

## **CMC and Joint Science Spring 2010 New/Revised Undergraduate Courses**

### **BIOL084LJT: Genetic Engineering & Biotechnology**

This course will introduce students to molecular concepts and techniques underlying the evolution of genetic engineering for commercial purposes including pharmaceutical development/production, cloning, tissue generation, genetic testing, and biological enhancement. Through discussing primary experimental papers and case studies, students will be introduced to the scientific method, and the promises, limitations, pitfalls, and ethical concerns in various biotechnology-dependent fields. The laboratory will introduce students to basic genetic engineering techniques and illustrate molecular principles discussed in class. Satisfies CMC Biological Science GE requirement.

### **BIOL163LJS: Plant Physiology & Biotechnology**

This course will provide a basic understanding of plant physiology and plant biotechnology. It will cover plant structure and functional relationships at many levels, including the whole plant, plant tissues, isolated cells and organelles. It will include water relations, respiration, photosynthesis, nitrogen fixation, plant hormones and plant molecular biology. Prerequisites: Biol 43 & 44, Chem 14 & 15.

### **CHEM174L JS – Solution Thermodynamics**

This course applies the laws of chemical thermodynamics to liquid solutions with particular emphasis on volumetric and refractometric studies. It includes both lecture and laboratory. For the latter, the students will use an Anton Paar density meter and refractometer to complete research projects devised by the instructor. Students will be required to present their findings in written form. Prerequisite: Chemistry 121. One half course credit.

### **ECON171 CM – Environmental Economics**

The course explores the economic foundations for public decision-making regarding environmental quality utilizing tools from intermediate microeconomic theory. The course examines the role of the environment within the theory of market failure with particular focus on public goods, externalities, and asymmetric information. Economic incentive-based approaches to correcting environment-related market failures including pollution taxes, cap and trade programs, liability, and information disclosure requirements are emphasized. The course also examines the process of benefit-cost analysis and related methods for valuing improvements in environmental quality. Prerequisite: Econ101.

### **ECON173 CM – Economic Development**

This course surveys contemporary economic thinking as to why some countries are poor and others are rich and how underdeveloped economies function. This course will explore the conditions under which markets fail and investigate the role of government intervention as a means to correct such failures. The course will examine five main topics: growth and development; poverty and inequality; the role of institutions; formal and informal financial markets; and investment and trade. Prerequisite: Econ101.

### **FREN148 CM – Special Topics in French: Imagining the Modern City**

The city plays an important role in many literary works of the 19th and 20th century. Ever since the massive transformations of urban space occasioned by the industrial revolution, the modern city is no longer treated as mere “background” or “setting” and becomes a main object of investigation for novelists and poets alike. The development of the realist novel and the prose poem are thus closely related to the fresh need to chronicle and explore the every day of a capital city that has become increasingly mysterious to its own inhabitants. In this class, we will examine how the city has been imagined in various writings. Starting with Balzac’s representation of Paris as a locus of power, corruption and social inequality, we will trace key developments in the reconfiguration of urban space, such as the Haussmanization of Paris in Baudelaire’s poems and the advent of the department store in Zola’s *Au Bonheur des dames*. We will study how writers document and respond to such changes, and what forms of subjectivity emerge from their fictions of urban space. Writers will include: Balzac, Baudelaire, Zola, Apollinaire, Breton, Aragon, and Perec. Prerequisite: French 44 or equivalent.

### **GOVT123C CM – Evangelicals and American Politics**

Once at the center of political and cultural life, evangelicals were objects of ridicule by the 1920s. Many responded by withdrawing into something like a religious ghetto. Today, however, evangelicals are once again at the very center of American political and cultural life. This course will explore these developments and the sometimes contentious relationship between evangelicals and the wider society. It will especially scrutinize the ways in which evangelicals have both contributed to and reacted against the cultural and social upheavals of the 1960s. We will further ask whether these developments have contributed to the health of American democracy. Have American evangelicals, for example, contributed to a democratic culture that depends on thoughtful deliberation over the good society or have they undermined common democratic values by seeking a theocratic republic? More generally, what should be the proper relationship between religion and democracy?

### **GOVT144D CM – Democracy in Developing Countries**

This seminar explores the various underlying factors associated with the emergence of democratic political institutions in developing countries as well as analyzes representative cases of transition to democracy in the last century. Students are encouraged to critically examine theories of democratization and question their relevance to the actual historical cases. The seminar intends to generate lively discussions among students and between the students and the instructor on the most important questions about how democratic institutions emerge, evolve, and consolidate themselves in countries that do not necessarily have the most hospitable conditions for such institutions. The reading assignments and classroom discussions should enable students to have a comprehensive, albeit basic, understanding of the theoretical literature on democracy in general, on the relationship between democratic institutions and government performance, on variations of democratic institutions, on the causes of the breakdown of democracy, and on democratic assistance from external actors.

