NEW TOPIC TITLES

**A U 400** Peer Mentoring (3)
*Prerequisites: Restricted to upper-division standing.*
Explore the theories and concepts of peer mentoring and evidence-based studies on the impact of peer mentoring on student success. Develop an understanding of and practice using inclusive classroom and communication strategies that will facilitate student development, academic skills, and community building so they can effectively support students transitioning into higher education. Apply understandings of peer mentoring in different settings, including first-year seminars, new student orientation, and the transfer student transition. May be repeated for a total of 6 units.

1. Peer Mentoring: First-Year Experience
2. Student Leaders for New Student Orientation
3. Peer Mentoring to Enhance Transfer Student Experiences

**ARTH 516** Advanced Topics in Art History (3)
*Prerequisites: Restricted to Art and Art History majors and minors and M.F.A. Art students; one 300- or 400-level Art History course*; or consent of the instructor.
Investigation of advanced topics in Art History. Topics to be specified in the Class Schedule. May be repeated when topics vary. [Formerly ART 516]

1. Global Art and Art History

**ARTH 602** Art History Seminar (3)
*Prerequisites: Restricted to upper-division Art and Art History majors and minors and M.F.A. Art students; one upper-division (300- to 500-level) Art History course; or consent of the instructor.*
Advanced seminar on specific topics, themes, and research methods in Art History. Topics to be specified in the Class Schedule. May be repeated when topics vary. (ABC/NC grading; CR/NC allowed) [Formerly ART 602]

1. Postcolonial Encounters in Art History

**CINE 304** Gender and Film (3)
*Prerequisites: Restricted to upper-division Cinema majors and minors; CINE 200*, CINE 202*, CINE 204*, CINE 211*, CINE 212* or equivalents with grades of C or better; or consent of the instructor.*
Critical examination of issues related to the representation of gender and sexuality in Cinema. Intermediate-level course. Topics to be specified in the Class Schedule. May be repeated for a total of 6 units when topics vary.

1. Screening Female Desire
CINE 344 Film Genre (3)
Prerequisites: Restricted to upper-division Cinema majors and minors; CINE 200*, CINE 202*, CINE 204*, CINE 211*, and CINE 212* or equivalents with grades of C or better; or consent of the instructor.
Examination of a specific film genre focusing on key historical and theoretical issues.
Intermediate-level course. Topics to be specified in the Class Schedule. May be repeated for a total of 9 units when topics vary.
  1. Romance

CWL 420 Studies in Comparative Literature (3)
Prerequisite: Upper-division standing or consent of the instructor.
Comparison of literary texts from multiple linguistic traditions through thematic, theoretical, chronological, and/or formal connections. Topics to be specified in the Class Schedule. May be repeated when topics vary.
  1. Travel and the Literary Imagination

HIST 696 Proseminar (3)
Prerequisites: Upper-division standing; GE Area E and HIST 300GW*; or graduate standing; or consent of the instructor.
Seminar-style culminating experience focused principally on topics in European History. Topics to be specified in the Class Schedule. May be repeated when topics vary. [Formerly HIST 640, HIST 642, and HIST 644]
  1. Colonialism & Imperialism

HIST 790 Seminar in American History Since 1877 (Units: 3)
Prerequisite: Graduate standing in History or consent of instructor.
Graduate seminar in a topic, theme, or problem in U.S. history since the period of Reconstruction. Topic to be specified in Class Schedule. May be repeated when topics vary.
  1. Constitutional Law and Social Justice in U.S. History
  2. Social Movements in U.S. History
  3. Race, Gender, and Sexuality in U.S. History

HIST 850 Topics in World History Since 1500 (3)
Prerequisite: Graduate standing in History or consent of instructor.
Graduate seminar on a topic, theme, or problem in early modern and modern global history. Courses may be thematic and transnational or may focus on a specific region. Topic to be specified in the class schedule. May be repeated when topics vary. (Plus-minus letter grade only)
  1. History and Cognition

PHIL 890 Seminar: Current Issues in Philosophy (3)
Prerequisite: Graduate standing or consent of the instructor.
Study of one or more philosophical issues that currently stimulate excitement and debate in the field. Issues to be specified in the Class Schedule. May be repeated when issues vary.
  1. Political Representation
PLSI 608 Senior Seminar in Political Theory (3)
*Prerequisites: Restricted to Political Science majors and minors; upper-division standing; a PLSI GWAR and PLSI 275.*
Focus on the specialization and particular interests of the Professor in question in the field of political theory. Topics to be specified in the Class Schedule. May be repeated for credit when topics vary.
   1. Political Theory of Authority

NEW COURSES

AFRS 205 **Black Youth Development, Youth Activism, and Digital Media Literacy (3):**
AERM, SJ; CS-03; Fall 2019
*Prerequisite: AFRS 100.*
Youth development and critical race and gender theories and concepts as they relate to the Black experience. Research Methods employed to document "community" and community power. Digital Media Literacy (mobile apps, documentary video and film making) as an ethnographic methodological approach to researching cities and schools. Analyze contemporary problems in urban and suburban schools and neighborhoods and the strategies that community members are using to combat those problems.

