

<u>Year</u>	<u>Term</u>	<u>Catalog ID</u>	<u>Title</u>	<u>Course Description</u>
2017	FALL	CEM_X492.41	Biological Principles of Environmental Management	Extensive exposure to contaminants released in environmental and occupational settings can impact human and environmental health. Students will gain an understanding of the biological principles relating chemical exposures to adverse human and environmental health outcomes. Students will also explore current thinking on public and environmental health; environmental risk assessment; environmental risk management and control; and, regulatory perspectives. Students will be able to apply information obtained from toxicological and environmental health studies to the process of assessing, managing and controlling environmental risks. Lectures are supplemented by examples and lessons learned from active and current case studies.
2017	FALL	CHEM_X470	Introductory Chemistry of Hazardous Materials	Covers chemical concepts used in the environmental management courses. Emphasizes the practical aspects of hazardous materials chemistry, including chemical and physical properties, chemical usage in society, and familiarization with common chemical hazards. Explore topics that include chemical naming terminology, periodic table, states of matters, acids and bases, chemical solubility, chemical bonding, understanding and balancing equations, water cycle, and the movement of hazardous materials in the environment. Also useful for people seeking to update formal chemistry training.
2017	FALL	ENGRCEE_X468	Climate Protection and Environmental Sustainability: The Business of Mitigating Climate Change	Climate protection and environmental sustainability requires a systems engineering approach to develop and implement a Strategic Plan for climate protection and sustainable practices. In this course you will explore the forces driving sustainability change, the application of sustainable practices, and be guided through an analysis that will help you develop a vision and plan for implementation. Topics covered include: understanding the forces driving change, developing a Strategic Vision, identifying options and analyzing sustainability solutions, and developing and communicating a Sustainability, Climate Protection, or Impact Reduction Plan. Learn a systems approach to developing a sustainable business or community - whether to affect the bottom line for energy usage, develop new markets, or "Go Green".
2018	WINTER	ENGRCEE_X468.3	Clean Water Program Regulations and Management	Gain an in-depth understanding of the impact and control of water pollution from urban runoff and other human activities. Grasp new insight into the evolving role of comprehensive watershed protection management. Enhance your knowledge of topics that include: review of the permitting and monitoring requirements for construction, industrial, commercial, and residential activities with emphasis on Best Management Practices (BMPs); management of urban runoff from the facility, community and watershed perspectives; Low Impact Development (LID); Hydro-modification Plan (HMP); receiving waters Total Maximum Daily Loads (TMDLs); and the roles of education and enforcement in the successful management of urban runoff pollution. A field trip provides hands-on, practical experience utilizing BMPs.
2018	SPRING	ENGRCEE_X468.5	Assessment and Remediation of Environmental Contamination	Explore the introduction of the issues relevant to the investigation and management of contaminated sites, emphasizing problem diagnosis/characterization and the development of site remediation and restoration. This includes methods for the development of site restoration tasks, methods for evaluating the progress of corrective action programs, and the application of risk assessment methods as a decision-making tool. The focus is to synthesize technically sound principles and techniques that can be applied globally to contaminated sites in different regions of the world.
2018	SPRING	ENGRCEE_X499	Applied Dynamic Modeling for Wastewater Treatment Plant Efficiency	Through a combination of theory and case study applications, the course provides practical experience on how to apply dynamic modeling simulators to design, operate, and optimize wastewater treatment plants. Particular emphasis is placed on turning plants into water resource recovery facilities by generating energy, fertilizers, and water for reuse. During the course, participants will have full-time access to a dynamic simulator, so they can implement themselves strategies and evaluate their operational costs. Energy savings and generation of electricity with biogas receive particular attention. Modeling calibration techniques are taught and implemented to achieve effluent quality standards.
2018	SPRING	ENGRMAE_X422	Air Quality Permitting and Compliance	Gain an in-depth understanding of SCAQMD air quality permitting and regulatory compliance as applied to Industrial and Government facilities. Explore the responsibilities and regulations of air quality management agencies on federal, state and local levels. Prepare for the SCAQMD Certified Professional Permitting exam. Get instruction in permit application preparation and examine issues related to permitting and compliance such as identifying and quantifying emissions, calculating air toxic health risks, and determining rule compliance. Learn about the Federal Clean Air Act revisions (including Title V), the California Clean Air Act, AB 32 Greenhouse Gas Legislation, and the SCAQMD RECLAIM Program.
