Goucher College 2020-2021 CTFP Opportunities

Program coordinator: Dr. Judy Levine, Professor of Biological Sciences and Chemistry
jlevin@goucher.edu; 410-337-6525

Goucher College offers unpaid CTFP opportunities across a variety of courses in the sciences and beyond. Graduate student and postdoctoral applicants are welcomed. In their CTFP application, candidates should mention specific courses of interest to them. Commitment is for one semester.

The courses listed below are ones whose instructors have expressed interest in working with a teaching fellow. It is possible that additional instructors would be open to the idea if they knew a candidate was interested in their course. For a full listing of courses, see http://catalog.goucher.edu/.

The class meeting times shown below are for informational purposes only. The type of participation and time commitment by the teaching fellow are negotiable between the fellow and the instructor. Also, the mode of course delivery (in person, online synchronous, online asynchronous, HyFlex) is at the discretion of individual instructors during the pandemic.

FA20 semester (8/24/20 – 11/18/20):

CENTER FOR NATURAL SCIENCES:

BIO 210 (Cell Biology and Biochemistry) (labs T or Th 8:30-11:20 AM or 1:30-4:20 PM; instructors: Judy Levine and Jenny Lenkowski)
Study of the smallest unit of life focusing on the molecular characteristics of cell components that determine cell behavior. Topics include the composition and structure of the cell membrane, cytoplasm, and organelles in relation to transport, communication, metabolism, division, and locomotion. The models used to explain cell structure, function, and evolution are evaluated in terms of results from selected experiments. [This course is required for biology and BCMB majors and is typically taken during sophomore year. Role of teaching fellow will primarily be in the lab component.]

CHE 111 (Principles of Chemistry I with Lab) (meets MWF 8:40-10:30 AM or 2:40-4:30 PM; instructors: George Greco; Jaired Tate)
Introduction to chemistry including atomic structure, molecular structure, bonding, chemical reactions, and states of matter. Taught in studio format with integrated lecture and lab.

CHE 230 (Organic Chemistry I) (lecture MWF 9:20-10:15 AM, labs T or Th 8:30-11:20 AM or 1:30-4:20 PM; instructor: Kevin Schultz)
Chemistry of the compounds of carbon with emphasis on the relation of molecular structure to chemical and physical behavior. Laboratory work includes appropriate techniques and synthetic and analytical methods. Three hours lecture, three hours laboratory. [This is the standard 1st semester orgo taken by chem majors, bio majors, BCMB majors and pre-meds.]

FYS 100E (First Year Seminar: Alternative Energy for Everyone) (meets TuTh 11:30-1:20 PM; instructor: Ruquia Ahmed-Schofield)
This is a lecture/laboratory hybrid course designed to provide an appreciation and in-depth understanding of alternative energy. Topics will be taught in an interactive environment and will include hands-on activities/projects in the construction of selected devices related to alternative energy. As the title implies, this class is designed for everyone, which includes both science and non-science students; the one pre-requisite is an interest in the topic.

CENTER FOR PSYCHOLOGY:

PSY 233 (Sensation and Perception) (meets MWF 12-1:10 pm; instructor: Tom Ghirardelli)
This course is a survey of current theory and research in perception. The primary goal is for students to gain an understanding of how people obtain reliable and useful information about the environment around them through their senses. Exploring several perceptual systems, including vision, audition, touch, and smell and taste, we will cover topics such as the physiological structure of sensory systems; how we measure perceptual experience (e.g., psychophysics); the role that attention plays in our perceptual experience; how our overall perceptual experience results from integration across multiple sensory systems; and how our sensory systems and perceptual experience are similar to and different from that of non-human animals. [This course is an elective for psychology majors and minors.]
PSY 244 (Lifespan Developmental Psychology) (meets MWF 12:15-1:30 PM; instructor: Katherine Choe)
A lifespan approach tracing human development from conception through the life cycle until death. Important theoretical contributors are highlighted, including Freud, Erikson, Bowlby, Piaget, Chomsky, Kohlberg, and Kubler-Ross. Topics will include prenatal development, language acquisition, the formation of emotional bonds in relationships, personality and identity development, changes in family and work roles, and the experience of facing one’s mortality. [This course is an elective for psychology majors and minors.]

PSY 302 (Quantitative Research Methods in Psychology) (meets MWF 9:25-10:40 AM; instructor: Katherine Choe)
This course will address the overall process of psychological research from the development of a research question to the presentation of research results. Topics to be covered include the role of theory in the scientific method, research design, various collection techniques and analytic strategies for quantitative empirical data, and ethical considerations. Students will develop skills in scientific writing (APA style) and critically reading and reviewing the literature. The course will require statistical analysis of research data and interpretation of the results. [Psychology majors are required to take this course or a course in qualitative research methods.]

CENTER FOR THE STUDY OF MODERN LANGUAGES, LITERATURES & CULTURES:

FR 133 (Intermediate French) (meets MWF 12:15-1:30 PM; instructor: Kathryn St. Ours)
A continuation of FR 110 and FR 120, this course focuses on the attainment of intermediate-level proficiency in linguistic skills (understanding oral and written French, speaking, and writing) taught in cultural context. Includes close reading of short pieces by Francophone authors, close viewing of audiovisual materials, and discussion of particular cultural elements in the target language.

