Classes

Class Title	Professor / Lecturer	Info	School // Department	Link
Introduction to Real Estate Development	Mark Kroll & Jeff Birdwell	This course will offer students an introduction to Real Estate Development. Senior Principals from Sares Regis, a regional commercial and residential real estate development company, will cover topics on all aspects of the development process. Guest speakers from the fields of architecture and engineering, finance and marketing will participate in some of the classes. They will offer the students a window into the world of how houses, apartments, office buildings and public facilities are conceived of, brought through the design and approval process, financed, marketed and then sold and/or rented. There will be nine 1.5-hour lectures (robust class discussion encouraged). Throughout the quarter, the students will work on a group case study assignment about one local project that is currently being built or was recently completed. This assignment will be due in the form of a presentation during the final exam period. No prior knowledge of real estate is required.	Civil and Environmental Engineering	Click Here
Real Estate Investment	Douglas Abbey & Chris Mahowald	The major objective of this course is to provide the student with an understanding of the fundamentals of real estate investment. The course covers land economics, market analysis, finance, taxation, investment analysis, investment vehicles, real estate risk, development and urban design. Major land uses are discussed including apartments, retail, office, and industrial. The course is designed for students with limited or no background in real estate.	GSB	Click Here
Real Estate Transactions and Commercial Development	David Kleiman	Real Estate Transactions and Commercial Development examines the structuring, negotiation and documentation of commercial real estate transactions. Working both individually and in groups, students will learn the requisite skills for drafting and negotiation leases, letters of intent, sale contracts and related financing documents. As time permits, development-related matters will be explored, including the legal aspects of site acquisition, design and construction. Classes will be a mixture of lectures, interactive discussions, and several mock negotiations. Elements used in grading will include Class attendance, individual and group project participation, and written assignments.	Law	Click Here
Real Estate Development and Finance	Nelson Koen	Introduction to the Real Estate Development Process from conception, feasibility analysis, due diligence, entitlements, planning, financing, market analysis, contract negotiation, construction, marketing, asset management and disposition. Pro-forma and Financial modeling in Real Estate. Financing options for different types of Real Estate projects and products. Redevelopment projects. Affordable Housing. The class will combine lectures, case studies, field work (Group Project) and guest speakers. Recommended knowledge of spreadsheets. Prerequisites: Engineering Economy or CEE 246A or similar. Attendance to the first class is mandatory.	Civil and Environmental Engineering	Click Here
Real Estate Finance Seminar or Real Estate Career Development Seminar	Nelson Koen	Real Estate Development and Finance presented by industry guest speakers. Executives from different Real Estate companies will give an overview of their business and projects. (Residential, Retail, Commercial, Mixed Used, REITs, Redevelopment Projects, Affordable Housing, public and private real estate companies, real estate funds, etc.). Short Real Estate Case Studies will be given as homework. Two optional field trips. Attendance to the first class is mandatory.	Civil and Environmental Engineering	Click Here

Introduction to Urban and Regional Planning	Marisa Raya	An investigation into urban planning as a democratic practice for facilitating or mitigating change in society and the built environment. We will engage in professional planning practices in focused sessions on transportation, design, housing, environmental policy, demographic research, community organizing and real estate development. Strong emphasis on developing an understanding of the forces that shape urban and regional development, including cultural trends, real estate and labor economics, climate change and the environment, and political organizing and power dynamics.		Click Here
Sustainable Cities	Deland Chan	Service-learning course that exposes students to sustainability concepts and urban planning as a tool for determining sustainable outcomes in the Bay Area. Focus will be on the relationship of land use and transportation planning to housing and employment patterns, mobility, public health, and social equity. Topics will include government initiatives to counteract urban sprawl and promote smart growth and livability, political realities of organizing and building coalitions around sustainability goals, and increasing opportunities for low-income and communities of color to achieve sustainability outcomes. Students will participate in team-based projects in collaboration with local community partners and take part in significant off-site fieldwork. Prerequisites: consent of the instructor.	Urban Studies	Click Here
Architectural Design Lecture Series Course	John H. Barton	Seminar will be a companion to the Spring Architecture and Landscape Architecture Lecture Series. Students will converse with lecturers before the lectures, attend the lecture, and prepare short documents (written, graphic, exploratory) for two of the lectures. The course meeting dates will correspond with the lecture dates listed below.nApril 12: Kai-Uwe Bergmann of BIG; April 26: Olle Lundberg of Lundberg Design; May 10: Ma Yansong of MAD Architects; May 24: Thomas Woltz of Nelson Byrd Woltz; June 8: Gregg Pasquarelli of SHoP Architects.	Civil and Environmental Engineering	Click Here
Industry Applications of Virtual Design & Construction	Calvin Kam	Building upon the concept of the VDC Scorecard, CEE 112A/212A investigates in the management of Virtual Design and Construction (VDC) programs and projects in the building industry. Interacting with experts and professionals in real estate, architecture, engineering , construction and technology providers, students will learn from the industry applications of Building Information Modeling and its relationship with Integrated Project Delivery, Sustainable Design and Construction, and Virtual Design and Construction. Students will conduct case studies to evaluate the maturity of VDC planning, adoption, technology and performance in practice. Students taking 3 or 4 units will be paired up with independent research or case study projects on the industry applications of VDC. No prerequisite. See CEE 112B/212B in the Winter Quarter and CEE 112C/212C in the Spring Quarter.	Civil and Environmental Engineering	Click Here
Activating Urban Spaces	Johanna Taylor	This course will look at how public urban spaces are structured with a particular eye to the involvement of art and artists, whether formally or informally, in shaping the built and social environment of the city. Throughout the course particular focus will consider the possibilities for engaging social justice outcomes through spatial intervention drawing on examples from around the world. Interventions in urban spaces enact local change by making art the language of civic engagement; in this way a mural or performance or reconceptualized public space can become a method to address issues of locally prioritized inequality. We will use Stanford University and the Bay Area as our local research sites, making trips into the field to analyze methods, approaches, and experiences of urban spaces in action as well as bringing experts who work in related fields into the classroom. Sites of study include parks, public art, and street festivals by looking at arts organizations, city projects, community groups, and individual artists. The class will operate as a hybrid seminar and collaborative studio workspace which supports students in using ethnographic, visual, mapping, historical, and participatory methods in developing projects that respond to a particular site of their choosing.	Civil and Environmental Engineering	Click Here
Global Infrastructure Projects Seminar	Brian Sedar & Alex Ilana Nutkiewicz	Nine current global infrastructure projects presented by top project executives or company leaders from industry. Water, transportation, energy and communication projects are featured. Course provides comparisons of project development, win and delivery approaches for mega-projects around the world. Alternative project delivery methods, the role of public and private sector, different project management and construction strategies, and lessons learned. The course also includes field trips to local mega-projects.	Civil and Environmental Engineering	Click Here

