

**COURSE FEES**

**2015-16**

**Changes in Bold**

Division/Department/ Class

Fees

**ARTS DIVISION**

Art Department

ART 10D - 2D Foundation	\$28
ART 10E - 3D Foundation	\$25
ART 20G - Introduction to Printmaking and Drawing	\$60
ART 20H - Introduction to Sculpture and Public Art	\$60
ART 20I - Introduction to Photography	\$80
ART 20J - Introduction to Drawing and Painting	\$56
<b>ART 20K - Intro to Digital Media</b>	<b>\$55</b>
ART 80D - Intro to Photography - Beginners/Non-Majors	\$25
<b>ART 102 - Physical Computing and Interactvitiy</b>	<b>\$90</b>
<b>ART 103 - Physical Computing, Installation and Sculpture</b>	<b>\$90</b>
ART 107 - Intro to 3D Graphics and Modeling	\$45
ART 108 - Social Practice in New Media	\$50
ART 110 - Intermediate/Advanced Drawing	\$40
<b>ART 111 - Figure Drawing</b>	<b>\$50</b>
ART 112 - Mixed Media Work on Paper	\$30
ART 118 - Computer Art Theories, Methods, Practices	\$35
ART 119 - Special Topics in Drawing	\$50
ART 120 - Intro to Intermedia	\$32
ART 121 - Intermedia II	\$32
ART 122 - Intermedia: Conceptual & Process Oriented Approaches	\$32
ART 124 - Material Metaphr: Creating Meaning in Form	\$20
ART 125 - Environmental Art Studio	\$55
ART 127- Architectural Design	\$40
ART 128 - Picturing Identity: Document & Culture	\$65
ART 129 - Special Topics in Intermedia	\$32
ART 130 - Intermediate/Advanced Painting	\$50
ART 132 - Figure Painting	\$50
ART 133 - Abstract Painting	\$50
ART 138 - Factice and Meaning	\$50
ART 139 - Special Topics in Painting	\$50
ART 150 - Black & White Photography	\$65
ART 151 - Digital Photography	\$75
<b>ART 156 - Project Development in Photography</b>	<b>\$75</b>
ART 157 - Advanced Digital Photography	\$75
ART 158 - Advanced Photography	\$75
ART 159 - Special Topics in Photography	\$75
ART 160B - Monoprinting/Mixed Media/Print Media	\$65

University of California Santa Cruz

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**2015-16**

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ART 161B - Relief and Mixed Media Printing	\$65
ART 162A - Relief & Intaglio Printmaking I	\$70
ART 162B - Relief & Intaglio Printmaking II	\$70
ART 163A - Lithography I	\$60
ART 163B - Lithography II	\$70
ART 164A - Screenprinting	\$65
ART 165 - Print Media in Visual Communication	\$70
ART 166 - Art of Bookmaking	\$55
ART 168 - Project Development in Photography	\$70
ART 169 - Special Topics in Printmaking	\$70
ART 172 - Topics in Public Art: Memory, Landscape and Artist	\$50
ART 175 Taking It to the Street: Performance and Politics/Politics of Performance	\$40
ART 180B - Sculpture II	\$75
ART 183 - Metal Sculpture	\$95
<b>ART 188 - Intermediate/Advanced Sculpture Foundry</b>	<b>\$175</b>
ART 189 - Special Topics in Sculpture	\$65
ART 190B - Senior Project	\$54
ART 194 - Forms & Ideas	\$15
ART 199 - Tutorial Independent Study	\$50
 <u>Music Department</u>	
MUSIC 1A - Women's Chorale	\$10
MUSIC 1C - University Concert Choir	\$10
MUSIC 2 - University Orchestra	\$10
MUSIC 3 - Large Jazz Ensemble	\$10
MUSIC 9 - Wind Ensemble	\$10
MUSIC 60 - Fundamental Keyboard Skills (group lessons)	\$150
MUSIC 61 - Indiv. Lessons Major/Minor 1/2 Hr.	\$350
MUSIC 61 - Indiv. Lessons Non Major/Minor 1/2 Hr.	\$350
MUSIC 62 - Indiv. Lessons Major/Minor 1 Hr.	\$650
MUSIC 62 - Indiv. Lessons Non-Major/Minor 1 Hr.	\$650
MUSIC 63 - Group Lessons - Major/Minor 1 Hr.	\$100
MUSIC 63 - Group Lessons - Non-Major/Minor 1 Hr.	\$100
MUSIC 102 - University Orchestra	\$10
MUSIC 103 - Concert Choir	\$10
MUSIC 159A - Opera Workshop	\$10
MUSIC 159B - Opera Workshop	\$10
MUSIC 160 - University Opera Theater	\$10
MUSIC 161 - Indiv. Lessons Major/Minor 1 Hr.	\$650
MUSIC 161 - Indiv. Lessons Non-Major/Minor 1 Hr.	\$650