2017	FALL	SOCECOL_X497	Chemical and Physical Principles of Environmental Management	Enhance your knowledge of the application of physical and chemical principles to solving environmental problems. Gain new insight into the scientific process as used in environmental management. Learn an interdisciplinary approach using chemistry, physics, geology, meteorology, bioremediation and engineering principles to identify, evaluate and manage multi-media environmental problems. This course will be of interest to those who have some background in science, but not necessarily a focus on the physical sciences.

2018	WINTER	SOCECOL_X498.1	Legal and Regulatory Framework for Environmental Management	Enhance your understanding of the state and federal legal and regulatory system as it relates to environmental management. Increase your knowledge of topics including: the legislative and regulatory history of major environmental programs at the federal, state and local levels; principals of land use governance; hazardous materials rules; air and water quality regulations; the permitting process; natural resource protections, and other elements of the environmental legal and regulatory framework. Additionally, we will look at the public and private “players” in this arena and the essential roles they play in establishing environmental policy and crafting and implementing law and regulations.
2018	WINTER	SOCECOL_X498.10	Introduction to Environmental Assessment and Auditing	Enhance your knowledge of the basic principles of environmental assessment and auditing. First, learn about the ASTM process for performing Phase I Site Assessments. Explore topics that include site inspection, environmental historical review process, governmental database review, and report preparation. Then learn the basic concepts of performing Phase II site assessments and risk assessments. Conclude with a review of compliance auditing processes and gain new insight into the audit process as it relates to regulatory compliance audits and EPA involvement.
2018	SPRING	SOCECOL_X499.8	Sustainability & Green Initiatives for Environmental, Safety & Facility Professionals	Gain an understanding of how organizations are taking responsibility for the impact of their activities on employees, customers, communities, and the environment. Learn how to manage interdisciplinary relationships within an organization to develop and implement workplace programs that encompass initiatives supporting corporate social responsibility (CSR), sustainability, and green initiatives. Learn a practical approach to applying CSR and sustainability principles, and presenting data to decision makers for maximum impact. Enhance your knowledge of topics that include: elements of CSR and sustainability programs; organizational impact and risk factors; voluntary and regulatory initiatives; certification and special interest systems; environmental impact analysis; and methods and resources to solve problems.
2018	SPRING	ANTHRO_X497.36	Communicating Across Cultures	Examine intercultural communication in today’s global and diverse workplace. Verbal and nonverbal communication across cultures as well as culture cues will be explored.
2017	FALL	EDUC_X393.3	Cultural and Socioeconomic Diversity	Contemporary issues of cultural and socioeconomic diversity in public education. Ethnic, racial, and religious composition of the State and local community. Concepts of cultural values and language diversity. Programs and procedures for meeting instructional needs of limited English proficient pupils. Principles and procedures for involving the family in school activities.
2017	FALL	ENGRMAE_X429.1	Principles of Heating, Ventilation, Air-Conditioning (HVAC)	Gain practical knowledge on heating, ventilation, air-conditioning and refrigeration systems as applied to building comfort systems. Enhance your knowledge of all aspects of HVAC-R systems. Explore topics that include: thermodynamics, psychrometrics, forced air and hydronic heating systems, LEED certification levels, and current issues regarding building sustainability. Facilities managers, building engineers, and maintenance and service mechanics will find this course of interest.
2017	FALL	I&C SCI_X425.70	Big Data Analytics	“Big Data” is a reality in many industries. Very large databases of more than 100 petabytes are becoming more common with data storage and reporting technology becoming faster and easier. Successful users of big data, like Wal*Mart, Amazon, Google and others harness data in ways simply impossible 15 years ago. This course will begin with a review of some case histories of big data use. Basic elements of successful big data implementation will be covered as well as a review of commercially available tools and technology. A focus will be placed on value opportunities in online marketing, search optimization and site performance modeling. Other topics covered in the course will include database architecture as related to knowledge discovery and evaluation of the relative merits of normalized relational databases, report-oriented dimensional designs, and unstructured SQL-free systems. All students across the business, technical, and analytic spectrum are welcome.
