UGS 200H 001

Introduction to Materials Research using a Scanning Electron Microscope

- Carl Boehlert: Chemical Engineering & Materials Science
- Brief description: This Honors Seminar will allow students to learn about one of the most widely used tools in multidisciplinary materials-based research, a scanning electron microscope (SEM). Students will focus on SEM analysis of ceramics, composites, biomaterials, metallic alloys, etc. The students will be responsible for performing a materials-based research project using the SEM and presenting their research through a poster display at the University Undergraduate Research and Arts Forum (UURAF) in April 2016. Enrollment for upperclassmen is limited to rising sophomores in good standing with the Honors College. Rising sophomores wanting to enroll in a section of UGS 200H must complete a manual override request through the Honors College at: http://honorscollege.msu.edu/content/honors-college-undergraduate-research-seminar-override-request. Requests will be processed on a first-come, first-serve basis. If you have questions about the override, please reach out to Ms. Christine Gajda, Director of Advising at gajda@msu.edu.

UGS 200H 002

Politics, Policy, and Ideology in Popular Culture

- Ryan Black: Political Science
- Brief description: Politics, Policy, and Ideology in Popular Culture: Who is more liberal, President Barack Obama or President Frank Underwood from House of Cards? Evidence suggests that the American public and our elected officials have become more conservative in the last 30 years, but what about the fictional political characters who entertain us on TV and the big screen? The purpose of this seminar is to gather information from a variety of television shows and movies to answers these very questions. Students will watch a variety of shows and movies to gather details about characters’ ideological views. No background in political science is necessary. All UGS 200H seminars have a Fall enrollment but work will continue into the Spring with expected participation in the University Undergraduate Research Forum (UURAF) in April. Enrollment for upperclassmen is limited to rising sophomores in good standing with the Honors College. Rising sophomores wanting to enroll in a section of UGS 200H must complete a manual override request through the Honors College at: http://honorscollege.msu.edu/content/honors-college-undergraduate-research-seminar-override-request. Requests will be processed on a first-come, first-serve basis. If you have questions about the override, please reach out to Ms. Christine Gajda, Director of Advising at gajda@msu.edu.

UGS 200H 003

Language and Music: Researching Parallels Between Two Human Communication Systems

- Laura Dilley: Communicative Sciences and Disorders
- Brief description: This course will meet in 106 Oyer on Monday from 3:20-5:00pm. Have you ever wondered how babies learn to talk? Have you pondered how the human brain enables such amazing feats and communication via language and/or music? These and other fascinating topics will be the focus of this seminar, in which students will engage in research relating to the exciting area of human speech communication. A particular focus will be speech prosody, or the pitch, timing, and rhythmic information used in understanding spoken words. Since these aspects of sound are shared between speech and music, we will spend time investigating connections between these two domains. We will
also discuss related topics, such as how children learn language (a process which is aided by speech prosody), computer speech and language, and medical issues in speech and language. Students will be able to carry out research on topics related to human speech communication funded by federal research grants and will present the results of this research at the University Undergraduate Research & Arts Forum (UURAF). Moreover, students will have the option to continue after the seminar as research assistants in the MSU Speech Lab, pending successful seminar performance. Students with interests in human cognition, language, music, and/or gaining experience in scientific research will likely find this seminar of interest.

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- **UGS 200H 004**
- **Geological Masonry Materials and their Alteration on the Michigan State University, East Lansing Campus**
  - Michael A. Velbel: Geological Sciences
  - Warren Wood: Geological Sciences
  - Brief description: Students will research and document architectural and interior applications of stone and other building materials in buildings on the MSU campus; and they will produce studies of the use and deterioration of stone and other building materials in campus buildings and interiors, including consideration of preservation and conservation issues. All UGS 200H seminars have a Fall enrollment but work will continue into the Spring with expected participation in the University Undergraduate Research Forum (UURAF) in April. Enrollment for upperclassmen is limited to rising sophomores in good standing with the Honors College. Rising sophomores wanting to enroll in a section of UGS 200H must complete a manual override request through the Honors College at: http://honorscollege.msu.edu/content/honors-college-undergraduate-research-seminar-override-request. Requests will be processed on a first-come, first-serve basis. If you have questions about the override, please reach out to Ms. Christine Gajda, Director of Advising at gajda@msu.edu.

