SUSTAINABILITY COURSE GUIDE 2018-2019

University Facilities Planning & Management

"Students are the future gatekeepers of our the planet."

Authored by
Kaila Moraga
Martha Rosario

TABLE OF CONTENTS

OVERVIEW OF THE SUSTAINABILITY DEPARTMENT

The Sustainability Department at Cal Poly Pomona strives to educate students, faculty, and staff by integrating the various aspects of sustainability into our University's planning and policies, academics, operations, student activities, and community engagement.

To accomplish this, the department strives to:

- Engage students, faculty, and staff in an ongoing dialogue, inquiry, and discovery of sustainable practices by way of curriculum, degree, programs, and scholarly research.
- Integrate sustainable practices into all aspects of university planning and operations, with a focus on both present and future implications.
- Design, build, and operate a campus environment that minimizes its ecological footprint, thus contributing to the goal of climate neutrality.
- Participate in research initiatives and outreach activities that educate our communities, nourish our natural ecosystems, and enrich our cultural experiences.
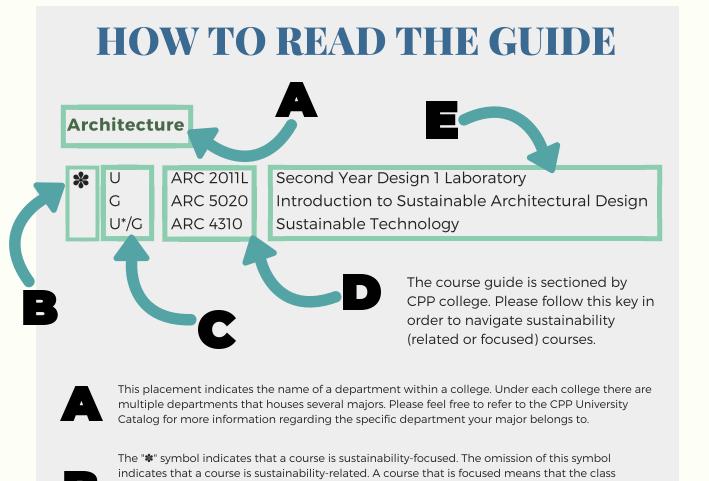
WHAT IS SUSTAINABILITY?

Sustainability is not a term limited to environmental components. It is a holistically broad perspective that encompasses the interconnectedness of society, economics, and political pursuits. Within the scope of Cal Poly Pomona (CPP), sustainability in itself has been a long-term goal that the university continues to cultivate. This course guide is a pivotal part of educating campus members about the multimodal presence of sustainability within the curriculum of all the colleges at CPP.

Sustainability is defined by the United Nations as "meeting the needs of the present without compromising the ability of future generations." The essential purpose of this guide is to highlight courses offered at Cal Poly Pomona that promote one or more of the concepts above, each course chosen and reviewed by Sustainability Student Assistants, the University Sustainability Coordinator, Department Professors, and Department Heads.

In the Sustainability Course Guide, classes are listed as either **"Sustainability-Focused" (✱)** or **"Sustainability-Related."**

Sustainability encompasses a wide range of topics including:

Biology

Community Outreach

Diversity

Environmental Justice

Ethics

Ethical Practices in Engineering

Ethical Practices in Science

Food

Globalization

Hunger and Homelessness

Medicine

Politics

Population

Poverty

Science and Technology

Social Mobility

Socio-economic Inequalities

Sustainable Cities

Transportation

Underprivileged Communities

and more.

HOW TO READ THE GUIDE

A

E

Architecture

✿	U	ARC 2011L	Second Year Design 1 Laboratory
	G	ARC 5020	Introduction to Sustainable Architectural Design
	U*/G	ARC 4310	Sustainable Technology

B

C

D

The course guide is sectioned by CPP college. Please follow this key in order to navigate sustainability (related or focused) courses.

A This placement indicates the name of a department within a college. Under each college there are multiple departments that houses several majors. Please feel free to refer to the CPP University Catalog for more information regarding the specific department your major belongs to.

B The "✿" symbol indicates that a course is sustainability-focused. The omission of this symbol indicates that a course is sustainability-related. A course that is focused means that the class directly discusses topics related to sustainability-centric social, economic, environmental or political factors. A course that is related does not directly address these topics; however, the course glosses over these factors in a way that affects the sustainability of human life.

C The "U," "G," "U*/G," " * ," or etc. symbol located in this area of the course guide refers to if a class is an undergraduate, graduate, or specialized course type that may involve, but are not limited to, the College of the Extended University, credential programs, or other educational specializations within CPP. More information about specific programs can be found on the CPP University Catalog.

D This area of the course guide specifies the abbreviation for the courses in each respective college/department.

E This area of the course guide distinguishes the entire name of a course. More details about the course itself can be located in the CPP University Catalog, which can be searched on the university website.

AGRICULTURE

LISA A. KESSLER, INTERIM DEAN
PETER KILDUFF, INTERIM ASSOCIATE DEAN

Animal Veterinary Science

U	AHS1104	Orientation and Careers in Animal Health Science
U	AHS2210	Veterinary Office Procedures, Terminology and Law
U	AHS2220	Clinical Nutrition
U	AHS2220L	Clinical Nutrition Laboratory
U	AHS2410	Clinical Internship I
U	AHS4450	Veterinary Economics & Hospital Management
U	AVS1000	Orientation to Animal & Veterinary Sciences
U	AVS1112	Food Animal Production
U	AVS1113	Companion, Laboratory & Exotic Animal Care
U	AVS1114L	Food Animal Production Laboratory
U	AVS1115L	Companion Animal Management Laboratory
U	AVS2010L	Fundamentals of Animal Nutrition Laboratory
U	AVS2101	Fundamentals of Animal Nutrition
U	AVS2211	Drugs and Society
U	AVS3311	Animal Industry and Society
U	AVS3327	Meat Science
U	AVS3327L	Meat Science Laboratory
U	AVS4473	Clinical Nutrition

Apparel Merchandising and Management

	U	AM1010	Introduction to the Fashion Industry
	U	AM1080	Culture, People, & Dress
	U	AM1200	American Demographics & Lifestyles
	U	AM1600	Introduction to Textile Science
	U	AM1600L	Introduction to Textile Science Laboratory
	U	AM2200	Introduction to Fashion Retailing
	U	AM2300	Integrated Fashion Communication
	U	AM2450	Consumerism: Its Impact & Issues
	U	AM2480	Focus on the Future: Leadership Skills for the 21st Century
✽	U	AM4680	Sustainable and Innovative Textiles
✽	U	AM4680L	Sustainable and Innovative Textiles Laboratory
	U	AM4960	International Fashion Retailing
	U	AM4970A	Fashion Retail Simulation Activity
	U	AMM1000	AMM First Year Experience

Apparel Merchandising and Management (continued)

U	AMM3920	Fashion Operations Management
U	AMM4700	Fashion Store Planning & Category Management
U	AMM4710	Apparel Wholesale Operations

Agribusiness & Food Industry Management and Agricultural Science

U	AG1010	Agriculture & The Modern World
U	AG2010	Global Resources for Food
U	AG2480	Focus on the Future: Leadership Skills for the 21st Century
U	AG4010	Ethical Issues in Food, Agricultural & Apparel Industries
U	AG4640	Development of Leadership Skills In Agriculture
U	ABM2010	Agribusiness Organizations & Careers
U	ABM3100	Sales & Professional Development for Agribusiness
U	ABM3280	Agribusiness Enterprise Management
U	ABM3290	Equine Enterprise Management
U	ABM4020	Agribusiness Personnel Management
U	ABM4130	Agricultural Law and Compliance
U	ABM4410	Cooperative Education in Agribusiness I
U	ABM4420	Cooperative Education in Agribusiness II
U	ABM4500	Agricultural Water Resource Management
U	ABM4900	Agribusiness Senior Feasibility Study
U	AM3130	Food & Agriculture Policy
U	AGS1000	Orientation to Agricultural Science
U	AGS2500A	Development of Competitive Events Activity
U	AGS3000	Advocacy in Agricultural Science
U	AGS4200	Agriculture Skills & Facilities
U	AGS4200A	Agriculture Skills & Facilities Activity
U	AGS4300	Program Planning & Development
U	AGS4400	Procedures in Agricultural Education
U	AGS4400A	Procedures in Agricultural Education Activity
U	AGS4440	Early Field Experiences
U	AGS4500	Field Practices & Supervision
U	AGS4500A	Field Practices & Supervision Activity
U	AGS4700	Teaching Methods in Agriculture Systems Technology
U	AGS4700L	Teaching Methods in Agriculture Systems Technology Laboratory
U	AGS5050	Youth & Adult Leadership Programs
U	AGS5800	Ethical Applications in Agricultural Leadership

Nutrition and Food Science

U	FST1000	Orientation & Careers in Food Science & Technology
U	FST1250	Introduction to Food Science & Technology
U	FST3220	Food Laws & Regulations
U	FST3250	Food Safety & Current Issues
U	FST4240	Food Systems in Developing Nations I
U	FST4250	Food Systems in Developing Nations II

Nutrition and Food Science (continued)