FR 250 (Introduction to French Transnational Studies) (meets MWF 1:40-2:55 PM; instructor: Kathryn St. Ours)
How can the French and Francophone world offer a useful case study for understanding transnational phenomena? This course takes a transnational approach to the study of French history and culture from Louis XIV to the Algerian War, focusing on key periods that help us understand social diversity in French and francophone societies today. Drawing on authentic texts and scholarly and artistic works (including performing and visual arts, literature, and film), students will integrate concepts and methods from the social sciences and humanities. To apply course content to a specific setting today, students will also reflect on how they might pursue further inquiry and gain professional experience in an individually-tailored internship abroad.

FR 430 (Special Topics in French Literature: Existentialism and Absurdism) (meets MWF 10:50-12:05 AM; instructor: Kathryn St. Ours)
How can the French and Francophone world offer a useful case study for understanding transnational phenomena? This course takes a transnational approach to the study of French history and culture from Louis XIV to the Algerian War, focusing on key periods that help us understand social diversity in French and francophone societies today. Drawing on authentic texts and scholarly and artistic works (including performing and visual arts, literature, and film), students will integrate concepts and methods from the social sciences and humanities. To apply course content to a specific setting today, students will also reflect on how they might pursue further inquiry and gain professional experience in an individually-tailored internship abroad.

CENTER FOR HISPANIC & LATINX STUDIES:

LAM 105 (Intro to Latin American Studies) (meets MWF 8:00-9:15 AM; instructor: Citlali Miranda-Aldaco)
This course will introduce students to many cultural, social, and political aspects of the region of the world known as Latin America. Beginning with the various views of what is meant by “Latin American,” the course will give students a more complete picture of the heterogeneous identities of the area. Taking an interdisciplinary, broad approach to regional studies, the course will explore the diverse artistic movements, social organizations, and political institutions that have shaped Latin America in the past and continue to define its present.

CENTER FOR EDUCATION, BUSINESS & PROFESSIONAL STUDIES:

BUS 229 (Marketing Management) (meets TuTh 9:10-11:05 AM; instructor: David Grossman)
A review of the basic concepts and practice in modern marketing. Course demonstrates marketing principles through and projects related to current events in the manufacturing and service sectors; in profit and nonprofit organizations; and domestic, international, and multinational companies. Students are responsible for conducting market research and presenting analysis of real-world marketing problems and situations.

BUS 231 (International Business Environment) (7-wk course; meets MWF 9:25-10:40 AM; instructor: David Grossman)
An introduction to the economic, political, and legal environment faced by firms engaged in international business and its implications for national economies. Topic areas include international trade, investment, the global monetary system, the competitiveness of U.S. firms in world markets, national industrial policy, and the ethical dilemmas of conducting international business.

BUS 335 (Special Topics in International Business: Case Studies) (meets TuTh 1:20-3:15 PM; instructor: David Grossman)
SP21 semester (1/25/21 – 5/6/21):

**CENTER FOR NATURAL SCIENCES:**

**BIO 102** (Explorations in Biology II: Life in Context) (meeting times TBA; instructors: Cynthia Kicklighter; Gizelle Simpson)
Life in Context explores the diversity of living organisms, the evolutionary relatedness of all organisms, and interconnected associations between organisms. Particular emphasis is placed on the importance of biological diversity to ecosystem health and on issues of human relevance. The fundamental concepts and principles of biology are emphasized throughout the course.

**BIO 445** (Seminar in Biochemistry of Gene Expression) (meeting times TBA; instructor: Judy Levine)
The development of many powerful biotechnologies, such as PCR, RNAi and CRISPR - to name only a few - grew out of basic research into the biochemical mechanisms of gene expression. Many of these technologies have important medical, societal and environmental applications, and furthermore their development has contributed to great advancements in basic research. This seminar will focus on recent scientific progress beyond "textbook" understanding of the machinery of gene expression, and explore the synergistic relationship between basic research and biotechnology, through the study of primary literature, discussions and student presentations. [This course is an elective in the biology and BCMB majors.]

**CHE 151 (Principles of Chemistry II with Lab)** (meeting times TBA; instructor: TBA)
Second semester of introduction to chemistry sequence including kinetics, thermodynamics, equilibrium, acid-base chemistry, redox reactions and electrochemistry. Taught in studio format with integrated lecture and lab.

**CHE 235 (Organic Chemistry II)** (meeting times TBA; instructor: Ruguia Ahmed-Schofield)
(Continuation of CHE 230.) Chemistry of the compounds of carbon with emphasis on the relation of molecular structure to chemical and physical behavior. Laboratory work includes appropriate techniques and synthetic and analytical methods. Three hours lecture, three hours laboratory. [This is the standard 2nd semester orgo taken by chem majors, bio majors and pre-meds.]

**CHE 341 (Biochemistry)** (meeting times TBA; instructor: Judy Levine)
Structure and function of biological molecules, chemistry of enzyme-catalyzed reactions, intermediary metabolism. Three hours lecture. Prerequisites: CHE 235 (organic chemistry II) and one college-level general biology course, or permission of the instructor. [This course is typically taken during the junior or senior year; it is required for the BCMB major and may be taken as an upper level elective for the chemistry major.]

**CHE 442 (Biochemistry lab)** (meeting times TBA; instructor: Judy Levine)
Introduction to the basic techniques for studying the structure and function of biological molecules. Four hours laboratory. Pre- or corequisite: CHE 341. [This course is required for the BCMB major and focuses on enzyme purification and characterization.]

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**BUS 480 (Strategic Management)** (meeting times TBA; instructor: David Grossman)
A straightforward and understandable framework is provided through which students can grasp the complexity of strategic management. The framework is then applied to individual and group cases.