- **UGS 200H 005**
- **New media marketing: mobile and social media campaigns for impact**
  - Constantinos Coursaris: Telecommunication, Information Systems, and Media
  - Brief description: The seminar will cover a broad range of topics, from the fundamentals of human-computer interaction to the research methods available for studying new media effects. It will also cover various social media vehicles as means to engage prospective customers. This theoretical foundation will enable students to engage in new media marketing research, investigating such questions as what types of messages work best on Facebook Pages or Twitter in raising awareness about a product or increasing sales, using both survey and experimental methods. All UGS 200H seminars have a Fall enrollment but work will continue into the Spring with expected participation in the University Undergraduate Research Forum (UURAF) in April. Enrollment for
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- **UGS 200H 006**
  - **Birth Control & Birth Choice**
    - Mark Largent: Lyman Briggs College/James Madison College
    - Brief description: This course will meet in W25E West Holmes Hall. This research course will allow students to delve deeply into the current political and medical debates about women’s access to birth control and their abilities to make choices about where and how they give birth. The first half of the course will be devoted to a systematic survey of contemporary issues, after which students will organize into small research teams to pursue related topics of their choosing. Students will be encouraged and mentored to present and publish the results of their work. All UGS 200H seminars have a Fall enrollment but work will continue into the Spring with expected participation in the University Undergraduate Research Forum (UURAF) in April. Enrollment for upperclassmen is limited to rising sophomores in good standing with the Honors College. Rising sophomores wanting to enroll in a section of UGS 200H must complete a manual override request through the Honors College at: http://honorscollege.msu.edu/content/honors-college-undergraduate-research-seminar-override-request. Requests will be processed on a first-come, first-serve basis. If you have questions about the override, please reach out to Ms. Christine Gajda, Director of Advising at gajda@msu.edu.

- **UGS 200H 007**
  - **Systems Approach for Researching the Water/Energy/Food Nexus**
    - Steven Safferman: Biosystems and Agricultural Engineering
    - Steve Marquie: Biosystems and Agricultural Engineering
    - Brief description: Students will learn to critically analyze systems relating to the water/energy/food nexus. Systems dynamics is used by progressive organizations to make difficult decisions. This critical thinking approach maximizes the chances of identifying and quantifying intended and unintended consequences. Students will apply these skills to a self-selected water/energy/food nexus research project and produce a brief project report. All UGS 200H seminars have a Fall enrollment but work will continue into the Spring with expected participation in the University Undergraduate Research Forum (UURAF) in April. Enrollment for upperclassmen is limited to rising sophomores in good standing with the Honors College. Rising sophomores wanting to enroll in a section of UGS 200H must complete a manual override request through the Honors College at: http://honorscollege.msu.edu/content/honors-college-undergraduate-research-seminar-override-request. Requests will be processed on a first-come, first-serve basis. If you have questions about the override, please reach out to Ms. Christine Gajda, Director of Advising at gajda@msu.edu.

- **UGS 200H 008**
  - **Stock portfolio risk diversification: myth or reality?**
    - Kirt Butler: Finance
    - Antoinette Tessmer: Finance
Honors Research Seminar Proposals:

- Brief description: Do you consider yourself a risk-averse investor? Or do you better describe yourself as a risk-lover stock trader? This seminar gives the opportunity to test yourself with a $1M stock portfolio to be invested on the stock market. The seminar will discuss risk definitions and measurements when related to stock investment. You will be responsible for investing your wealth while carefully controlling the risk level of your portfolio. Various risk management methods will be selected and tested. Time will tell if your method is efficient at reducing risk. Which method performs best and why? Those are the questions this seminar will empirically answer.

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- UGS 200H 009
  - From the Studio to the Smartphone: Technology and Globalization in Contemporary Art
    - Brief description: This course will meet in 35 Kresge Art Center. What happens when digital technologies (i.e. the internet, smartphones, social media) intersect with traditional artistic practice? What happens when new media collides with indigenous and national artistic forms? These are some of the questions students will explore in this honors seminar. Together we will extricate theoretical concepts about the agency of technology in an evolving global culture from diverse artworks that deploy them to reach diverse new audiences. One result of this intersection has been a more dynamic, interactive (and increasingly interdisciplinary) art that continues to “create” dynamically beyond the studio, outside of the museum, and into communities both local and global.