U	NTR1000	Introduction to the Nutrition Professions
U	NTR1210	Introduction to Foods
U	NTR1210L	Introduction to Foods Laboratory
U	NTR2030	Health, Nutrition & the Integrated Being
U	NTR2050	Personal & Consumer Nutrition
U	NTR2280	Food & Culture
U	NTR2350L	Nutrition
U	NTR2350L	Nutrition Laboratory
U	NTR3050	Nutrition, Science & Health
U	NTR3280A	Nutrition Education & Hispanic Cultural Meal Patterns Activity
U	NTR3280L	Food & Culture Laboratory
U	NTR3450	Nutrition Education & Counseling
U	NTR3450A	Nutrition Education & Counseling Activity
U	NTR3450AS	Nutrition Education & Counseling Activity Service Learning
U	NTR3450S	Nutrition Education & Counseling Service Learning
U	NTR4260	Food Service Administration
U	NTR5600	Clinical Practice I
U	NTR5610	Clinical Practice II
U	NTR6850	Nutrition in Sports and Exercise

Plant Science

U	PLT1000	Orientation to Plant Science
U	PLT2020	Subtropical Fruits
U	PLT2020L	Subtropical Fruits Laboratory
U	PLT2030	Pomology
U	PLT2030L	Pomology Laboratory
U	PLT2110	Landscape Drafting & Design
U	PLT2140	History of Garden Art
U	PLT2200	Agronomic Principles & Practices
U	PLT2200L	Agronomic Principles & Practices Laboratory
✽U	PLT2220	Culinary Produce Technology
U	PLT2230	Forage & Pasture Crops
U	PLT2230L	Forage & Pasture Crops Laboratory
U	PLT2260	Vegetable Crop Systems
U	PLT2260L	Vegetable Crop Systems Laboratory
U	PLT2310	Basic Soil Science
U	PLT2310L	Basic Soil Science Laboratory
✽U	PLT2330	Introduction to Arthropods
✽U	PLT2330L	Introduction to Arthropods Laboratory
U	PLT2420	Plant Materials
U	PLT2420L	Plant Materials Laboratory
U	PLT2450	General Surveying
U	PLT2450L	General Surveying Laboratory
U	PLT2520	Computer Aided Design

Plant Science (continued)

U	PLT2520L	Computer Aided Design Laboratory
U	PLT2960	Technical Soils
U	PLT2960L	Technical Soils Laboratory
✽U	PLT2977	Farmers' Markets
✽U	PLT3000	Insects & Civilization
U	PLT3020	Technology Innovations in Plant Science
✽U	PLT3030	Pesticide Laws & Regulations
✽U	PLT3200	Agricultural Insect Pests
✽U	PLT3200L	Agricultural Insect Pests Laboratory
U	PLT3280	Arboriculture
U	PLT3280L	Arboriculture Laboratory
U	PLT3310	Weed Science
U	PLT3310L	Weed Science Laboratory
✽U	PLT3320	Soil Fertility and Fertilizers
✽U	PLT3320L	Soil Fertility and Fertilizers Laboratory
✽U	PLT3340	Soil Resource Management & Conservation
✽U	PLT3340L	Soil Resource Management & Conservation Laboratory
✽U	PLT3360	Bee Science
✽U	PLT3360L	Bee Science Laboratory
U	PLT3370	Native Plant Materials
U	PLT3370L	Native Plant Materials Laboratory
U	PLT3410	Sprinkler/Drip Irrigation
U	PLT3520	Soil Materials & Management
U	PLT3520L	Soil Materials & Management Laboratory
✽U	PLT3650	Sustainable Agriculture
✽U	PLT3650L	Sustainable Agriculture Laboratory
✽U	PLT3760	Introduction to Urban Agriculture
✽U	PLT4010	Crop Ecology
U	PLT4030	Viticulture
U	PLT4030L	Viticulture Laboratory
U	PLT4040	Plant Breeding
U	PLT4040L	Plant Breeding Laboratory
✽U	PLT4110	Environmental Toxicology
U	PLT4190	Plant Pathology
U	PLT4190L	Plant Pathology Laboratory
U	PLT4210	Production Mycology
U	PLT4210L	Production Mycology Laboratory
✽U	PLT4230	Diseases of Ornamentals & Agronomic Crops
✽U	PLT4230L	Diseases of Ornamentals & Agronomic Crops Laboratory
✽U	PLT4311	Plants & Civilization
U	PLT4430	Landscape Management Problem Solving
U	PLT4430L	Landscape Management Problem Solving Laboratory
✽U	PLT4450	Social and Scientific Aspects of Organic Agriculture
U	PLT4460	Advanced Irrigation and Runoff Water Management

Plant Science cont.

✽ U	PLT4460L	Advanced Irrigation & Runoff Water Management Laboratory
✽ U	PLT4965	Sustainable Small-Scale Production
✽ U	PLT4965L	Sustainable Small-Scale Production Laboratory
U	PLT4975	Urban Agriculture Policy & Community Development
✽ U	PLT4975L	Urban Agriculture Policy & Community Development Laboratory
✽ U	PLT4985	Urban Farm Business Models

BUSINESS ADMINISTRATION

ERIK ROLLAND, DEAN
CHERYL R. WYRICK, ASSOCIATE DEAN
RUTH GUTHRIE, INTERIM ASSOCIATE DEAN

Accounting

✽ U	ACC 4711	Governmental and Not-for-Profit Accounting
✽ U	ACC 4811	Accounting Ethics

Finance, Real Estate, and Law

✽ U	FRL 4013	Government Regulation of Business (Administrative Law and Regulation)

International Business and Marketing

U	IBM 3162	Marketing of Services
✽ U	IBM 4141	International Marketing

Management and Human Resources

✽ U	MHR 3030	Management of Not-for-Profit Organizations
✽ U	MHR 4010	Business Ethics, Diversity and Social Responsibility
✽ U	MHR 4030	Leading Organizational Transformations
✽ U	MHR 4050	International Management
✽ U	MHR 4440	Social Entrepreneurship

EDUCATION & INTEGRATIVE STUDIES

JEFF PASSE, DEAN
HEND GILLI-ELEWY, ASSOCIATE DEAN

Early Childhood Studies

U	ECS1000	Child Growth & Development
U	ECS1100	Child, Family & Community
U	ECS1200	Health, Safety & Nutrition for Early Childhood Education
U	ECS2010	Early Childhood Observation & Assessment
U	ECS2010S	Early Childhood Observation & Assessment Activity
U	ECS2100	Early Childhood Clinical Practicum I
U	ECS2100A	Early Childhood Clinical Practicum I Activity
U	ECS2200	Principles & Practices of Teaching Young Children
U	ECS2300	Early Childhood Teaching in a Diverse Society
U	ECS2350	Introduction to Early Childhood Curriculum
U	ECS2400	Administration of Early Childhood Programs I
U	ECS2500	Administration of Early Childhood Programs II
U	ECS2600	Supervising Adults in Early Childhood Settings
U	ECS3100	Applied Infant/Toddler Studies
U	ECS3200	Applied Preschool/Primary Studies
U	ECS3300	Early Childhood Education Leadership & Social Justice
U	ECS3400	Language & Literacy in Multilingual Families & Communities
U	ECS3500	Contextual Approaches to Early Childhood Curriculum
U	ECS3600	Emergent Literacy in First & Second Language Acquisition
U	ECS3650	Early Childhood Leadership in the 21st Century
U	ECS3700	Early Childhood Assessment II
U	ECS3750	Curricular Approaches for Working with Infants & Toddlers
U	ECS3800	Early Childhood Physical Growth and Health
U	ECS3850	Relationship-Based Approaches in Home & Community Settings
U	ECS3900	STEAM: Early Childhood Project Approach to Integrated Learning
U	ECS4010	Dynamics of Early Childhood Play
U	ECS4100	Early Childhood Clinical Practicum II
U	ECS4100A	Early Childhood Clinical Practicum II Activity
U	ECS4200	Numeracy & Inquiry in Multilingual Contexts
U	ECS4300	Working with Exceptional Children & their Families
U	ECS4600	Programs & Policies for Infant, Toddlers & Their Families

Education

U	ECS4700	Infant/Toddler, Family & Program Perspectives in Intervention
U	EDU5010	Foundations of Teaching & Learning
U	EDU5020	Foundations of Education in a Diverse Society
U	EDU5030	Introduction to Professional Work in Schools
U	EDU5105	Language Arts, Second Language Acquisition, & Children's Literature
U	EDU5110	Theory & Practice in Mathematics Education
U	EDU5115	Theory & Practice in Science & Health Education
U	EDU5120	Theory & Practice in Teaching Elementary Social Sciences
U	EDU5125	Theory & Practice in Elementary Movement, Visual, Performing Arts Education
U	EDU5150	Novice Clinical Practice for Elementary Teachers
U	EDU5180	Teaching Performance Assessment for Elementary Teachers
U	EDU5190	Seminar in Teacher Preparation Issues
U	EDU5220	Building Relationships with Youth, Families, & Communities
U	EDU5302	Educating Students with Disabilities in Diverse Settings
U	EDU5310	Characteristics of & Instructional Strategies for Students with Mild/Moderate Disabilities
U	EDU5312	Characteristics of & Instructional Strategies for Students with Moderate/Severe Disabilities
U	EDU5320	Transition Planning Through Family & Professional Collaboration
U	EDU5322	Law, Ethics, and Research in Special Education
U	EDU5332	Positive Classroom and Behavior Management
U	EDU5350	Professional Induction and Directed Inquiry
U	EDU5358	Diversity in Special Education
U	EDU5360	Emotional and Behavioral Disorders: Characteristics & Educational Interventions
U	EDU5370	Role of the Education Specialist in the 21st Century
U	EDU5400	Teaching & Learning in Spanish-English Bilingual Settings
U	EDU5450	Bilingual Practice Seminar
U	ECI5100	Introduction to Design-Based Learning
U	ECI5110	Design-Based Learning as a Process
U	ECI5120	Long-Range Planning Strategies
U	ECI5130	The Classroom & the Environment
U	ECI5140	Developing a Cumulative Curriculum Presentation
U	ECI5150	Teaching Creative Thinking
U	ECI5160	Strategies for Integrated Long-Range Curriculum Planning for K-12
U	ECI5200	Literacy Assessment and Application to Instruction
U	ECI5210	Expertise in Cultural and Socio-Psycholinguistics of Language & Literacy Acquisition
U	ECI5220	Planning for Literacy Clinics in Diverse Settings
U	ECI5230	School-Wide Literacy Programs: Leadership & Development
U	ECI5240	Critical Literacy in Children's and Adolescent Literature