### **GOVT173C CM– Russian Politics**

This course provides an in-depth study of Soviet and post-Soviet Russian politics. The course begins with an analysis of the Communist system and analyzes the nature of the regime, its sources of legitimacy and sustenance, and the reasons for the system's decline. The course then examines Russia's post-Soviet period in order to understand the successes and failures within political and economic liberalization. In this course, we will examine the transformation of political institutions, national identities and economic systems that followed from the collapse of the Soviet system. While this course reviews the main historical events in Russian politics, the main focus of the course is to evaluate Russian political developments within the context of theories in political science on democratization, national identity, and the role of ideology in political and economic regime change. The course concludes with a special focus on Russian energy politics and the evolution of Russian foreign policy toward Eastern Europe and the "Near Abroad."

### **HIST101 CM - History of the American Right**

The power and potency of American conservatism, broadly defined, is an indisputable fact of contemporary politics. This course offers students an introduction, through scholarly works, popular culture, and other primary sources, to the broad historical inquiry into the modern Right. We will study the men and women, who over the course of the last 80 years refashioned American politics. Students will encounter leading economists, anti-Communists, conservative intellectuals, suburban homeowners, Republican women activists, evangelical Christians, journalists, and leading political figures.

### **HIST112 CM - American Capitalism and Society**

Business, whether big or small, is a vital part of modern US history. This course is a history of business in the broadest sense: we will consider the rise and fall of different economic sectors and individual firms but also explore the larger dynamics of the American economy, including the shift from proprietary to corporate to global corporate capitalism (from railroads, to assembly lines, to department stores, to Starbucks, and to Google) and also the complex interplay between business, labor, politics, and society.

### **HIST158 CM – Japanese Empire: Korea, China, Taiwan, and Manchuria**

This class looks at how Japan became an imperial power in East Asia and how this development impacted those affected by Japanese rule, including Korea, China, Taiwan and Manchuria. More than just examining the political and military trajectory of Japanese imperialism, this class specifically looks at how Japanese imperialism spurred on and produced changes in the areas of economics, society and culture and how people in the controlled areas responded to these changes. This class, in particular, seeks to trace why and how people in Korea, China, Taiwan and Manchuria sought to forge new ideologies, customs and practices to not only deal with Japanese imperialism, but also modernity.

### **HIST196 CM - U.S. Political History**

This course introduces students to a more focused study of modern U.S. politics and the general craft of writing history. Topics will include internal party politics, presidential politics, electoral politics, foreign and domestic policies, and a look at California's own quixotic politics. At the end of the course, students will have encountered a broad sweep of literature on twentieth-century U.S. political history, visited at least one archive, completed a substantial research paper utilizing primary and secondary sources, and prepared an oral presentation of their work.

### **ID 150 CM – Special Topics in Interdisciplinary Studies: African Contemporary Voices**

“This course is designed to provide an introduction to, or better understanding of, some of the most significant novels and other literary works by Anglophone and Francophone writers from African in recent years. Topics include: Home & Exile, Rwandan genocide, Truth & Reconciliation, Testimonies, Migration, Cosmopolitanism.” Also listed as AFR1150 AA.

### **MATH035 CM – Introduction to Pure Mathematics**

This course provides a conceptual overview of modern mathematics from a pure mathematics perspective. Basics of set theory, vector spaces, groups, complex numbers, infinite series, limits, topological spaces, surfaces, knots, and links. This course meets the general education requirement in Mathematics at CMC.

### **LIT 099 CM - Literature and the Open Society**

The course will consider the writing of Walt Whitman and his democratic legacy in relation Henry Wadsworth Longfellow and his European inheritance, particularly Dante. The focus will be on what made Whitman so different with his endless varieties of openness as exemplified in his poetic form and political probings. A number of authors will be considered from Tocqueville and Thomas Payne to Robert Frost, Charles Steinbeck, and Karl Popper.

### **PSYC162 CM – Seminar in Remembering and Forgetting**

Change in pre-requisite: from PSYC109 to “one previous course in Psychology”

### **PSYC189 CM–Seminar in Clinical Psychology with Practicum**

This seminar and practicum course will investigate diagnosis, assessment, and treatment in clinical psychology. It will explore the scientific knowledge that clinical psychologists have developed in these areas as well as critically examine existing weaknesses.

Additionally, areas of concern in clinical psychology will be discussed, including: the use of the DSM-IV-TR, how to effectively differentially diagnosis, issues with psychological testing, the problems inherent in the assessment and treatment of individuals for diverse backgrounds, and the validity of psychotherapy outcome research. The course is designed for upper level psychology majors who are contemplating a career in clinical psychology, and Abnormal Psychology (psych 70) is a prerequisite for this class. Additionally, this course includes a practicum component where the student will work in a clinical setting 10 hours a week over the course of the semester.

### **RLST116 CM – Asian American Religion**

This course explores the role that religion has played in shaping Asian American identity and community through processes of immigration, discrimination, settlement, and generational change. It will analyze how Asian Americans make sense of their Buddhist, Hindu, Sikh, Muslim, Protestant and Catholic identities, and how their faith communities have been sites of unity and division in the struggle for social change. This interdisciplinary course will draw from historical, sociological, cultural studies and religious studies sources and examine how race and religion shape discussions of gender, sexuality, violence, transnationalism and popular culture in Asian America.