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**2015-16**

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MUSIC 162 - Advanced Individ. Lessons Major/Minor 1 Hr.	\$650
MUSIC 162 - Advanced Individ. Lessons Non Major/Minor 1 Hr.	\$650
MUSIC 166 - Chamber Singers	\$10
MUSIC 196B - Senior Recital Preparation Individual Lessons	\$650
MUSIC 261 - Graduate Applied Instruction Major 1 hr.	\$650
<u>Film and Digital Media</u>	
FILM 20A The Film Experience	\$2
FILM 20B Intro to TV Culture and Society	\$2
FILM 20C Introduction to Digital Media	\$2
FILM 20P Intro to Production Technique & Theory	\$15
FILM 80A Technothrillers	\$1
FILM 120 Intro to Film Theory and Criticism	\$2
FILM 130 Silent Cinema	\$4
FILM 132A International Cinema to 1960	\$4
FILM 132B International Cinema, 1960 to Present	\$4
FILM 132C Gender and Global Cinema	\$5
FILM 134A American Film 1930-1960	\$4
FILM 134B American Film 1960 to Present	\$4
FILM 136A Experimental Film and Video	\$12
FILM 136B History of Television	\$5
FILM 136C Visual Culture and Technology	\$8
FILM 136D Documentary Film and Video	\$10
FILM 142 Beyond Cybernetics - Advanced Topics in New Media Technologies	\$15
FILM 160 Film Genres	\$8
FILM 162 Film Authors	\$8
FILM 165A Film Video and Gender	\$15
FILM 165B Race on Screen	\$15
FILM 165C Lesbian, Gay, Queer Film and Video	\$15
FILM 165D Asian Americans and Media	\$15
FILM 165E Chicana/o Cinema and Culture	\$12
FILM 168 National Cinema and Culture	\$15
FILM 170A Introduction to Digital Media Production	\$35
FILM 170B Fundamentals of Film/Video Production	\$190
FILM 171A Special Topics Sound	\$161
FILM 171F Special Topics Workshop: Autobiographical Film	\$210
FILM 172 Film/Video Studio	\$292
FILM 173 Narrative Workshop	\$210
FILM 175 Documentary Video Workshop	\$210
FILM 176 Experimental Video Workshop	\$210