Education (continued)

U	ECI5260	Advanced Professional Competencies
U	ECI5270	Integrating the Curriculum through Clinical Experiences
U	ECI5280	Planning, Organizing, Providing & Leading Literacy Instruction
U	ECI5500	Expertise in Curriculum and Instruction
U	ECI5510	Diversity & Cultural Perspectives
U	ECI5520	Application of Knowledge to Instructional Models
U	ECI5530	Leadership in Multicultural Communities of Learners
U	ECI5562	Project-Based Learning: Theory and Design
U	EMM5100	Foundations of Educational Multimedia Design
U	EMM5100L	Foundations of Educational Multimedia Design Laboratory
U	EMM5120	Game Design for Educators
U	EMM5120L	Game Design for Educators Laboratory
U	EMM5130	Mobile Tech in Education
U	EMM5130L	Mobile Tech in Education Laboratory
U	EMM5140	Culture-Inclusive Digital Storytelling
U	EMM5140L	Culture-Inclusive Digital Storytelling Laboratory
U	EMM5200	Educational Website Design & Development
U	EMM5200L	Educational Website Design & Development Laboratory
U	EMM5400	Instructional Design for eLearning
U	EMM5400L	Instructional Design for eLearning Laboratory
U	EMM5500	Intermediate Educational Website Development
U	EMM5500L	Intermediate Educational Website Development Laboratory
U	EMM5510	Advanced Educational Web-Programming
U	EMM5510L	Advanced Educational Web-Programming Laboratory
U	EMM5600	Design and Production of Educational Multimedia
U	EMM5600L	Design and Production of Educational Multimedia Laboratory
U	EMM5900	Project Management for Instructional Design
U	EMM5900L	Project Management for Instructional Design Laboratory
*	ERA5900	Introduction to Graduate Studies
*	ERA6930	Evaluating, Understanding, & Using Research Methodology
*	ERA6970	MA Comprehensive Exam

Educational Leadership

*	EDL5320	Professional Credential Induction Plan: Assessing for Improved Leadership
*	EDL5340	Practicum I Literacy and Instructional Excellence
*	EDL5360	Practicum II Leadership in Challenging Political & Economic Times
*	EDL5370	Practicum III Legal Aspects for Safe & Effective Schools
*	EDL5460	Theory & Practice I; Visionary and Instructional Leadership
*	EDL5470	Theory & Practice II; School Improvement Leadership
*	EDL5480	Theory & Practice III; Community Leadership
*	EDL5490	Learning to Lead Content Module I; Professional Learning & Growth
*	EDL5510	Fieldwork I

Educational Leadership (continued)

*	EDL5520	Fieldwork II
*	EDL5530	Schoolwide Change Initiative & Candidate Assessment
*	EDD7000	Leadership for Learning
*	EDD7010	Research Learning Community Seminar: Introduction to Doctoral Studies & Dissertation Research
*	EDD7020	Leading & Learning with Technology
*	EDD7020L	Leading & Learning with Technology Laboratory
*	EDD7030	Quantitative Research Methods for School Improvement
*	EDD7040	Organizational Culture & Institutional Change
*	EDD7060	Qualitative Methods for School Improvement
*	EDD7070	Education Policy, Systemic Reform, & Social Justice
*	EDD7080	Building School/Community Partnerships for Student Success
*	EDD7090	Maximizing Fiscal & Human Resources for Student Success
*	EDD7120	Creating the Conditions for Student Success
*	EDD7140	Leadership for Equity and Advocacy
*	EDD7160	Synthesizing Key Concepts of Ethics, Equity, & Social Justice for Transformational leadership
*	EDD7170	Global Perspectives on Educational Leadership, Achievement, & Equity

Ethnic and Women's Studies

U	EWS1020	Engaged Education: Integrating Knowledge, Learning & Success
U	EWS1400	Introduction to Ethnic Studies
U	EWS1450	Introduction to Gender Studies
U	EWS2010	African American Historical Experience
U	EWS2020	Chicana/o and Latina/o Historical Experience
U	EWS2030	Native American Historical Experience
U	EWS2040	Asian/Pacific Islander American Historical Experience
U	EWS2800S	Service Learning and Community Engagement Service Learning
U	EWS2900	Multicultural Leadership
U	EWS3010	Ethnic Identity
U	EWS3300	Ethnicity & Families
U	EWS3450	Labor, Race & Gender Studies
U	EWS3500	Immigration, Race & Gender Studies
U	EWS3600	Cultures of Childhood
U	EWS3700	Race, Gender & the Law/Public Policies
U	EWS3750	Gender, Ethnicity, and Film
U	EWS3800	Women in Global Perspective
U	EWS3850	Education & Social Change
U	EWS3900	U.S. Women of Color
U	EWS3950	Methods in Gender & Ethnic Studies
U	EWS4010	Contemporary African American Studies
U	EWS4020	Contemporary Chicana/o & Latina/o Studies

Ethnic and Women's Studies (continued)

U	EWS4030	Contemporary Native American Studies
U	EWS4040	Contemporary Asian Pacific Islander American Studies
U	EWS4070	Diverse Gender & Sexual Identities
U	EWS4100	Art, Community, & Social Change
U	EWS4110	Diversity, Education & Applied Arts
U	EWS4200	Critical Theories in Gender & Ethnic Studies
U	EWS4250	Gender, Identity & Technology
U	EWS4310	Ethnicity, Gender & Religion/Spirituality
U	EWS4400	Feminist & Queer Theories
U	EWS4430	Women, Health, & Body Politics
U	EWS4450	Multiethnic Heritage of California
U	EWS4500	Multiracial & Hybrid Identities
U	EWS4510	Diaspora Studies
U	EWS4520	Ethnicity, Race, & Sexuality
U	EWS4550	Cross-Cultural Field Experience
U	EWS4610	Capstone Senior Project
U	EWS4750	Communities & Culture
U	EWS4850	Social Movements and Resistance

Interdisciplinary General Education

U	IGE1020	Engaged Education: Integrating Knowledge, Learning & Success
U	IGE1100	Consciousness & Community
U	IGE1100S	Consciousness & Community - Service Learning
U	IGE2100	Empires, States, & Peoples: Cultural Contact & Exchange
U	IGE2200	Encountering Difference: Culture & Power
U	IGE2300	Ways of Doing: Culture, Society, & the Sciences
U	IGE2400	Ways of Living: Local, Global, & Universal Challenges
U	IGE3200	Visions of Science & Technology
U	IGE3500	The Creative Process: Theory & Practice

Liberal Studies

U	LS1020	Integrating Knowledge, Learning, & Engagement for Success
U	LS2011	History and Purposes of the Liberal Arts: What is a Liberal Studies Mindset?
U	LS3011	Knowledge and Knowing in the Liberal Arts
U	LS3021	The Humanities & the Liberal Arts
U	LS3031	The Social Sciences & the Liberal Arts
U	LS3041	The Natural Sciences & the Liberal Arts
U	LS4011	Liberal Studies Special Topics in Humanities, Social Science or Natural Sciences
U	LS4211	Arts Integration II
U	LS4601S	Liberal Studies Synthesis Interdisciplinary Perspective on Contemporary Public Education - Service Learning
U	LS4611	Liberal Studies Senior Capstone – Activating the Liberal Studies Mindset

ENGINEERING

JOSEPH J. RENCIS, DEAN
M. RONALD YEUNG, ASSOCIATE DEAN FOR
ACADEMIC AFFAIRS AND STUDENT SERVICES

Aerospace Engineering

✽ U	ARO 2011L	Fundamentals of Systems Engineering & Design Laboratory

Chemical and Materials Engineering

✽ U	CHE 3121	Transport Phenomena II
U	CHE 4251	Unit Operations and Pollution Abatement
U	CHE 4321	Chemical Safety and Hazardous Materials Management
✽ U	CHE 4451	Chemical Process Synthesis and Design II
✽ U	CHE 4451L	Chemical Process Synthesis and Design II Laboratory
✽ U	MTE 4010	Corrosion And Materials Degradation
✽ U	MTE 4010L	Corrosion And Materials Degradation Laboratory
✽ U	MTE 4220	Fracture and Failure Analysis
✽ U	MTE 5550	Advanced Corrosion and Environmental Degradation
✽ U	MTE 6300	Materials for Energy Applications

