	\$25		
040HC	Lab	Honors 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		
142W	Wrk	Advanced Physics Laboratory	\$150		

COLLEGE OF HUMANITIES, ARTS AND SOCIAL SCIENCES (CHASS)

COURSE #	TYPE	COURSE TITLE	APPROVED FEE	CROSS-LISTED DEPT.	Cross-Listed Course #
ART					
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	\$60	Media & Cultural Studies	4
5	Lec	Beginning Sculpture and 3-D Design	\$85		
9	Lec	Introductory Web-Based Art: Site Creation and Navigation	\$50		
10	Stu	Intro to Video	\$60		
32	Lec	Sophomore Workshop	\$80		
65	Lec	Intro To Vector Image Making & Printing	\$65		
66	Lec	Introduction to 3-D Digital Modeling	\$40	Computer Science	66
67	Lec	Three-Dimensional Digital Modeling and Animation	\$65		67

70 E-Z	Lec	Digital Imaging Software for the Visual Arts	\$50		
71 E-Z	Lec	Photographic Materials & Processes	\$50		
75 E-Z	Wrk	Sculpture Materials & Processes	\$65		
102	Lec	Intermediate Drawing	\$20		
103	Lec	Advanced Drawing	\$20		
104	Lec	Life Drawing	\$45		
110	Lec	Intermediate Painting	\$40		
111	Lec	Advanced Painting	\$40		
112 E-Z	Wrk	Painting Materials and Processes	\$50		
115	Lec	Intermediate Sculpture	\$80		
125	Lec	Sculpture Hybrid	\$75		
131	Lec	Intermediate Photography & Digital Technology	\$75	Media & Cultural Studies	131
132	Lec	Junior Workshop	\$80		
133	Lec	Senior Art Workshop	\$80		
134	Lec	Mixed Media	\$65		
136	Lec	Installation & Site-Specific Art	\$65	Media & Cultural Studies	136
137	Lec	Advanced Sculpture	\$80		
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	\$50	Media & Cultural Studies	150
155	Lec	Advanced Moving Images	\$50	Media & Cultural Studies	155
162	Stu	New Genres of Art Practice	\$50		
165	Lec	Intermediate Vector Image Making & Printing	\$65		
167	Lec	Web Authoring	\$35		
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	\$10	Media & Cultural Studies	137
137	Lec	History of Experimental Film	\$20	Media & Cultural Studies	138
GENDER AND SEXUALITY STUDIES					
148	Lec	INTRSCTNLTY, ECLGY, DSIGN SCI	\$917		
HIGHLANDER EARLY START ACADEMY					
1	Sem	Early Start Seminar	\$203		
MEDIA AND CULTURAL STUDIES					
4	Lec	Introduction to Moving Images	\$60	Art	4
131	Lec	Intermediate Photography & Digital Technology	\$75	Art	131
136	Lec	Installation & Site-Specific Art	\$65	Art	136

137	Lec	History of Video Art	\$10	Art History	136
138	Lec	History of Experimental Film	\$20	Art History	137
150	Lec	Intermediate Moving Images	\$50	Art	150
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	\$40	Cell Biology and Neuroscience	120L
124	Lec	Systems Neuroscience	\$9	Cell Biology and Neuroscience	124
THEATRE, FILM, AND DIGITAL PRODUCTION					
44	Dis	Make-Up, Theatre, Film TV	\$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		