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- UGS 200H 010
  - Teaching Computational Literacy by “Playing Computer”
    - Brief description: This course will meet in CB20 RCAH. Seminar will cover key concepts at the forefront of digital theatre: combining principles of game programming, theatre and film. Students will be introduced to a variety of audience interaction methods currently being used in the field. The goal of this seminar is to create classroom and museum exhibit material to educate elementary school students on concepts of computational literacy through performance. All UGS 200H seminars have a Fall enrollment but work will continue into the Spring with expected participation in the University Undergraduate Research Forum (UURAF) in April. Enrollment for upperclassmen is limited to rising
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- **UGS 200H 011**
  - **Soccer and Community Building in Detroit**
    - Louise Jezierski: James Madison College
    - Brief description: This seminar examines the role of soccer in both formal and informal settings in Detroit to understand the role of soccer matches and leagues to contribute to community development in the city. The economic, social and political troubles in declining Detroit are an important context to understanding the how social relations and networks among players and organizers aid or detract in community development. Soccer in Detroit is organized by neighborhoods, ethnicity and race, age, gender, workplace, nationality, language, and other social ties. The research explores how players and coaches create community for themselves that reinforce identities, boundaries, and social networks of like-minded people (bonding social capital) as well as crossing these boundaries and linking people across communities and identities (bridging social capital). The project has 3 aims. 1) To map the history social geography of soccer as it is variously organized in the city and near metropolitan area; 2) to assess linkages within and across social identities and relations as soccer in the city and some metropolitan places; 3) to assess the community development role of soccer in the city as players and organizers connect personal ties made through soccer to other experiences and social capital in other aspects of players’ and organizers’ lives. All UGS 200H seminars have a Fall enrollment but work will continue into the Spring with expected participation in the University Undergraduate Research Forum (UURAF) in April. Enrollment for upperclassmen is limited to rising sophomores in good standing with the Honors College. Rising sophomores wanting to enroll in a section of UGS 200H must complete a manual override request through the Honors College at: [http://honorscollege.msu.edu/content/honors-college-undergraduate-research-seminar-override-request](http://honorscollege.msu.edu/content/honors-college-undergraduate-research-seminar-override-request). Requests will be processed on a first-come, first-serve basis. If you have questions about the override, please reach out to Ms. Christine Gajda, Director of Advising at gajda@msu.edu.

- **UGS 200H 012**
  - **Exploring Former Glacial Deltas and Spits in Central Lower Michigan**
    - Randall Schaetzl: Geography
    - Brief description: This course will meet in 105 Geography Building. Students will study and determine the ages of two small deltas and three spits that formed in a paleo-lake in central Lower Michigan. Glacial Lake Roscommon was centered on modern-day Houghton Lake. Because it never been studied, research on this lake presents an excellent opportunity to lay the groundwork for more detailed studies to come. The project will involve 3-7 days of weekend fieldwork in early fall, followed by lab analyses of the sediments. Students enrolling in this UGS 200H section should have an interest in Earth, environmental, and physical sciences, and be willing to work in the forested outdoors. Students will develop communication, research, writing, and technical skills, and become familiar with Geographic Information Systems (GIS) software for mapping the data. Teamwork will be emphasized. A sense of exploration and love of the outdoors is a plus. All UGS 200H seminars have a Fall
2015-2016 Honors Research Seminar Proposals:

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- **UGS 200H 013**
  - **Enterprise Social Media: Big Data and Network Analysis**
    - Wietske van Osch: Media and Information
    - Brief description: This research seminar will expose students to a new technology that is gaining fast popularity in companies around the world today, enterprise social media. The seminar will cover a broad range of topics, from the fundamentals of human collaboration in organizations to the research methods available for studying the effects of such new enterprise systems. This broad theoretical and methodological foundation will enable students to engage in big data and/or network research, investigating such questions as what is the key to successful collaboration and innovation in organizations. All UGS 200H seminars have a Fall enrollment but work will continue into the Spring with expected participation in the University Undergraduate Research Forum (UURAF) in April. Enrollment for upperclassmen is limited to rising sophomores in good standing with the Honors College. Rising sophomores wanting to enroll in a section of UGS 200H must complete a manual override request through the Honors College at: http://honorscollege.msu.edu/content/honors-college-undergraduate-research-seminar-override-request. Requests will be processed on a first-come, first-serve basis. If you have questions about the override, please reach out to Ms. Christine Gajda, Director of Advising at gajda@msu.edu.