Civil Engineering

✽ U	CE 2021	Infrastructure Economics and Public Policy
U	CE 2030	Civil Engineering Materials
U	CE 2030L	Civil Engineering Materials Laboratory
✽ U	CE 3121	Building Systems
✽ U	CE 3201	Environmental Engineering
✽ U	CE 3201L	Environmental Engineering Laboratory
U	CE 3211	Water Resources Engineering
✽ U	CE 3401	Geotechnical Engineering
✽ U	CE 3401L	Geotechnical Engineering Laboratory
✽ U	CE 4031	Sustainable Buildings and Infrastructure
✽ U	CE 4201	Water and Wastewater Engineering
✽ U	CE 4201L	Water and Wastewater Engineering
✽ U	CE 4211	Laboratory
✽ U	CE 4220	Applied Hydrology
✽ U	CE 4220L	Solid and Hazardous Waste Engineering
✽ U	CE 4231	Solid and Hazardous Waste Engineering
✽ U	CE 4241	Laboratory
✽ U	CE 4261	Water Reclamation and Desalination
✽ U	CE 4271	Environmental Remediation

Civil Engineering (continued)

✽ U	CE 4281	River Mechanics
✽ U*/G	CE 5161	Underground Construction & Trenchless Technology
✽ U*/G	CE 5201	Environmental Chemistry
✽ U*/G	CE 5211	Applied Hydrology
✽ U*/G	CE 5220	Solid and Hazardous Waste Engineering
✽ U*/G	CE 5241	Environmental Remediation
✽ U*/G	CE 5261	Air Quality Engineering
✽ U*/G	CE 5271	Unit Operations & Processes in Environmental Engineering
✽ U*/G	CE 5280	River Mechanics
✽ G	CE 5290	Global Climate & Water Supply
✽ G	CE 5310	GIS Applications in Civil Engineering
✽ U*/G	CE 5400	Advanced Soil Mechanics I
✽ U*/G	CE 5491	Street Maintenance, Rehabilitation & Management
✽ G	CE 6200	Environmental Water Resources Seminar
✽ G	CE 6250	Advanced Water Treatment
✽ G	CE 6260	Advanced Wastewater Treatment
✽ G	CE 6640	Transportation Administration & Policy

Electrical and Computer Engineering

✽ U	ECE 4875	Wind and Solar Power Systems
✽ U	ECE 5700	Smart Grid in Power System

Electro-Mechanical Engineering Technology

U	ETM 3341	Heating Ventilation & Air Conditioning I
✽ U	ETM 4151	Renewable Energy Systems
✽ U	ETM 4191	Applied Thermodynamics II

Industrial and Manufacturing Engineering

✽ U	EMT 5390	Advanced Human Factors in Engineering Design
U	EMT 5730	Advanced Operations Planning and Control
U	EMT 5740	Advance Facilities Planning
U	IME 4020	Ethical Concepts in Technology and Applied Science
U	IE 2250	Fundamentals of Human Factors Engineering
U	IE 2250L	Fundamentals of Human Factors Engineering Laboratory
U	IE 4360	Operations Planning and Control
U	IE 4360L	Operations Planning and Control Laboratory
✽ U	SE 5150	System Sustainability
U	SE 5220	Supply Chain Management in Production Systems

Mechanical Engineering

✽ U	ME 2331	Introduction to Design
✽ U	ME 2331L	Introduction to Design Laboratory
✽ U	ME 3070	Alternative Energy Systems
U	ME 4180	Air Conditioning
U	ME 4180L	Air Conditioning Laboratory
✽ U	ME 4441	Air Pollution Formation and Control
✽ G	ME 5900	Solar Energy Systems
✽ G	ME 5910	Direct Energy Conversion

ENVIRONMENTAL DESIGN

MICHAEL WOO, DEAN

Architecture

✤U	ARC 2010	Introduction to Sustainable Architectural Design
U	ARC 2011L	Second Year Design 1 Laboratory
✤G	ARC 5020	Introduction to Sustainable Architectural Design
✤G	INA 5110	Interior Architecture Studio A
✤U*/G	ARC 4310	Sustainable Technology
✤U*/G	ARC 4320	High Performance Design
✤U*/G	ARC 4340	Tools for Sustainability
✤U*/G	ARC 4360	Advanced Sustainable Design
✤U*/G	ARC 4370	Carbon Neutral Architectural Design
U*/G	ARC 4670	California Architecture
U*/G	ARC 4870	Healthcare Architecture, Planning and Desig
✤U*/G	ARC 4880	Healthcare Facility Design and Sustainability
✤U/G	ARC 3310	Environmental Controls Systems 1
✤U/G	ARC 3312	Environmental Controls Systems 1 Discussion
✤U/G	ARC 3320	Environmental Controls 2
✤U/G	ARC 3322	Environmental Controls 2 Discussion
✤U/G	ARC 3420	Building Construction 2
✤U/G	ARC 3422	Building Construction 2 Discussion

Landscape Architecture

✤G	INA 6130	Ecology of Design
G	LA 5772	Graduate Environmental Design Theory
✤U	LA 1771	Reading and Representing the Landscape
✤U	LA 2121L	Design IV: Ecology + Design Laboratory
✤U	LA 2261	History I: History of Landscape Design
✤U	LA 2441	Plant Ecology and Design I
✤U	LA 2451	Plant Ecology and Design II
✤U	LA 3111L	Design V: Landscape Systems Lab (3)
✤U	LA 3581	Geodesign Fundamentals for Environmental Designers
U	LA 3611	Construction I: Site Engineering and Landscape Construction
✤U	LA 3621	Construction II: Methods and Materials and Measuring
✤U	LA 4111L	Design VII: Advanced Landscape Architecture Laboratory
✤U	LA 4781	Urban Green Infrastructure
✤U	LA 4782	Evolving Issues in Environmental Design

Landscape Architecture (continued)

✱ U	LA 4811L	Design VII: Advanced International Landscape Architecture Methods Laboratory
✱ U	LA 6441	Plants and Ecology
✱ U	LA 6451	Coupled Human and Natural Systems

John T. Lyle Center for Regenerative Studies

✱ G	RS 5100	Regenerative Concepts and Applications
✱ G	RS 5150	Regenerative Social Practices
✱ G	RS 5170L	Community Practice Laboratory
✱ G	RS 5200	Nature as Model
✱ G	RS 5250	Scientific Foundations in Regeneration
✱ G	RS 5300	Regenerative Technology
✱ G	RS 5350	Regenerative Environments
✱ G	RS 5400	Coalition Building
✱ U	RS 1110	Introduction to Regenerative Studies
✱ U	RS 3010	Life Support Processes
✱ U	RS 3020	Global Regenerative Systems
✱ U	RS 3030	Organization for Regenerative Practices
✱ U	RS 4140	Current Applications in Regenerative Studies
✱ U	RS 4140L	Current Applications in Regenerative Studies Laboratory
✱ U	RS 4200	Watershed Restoration
✱ U	RS 4200L	Watershed Restoration Laboratory
✱ U	RS 4300	Solar Energy Systems
✱ U	RS 4300L	Solar Energy Systems Laboratory
✱ U	RS 4500	Sustainable Communities
✱ U	RS 4650	Ecological Patterns and Processes
✱ U*	RS 5500	Seminar in Research Methods
✱ U*	RS 6100	Methods and Applications in Regenerative Studies
✱ U*	RS 6100L	Methods and Applications in Regenerative Studies Laboratory

Urban and Regional Planning

✱ U/G	URP 4200	Methods of Engagement; Participation, Negotiation, Mediation
✱ U/G	URP 4200A	Methods of Engagement; Participation, Negotiation, Mediation Activity
✱ U/G	URP 4210	Planning Advocacy, Community Organizing & Social Change
✱ U/G	URP 4210A	Planning Advocacy, Community Organizing & Social Change Activity
✱ U/G	URP 4370	Planning for Infrastructure
U/G	URP 4510	Land Use and Urban Design Policy
U/G	URP 4510A	Land Use and Urban Design Policy Activity
✱ U/G	URP 4660	Environmental Assessment
✱ U/G	URP 4760	International Planning
U/G	URP 5350	Regional Transportation Policy and Planning
✱ U/G	URP 5660	Environmental Assessment
✱ U	URP 1050	Social Justice in Planning
✱ U	URP 3010	Introduction to Urban Planning

Urban and Regional Planning (continued)