2017	FALL	I&C SCI_X425.80	Introduction to Big Data	Web 2.0 has changed the way we conduct business. It affects consumer interactions, information sharing, success measurement in terms of business revenue and customer wallet share, and brand management. Most importantly, it has created a revenue channel like none other. Personalization of products and services by enterprises have increased data volumes and the velocity of data production while creating a variety of data formats. We are now well and truly in the world of Big Data. The key value of this data is the vast amount of intelligence that can be found when data is modeled with geographic and demographic information. This introductory course will help students navigate through the complex layers of Big Data and Data Warehousing while providing information on how to effectively think about using these technologies and architectures to design the next-generation data warehouse. Concepts covered include an introduction to Big Data, discussion of Big Data Processing Architectures, explanation of the integration of Big Data and Data Warehouses, and fundamentals of Big Data Analytics. Examples will be used to step students through an implementation of a Big Data solution.
2018	SPRING	LAW_X412	Public Policy Making Academy II	Acquire a depth of knowledge in a variety of complex, public policy and governance issues to become a well-informed civic servant. Study the inner workings of transportation, land use, housing, public utilities, state and local taxes and economic development both locally and regionally. University students, local government employees, and individuals interested in local government policy making or running for city elected office are encouraged to enroll. This course is offered in collaboration with the Association of California Cities – Orange County.

2018	WINTER	MED_X413.41	Good Laboratory Practices	Increase your understanding of the processes of application and compliance with FDA's Good Laboratory Practice (GLP) regulations for the conduct of animal/in-vitro (non-clinical) safety studies. Learn about sponsor obligations and important considerations to evaluate a contract laboratory. Develop new insights into topics that include: the applicable regulations from the Code of Federal Regulations (CFRs), and their history, typical methods of compliance, process of GLP integration into the drug/device/biologic development process, ethics pertaining to animal care and use, applicable Quality Assurance (QA) and Quality Control (QA) processes, GLP documentation management, and the FDA's GLP Inspection program. Gain an overview of the changing scope of the GLP regulations as well as its impact on biomedical research, and the future trends.
2018	WINTER	MGMT_X407.10	Ethics in Contracting	Explore the field of ethics in the federal, commercial, and international business sectors. The contracts professional interacts with colleagues, customers, suppliers, governments and the public at large - this course will examine historical events which have highlighted the need for ethics in contracting. Subjects to be examined range from "Why Study Ethics?", specific ethical topics for each sector being explored, and development of skills to increase the organization's ethical sensitivity.
2018	WINTER	MGMT_X426.61	Fundamentals of Global Wellness and Spas	According to studies commissioned by the Global Wellness Institute, wellness, and wellness tourism in particular, is a trillion-dollar mega-industry that is undergoing rapid growth. While wellness services are offered in many diverse settings, spas of all kinds are the obvious place to offer wellness-based services and programming for both guests and team members. Many are seeking to add a variety of Complementary, Alternative and Integrative Therapies to their menus, yet, figuring out the prescription for success can be complicated. This course walks you through each step of crafting a Wellness Business Plan to help your spa earn healthy profits while promoting health to the world.
2018	SPRING	MGMT_X442.7	Leadership for Facilities Professionals	Facilities managers manage both facilities operations and personnel. Gain practical knowledge that can be used on the job to enhance your leadership skills and improve productivity. Explore topics that include: a supervisor's role within an organization, verbal and written communication skills, problem-solving techniques, managing a budget, strategic planning, ethics, and team development. If you supervise or manage within a facilities management organization or in an environment where technical, professional, or trades people are working, this course is for you.
2017	FALL	MGMT_X461.38	Portfolio and Lifecycle Management	Examine the marketing concepts and managerial tools essential for maximizing revenue and profit growth throughout a product's lifecycle. Review ways in which older products must be pruned and newer products positioned and priced relative to existing products. Explore how to effectively manage a product or service lifecycle to uncover a wealth of business, environmental and social benefits.
2018	WINTER	MGMT_X470.2	Supply Chain Management Strategy	Supply chain management operates at three levels; strategic, tactical and operational. At the strategic level, company management makes high level strategic supply chain far-reaching decisions that are relevant to the entire organization. The decisions that are made with regards to the supply chain should reflect the overall corporate strategy that the organization is following. The strategic supply chain processes that management has to decide upon will cover the breadth of the supply chain. These include product development, customers, manufacturing, vendors and logistics. This course focuses on the supply chain strategic methodologies and best practices.