AFRS 233 **Critical Race Theory and Critical Black Consciousness (3):** Regular; CS-03; Fall 2019
*Prerequisite: ETHS 100.*
An introduction to Africana Studies as an intellectual, political, and cultural project steeped in a long and international tradition of Black radicalism and African-centered thought. A broad survey of the ongoing process of Black cultural production and identity formation as structured through race and its intersection with gender, spirituality, sexuality, and social class.

AFRS 647 **Major Authors in Africana Studies (3):** Topics; AERM, ES, SJ; CS-05; Fall 2019
*Prerequisites: Restricted to upper-division standing; AFRS 210. Intended primarily for Africana Studies majors.*
Explore major authors in the context of Africana Studies. Course readings will focus on the author's oeuvre and include both primary texts and critical reflections upon the texts. May be repeated when topics vary.
   1. Octavia E. Butler: Africana Literature as Liberation
   2. Toni Morrison's Novels and Africana Studies
   3. James Baldwin and Africana Studies
**BIOL 677/CHEM 677** Introduction to Optical Engineering for the Biological Sciences (3): Experimental/Cross-list; CS-02 & 16; Fall 2019  
*Prerequisites: MATH 226; CHEM 215; BIOL 230 with C or better; consent of the instructor.*  
A hands-on introduction to applying advances in low-cost computers and digital cameras to microscope design. Learn the fundamentals of optical engineering and image processing used in digital microscopy. Includes building an inexpensive lensless microscope capable of capturing and processing images of plankton. The completed microscope will be used to conduct a research project. Learn essential skills in optical design, instrumentation, and fabrication. Lecture, 1 unit; laboratory, 2 units. (Plus-minus letter grade; RP grading only)  
(This course is offered as BIOL 677 and CHEM 677. Students may not repeat the course under an alternate prefix.)

**BIOL 700** Introduction to Research Skills (3): Topics; CS-02; Fall 2019  
*Prerequisite: Restricted to graduate standing or consent of the instructor.*  
Introduction to the theory and practice of skills used by research scientists that include research literature searches, basic concepts in visualizing and interpreting data, analyzing conclusions of research articles, ethics, and safety. Assignments support completion of the degree requirements including forming a thesis committee and defining a research objective. (Plus-minus letter grade only)

1. Research Skills in Genetics and Epigenetics  
2. Research Skills in Ecology and Evolution  
3. Research Skills in Endocrinology  
4. Research Skills in Developmental Biology  
5. Research Skills to Study Hormones and Behavior  
6. Research Skills in Neuroscience  
7. Research Skills in Community Ecology  
8. Research Skills in Conservation Biology  
9. Research Skills in Cell Biology

**BIOL 877** Exploratory Data Analysis for Scientists (3): Experimental; CS-05; Fall 2019  
*Prerequisite: Restricted to graduate standing.*  
Work in teams to learn programming and statistics applied to original research projects.

**BIOL 899** Independent Study (1): Regular; CS-25; Fall 2019  
*Prerequisite: Restricted to graduate Biology students.*  
Study in the laboratory or library under the direction of a member of the department. May be repeated for a total of 4 units.
**BUS 460** Microfinance: Financial Inclusion for the Poor (3): Regular; CS-02 & 13; Winter 2020

Prerequisites: ECON 101 and FIN 350.
Non-technical survey of the global microfinance industry, which provides financial services to the poor on a large scale, mostly in developing nations. Historical origins and industry evolution. Nature and developmental role of microenterprises and informal finance. Methods and technologies used by microfinance institutions (MFIs). Case studies of leading MFIs and the lives of their clients. Policy and regulatory environments. Debates over profiting from the poor, and over health and environmental goals. Conflicting evidence on economic and social impact. Meetings with practitioners. Lecture, 1 unit; activity, 2 units.

**C W 606** Art of Revision: from Draft to Manuscript (3): Regular; CS-05; Fall 2019

Prerequisites: C W 101 or C W 301; C W 302; C W 512 or C W 603.
Examine and experiment with the artistic processes of published writers (and a variety of other artists) who've taken a project from idea to completion. Study interviews, process notes, and "middle drafts" of these artists. Include analyses of the draft process, genre across artistic and literary forms, and creation and revision of student work.

**HIST 404** A Cultural History of American Technology (3): UD-C; ES, SJ; CS-02; Fall 2019

Prerequisites: Restricted to upper-division standing; GE Area E.
Introduction to the history of American technology from the Colonial period to the 21st century. Explore the impact of technological advancements on American culture and thought, and, inversely, the degree to which historical circumstances and events unique to America have affected technological innovations. This interplay between context and innovation highlights a central theme of this course that pragmatic applications and the commercial development of new technologies have been a defining characteristic of American history since its inception.