✿ U	URP 3370	Urban Systems Infrastructure
✿ U	URP 3370L	Urban Systems Infrastructure Laboratory
✿ U	URP 3380	Urban Systems - Climate Change and Environment
✿ U	URP 3510	Planning and Land Use Law
✿ U	URP 3510A	Planning and Land Use Law Activity
✿ U	URP 4220	The Just City
✿ U	URP 4240	Public Participation
✿ U	URP 4320	Community Planning Studio
✿ U	URP 4320L	Community Planning Studio Laboratory
✿ U	URP 4330	Affordable Housing Seminar
✿ U	URP 4340	Community Development and Housing
✿ U	URP 4340A	Community Development and Housing Activity
✿ U	URP 4750	Planning in a Global Economy
✿ U	URP 4820	California Water
U	URP 5060	Land Use Planning Law and Intergovernmental Relations
✿ U	URP 5070	Planning for Environmental Sustainability
U	URP 5120	Planning Ideas and Actions
✿ U	URP 5400	Planning for Community Change
✿ U	URP 5400L	Planning for Community Change Laboratory
U	URP 6430	Leadership and Ethics Seminar
✿ G	URP 4870	Environmental Policy
✿ G	URP 4880	Local Transportation
✿ G	URP 4880L	Local Transportation Laboratory
✿ G	URP 4910	Planning for Climate Change
✿ G	URP 4910A	Planning for Climate Change Activity
✿ G	URP 5340	Urban Housing and Community Development
✿ G	URP 5340A	Urban Housing and Community Development Activity
✿ G	URP 5370	Environmental Policy
G	URP 5430	Methods in Leadership and Entrepreneurship
G	URP 5430A	Methods in Leadership and Entrepreneurship Activity

LETTERS, ARTS, & SOCIAL SCIENCES

IRIS LEVINE, DEAN
SARA A. GARVER, ASSOCIATE DEAN
ERIKA DEJONGHE, INTERIM ASSOCIATE DEAN

Communication

U	COM1103	Interpersonal Communication
U	COM2216	Report Writing
U	COM2217	Reporting
U	COM2231	Digital Photo
U	COM2232	Photojournalism
U	COM2237	Group Discussion
U	COM2270	Media, Politics, Sex, and Violence
U	COM3301	Videography
U	COM3310	Data Journalism
U	COM3312	Magazine Journalism
U	COM3313	Public Relations Principles
U	COM3314	Organizational Communication
U	COM3316	Communication Research
U	COM3319	Public Relations Writing
U	COM3321	Advanced Organization Communication
U	COM3325	Persuasion
U	COM3326	Nonverbal Communication
U	COM3327	Intercultural Communication
U	COM3328	Diversity and Communcation
U	COM3340	Professional Writing and Speaking
U	COM3351A	Newspaper Practices Activity
U	COM3352A	Magazine Practices Activity
U	COM3354A	Video Practices Acitvity
U	COM3360	Communication Law and Ethics
U	COM4140	Public Relations Case Studies
U	COM4150	Public Relations Campaigns
U	COM4166	Advanced Communication Research
U	COM4170	Public Affairs Reporting
U	COM4180	Investigative Journalism
U	COM4190	Documentary Journalism
U	COM4222	Crisis Communication
U	COM4233	Political Economy of Mass Communication
U	COM4244	Organizational Communication and Technology

Communication (continued)

U	COM4403	Advanced Interpersonal Communication
U	COM4404	Gender and Communication
U	COM4405	Family Communication
U	COM4406	Communication: The Dark Side
U	COM4409	Negotiation and Conflict Resolution
U	COM4411	Applied Communication Internship
U	COM4413	Public Opinion, Propaganda, and Mass Media
U	COM4440	Communication Training and Development
U	COM4447	Political Communication
U	COM4448	Media Criticism
U	COM4465	Online and Social Media
U	COM4620	Journalism Capstone

Economics

	U	EC1100	Contemporary Economic Issue
	U	EC4408	Money and Banking
	U	EC4430	Economic Development
	U	EC4431	Public Finance
	U	EC4432	Urban Economics
	U	EC4433	Labor Economics
❈	U	EC4435	Environmental Economics
❈	U	EC4437	Natural Resource Economics
❈	U	EC6630	Advanced Environmental Economics
❈	U	EC6631	Advanced Natural Resource Economics
	U	EC6654	International Finance
	U	EC6655	International Trade
	U	EC6656	Capital Markets I
	U	EC6657	Capital Markets II

English and Modern Languages

U	CHN1112	Elementary Chinese II
U	CHN1111	Elementary Chinese I
U	CHN2111	Intermediate Chinese I
U	CHN2112	Intermediate Chinese II
U	CHN2113	Intermediate Chinese III
U	CHN3410	Chinese Civilization and Culture
U	ENG1100	Stretch Composition I
U	ENG1100A	Stretch Composition I Activity
U	ENG1101	Stretch Composition II
U	ENG1101A	Stretch Composition II Activity
U	ENG1103	First Year Composition
U	ENG1103A	First Year Composition Activity
U	ENG2105	Written Reasoning
U	ENG2130	Practicum in Tutoring English
U	ENG2150	Multimodal Literacy
U	ENG2200	Introduction to English Linguistics

English and Modern Languages (continued)

U	ENG2882	War and Peace in Literature
U	ENG2883	Women Writers
U	ENG3010	Introduction to Literary Theory
U	ENG3110	Introduction to Rhetorical Theory
U	ENG3120	Professional Editing
U	ENG3141	Creative Writing
U	ENG3142	Creative Non-Fiction
U	ENG3150	Advanced Expository Writing
U	ENG3151	Writing for the Professions
U	ENG3152	Literacy, Language, and Cultural Practices
U	ENG3153	Theory to Practice in Student Literacy
U	ENG3210	The Grammar of Modern English
U	ENG3211	Structure of Language
U	ENG3212	Language Acquisition
U	ENG4150	Multimedia Practicum
U	ENG4211	Fundamentals of Syntax
U	ENG4220	Language in Society
U	ENG4221	Analysis of Conversation
U	ENG4222	Applied Pragmatics
U	ENG4400A	Writing for the Web Activity
U	ENG4401A	Journal Publishing Activity
U	ENG4402	Undergraduate Research
U	ENG4410	Internship Cooperative Education
U	ENG5100	History of Rhetoric
G	ENG5110	Theory and Practice of Modern Rhetoric
G	ENG5130	Teaching Writing
G	ENG5131	Pedagogies of Reading
G	ENG5150	Writing in the Disciplines
G	ENG5151	Rhetoric and Poetics
G	ENG5152	Digital Rhetoric and Literacy
G	ENG5180	Emerging Issues in Rhetoric and Composition
G	ENG5230	Introduction to TESOL
G	ENG5231	Grammar for TESOL
G	ENG5232	Teaching ESL Composition
G	ENG5233	Teaching American English Production
G	ENG5234	Second Language Acquistion
G	ENG5235	Practicum in Teaching ESL
G	ENG5280	Emerging Issues in Linguistics
G	ENG5760	Exile and Diaspora in World Literature
G	ENG5761	Studies in Nobel Prize Literature
U	ENG5880	Emerging Issues in Literature
U	FRE1111	Elementary French I
U	FRE1112	Elementary French II
U	FRE2111	Intermediate French
U	FRE2112	Intermediate French Reading

English and Modern Languages (continued)

U	FRE2113	Intermediate French Composition and Conversation
U	FRE3410	French Civilization
U	FRE3420	Contemporary France
U	GER1111	Elementary German I
U	GER1112	Elemntary German II
U	GER2111	Intermediate German I
U	GER2113	Intermediate German Composition and Conversation
U	GER3410	German Civilization
U	SPN1111	Elementary Spanish I
U	SPN1112	Elementary Spanish II
U	SPN1120	Introduction to the Spanish-Speaking World
U	SPN2111	Intermediate Spanish I
U	SPN2112	Intermediate Spanish II
U	SPN2120	Spanish for Spanish Speakers II
U	SPN2130	Spanish Intermediate Composition
U	SPN2140	Intermediate Spanish Conversation
U	SPN3110	Advanced Spanish Writing and Academic Speech
U	SPN3120	Introduction to Translation and Interpretation
U	SPN3130	Business Spanish
U	SPN3410	Spanish Civilization
U	SPN3420	Latin American Civilization
U	SPN4210	Spanish for Teachers
U	SPN4330	Gender in Hispanic Texts

Geography and Anthropology

	U	ANT1010	Introduction to Biological Anthropology
	U	ANT1020	Introduction to Cultural Anthropology
	U	ANT1120	World Cultures via the Internet
	U	ANT2010	Human Nature/Human Affairs: A Biocultural Perspective
	U	ANT3400	Comparative Primatology
	U	ANT3400L	Comparative Primatology Laboratory
	U	ANT3450	Human Evolution and Diversity
	U	ANT3450L	Human Evolution and Diversity Laboratory
✳	U	ANT3500	Environment, Technology, and Culture
	U	ANT3520	Anthropology of Globalization and Development
	U	ANT3530	Language and Culture
	U	ANT3570	Health Systems Past and Present
	U	ANT3580	Social Anthropology
	U	ANT3790	Culture Area of the World
	U	ANT3970	Cultural Resource Management
	U	ANT4050	Anthropology of Gender
	U	ANT4180	Business Anthropology
	U	ANT4910	Forensic Anthropology
	U	GEO1000	World Regional Geography
	U	GEO1010	Physical Geography
	U	GEO1010L	Physical Geography Lab

English and Modern Languages (continued)