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**2015-16**

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FILM 177 Digital Media Workshop	\$40
FILM 178A Personal Computers in Film & Video	\$147
FILM 185D - Sound Image in Theory & Criticism	\$12
FILM 185E - Chicana/o Cinema Video	\$12
FILM 185R - The Film Remake	\$12
FILM 185S - Advanced Topics in Film Making	\$12
FILM 185X - Eye Candy Seminar	\$12
FILM 187 Special Topics in Television Studies	\$8
FILM 189 Special Topics in Digital/Electronic Media Studies	\$5
FILM 194A Film Theory Seminar	\$15
FILM 194B Electronic Theory Media Seminar	\$15
FILM 194C New Media Theory Seminar	\$15
FILM 194D Film History Seminar	\$12
FILM 194E International Cinemas	\$15
FILM 194F Film and Other Arts: Music/Dance	\$15
FILM 194G New (s) Media	\$15
FILM 194S Special Topics Seminar	\$12
FILM 196A Sr. Project in Film/Video Production	\$292
FILM 196C Senior Documentary Workshop	\$292
FILM 197 Sr. Digital Media Workshop	\$20
FILM 200C Theory and Praxis of Film & Dig Media, Part 2	\$292
FILM 283 New Media Arts and Digital Culture	\$20
<u>Digital Arts and New Media</u>	
DANM 133 - Intro to Computing and Physical Computing for the Arts	\$82
DANM 135 - Kinematics: Motion and Machine Art	\$50
DANM 138 - Procession: Where Sculpture Meets Costume Meets Performance	\$50
DANM 140 - 3D Alchemy: 3D Design/Rapid Prototyping/3DPrinting/CNC Milling/Laser Cutting	\$50
DANM 141 - Intro to Soft Interaction: Fiber Arts and Reactive Technologies	\$78
DANM 219 - Introduction to Electronics for Art-Making	\$118
<u>Theater Arts</u>	
THEA 12 Production Management	\$10
THEA 14 Drawing	\$28
THEA 17 Costume Construction	\$25
THEA 18 Drafting for Theatrical Production	\$20
THEA 18C Computer Aided Drawing for Theatrical Production	\$20
THEA 19 Design Studio: Lighting Studio A	\$30
THEA 30 Introduction to Modern Dance Theory & Technique	\$30
THEA 31C Dance Studio I	\$21

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**2015-16**

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THEA 32 Introduction to Ballet	\$30
THEA 33 Adv. Intro to Modern Dance	\$30
THEA 36 Intro to Dance Composition	\$30
THEA 37 African Dance	\$50
THEA 107 Design Studio: Masks and Makeup	\$25
THEA 110 Advanced Stage Technology	\$20
THEA 114 Design Studio: Sound	\$20
THEA 115A Design Studio: Scenic Design	\$18
THEA 117 Design Studio: Costume	\$25
THEA 118 Design Studio: Scene Painting	\$25
THEA 119 Design Studio: Lighting Studio B	\$30
THEA 129 Advanced Ballet	\$21
THEA 130 Intermed. Mod Dance Theory & Technique	\$30
THEA 131 Adv. Modern Dance Theory & Technique	\$30
THEA 131C Dance Studio II	\$30
THEA 132 Modern Dance Studio	\$30
THEA 135 Dance Improvisation & Theory	\$30
THEA 136 Intermediate Ballet	\$30
THEA 136C Dance Studio III	\$21
THEA 137 Studies in Performance (Dance)	\$30
THEA 138 Movement Research in New Arts Praxis	\$21
THEA 139 Random with Purpose	\$30
THEA 158 Chautauqua	\$5

**DIVISION OF HUMANITIES**

History

History 7 - Archives and Public History	\$20
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**DIVISION OF PHYSICAL AND BIOLOGICAL SCIENCES**

Biology: Ecology and Evolutionary Biology

BIOE 075 - Scientific Diving Certification	\$375
<b>BIOE 082 - Field Research and Conservation</b>	<b>\$125</b>
BIOE 085 - Natural History of the UCSC Natural Reserve	\$65
BIOE 112L - Ornithology Field Studies	\$60
BIOE 114L - Field Methods in Herpetological Research	\$175
BIOE 117L - Systematic Botany of Flowering Plants Lab	\$30
<b>BIOE 120L - Marine Botany Lab</b>	<b>\$40</b>
<b>BIOE 122L - Invertebrate Zoology Lab</b>	<b>\$25</b>
<b>BIOE 124L - Mammalogy Lab</b>	<b>\$95</b>
BIOE 127L - Ichthyology Lab	\$15