2018	SPRING	MGMT_X470.3	Supply Chain Management Tactics	Tactical decisions about supply chain should focus on producing cost benefits and should coincide with an organization's overall operational plan. Learn how to maintain good long-term buyer-seller relationships. Supplier management best practices in the areas of just-in-time inventory, logistics, and handling emergency situations and special requests will be explored.
2018	SPRING	MGMT_X475.25	Global Aspects of Team Leadership	Today, many companies in all industries and verticals have workers dispersed around the globe. Project teams often have members in geographically diverse locations, which creates project management challenges. This course teaches you how to lead a culturally and geographically diverse team taking into consideration different time zones and geographic locations, cultural norms, working styles, and educational backgrounds. You'll also explore tools and techniques for managing a virtual team.
2018	WINTER	MGMT_X481.4	Requirements Lifecycle Management	The business analyst role requires additional skills and expertise in communicating technical concepts to others from different professional groups, hierarchical positions, or internal departments. This course covers how to advocate ideas upward through more effective issue analysis and argument selection, organize your thoughts and ideas to create effective and compelling technical presentations, inspire the need for urgency in decision-making and separate a real opportunity from a resource drain. Course includes role-plays, activities and interactive discussions.

2017	FALL	MGMT_X494.8	Financial Analysis for Facility Professionals	Financial management skills are a must have in a facilities management career in our current economic environment. This course will not only guide you through the basic terminologies and tools, it will enhance all the talents you currently bring while educating you thoroughly to perform financial analysis with a facility management twist. You will reap the benefits of being able to comprehend and perform financial analysis through practical experience with real life financial analysis scenarios. Acquire the skills that can help you reason, process, develop and present both an operating and capital budget along with analysis to help you sell your projects, such as: Payback, Life-Cycle Costing, Return on Investment (ROI), Return on Assets (ROA), Net Present Value (NPV), and Present Value (PV). You will also explore alternative financial analysis strategies to assist in establishing cost effective practices.
2017	FALL	POL SCI_XI21A	Introduction to American Government	This course is an introduction to American political processes and institutions. Topics covered include elections, political participation, parties, interest groups, the Presidency, Congress, the bureaucracy and the judiciary.
2017	FALL	SOC SCI_XI1A	Principles in the Social Sciences	This course is an introduction to various disciplines within the social sciences. It provides an interdisciplinary perspective on understanding human behavior and social institutions, including interpersonal, economic, political, and cultural activities.
2017	FALL	SOCECOL_X497.1	Project Management Essentials for Facilities Professionals	To grow your career, today's employee must develop skills, knowledge and abilities with up-to-date Project Management standards to effectively manage projects. No matter your role and responsibilities within your organization or the type of company, this course will walk you through real world Project Management fundamentals, techniques, methods and essential tools to achieve organizational results. Most growing organizations rely on Project Management process to expand their services and products to grow the bottom line. Introduction to Project Management Organizational Influences and Project Life Cycle Project Management Processes Project Integration Management Project Scope, Time and Cost Management Project Quality Management Project Human Resource Management Project Communication Management Project Risk Management Project Procurement Management
2017	FALL	SOCECOL_X499	Fundamentals of Facilities Management	Increase your understanding of Facilities Management with an overview of the principle duties of a facility manager. Learn the practical applications that will help you understand the business aspects of facilities management. Gain an understanding of the diverse responsibilities and decision-making processes from building infrastructure to fleet services. Acquire the insight needed to meet budget restraints while improving productivity, efficiency, and employee quality of life issues.
2018	WINTER	SOCECOL_X499.1	Facilities Design and Space Planning	Master the successful applications of facilities design and space planning in an accelerated program of instruction. This course will provide important tools for defining project requirements, developing design strategies, implementing organizational philosophies and methodologies, and understanding the Project Development Process. Acquire these skills while participating in "hands-on" class exercises using industry standard design practices and MS Visio™ product. Gain the knowledge that will help you increase your confidence as a project leader and assure the success of your future projects. Whether you are managing multiple, small departmental relocations or anticipating a large project, these professional skills will assure you greater success.