**Goucher College SP21 semester (2/8/21 – 5/7/21) CTFP Opportunities**

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[***Goucher College***](https://www.goucher.edu/learn/academic-centers/psychology/faculty/katherine-choe) ***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/***](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.***

**CENTER FOR NATURAL SCIENCES:**

BIO 102 (Explorations in Biology II: Life in Context) (lecture: MWF 12:15-1:15, lab sections Tu/Th mornings or afternoons; instructors: [Jenny Lenkowski](https://www.goucher.edu/learn/academic-centers/natural-sciences/faculty/jenny-lenkowski); 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) (half-semester course starting March 29th; MWF 10:50-12:05) instructor: [Judy Levine](https://www.goucher.edu/learn/academic-centers/natural-sciences/faculty/judith-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) (lab/lecture studio format w/sections either MWF 8:45-10:40am or MWF 1:40-3:35pm; instructors: [Kevin Schultz](https://www.goucher.edu/learn/academic-centers/natural-sciences/faculty/kevin-schultz), [Jaired Tate](https://www.goucher.edu/learn/academic-centers/natural-sciences/faculty/jaired-tate))

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) (lecture MWF 9:25-10:25am, lab sections Tu/Th mornings or afternoons; instructor: [Ruquia Ahmed-Schofield](https://www.goucher.edu/learn/academic-centers/natural-sciences/faculty/ruquia-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) (MWF 12:15-1:30; instructor: [Judy Levine](https://www.goucher.edu/learn/academic-centers/natural-sciences/faculty/judith-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) ([Judy Levine](https://www.goucher.edu/learn/academic-centers/natural-sciences/faculty/judith-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.]

**CENTER FOR EDUCATION, BUSINESS & PROFESSIONAL STUDIES:**

BUS 229 (Marketing Management) (TuTh 9:10-11:05am; instructor: [David Grossman](https://www.goucher.edu/learn/academic-centers/education-business-and-professional-studies/faculty/))

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) (half-semester course ending March 26th; MWF 9:25-10:40am; instructor: [David Grossman](https://www.goucher.edu/learn/academic-centers/education-business-and-professional-studies/faculty/))

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 480 (Strategic Management) (Tu/Th 11:15-1:10; instructor: [David Grossman](https://www.goucher.edu/learn/academic-centers/education-business-and-professional-studies/faculty/))

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.