**COURSE FEES**

**2015-16**

**Changes in Bold**

Division/Department/ Class

Fees

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BIOE 128L - Long Marine Vertebrates Field Course	\$162
BIOE 129L - Biology of Marine Mammals Lab	\$70
<b>BIOE 131L - Animal Physiology Lab</b>	<b>\$10</b>
<b>BIOE 133L - Exercise Physiology Lab</b>	<b>\$10</b>
BIOE 134L - Comparative Vertebrate Anatomy Laboratory	\$70
<b>BIOE 135L - Plant Physiology Lab</b>	<b>\$15</b>
<b>BIOE 137L - Molecular Ecology Lab</b>	<b>\$140</b>
BIOE 141L - Behavioral Ecology Field Course	\$70
BIOE 145L - Field Methods in Plant Ecology	\$45
BIOE 150L - Ecological Field Methods Lab	\$120
BIOE 151B - Ecology and Conservation in Practice Supercourse	\$1,497
BIOE 155L - Freshwater Ecology Laboratory	\$133
BIOE 158L - Marine Ecology Lab	\$40
BIOE 159 - Marine Ecology Field Quarter	\$3,000
<b>BIOE 161L - Kelp Forest Ecology Lab</b>	<b>\$240</b>
BIOE 170L - Molecular Ecology and Evolution Lab	\$10

Biology: Molecular, Cell, and Developmental Biology

BIOL 20L - Experimental Biology Lab	\$25
BIOL 21L - Phage Genomics Lab	\$100
BIOL 100L - Advanced Biochemistry Lab	\$30
BIOL 101L - Biochemistry Lab	\$31
BIOL 105L - Eukaryotic Genetics Lab	\$60
BIOL 105M - Microbial Genetics Lab	\$35
<b>BIOL 109L - Yeast Molecular Genetics Lab</b>	<b>\$55</b>
BIOL 110L - Cell Biology Lab	\$60
BIOL 111L - Immunology Lab	\$75
BIOL 115L - Eukaryotic Molecular Biology Lab	\$65
BIOL 120L - Development Lab	\$60
BIOL 121L - Environmental Phage Biology Lab	\$100
BIOL 128L - Neural Genetics Lab	\$40
BIOL 130L - Human Physiology Lab	\$10
BIOL 187L - Molecular Biotechnology Lab	\$60

Chemistry

CHEM 1M - General Chemistry - Lab	\$18
<b>CHEM 1N - General Chemistry - Lab</b>	<b>\$18</b>
CHEM 108L - Organic Chemistry Lab	\$55
CHEM 108M - Organic Chemistry Lab	\$55
BIOC 110L - Intermediate Organic Chemistry Lab	\$200

**COURSE FEES**

**2015-16**

**Changes in Bold**

Division/Department/ Class	Fees
CHEM 110L - Organic Chemistry Lab	\$88
CHEM 122 - Principles of Instrumental Analysis	\$140
CHEM 146A - Adv. Lab. in Organic Chemistry	\$75
CHEM 146B - Adv. Lab. in Inorganic Chemistry	\$200
CHEM 146C - Adv. Lab in Physical Chemistry	\$75
CHEM 151L - Inorganic Chemistry Lab	\$85
CHEM 164 - Physical Chemistry Laboratory	\$35
<u>Earth &amp; Planetary Sciences</u>	
EART 5L - California Geology - Lab	\$15
EART 10L - Geologic Principles - Lab	\$20
EART 11 - Earthquakes	\$20
EART 20L - Environmental Geology - Lab	\$20
EART 100 - Vertebrate Paleontology	\$10
EART 101 - Invertebrate Paleobiology	\$40
EART 104 - Geologic Hazards	\$10
EART 105 - Coastal Geology	\$10
EART 109 - Elements of Field Geology	\$130
EART 110C - The Dynamic Earth	\$10
EART 116 - Hydrology	\$10
EART 117 - Paleomagnetism	\$25
EART 120 - Sedimentology and Stratigraphy	\$40
EART 140L - Geomorphology Lab	\$40
EART 142 - Engineering Geology for Environmental Scientists	\$60
EART 146 - Groundwater	\$5
EART 148 - Glaciology	\$85
EART 150 - Structural Geology	\$65
EART 152 - Tectonics	\$10
EART 188 A - Summer Field Internship	\$1,200
Non-USCS Students	\$1,300
EART 188 B - Geographic Information System with Application to Earth Science	\$1,200
Non-USCS Students	\$1,300
EART 205 - Introductory Graduate Seminar	\$30
EART 207 - Tectonics	\$15
EART 263L - Planetary Field Course	\$20
<u>Microbiology and Environmental Toxicology</u>	
<b>METX 119L - Microbiology Lab</b>	<b>\$56</b>
METX 135L - Human Functional Anatomy Lab	\$45
<u>Physics</u>	