Network Analysis for Urban Systems	Rishee Kumar Jain	This course will introduce and develop the mathematical theory of networks, metrics of networks, static and dynamic network models and apply them to analysis of urban systems. Students are expected to have a strong background in calculus and linear algebra before taking this course and should be comfortable with the calculation and manipulation of matrices. Experience in a numerical scripting language (preferably Python, R or Matlab) is necessary for the final project. Coursework will consist of weekly graded problem sets pertaining to both theory of networks and applications to urban systems. There will be a final project where students will be required to apply network based methods to the analysis of real data of an urban system. (subject to change)	Civil and Environmental Engineering	Click Here
Place-Making Policies	Clayton Nall	This reading and research seminar considers the numerous ways that governments conduct social policy by shaping and remaking geographic places. Representative topics include: housing aid programs, exclusionary zoning, controls on internal migration and place of residence, cars and their place in cities, and the politics of western water projects. Students will conduct original field research on the consequences of these policies for economic, social, and political outcomes. Prerequisites: None.	Urban Studies	Click Here
Civic Dreams, Human Spaces: Urban Design with People	Deland Chan & Kevin Fan Hsu	Intensive two-week studio explores the principles underlying vibrant public spaces. Use observation and prototyping tools to inform the process of urban development. Decode public spaces from multiple perspectives: as sites of recreation, interaction, and political contention; as physical infrastructure that municipalities or grassroots citizen groups build and maintain for the common good; and as places with intangible qualities, such as historical memory, identity, and personal stories. In addition to on-campus meetings, this course requires immersive fieldwork in the City of San Francisco, including two weekend overnight stays and the opportunity to re-imagine the design and use of public spaces with local partners. Enrollment by application only. Find more info and apply at dschool.stanford.edu	Urban Studies	Click Here
Defining Smart Cities: Visions of Urbanism for the 21st Century	Deland Chan & Kevin Fan Hsu	In a rapidly urbanizing world, "the city" paves the way toward sustainability and social well-being. But what does it mean for a city to be smart? Does that also make it sustainable or resilient or livable? This seminar delves into current debates about urbanism through weekly talks by experts on topics such as big data, human-centered design, new urbanism, and natural capital. How urban spaces are shaped, for better or worse, by the complex interaction of cutting-edge technology, human societies, and the natural environment. The goal is to provoke vigorous discussion and to foster an understanding of cities that is at once technological, humanistic, and ecologically sound.	Urban Studies	Click Here
Utopia and Reality: Introduction to Urban Studies	Anna Boch, Michael Hahn	Designed for freshmen and sophomores. Introduction to the study of cities and urban civilization focusing on the utopias that have been produced over time to guide and inspire city-dwellers to improve and perfect their urban environments. History of urbanization and the urban planning theories inspired by Ebenezer Howard, Le Corbusier, Frank Lloyd Wright, the New Urbanists and Smart Growth advocates that address current issues such as urban community dynamics, suburbanization, sustainability, and globalization. Public policy approaches designed to address these issues and utopian visions of what cities could be, or should be, in the future. Topic of the final paper chosen by the student, with consent of instructor, and may be a historical research paper, a policy-advocacy paper, or a proposal for an urban utopia that addresses the challenges and possibilities of urban life today.	Urban Studies	Click Here
The Urban Underclass	Michael J Rosenfeld	(Graduate students register for 249.) Recent research and theory on the urban underclass, including evidence on the concentration of African Americans in urban ghettos, and the debate surrounding the causes of poverty in urban settings. Ethnic/racial conflict, residential segregation, and changes in the family structure of the urban poor.	Urban Studies	Click Here