Fall 2021

Discovery@UCSB

SECOND Year– Exploration, Discovery & Linked Seminars:

- **If you are in your second year student at UCSB, but due to units are a junior and are hitting an error while trying to register for a Discovery@UCSB seminar you may request an exception to a *bypass* by emailing me at kvonderlieth@ucsb.edu**

- ***If you email me for a bypass - Please include your PERM & which INT you would like to bypass the unit restriction. Once a student receives the bypass, you must still enroll through GOLD during your active pass time, space remaining. A bypass does not override the unit cap in a given pass time of 13.5 units during Pass1.**

Please note that if a listed seminar does not last the full 10 weeks, the drop deadline may be sooner.

Updated 9/9/2021

INT 88AD - *"Introduction to Anarchism"*

- **Seminar Type**: *Second Year Exploration*
- **Department:** Black Studies
- **Instructor:** Roberto Strongman
- **Instructor Email:** rstrongman@ucsb.edu
- **Day - Time - Room:** Tuesday 2:00-2:50 Online
- **Enroll Code:** 62877

Course Description: Do we really need authority to have organized and productive collective lives? This question becomes all the more relevant during the large scale politically-driven social and economic re-structuring taking place during the current health crisis. This course provides a space in which students can think critically about anarchist philosophy and trace the histories of voluntarist, non-hierarchical, decentralized communities. We will consider what alternatives these libertarian histories present to our current world in which large scale corporations and supra-national entities are diminishing the power of the nation-state. What role will anarchist thought and practice play in the "new normal?"

Bio: Roberto Strongman is Associate Professor in the Dept. of Black Studies.

INT 88AE - *"Empowerment through Art"*

- **Seminar Type**: *Second Year Exploration*
- **Department:** Classics severo@hfa.ucsb.edu
- **Instructor:** Helen Morales
- **Instructor Email:** hmorales@classics.ucsb.edu
- **Day - Time - Room:** ***This seminar will meet Tuesday, Nov. 30th and Thursday, Dec. 2nd from 10am -3pm in HSSB 4080**
- **Enroll Code:** 62885

Course Description: This seminar will explore the way in which visual art can provide empowerment, reparation, and healing, especially during or after times of crisis. Central to the seminar will be preparations for a new exhibition of Harmonia Rosales's work at the Art, Design, and Architecture Museum. Rosales is an Afro-Cuban artist whose work focuses on black women's empowerment through reimagining art historical traditions. Students will have the opportunity to see, and contribute to, an art exhibition that is being curated, and to study examples of where visual images have been used to empower, from antiquity to today. The seminar will include work in the ADA, and students will be able to handle antiquities (under supervision).

Bio: Helen Morales is Argyropoulos Professor of Hellenic Studies and co-curator of 'Harmonia Rosales: Entwined' at the UCSB Art, Design, and Architecture Museum (Winter 2022).

INT 97MA - *"Euler's gem"*

- **Seminar Type**: *Second Year Linked*
- **Department:** Mathematics & Mathematics
- **Instructor:** Xianzhe Dai & Akos Nagy
- **Instructor Email:** dai@math.ucsb.edu & akos@math.ucsb.edu
- **Day - Time - Room:** Tuesday and Thursday 2:00-2:50 in PHELP 1445
- **Enroll Code:** 63305

Course Description: The Königsberg bridge problem asks if the seven bridges in the ancient city of Königsberg can be crossed without doubling back on any one bridge. This interesting puzzle led Euler to develop his famous polyhedral formula. In this seminar we will use Euler's polyhedral formula as a guide to tour the fascinating development of geometry and topology as well as other areas of mathematics such as graph theory and dynamics, culminating in the Poincaré conjecture (one of the seven Millennium Problems). Along the way, you will meet some of the greatest Mathematicians; Pythagoras, Euclid, Euler, Gauss, Riemann, Noether, and Poincaré. You will learn about some of the most famous theorems of the last few centuries, such as the Four Color Theorem, the Brouwer Fixed Point Theorem, and the Gauss–Bonnet Theorem. You will be introduced to many areas of geometry and topology, for example combinatorial and differential geometry, knot theory, and algebraic topology. No prior studies in topology or geometry are expected.

Bio: **Xianzhe Dai** is a professor of mathematics specializing in differential geometry and geometric analysis and their applications. He graduated with his PhD. in 1989 from Stony Brook University and went to MIT for his postdoc. After a year at the Institute for Advanced Studies he spent several years at the Unversity of Southern California before joining UCSB in 1998.

Ákos Nagy is a Visiting Assistant Professor at the Department of Mathematics at UC Santa Barbara, specializing in geometric analysis and mathematical physics. He got his Ph.D. from Michigan State University in 2016. Before joining UCSB, he was a William W. Elliott Assistant Research Professor of Mathematics at Duke University, a Fields Postdoctoral Fellow at the Fields Institute of the University of Toronto, and a Postdoctoral Fellow at the University of Waterloo.