	U	GEO1020	Human Geography
	U	GEO2400	Geographic Information Systems
	U	GEO2400L	Geographic Information Systems Lab
	U	GEO3030	Climatology
	U	GEO3050	Advanced Physical Geography
	U	GEO3050L	Advanced Physical Geography Laboratory
✿	U	GEO3070	Climate Change
	U	GEO3070L	Climate Change Laboratory
	U	GEO3080	Biogeography
	U	GEO3080L	Biogeography Lab
	U	GEO3090	Introduction to Field Geography
	U	GEO3090L	Introduction to Field Geography Laboratory
	U	GEO3100	Cultural Geography
	U	GEO3120	Economic Geography
	U	GEO3130	Legal and Political Geography
	U	GEO3150	Urban Geography
	U	GEO3220	GIS Progamming and Application
	U	GEO3220L	GIS Progamming and Application Laboratory
	U	GEO3300	Environmental Geography
	U	GEO3300L	Environmental Geography Laboratory
	U	GEO3450	Tourism in a Globalizing World
	U	GEO3500	Geography of United States and Canada
	U	GEO3510	Geography of California
	U	GEO3520	Geography of Latin America
	U	GEO3570	Geography of Asia
	U	GEO3580	Geography of Africa
	U	GEO3590	Europe: Land and People
✿	U	GEO4050	Geodemographics with GIS Lecture
✿	U	GEO4050L	Geodemographics with GIS Laboratory
✿	U	GEO4090	Applied Cultural Geography
✿	U	GEO4100	Remote Sensing of the Environment
✿	U	GEO4100L	Remote Sensing of the Environment Laboratory
✿	U	GEO4130	Environmental Law
✿	U	GEO4350	Parks and Protected Areas
✿	U	GEO4400	Advanced GIS
	U	GEO4400L	Advanced GIS Laboratory
	U	GEO4410	Internship in Geo-technology and Environmental Applications
	U	GEO4450	Environmental Modeling with GIS
	U	GEO4450L	Environmental Modeling with GIS Laboratory

History

	U	HST1100	The Study and Practice of History
	U	HST2213	Introduction to Islam
	U	HST3306	Modern India
	U	HST3307	Modern South Asia
	U	HST3316	History of Modern Iran

History (continued)

	U	HST3370	History of California
	U	HST3371	History of Southern California
	U	HST3374	The American West
	U	HST3391	Introduction to Public and Applied History
	U	HST3392	Oral History in Theory and Practice
	U	HST3393S	Digital History and New Media Service Learning
	U	HST3399	History of Modern Nation States
	U	HST4011	History of Cities
	U	HST4012	Constitutional And Legal History of the U.S.
	U	HST4013	Religion in American Society
	U	HST4014	Diplomatic History of the United States
	U	HST4015	History of Education in America
	U	HST4016	History of Education in America
	U	HST4017	American Foodways
	U	HST4200	Islamic Science in World History
	U	HST4210	History of the Scientific Revolution
	U	HST4230	History of the Scientific Revolution
	U	HST4401	African American Experience
	U	HST4403	History of Native Americans
	U	HST4405	Immigrants in American Life
	U	HST4406	Women in the United States
	U	HST4407	History of American Workers, 1877-Present
	U	HST4408	History of American Science and Technology
	U	HST4431	Topics in World Civilization
	U	HST4433	Nonviolence in the Modern World
✽	U	HST4435	Environmental History

Music

U	MU1000	Introduction to Music
U	MU1010	Music Appreciation
U	MU1030	World of Music
U	MU1040	Careers in Music
U	MU1080	Introduction to Music Technology
U	MU1090	History of American Popular Music
U	MU1100	Jazz and Beyond
U	MU1111	Beginning Piano I
U	MU1121A	Class Piano I Activity
U	MU1131A	Class Piano II Activity
U	MU1161A	Jazz Improvisation, Beginning Activity
U	MU1171S	Introduction to Music Education Service Learning
U	MU1201	Music Theory I: Diatonic Harmony
U	MU1211	Music Theory II: Chromatic Harmony
U	MU1281S	Instructional Technology for the Music Educator Service Learning
U	MU1290	Songwriting I
U	MU1300	Brass Class
U	MU1310	Guitar Class

Music (continued)

U	MU1320	Percussion Class
U	MU1330	Beginning Strings
U	MU1340	Voice Class
U	MU1350	Woodwind Class
U	MU1360	World Music Class
U	MU1710	Studio Strings
U	MU1711	Studio Strings
U	MU1720	Studio Brass
U	MU1721	Studio Brass
U	MU1730	Studio Woodwind
U	MU1731	Studio Woodwind
U	MU1740	Studio Percussion
U	MU1741	Studio Percussion
U	MU1750	Studio Keyboard
U	MU1751	Studio Keyboard
U	MU1760	Studio Guitar
U	MU1761	Studio Guitar
U	MU1770	Studio Voice
U	MU1771	Studio Voice
U	MU1780	Studio Electric Bass
U	MU1781	Studio Electric Bass
U	MU1811	Performance Studio Lower Division
U	MU1990A	Special Activity for Lower Division Students
U	MU2000	Special Study for Lower Division Students
U	MU2111	Beginning Piano II
U	MU2121A	Class Piano III Activity
U	MU2131A	Class Piano IV Activity
U	MU2201	Form and Analysis
U	MU2211A	Musicianship I Activity
U	MU2221A	Musicianship II Activity
U	MU2251	Composition I
U	MU2281	Introduction to Digital Audio and Pro Tools
U	MU2290	Songwriting II
U	MU2310	Intermediate Guitar Class
U	MU2330	Intermediate Strings
U	MU2610	Diction for Singers
U	MU2700	Performance Seminar
U	MU2990	Special Topics for Lower Division Students
U	MU2990A	Special Topics for Lower Division Students Activity
U	MU2990L	Special Topics for Lower Division Students Laboratory
U	MU3010	Music Theory III: Advanced Music Theory
U	MU3020	Tonal Counterpoint
U	MU3040	Beginning Conducting
U	MU3051	Instrumental Conducting
U	MU3061	Choral Conducting

Music (continued)

U	MU3081	Media Composition
U	MU3091	Instrumentation and Arranging
U	MU3100	History of Technology in Music
U	MU3110	Music of Mexico
U	MU3161A	Jazz Improvisation, Advanced Activity
U	MU3170	Women in Music
U	MU3181	Ethnomusicology: Theory, History, and Field Methods
U	MU3211A	Musicianship III Activity
U	MU3221A	Musicianship IV Activity
U	MU3251	Composition II
U	MU3281	Music Recording
U	MU3291	Piano Pedagogy
U	MU3301A	Brass Fundamentals Activity
U	MU3311A	Percussion Fundamentals Activity
U	MU3321A	String Fundamentals Activity
U	MU3331	Vocal Pedagogy
U	MU3341A	Woodwind Fundamentals Activity
U	MU3361A	Guitar Fundamentals Activity
U	MU3371	Secondary Choral Methods
U	MU3381	Secondary Instrumental Methods
U	MU3391	Teaching Music Literacy
U	MU3410A	Brass Ensemble Activity
U	MU3420A	Woodwind Ensemble Activity
U	MU3430A	Percussion Ensemble Activity
U	MU3440A	String Ensemble Activity
U	MU3450A	Collaborative Piano Activity
U	MU3460A	Guitar Ensemble Activity
U	MU3470A	World Music Ensemble Activity
U	MU3480A	Piano Ensemble Activity
U	MU3510L	Orchestra Laboratory
U	MU3520L	Concert Band Laboratory
U	MU3530L	Wind Ensemble Laboratory
U	MU3540L	Jazz Band Laboratory
U	MU3550A	University Band
U	MU3560A	Jazz Combo Activity
U	MU3571A	New Music Ensemble Activity
U	MU3580A	Latin American Ensemble Activity
U	MU3590A	Electronic Music Ensemble
U	MU3610L	Concert Choir Laboratory
U	MU3621L	Music Theatre Workshop Laboratory
U	MU3631L	Music Theatre Production Laboratory
U	MU3640L	Chamber Singers Laboratory
U	MU3650A	Vocal Jazz Ensemble Activity
U	MU3681	Interpretation for Singers
U	MU3690L	Songwriter Showcase Laboratory

Music (continued)

U	MU3710	Studio Strings
U	MU3720	Studio Brass
U	MU3730	Studio Woodwind
U	MU3740	Studio Percussion
U	MU3750	Studio Keyboard
U	MU3760	Studio Guitar
U	MU3770	Studio Voice
U	MU3781	Studio Electric Bass
U	MU3791	Studio Composition
U	MU3801	Studio Conducting
U	MU3811	Performance Studio Upper Division
U	MU3881	Creative Project
U	MU3901	Junior Recital
U	MU3911	Seminar for Music Industry Studies
U	MU3920	Music Industry Studies Internship
U	MU3940S	Music Studies Integration - Service Learning
U	MU3950	Non-Profit Music
U	MU3961	Music Publishing, Copyright, and Licensing
U	MU3971	Music for Media
U	MU3991	Artist Representation, Promotion, and Touring
U	MU4000	Special Study for Upper Division Students
U	MU4021	Song Culture for Schools
U	MU4070	Arranging for Voices
U	MU4081	Interactive Composition
U	MU4171	Theory, History, and Design of Musical Instruments
U	MU4180	Western Classical Traditions I
U	MU4190	Western Classical Traditions II
U	MU4200	Performance Literature
U	MU4240	Beatlemania
U	MU4250	Life and Death in the Arts
U	MU4270	Tracking and Mixing in Music Recording
U	MU4280	Music Mastering, Editing and Delivery
U	MU4291	Live Sound Production
U	MU4601	Senior Project Research and Preparation
U	MU4610	Senior Recital Studio
U	MU4620	Senior Project
U	MU4621	Senior Recital
U	MU4990	Special Topics for Upper Division Students
U	MU4990A	Special Topics for Upper Division Students Activity
U	MU4990L	Special Topics for Upper Division Students Laboratory