**HUM 391** Images of Eroticism in Contemporary Culture (3): Topic; AERM, SJ; CS-02; Fall 2019

Prerequisites: GE Areas A1, A2, A3, and B4; consent of the instructor.
Introduction to the scholarly study of theories of eroticism. Emphasis on theory, historical antecedents and developments, cross-cultural comparison, and comparison of various genres of written texts with other cultural forms. Focus on what eroticism has meant throughout history with special emphasis on how contemporary theorists, writers, and artists are offering new ideas regarding eroticism that advance social justice.

**MATH 742** Advanced Probability Models (3): Regular; CS-02; Fall 2019

Prerequisite: MATH 440 with a grade of C or better or consent of the instructor.
Advanced topics in probability theory including discrete and continuous time Markov chains, Markov chain Monte Carlo simulations, Poisson process, renewal theory and applications, queuing systems, and applications.
**MATH 760** Multivariate Statistical Methods (3): Regular; CS-03; Fall 2019
Prerequisite: MATH 441 with a grade of C or better or consent of the instructor.
Multivariate Statistical Methods are used to analyze the joint behavior of more than one random variable. There are a number of multivariate techniques available including Factor Analysis, Principle Component Analysis, Canonical Correlation, Multidimensional Scaling, MANOVA, and Discriminant Analysis.

**MSCI 715** Writing for Interdisciplinary Marine and Estuarine Scientists (1): Regular; CS-02; Fall 2019
Prerequisite: Restricted to graduate Interdisciplinary Marine and Estuarine Science students.
Advance academic writing skills through targeted exercises and activities. Topics will include academic vocabulary, essay structure, paragraph structure, and citation skills. Activities will be conducted to teach how to report and present the methods, results, and conclusions of scientific inquiry. (Plus-minus letter grade only)

**MUS 437** Middleware for Games (2): Regular; CS-10; Fall 2019
Prerequisite: MUS 434/BECA 434 or consent of the instructor.
Learn implementation of music in a game engine via middleware. May be repeated for a total of 4 units. Activity.

**MUS 461** Scoring for Virtual Reality (2): Regular; CS-10; Fall 2019
Prerequisite: MUS 434/BECA 434 or consent of the instructor.
Scoring for virtual reality, augmented reality, mixed reality, and other types of immersive media. Hands-on practice implementing music in a game. May be repeated for a total of 4 units. Activity.

**PHIL 827** Philosophy and Current Applications of Artificial Intelligence (3): Regular; CS-05; Fall 2019
Prerequisite: Graduate standing or the consent of the instructor.
Exploration and analysis of the philosophical implications of current and emerging developments in artificial intelligence (A.I.). Learn what A.I. is and what distinguishes it from other computational processes and capacities, what tasks it can currently accomplish, what tasks it is likely to be able to accomplish in the future, and what issues AI raises for moral standing, epistemology, consciousness, law, social organization, public policy, economics, and labor.

**PHYS 685** Instructional Methods in Teaching Physics (1): Regular; CS-05; Fall 2019
Prerequisite: Upper-division standing.
Pedagogical strategies and principles of teaching and learning in STEM. Seminar for students in their first Learning Assistant (LA) or Supplemental Instruction (SI) position.

**PHYS 686** Experiences in Teaching Physics (1): Regular; CS-07; Fall 2019
Prerequisite: Upper-division standing.
Activity practicum for students serving as Learning Assistants (LAs) in STEM courses. LAs will directly assist STEM instructors in facilitating active learning in their classrooms. May be repeated for a total of 6 units.
PLSI 303 Fundamentals of Political Science (2); Regular; CS-02; Fall 2019
Prerequisite: GE Area A2.
Introduction to the discipline and practice of Political Science for majors. Objectives of the discipline, overview of different subfields of political science, principal methodological approaches, introduction to research design, and principles of social scientific inquiry.

SCI 100 Science and Math Concepts (1): Topics; CS-07; Spring 2020
Prerequisite: Concurrent enrollment in appropriate parent course based on topic.
Student-centered discussion and problem-solving designed to promote understanding of key concepts and enhance student success in the designated parent course. SCI 235, Science Concepts, and Mathematics Concepts courses may be repeated for a combined total of 4 units. Activity. (ABC/NC grading; CR/NC allowed)
   1. Science Concepts: Physics with Calculus III
   2. Science Concepts: Linear Systems Analysis
   5. Science Concepts: Programming Methodology

SCI 221 Science Concepts: Data Structures (1): Regular; CS-07; Fall 2019
Prerequisite: Concurrent enrollment in CSC 220.
Designed to promote understanding of key concepts and enhance student success in CSC 220. SCI 235, Science Concepts, and Mathematics Concepts courses may be repeated for a combined total of 4 units. Activity. (Plus/Minus ABC/NC; CR/NC allowed)

SCI 687 Experiences in Supplemental Instruction (2): Regular; CS-07; Spring 2020
Prerequisite: PHYS 685 (may be taken concurrently).
Practicum for students who want to become Supplemental Instruction (SI) Facilitators in the College of Science and Engineering. Activity.