

University of California Santa Cruz

COURSE FEES

2013-14

Changes in Bold

Course
Fees

Division/Department/Class

ARTS DIVISION

Art Department

ART 10A - Foundation I: Create/Interact	\$25
ART 10B - Foundation II: Think/Invent	\$25
ART 20A - Concepts and Practice Drawing	\$30
ART 20B - Concepts and Practice in Digital/New Media	\$45
ART 20C - Concepts and Practice in Photography	\$50
ART 20D - Concepts and Practice Drawing in Sculpture/Public Art	\$68
ART 20E - Concepts and Practice in Painting	\$50
ART 20F - Concepts and Practice in Print	\$50
ART 80A - Introduction to Drawing - Non-Majors	\$10
ART 80D - Intro to Photography - Beginners/Non-Majors	\$25
ART 102 - Physical Computing and Interactivity	\$85
ART 103 - Physical Computing, Installation and Sculpture	\$85
ART 107 - Intro to 3D Graphics and Modeling	\$45
ART 110 - Intermediate/Advanced Drawing	\$35
ART 111 - Figure Drawing	\$40
ART 112 - Mixed Media on Paper	\$25
ART 118 - Drawing for Computer Gaming	\$35
ART 119 - Special Topics in Drawing	\$60
ART 120 - Intro to Multimedia	\$32
ART 121 - Intermedia II	\$32
ART 122 - Intermedia: Conceptual & Process Oriented Approaches	\$65
ART 124 - Material Metaphor II	\$20
ART 128 - Picturing Identity: Document and Culture	\$65
ART 129 - Special Topics in Intermedia	\$32
ART 130 - Inter/Advanced Painting	\$48
ART 132 - Figure Painting	\$40
ART 133 - Abstract Painting	\$50
ART 139 - Special Topics in Painting	\$48
ART 150 - Black and White Photography	\$65
ART 151 - Intro to Digital Photography	\$75
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
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 Communications	\$70
ART 166 - Art of Bookmaking	\$55
ART 169 - Special Topics in Printmaking	\$70
ART 172 - Topics in Public Art: Memory, Landscape and Artist	\$50
ART 180B - Sculpture II	\$75
ART 183 - Metal Sculpture	\$95

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ART 188 - Intermediate/Advanced Sculpture Foundry	\$150
ART 189 - Special Topics in Sculpture	\$65
ART 190B - Senior Project	\$50
ART 194 - Forms and 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 - Group Lessons	\$150
MUSIC 61 - Individ. Lessons	\$350
MUSIC 62 - Individ. Lessons	\$650
MUSIC 63 - Group Lessons	\$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 - Individ. Lessons	\$650
MUSIC 162 - Advanced Individ. Lessons	\$650
MUSIC 166 - Chamber Singers	\$10
MUSIC 196B - Senior Recital Preparation Individual Lessons	\$650
MUSIC 261 - Graduate Applied Instruction	\$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

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FILM 165C - Lesbian, Gay, Queer Film and Video	\$15
FILM 165D - Asian Americans and Media	\$15
FILM 165E - Chicana/o Cinema Video	\$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
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 185 X - 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 & Digital Media, Part 2	\$292
FILM 283 - New Media Arts and Digital Culture	\$20

Digital Arts and New Media

DANM 133 - Introduction 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/3D Printing/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

Theater Arts

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

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THEA 31C Dance Studio I	\$21
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 116A History of Clothing/Costume	\$25
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	\$30
THEA 137 Studies in Performance (Dance)	\$21
THEA 138 Movement Research in New Arts Praxis	\$21
THEA 139 Random with Purpose	\$30
THEA 158 Chautauqua	\$5

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DIVISION OF PHYSICAL AND BIOLOGICAL SCIENCES

Biology: Ecology and Evolutionary Biology

BIOE 075 - Scientific Diving Certification	\$335
BIOE 085 - Natural History of the UCSC Natural Reserves	\$117
BIOE 112L - Ornithology Field Studies	\$60
BIOE 114L - Field Methods in Herpetological Research	\$175
BIOE 117L - Systematic Botany of Flowering Plants Lab	\$30
BIOE 120L - Marine Botany Lab	\$45
BIOE 122L - Invertebrate Zoology Lab	\$20
BIOE 127L - Ichthyology Lab	\$15
BIOE 128L - Large Marine Vertebrates Field Course	\$162
BIOE 129L - Biology of Marine Mammals Lab	\$50
BIOE 131L - Animal Physiology Lab	\$15
BIOE 133L - Exercise Physiology Lab	\$20
BIOE 135L - Plant Physiology Lab	\$20
BIOE 141L - Behavioral Ecology Field Course	\$70
BIOE 145L - Field Methods in Plant Ecology	\$45
BIOE 150L - Ecological Field Methods Lab	\$60
BIOE 151B - Ecology and Conservation in Practice Supercourse	\$1,497
BIOE 158L - Marine Ecology Lab	\$40
BIOE 159 - Marine Ecology Field Quarter - Tahiti	\$3,000
BIOE 161L - Kelp Forest Ecology Lab	\$175

Biology: Molecular, Cell, and Developmental Biology

BIOL 20L - Experimental Biology Lab	\$20
BIOL 21L - Phage Genomics Lab	\$100
BIOL 100K - Biochemistry Lab	\$35
BIOL 100L - Advanced Biochemistry Lab	\$25
BIOL 105L - Eukaryotic Genetics Lab	\$50
BIOL 105M - Microbial Genetics Lab	\$35
BIOL 109L - Yeast Molecular Genetics Lab	\$50
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 135L - Human Functional Anatomy Lab	\$45
BIOL 170L - Molecular Ecology and Evolution Lab	\$10
BIOL 187L - Molecular Biotechnology Lab	\$60