**COURSE FEES**

**2015-16**

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Division/Department/ Class	Fees
PHYSICS 160 - Practical Electronics	\$40
<b><u>SOCIAL SCIENCES DIVISION</u></b>	
<u>Anthropology</u>	
ANTH 110 - Comparative Anatomy Lab	\$45
ANTH 180 - Ceramic Analysis Lab	\$25
ANTH 191 - Archaeological Field Research	\$1,810
ANTH 291 - Archaeological Field Research	\$1,810
<u>Environmental Science</u>	
ENVS 106A - Natural History of Birds	\$40
<b>ENVS 107A - Natural History Field Quarter</b>	<b>\$800</b>
ENVS 109B - Ecology and Conservation in Practice Supercourse	\$1,497
ENVS 115L - Geographic Information Systems	\$20
<b>ENVS 130L - Intro to Agroecology Lab</b>	<b>\$11</b>
ENVS 133 - Agroecology Practicum	\$55
ENVS 161L - Soils and Plant Nutrition Lab	\$15
ENVS 167L - Freshwater and Wetland Ecology Lab	\$40
ENVS 215L - Geographic Information Systems	\$20
<u>Education</u>	
EDUC 221 - Science Teaching and Learning in Elementary Classrooms	\$10
EDUC 231 - Teaching Science in Secondary Classrooms	\$10
<b><u>OFFICE OF PHYSICAL EDUCATION RECREATION</u></b>	
<u>Experiential Leadership Program</u>	
<b>ELP Tools for Leadership</b>	<b>\$28</b>
<b>ELP Leadership From the Inside Out</b>	<b>\$28</b>
<b>ELP Outdoor Leadership</b>	<b>\$28</b>
<b>ELP Leading with Cultural Intelligence</b>	<b>\$28</b>
<b>ELP High Ropes Adventure</b>	<b>\$43</b>
<b>ELP Backpack Big Sur</b>	<b>\$128</b>
<b>ELP Backpack Spring Break</b>	<b>\$598</b>
<b>ELP Certificate Exit Course</b>	<b>\$13</b>
<u>Physical Education</u>	
PHYE 5A - Aquatics: Swimming Level 1	\$20
PHYE 5B - Aquatics: Swimming Level 2	\$20
PHYE 5C - Aquatics: Swimming Level 3	\$20
PHYE 5D - Aquatics: Swimming Level 4	\$20



**COURSE FEES**

**2015-16**

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PHYE 5E - Aquatics: Lifeguard Training	\$90
PHYE 5F - Aquatics: Water Safety Instructor	\$55
PHYE 5G - Aquatics: Swimming/Conditioning	\$20
PHYE 5H - Aquatics: Competitive Swimming	\$20
<b>PHYE 5R - Aquatics: Basic Scuba Diving</b>	<b>\$250</b>
<b>PHYE 5S - Aquatics: Advanced Scuba Diving</b>	<b>\$200</b>
<b>PHYE 5T - Aquatics - Rescue Scuba</b>	<b>\$220</b>
<b>PHYE 5U Aquatics: Dive Master</b>	<b>\$315</b>
PHYE 9B - Boating: Basic Sailing	\$55
PHYE 9C - Boating: Intermediate Sail-Dinghy	\$55
PHYE 9D - Boating: Advanced Sail-Dinghy	\$55
PHYE 9H - Boating: Intermediate Rowing	\$50
PHYE 9J - Boating: Basic and Intermediate Rowing	\$50
PHYE 9K - Boating: Ocean Kayaking	\$50
PHYE 9S - Boating: Intermediate Sail-Keelboat	\$60
PHYE 9T - Boating: Advanced Sail-Keelboat	\$60
PHYE 15B - Court Sports: Basketball	\$20
PHYE 15H - Court Sports: Racquetball	\$20
PHYE 15N - Court Sports: Tennis	\$20
PHYE 15T - Court Sport: Volleyball	\$20
PHYE 20A - Dance: Ballet	\$22
PHYE 20B - Dance: Folk Dance International	\$20
PHYE 20C - Dance: Jazz	\$20
PHYE 20D - Dance: Modern	\$22
PHYE 25A - Fencing: Epee	\$20
PHYE 25B - Fencing: Foil	\$20
PHYE 25C - Fencing: Sabre	\$20
PHYE 28K - Field Sports: Soccer	\$20
PHYE 30G - Fitness Activities: Physical Conditioning	\$20
PHYE 30H - Fitness Activities: Tai Chi Ch'uan	\$20
PHYE 30J - Fitness Activities: Weight Training	\$20
PHYE 30L - Fitness Activities: Yoga Exercises	\$20
PHYE 43A - Martial Arts: Aikido	\$20
PHYE 43G - Martial Arts: Tae Kwon Do (Karate)	\$20