Philosophy

U	PHL2020	Critical Thinking
U	PHL2040	Ethical Porblems in Contemporary Life
U	PHL2050	Business and Professional Ethics
U	PHL2060	Philosophy Through Children's Literature
U	PHL2200	Religions of the World
U	PHL3090	Moral Philosophy
U	PHL3100	Social and Political Philosophy
U	PHL3110	Philosophical Issues in the Law
U	PHL3200	American Philosphy
U	PHL3220	Existentialism
U	PHL3330	Bioethics
U	PHL3450	Confrontations With The Reaper
U	PHL3500	Philosophy of the Mind
U	PHL3530	Cognitive Science
U	PHL3590	Epistemology
U	PHL3600	Metaphysics
U	PHL3810	Race and Racism
U	PHL3830	Philosophy of Science
U	PHL4300	Ethics, Environment, and Society
U	PHL4400	Seminar in Law and Values
U	PHL4750	Global Justice
U	PHL4820	Ethics Bowl
U	STS2010	Introduction to Science, Technology, and Society
U	STS4610	Science, Technology, and Society Capstone Seminar
U	STS4620	Science, Technology, and Society Senior Project

Political Science

G	MPA5010	Public Policy Formation and Implementation
G	MPA5020	Public Fiscal Administration
G	MPA5030	Human Resources in the Public Sector
G	MPA5040	Research Methods for Public Administration
G	MPA5080	Administrative Ethics and Administrative Law
G	MPA5100	Theories of Public Administration and Democratic Governance
G	MPA5200	Intergovernmental Relations
G	MPA5225	City Management
G	MPA5245	Non-Governmental Organizations
G	MPA5265	Crisis /Emergency Management
G	MPA5285	Leadership in Public Organizations
G	MPA5500	Public Policy Program Evaluation
G	MPA5585	Urban Governance, Politics, and Administration
G	MPA5605	Criminal Justice: Politics and Administration
✿ G	MPA5655	Community Sustainability Policy
U	PLS1011	Introduction to Political Science
U	PLS2010	Introduction to American Government
U	PLS2030	Introduction to International Relations
U	PLS2040	Introduction to Political Thought

Political Science (continued)

U	PLS2051	Research Methods
U	PLS2051A	Research Methods Activity
U	PLS2060	Introduction to Public Administration
U	PLS2070	Introduction to Public Law
U	PLS3011	Constitutional Law: Governmental Powers
U	PLS3021	Constitutional Law: Rights and Liberties
U	PLS3031	Constitutional Law: Criminal Justice
U	PLS3041	The Criminal Justice System
U	PLS3150	Politics of Public Policy
U	PLS3165	Urban Administration, Politics and Policy
U	PLS3175	NGOs and Social Service Outreach
U	PLS3250	The American Congress
U	PLS3260	The American Presidency
U	PLS3270	The American Judiciary
U	PLS3321	Modern Political Thought
U	PLS3331	American Political Thought
U	PLS3420	Politics of Developing Areas
U	PLS3431	Ethnic Conflict
U	PLS3515	International Relations Theory
U	PLS3521	US Foreign Policy
U	PLS3541	International Political Economy
U	PLS3551	International Conflict, War, and Peace
U	PLS3561	International Law
U	PLS3821	Politics, Policies, Pop Culture
U	PLS4050	Jurisprudence
U	PLS4090	Contemporary Issues in American Law
U	PLS4160	Public Organizations
U	PLS4170	Policy Analysis and Program Evaluation
U	PLS4170A	Policy Analysis and Program Evaluation Activity
U	PLS4205	American Political Institutions and Behavior
U	PLS4211	Voting and Elections in the United States
U	PLS4221	Political Campaign Management
U	PLS4221A	Political Campaign Management Activity
U	PLS4231	Race and Ethnic Politics in the United States
U	PLS4245	Public Opinion
U	PLS4250	Women and Politics in America
U	PLS4265	Political Communication and Media
U	PLS4341	Advanced American Political Thought
U	PLS4360	Contemporary Political Theory
U	PLS4381	Environmental Political Theory
U	PLS4521	Environmental Security
U	PLS4531	Terrorism
U	PLS4541	Transnational Crime
U	PLS4551	International Human Rights
U	PLS4561	International Environmental Policy

Political Science (continued)

U	PLS4800	Policies of Need and Greed
U	PLS4811	California Government

Psychology and Sociology

U	CRM2201	Introduction to Criminology
U	CRM3306	Crime Analysis
U	CRM3306A	Crime Analysis Activity
U	CRM3318	Contemporary Treatment of Law Violators
U	CRM3319	Policing
U	CRM3320	Probation and Parole
U	CRM3330	Restorative Justice
U*	CRM3360	Juvenile Delinquency
U	CRM3370	Drug Policy
U	CRM3380	Political Violence
U	CRM3390	Media and Crime
U	PSY2204	Research Methods in Psychology
U	PSY2201	Introduction to Psychology
U	PSY2206	Child Psychology for Educators
U	PSY2210	Mind, Brain and Behavior: An Integrated View
U	PSY2222	Careers in Psychology
U	PSY3303	Physiological Psychology
U	PSY3303A	Physiological Psychology Activity
U	PSY3305	Basic Developmental Psychology
U	PSY3310	Child Psychology: Early Childhood
U	PSY3311	Child Psychology: Middle Childhood
U	PSY3312	Adolescent Psychology
U	PSY3314	Human Relations in Organizations
U	PSY3321	Psychology of Identity
U	PSY3322	Psychology of Women
U	PSY3325	Multicultural Psychology
U	PSY3326	Health Psychology
U	PSY3332	Organizational Psychology
U	PSY3333	Industrial Psychology
U	PSY3334	Cognitive Processes
U	PSY4121	Theories of Counseling
U	PSY4150	Abnormal Psychology
U	PSY4160	Psychological Testing
U	PSY4170	Basic Counseling Skills
U	PSY4200	Environmental Psychology
U	PSY4220	Psychology of Creativity
U	PSY4250	Community Psychology
U	PSY4260	Applied Social Psychology
U	PSY4401	Social Psychology
U	PSY4401	Theories of Learning
U	PSY4403	Psychology of Personality
U	PSY4450	Principles of Behavior Modification

Psychology and Sociology (continued)

U	PSY4452	Organizational Development and Change
U	PSY4490	Leadership and Teams
G	PSY5515	Advanced Topics in Human Development
G	PSY5530	Psychobiology of Mental Disorders
G	PSY5545	Introduction to Family and Marital Therapy
G	PSY5555	Psychopathology
G	PSY5565	Advanced Testing and Professional Issues
G	PSY5565L	Advanced Testing and Professional Issues Laboratory
G	PSY5570	Ethical Issues in Counseling and Family Therapy
G	PSY5575	Multicultural and Gender Issues in Therapy and Recovery Model
G	PSY6605	Diagnosis and Treatment of the Family/Family Violence
G	PSY6606	Diagnosis and Treatment of Couples and Spousal Abuse
G	PSY6607	Diagnosis and Treatment of Children and Child Abuse
G	PSY6610	Substance Use Problems: Individual, Family, and Group Processes
U*	SOC(301)	Contemporary Social Problems
U*	SOC(301)	Religion in American Life
U*	SOC(345)	Computer Methods in Social Sciences/Acitivity
U	SOC(434)	Field Research Methods
U*	SOC(498)	Senior Seminar
U*	SOC2200	Special Study for Lower Division Students
U*	SOC2201	Introduction to Sociology
U*	SOC2205	Research Methods in Sociology
U*	SOC3305	Classical Sociological Theory
U*	SOC3306	Contemporary Sociological Theory
U*	SOC3307/3307L	Statistics for Sociology and Lab
U*	SOC3309	Social Stratification and Inequality
U*	SOC3313	Latina/o Sociology
U	SOC3314	Black Sociology
U	SOC3315	Asian American/Pacific Islander Sociology
U*	SOC3320	Race and Ethnic Relations
U*	SOC3321	Sociology of the Family
U*	SOC3325	Community and Urban Sociology
U*	SOC3328	Gender and Sexuality
U*	SOC3340	Social Change and Social Movements
U*	SOC3345	Crime, Criminalization, and Society
U*	SOC3350	Immigration and Migration
U	SOC3351	Transnationalism and Diaspora
U	SOC3360	Sociology of Education
U	SOC3380	Political Sociology
U	SOC3388	Faith and Ideology
U*	SOC4000	Special Study for Upper Division Students
U*	SOC4100/4100L	Quantitative Methods of Society and Lab
U*	SOC4110/4110L	Quantitative Methods for Sociology and Lab
U	SOC4250	Demography and Public Policy
U	SOC4402	Socialization: Self and Society

Psychology and Sociology (continued)

U*	SOC4440	Technology & Society
U	SOC4451	Social Inequality, Sport, and the Body
U*	SOC4471	Peer Mentor II: Student Leaders and Outreach
U*	SOC4611	Senior Symposium
U*	SOC4990	Special Topics for Upper Division Students
U*	SW(318)	Contemporrary Treatment of Law Violators
U*	SW(402)	Field Work
U*	SW2201	Introduction to Social Work and Social Welfare
U*	SW3301/3301L	Social Work Practice and Laboratory
U*	SW3310	Social Welfare Policy and Issues
U*	SW3322	Family Violence
U*	SW4411	Internship
U*	SW4430	International Social Work
U*	SW4440	Human Rights
U*	SW4470	Death and Dying