COURSE #	TYPE	COURSE TITLE	APPROVED FEE	CROSS-LISTED DEPT.	Cross-Listed Course #
BIOENGINEERING					
10	Lec	Overview of Bioengineering	\$50		
130L	Lab	Bioinstrumentation Lab	\$50		
155	Lab	Biotechnology Lab	\$150		
175A, 175B, 175C	Lec	Senior Design	\$100		
CHEMICAL AND ENVIRONMENTAL ENGINEERING					
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	\$50	Environmental Engineering	160A
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		
11	Lec	Introduction to Discrete Structures	\$3	Mathematics	11
12	Lab	Introduction to Computer Science for Science, Mathematics, and Engineering II	\$30		
13	Lab	Introduction to Computer Science for Engineering Majors	\$30		
009M	Lab	Introduction to Programming	\$30		
120A	Lab	Logic Design	\$30	Electrical Engineering	120A
120B	Lab	Introduction to Embedded Systems	\$30	Electrical Engineering	120B
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		
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	\$30	Electrical Engineering	168
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					
011A	Lab	Engineering Circuit Analysis I Laboratory	\$30		
001B	Lab	Engineering Circuit Analysis II	\$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		
120A	Lab	Logic Design	\$30	Computer Sciences	120A
120B	Lab	Introduction to Embedded Systems	\$30	Computer Sciences	120B
123	Lab	Power Electronics	\$30		
128	Lab	Data Acquisition, Instrumentation, and Process Control	\$30		
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		
144	Lab	Introduction to Robotics	\$30	Mechanical Engineering	144
146	Lab	Computer Vision	\$30		
151	Lab	Introduction to Digital Control	\$30		
152	Lab	Image Processing	\$30		
153	Lab	Electric Drives	\$30		
165	Lab	Design for Reliability of Integrated Circuits and Systems	\$30		
168	Lab	Introduction to Very Large Scale Integration (VLSI) Design	\$30	Computer Science	168
204	Lab	Advanced Electromagnetics	\$30		
206	Lab	Nanoscale Characterization Techniques	\$30	Materials Science and Engineering	227A
229	Lab	Video Processing & Communication	\$30		
272	Lab	Introduction to Imaging Bioinstrumentation	\$30	Genetics	272
273	Lab	Live Imaging & Analysis of Cellular and Molecular Behaviors	\$30	Genetics	273
274	Lab	Introduction to Medical Imaging & Analysis	\$30	Genetics	274
275	Lab	Project in Video Bioinformatics	\$30		
ENGINEERING (ENGR)					
180W	Lec	Technical Communications	\$30		
ENVIRONMENTAL ENGINEERING					
160A	Lab	Chem/Env Engineering Lab	\$50	Chemical Engineering	160A

160B	Lab	Environmental Engineering Lab	\$50		
160C	Lab	Environmental Engineering Lab	\$50		
175A	Lab	Senior Design Project	\$50		
MATERIAL SCIENCE AND ENGINEERING					
160	Lab	Nanostructure Characterization	\$133		
161	Lab	Nanostructure Characterization	\$133		
227A	Lab	Nanoscale Characterization Techniques	\$30	Electrical Engineering	206
MECHANICAL ENGINEERING					
131	Lab	Design of Mechanisms	\$30		
133	Lab	Introduction to Mechatronics	\$30		
144	Lab	Introduction to Robotics	\$30	Electrical Engineering	144
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		

SCHOOL OF BUSINESS

COURSE #	TYPE	COURSE TITLE	APPROVED FEE	CROSS-LISTED DEPT.	Cross-Listed Course #
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MANAGEMENT

404	Lec	Com, Leadership, Teams, and Ethics	\$181		
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GRADUATE SCHOOL OF EDUCATION (GSOE)

COURSE #	TYPE	COURSE TITLE	APPROVED FEE	CROSS-LISTED DEPT.	Cross-Listed Course #
EDUCATION					
265A	Sem	Practicum in School Psychology: Introductory	\$20		
265B	Sem	Practicum in School Psychology: Basic	\$20		
265C	Sem	Practicum in School Psychology: Advanced	\$20		
265D	Sem	Practicum in School Psychology: Clinical	\$20		
265E	Sem	Practicum in School Psychology: Supervision	\$20		
265F	Sem	Practicum: Mental Health Intervention	\$20		
268A	Sem	Practicum: Mental Health Intervention	\$20		
268B	Prc	Practicum: Mental Health Intervention	\$20		
268C	Prc	Practicum: Mental Health Intervention	\$20		
331	Sem	Early Supervsd Fieldwrk &Sem:ES	\$75		
332	Sem	Early Supervsd Fieldwrk &Sem:MS	\$75		
333	Sem	Early Supervsd Fieldwrk &Sem:SS	\$75		
335A	Sem	Supervsd Teaching: Special Ed	\$228		
337A		Fld Teaching Performance Assessment	\$300		
344A	Sem	Mult Subj Credential Sem	\$228		
348A	Sem	Sing Subj Credential Sem	\$228		
377A	Fld	Teaching Perf Assess Sing Subj	\$300		