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Chemistry

CHEM 1M - General Chemistry - Lab	\$18
CHEM 1N - General Chemistry - Lab	\$20
CHEM 108L - Organic Chemistry Lab	\$55
CHEM 108M - Organic Chemistry Lab	\$55
BIOC 110L - Advanced Biochemistry Lab	\$200
CHEM 110L - Advanced Organic Chemistry Lab	\$88
CHEM 122 - Principles of Instrumental Analysis	\$70
CHEM 146A - Adv. Lab. in Organic Chemistry	\$75
CHEM 146B - Adv. Lab. in Inorganic Chemistry	\$100
CHEM 146C - Adv. Lab in Physical Chemistry	\$75
CHEM 151L - Inorganic Chemistry Lab	\$65
CHEM 164 - Physical Chemistry Laboratory	\$35

Earth Sciences

EART 5L - California Geology - Lab	\$15
EART 10L - Geologic Principles - Lab	\$25
EART 11 - Earthquakes	\$25
EART 20L - Environmental Geology - Lab	\$20
EART 100 - Vertebrate Paleontology	\$10
EART 101 - The Fossil Record	\$40
EART 104 - Geologic Hazards	\$10
EART 105 - Coastal Geology	\$10
EART 109 - Elements of Field Geology	\$120
EART 110C - The Dynamic Earth	\$10
EART 116 - Hydrology	\$10
EART 117 - Paleomagnetism	\$25
EART 120 - Sedimentology and Stratigraphy	\$40
EART 130 - Magmas & Volcanoes	\$10
EART 140L - Geomorphology Lab	\$40
EART 142 - Engineering Geology for Environmental Scientists	\$85
EART 146 - Groundwater	\$10
EART 148 - Glaciology	\$85
EART 150 - Structural Geology	\$65
EART 152 - Tectonics	\$15
EART 188 A & B - Summer Field Internship	
UCSC Students Both Sessions	\$2,200
UCSC Students - One Session	\$1,100
Non- UCSC Students Both Sessions	\$2,400
Non-UCSC Students - One Session	\$1,200
EART 205 - Introductory Graduate Seminar	\$30
EART 207 - Tectonics	\$15
EART 263L - Planetary Field Course	\$20

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<u>Microbiology and Environmental Toxicology</u> METX 119L - Microbiology Lab	\$50
<u>Physics</u> PHYSICS 160 - Practical Electronics	\$40
<u>SOCIAL SCIENCES DIVISION</u>	
<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 65 - Introduction to Fresh Water Processes and Policy - on-line (see Miscellaneous Fee List)	
ENVA 106A - Natural History of Birds	\$40
ENVS 107A - Natural History Field Quarter	\$700
ENVS 109B - Ecology and Conservation in Practice Supercourse	\$1,497
ENVS 115L - Geographic Information Systems	\$20
ENVS 130L - Intro to Agroecology Lab	\$6
ENVS 133 - Agroecology Practicum	\$40
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
 <u>History</u> History 7 - Archives and Public History	\$20
<u>OFFICE OF PHYSICAL EDUCATION RECREATION</u>	
<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
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
PHYE 5R - Aquatics: Basic Scuba Diving	\$85
- Basic Scuba Certification	\$65
PHYE 5T - Aquatics: Advanced Scuba Diving	\$105
- Advanced Scuba Certification	\$20
PHYE 5U - Aquatics - Rescue Scuba	\$100
- Rescue Scuba Certification	\$65
PHYE 5U-N Aquatics: Dive Master	\$165

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- Dive Master Certification	\$100
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
 <u>SCHOOL OF ENGINEERING</u>	
<u>Engineering</u>	
ENGR 50L - Engineering Mechanics Lab	\$23
 <u>Computer Engineering</u>	
CMPE 100L - Logic Design Lab	\$31
CMPE 117L - Embedded Software Lab	\$30
CMPE 118L - Intro to Mechatronics Lab	\$167
CMPE 121L - Microprocessor System Design Lab	\$205
CMPE 123A - Engineering Design Project I	\$40
CMPE 123B - Engineering Design Project II	\$40
CMPE 125L - Logic Design with Verilog Lab	\$25

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CMPE 126L - Advanced Logic Design Lab	\$25
CMPE 129B - Capstone Project II	\$40
CMPE 129BC - Capstone Project III	\$40
CMPE 150L - Introduction to Computer Networks	\$15
CMPE 151L - Computer Network Administration	\$20
CMPE 156L - Network Programming Lab	\$20
CMPE 163L - Multimedia Processing/Applications Lab	\$25
CMPE 167L - Sensing & Sensor Technologies Lab	\$147
CMPE 218L - Mechatronics Lab	\$167
CMPE 225 - Intro to ASIC Systems Design	\$15
<u>Computer Science</u>	
CMPS 123A - Software Design Project 1	\$20
CMPS 123B - Software Design Project 2	\$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>	
EE 101L - Intro to Electronics Lab	\$46
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	\$27
EE 157L - RF Hardware Design Lab	\$25
EE 171L - Analog Electronics Lab	\$38
EE 173L - High Speed Digital Design Lab	\$25
EE 174 - Introduction to EDA Tools	\$15
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 140 - Bioinstrumentation	\$40
<u>COWELL COLLEGE</u>	
<u>COWELL 70A - Bookbinding</u>	\$60
COWELL 70B - Printing I: Elements of Printing	\$60
COWELL 70C - Printing II: Typography and Book Design	\$60
<u>CROWN COLLEGE</u>	
<u>Crown College/Career Center</u>	
Crown 185 - Career and Internship Preparation	\$26