Theatre and New Dance

U	DAN2020	World Dance and Cultures
U	DAN2300	Live Dance Appreciation
U	DAN2700A	Hip-Hop Dance Activity
U	DAN2710A	Lyrical Jazz Dance Activity
U	DAN2720A	Intermediate Hip-Hop and/or Lyrical Jazz Dance Activity
U	DAN2730A	Modern Contemporary Dance A Activity
U	DAN2740A	Modern Contemporary Dance B Activity
U	DAN2760A	Contemporary Ballet A Activity
U	DAN2770A	Contemporary Ballet B Activity
U	DAN2790A	Intermediate Contemporary Dance Techniques Activity
U	DAN2900A	Cultural Performance Series Activity
U	DAN2940A	Dance Production Activity
U	DAN2950A	Site-Specific Performance Event Activity
U	DAN2960A	New Dance Creative Projects/Community Engagement Activity
U	DAN3200	Dance Improvisation
U	DAN3400	Dance Theatre
U	DAN3600	Performance Ensemble
U	DAN3600L	Performance Ensemble Laboratory
U	DAN4300	Choreography
U	DAN4460	History of Dance and Its Artistic and Cultural Influences
U	DAN4490	Dance in Contemporary Culture
U	DAN4600	Dance Somatics and Educational Practices
U	TH1250	Introduction to Acting
U	TH1310	Stagecraft
U	TH1310L	Stagecraft Laboratory
U	TH1320	Costume Craft
U	TH1320L	Costume Craft Laboratory
U	TH1510	Acting I
U	TH1510L	Acting I Laboratory

Theatre and New Dance (continued)

U	TH1700A	Applied Theatre Series Activity
U	TH1770A	Applied Theatre in Education and Community Activity
U	TH2030	Introduction to Theatre
U	TH2080	Introduction to Film and American Culture
U	TH2280	Text Analysis
U	TH2310	Principles and Practices of Theatrical Design
U	TH2330	Drafting and Rendering
U	TH2440A	Theatre Practicum Activity
U	TH2520	Vocal Techniques for Theatre I
U	TH2530	Acting II
U	TH2530L	Acting II Laboratory
U	TH2540	Movement for Theatre
U	TH2580	Business of Acting
U	TH2610	Stage Management
U	TH3010	Through Artists' Eyes
U	TH3210	Peer Theatre I
U	TH3220	Peer Theatre II
U	TH3230	Peer Theatre III
U	TH3320	Lighting Design
U	TH3320L	Lighting Design Laboratory
U	TH3330	Computer Aided Theatre Design
U	TH3370	Scenic Design
U	TH3370L	Scenic Design Laboratory
U	TH3520	Vocal Techniques for Theatre II
U	TH3530	Acting III
U	TH3530L	Acting III Laboratory
U	TH3550	Theatre Improvisation
U	TH3560	Directing
U	TH3560	Directing Laboratory
U	TH3700A	Advanced Applied Theatre Activity
U	TH3770A	Advanced Applied Theatre in Education and Community Activity
U	TH3810	Costume Design and History
U	TH3810L	Costume Design and History Laboratory
U	TH4010	Playwriting And Dramatic Structure
U	TH4100	Theatrical Pursuit of an American Ideology
U	TH4200A	Summer Theatre Activity
U	TH4210	Theatre in Education
U	TH4230	Integrated Arts
U	TH4250	Community Based Theatre
U	TH4310	Portfolio Development
U	TH4440A	Advanced Theatre Practicum Laboratory
U	TH4590	Filmmaking
U	TH4590L	Filmmaking Laboratory

SCIENCE

ALISON A. BASKI, DEAN
CRAIG LA MUNYON, ASSOCIATE DEAN
OF ACADEMICS AND RESEARCH

Biological Sciences

	U	BIO 1040	What is Evolution?
	U	BIO 1060	Human Biology
	U	BIO 1110	Life Science
	U	BIO 1110L	Life Science Laboratory
	U	BIO 1150	Basic Biology
	U	BIO 1220	Foundations of Biology: Evolution, Ecology, & Biodiversity
	U	BIO 1220L	Foundations of Biology: Evolution, Ecology, & Biodiversity Laboratory
✿	U	BIO 2060	Basic Microbiology
✿	U	BIO 2060L	Basic Microbiology Laboratory
✿	U	BIO 2120	Life Science for Elementary Educators
✿	U	BIO 2120L	Life Science for Elementary Educators Laboratory
✿	U	BIO 3000	Genetics and Human Issues
✿	U	BIO 3040	Environment and Society
✿	U	BIO 3120	Biodiversity Conservation
	U	BIO 3130	Marine Biology
✿	U	BIO 3620	Applied Microbiology
✿	U	BIO 3620L	Applied Microbiology Laboratory
✿	U	BIO 4060	Regulatory Affairs and Safety Assessment
✿	U	BIO 4080	Water Pollution Biology
✿	U	BIO 4140	Biology of Species Invasions
	U	BIO 4180	Marine Ecology
	U	BIO 4180L	Marine Ecology Laboratory
	U	BIO 4480	Plant Physiology
	U	BIO 4480L	Plant Physiology Laboratory
	U	BIO 4570	Plants and the Environment
	U	BIO 4570L	Plants and the Environment Laboratory
✿	U	BIO 4580	Ecology and Conservation of Hawaiian Ecosystems
✿	U	BIO 4580L	Ecology and Conservation of Hawaiian Ecosystems Laboratory
✿	U	BIO 4680	Microbial Ecology
✿	U	BIO 4680L	Microbial Ecology Laboratory
	U	BIO 5280	Community Ecology
✿	U	BIO 5400	Biogeography
✿	G	BIO 5500	Biological Effects of Climate Change

Chemistry and Biochemistry

✽ U	CHM 4490	Environmental Analysis
✽ U	CHM 4490L	Environmental Analysis Laboratory
✽ U	CHM 4590	Green Chemistry
✽ U/G	CHM 4600	Air Pollution Problems
✽ U*/G	CHM 5810	Instrumental Analysis
✽ U*/G	CHM 5820	Water Sampling and Analysis

Geological Sciences

✽ U	GSC 1010	Planet Earth: A Citizen's Guide
✽ U	GSC 1010A	Planet Earth: A Citizen's Guide Activity
✽ U	GSC 1100	Water in a Changing World
✽ U	GSC 1120	Earth, Time, and Life
✽ U	GSC 3200	Studies of a Blue Planet
✽ U	GSC 3230	Geomorphology
✽ U	GSC 3230L	Geomorphology Laboratory
✽ U	GSC 3500	Natural Disasters
✽ U	GSC 3600	Hydrogeology
✽ U	GSC 3600L	Hydrogeology Laboratory
U	GSC 4010	GIS Applications for Earth and Environmental Scientists
✽ U	GSC 5340	Quaternary Geology
✽ U	GSC 5340L	Quaternary Geology Laboratory
✽ U	GSC 5450	Advanced Hydrogeology
✽ U	GSC 5450L	Advanced Hydrogeology Laboratory

Kinesiology and Health Promotion

✽ U	KIN 2050	Applied Health & Well-Being
✽ U	KIN 2070	Health and Well-Being
✽ U	KIN 2290	Contemporary Issues in Kinesiology and Health Promotion
✽ U	KIN 2460AS	Introduction to Students with a Disability Service Learning Activity
✽ U	KIN 2700	Stress Management for Healthy Living
U	KIN 3010	Foundations of Exercise Science
✽ U	KIN 3500	Philosophical and Ethical Issues in Physical Education
✽ U	KIN 3510	Philosophical and Ethical Issues
✽ U	KIN 3650	Dimensions of the Aging Process
✽ U	KIN 4080	Drugs and Society
✽ U*/G	KIN 4400	School Health Education
U	KIN 4440	Sport and Film
✽ U	KIN 4450	Social and Historical Perspectives in Kinesiology
U	KIN 4510	Exercise Prescription and Fitness Testing
U	KIN 4520	Injury Prevention and Emergency Care
U	KIN 4520A	Injury Prevention and Emergency Care Activity
✽ U	KIN 4650	Health Promotion Program Planning
✽ U	KIN 4650A	Health Promotion Program Planning Activity

Mathematics and Statistics
✽ U   STA 1300   Biostatistics

Physics and Astronomy
U   PHY 3010   Energy and Society
U   PHY 3020   Physics for Future Presidents

COLLINS COLLEGE OF HOSPITALITY & MANAGEMENT

LEA R. DOPSON, DEAN
MICHAEL GODFREY, ASSOCIATE DEAN

Culinology

✽	U	HRT 1010	Introduction to the Hospitality Industry
✽	U	HRT 2010	Tourism Concepts
	U	HRT 2400	Hospitality Management Law
	U	HRT 2550	Healthy American Cuisine

CONTACT INFORMATION

University Sustainability Coordinator
Monika Kamboures
mkamboures@cpp.edu
(909) 869-6705

Sustainability Student Assistants
Kaila Moraga
kmmoraga@cpp.edu

Arbyn Olarte
aolarte@cpp.edu

Martha Rosario
mnrosario@cpp.edu