**SCHOOL OF ENGINEERING**

Engineering

ENGR 50L - Engineering Mechanics Lab	\$23
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Computer Engineering

**COURSE FEES**

**2015-16**

**Changes in Bold**

Division/Department/ Class	Fees
<b>CMPE 100L - Logic Design Lab</b>	<b>\$26</b>
CMPE 117L - Embedded Software Lab	\$30
CMPE 118L - Intro to Mechatronics Lab	\$208
<b>CMPE 121L - Microprocessor System Design Lab</b>	<b>\$221</b>
CMPE 123A - Engineering Design Project I	\$40
CMPE 123B - Engineering Design Project II	\$40
CMPE 125L - Logic Design with Verilog Lab	\$20
CMPE 126L - Advanced Logic Design Lab	\$25
CMPE 129B - Capstone Project II	\$40
CMPE 129C - Capstone Project III	\$40
CMPE 150L - Introduction to Computer Networks lab	\$10
CMPE 151L - Computer Network Administration Lab	\$10
CMPE 156L - Network Programming Lab	\$10
CMPE 163L - Multimedia Processing/Applications Lab	\$25
<b>CMPE 167L - Sensing &amp; Sensor Technologies Lab</b>	<b>\$67</b>
CMPE 218L - Mechatronics Lab	\$208
CMPE 225 - Intro to ASIC Systems Design	\$15
<u>Computer Science</u>	
CMPS 123A - Software Design Project I	\$20
CMPS 123B - Software Design Project II	\$20
CMPS 170 - Game Design Studio 1	\$25
CMPS 171 - Game Design Studio 2	\$65
CMPS 172 - Game Design Studio 3	\$25
<u>Electrical Engineering</u>	
<b>EE 101L - Intro to Electronics Lab</b>	<b>\$50</b>
EE 103L - Signals and Systems Lab	\$10
EE 115 - Introduction to MEMS Design	\$15
EE 123A - Electrical Engineering Senior Project I	\$40
EE 123B - Electrical Engineering Senior Project II	\$40
EE 129B - Capstone Project II	\$40
EE 129C - Capstone Project III	\$40
EE130L - Intro. to Optoelectronics Lab	\$10
EE 135L - Electromagnetic Fields & Waves Lab	\$35
EE 145L - Properties of Materials Lab	\$17
EE 157L - RF Hardware Design Lab	\$90
EE 171L - Analog Electronics Lab	\$42
EE 173L - High Speed Digital Design Lab	\$25
EE 174 - Introduction to EDA Tools	\$15

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**2015-16**

**Changes in Bold**

Division/Department/ Class	Fees
EE 175L - Energy Conservation & Control Lab	\$25
EE 176L - Energy Conservation & Control Lab	\$25
EE 177L - Power Electronics Lab	\$25
EE 215 - MEMS Design	\$15
 <u>Biomolecular Engineering</u>	
BME 101L - Applied Circuits for Bioengineers Lab	\$130
BME 123A - BME Senior Design Project 1	\$40
BME 123B - BME Senior Design Project 2	\$40
BME 128L- Proteing Engineering Lab	\$155
BME 140L - Bioinstrumentation Lab	\$40
 <b><u>COWELL COLLEGE</u></b>	
COWELL 70A - Bookbinding	\$60
COWELL 70B - Printing I: Elements of Printing	\$60
COWELL 70C - Printing II: Typography and Book Design	\$60
 <b><u>CROWN COLLEGE</u></b>	
CROWN 185 - Career and Internship Preparation	\$26