- **UGS 200H 014**
  - **Conducting Community Based Research while Applying Health Information**
    - Karen Patricia Williams: Ob/Gyn & Reproductive Biology
    - Costellia Talley: Nursing
    - Brief description: Community based research is applied research that combines, the scholarship of inquiry and the relevance of practicality. With the intended purpose of solving an existing problem, the researcher is asking and answering research questions with the input of the community. This externally funded project will give students a foundation of research basics, as well as the importance of building strong collaborative community university partnerships that can be applied across disciplines. The first semester, all students will participate in 10 didactic sessions. * They will be expose to three perspectives of community-based research, (1) the academic perspective, (2) the community perspective and, (3) a cultural perspective. Students will have an opportunity to hear directly from our research community partners. In addition students will learn the basics of conducting a research literature review, the basics of qualitative and quantitative methodology as well as the basics of web design. During the second semester, students will be moving from research to reality. They will have an opportunity to apply the knowledge they received in the first semester by: A. Designing the needs assessment for African American, Latina and Arab community health workers; B. Administering the assessment and; C. Design the web-based tutorial accordingly. During this semester students will also participate in two hands on presentations skills seminars offered by the College of Human Medicine, poster design and power point. Students will make two
presentations one for our community partners and one at the University Undergraduate Research and Arts Forum. Enrollment for upperclassmen is limited to rising sophomores in good standing with the Honors College. Rising sophomores wanting to enroll in a section of UGS 200H must complete a manual override request through the Honors College at: http://honorscollege.msu.edu/content/honors-college-undergraduate-research-seminar-override-request. Requests will be processed on a first-come, first-serve basis. If you have questions about the override, please reach out to Ms. Christine Gajda, Director of Advising at gajda@msu.edu.

- **UGS 200H 015**
  - **Media and Morality: Representations of Moral Intuition in Children’s Narrative Media**
    - Ron Tamborini: Department of Communication
    - Brief description: Understanding the relationship between media and morality has been a challenge for media scholars. Does morality play a part in how audience members select, interpret and respond to media content? Can media alter moral values? Recent efforts to answer such questions have been aided in part by the model of intuitive morality and exemplars (MIME). Students will participate in the design and completion of research examining the representation of altruistic and egoistic intuitions in media produced for conservative and liberal interest groups (e.g., mainstream news articles, websites, and social-media pages) to identify which values are shown to be most prominent. The findings of this research will be presented at the University Undergraduate Research & Arts Forum (UURAF). The goal of this course is to produce research findings suitable for presentation at the National Communication Association’s annual convention and publication in academic journals. Enrollment for upperclassmen is limited to rising sophomores in good standing with the Honors College. Rising sophomores wanting to enroll in a section of UGS 200H must complete a manual override request through the Honors College at: http://honorscollege.msu.edu/content/honors-college-undergraduate-research-seminar-override-request. Requests will be processed on a first-come, first-serve basis. If you have questions about the override, please reach out to Ms. Christine Gajda, Director of Advising at gajda@msu.edu.

- **UGS 200H 016**
  - **Video Game Impacts: Play with Meaning**
    - Rabindra Ratan: Department of Communication
    - Brief description: How can new media technologies - such as avatars and digital games - be used to enhance learning and healthy behaviors? This seminar will address this often controversial and complex question. Students in the seminar will learn about recent approaches to research on this topic, with a specific emphasis on positive media impacts in education and health contexts. Teams of three to four students, along with a PhD-student group leader - will design and conduct original research studies on topics of interest and then write up research articles about the projects. Students will have the opportunity to immerse themselves in the process of media research and may be inspired to pursue research careers of their own. All UGS 200H seminars have a Fall enrollment but work will continue into the Spring with expected participation in the University Undergraduate Research Forum (UURAF) in April. Enrollment for
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- **UGS 200H 750 (fall 2015)**
- **UGS 102 750 (spring 2016)**
- **Cuba Freshman Research Seminar Abroad: Sustainable Cuba – Balancing Economic Growth with Ecological and Social Justice**
  - Dr. Rene Hinojosa, Urban Planning;
  - Dr. Donna Kaplowitz, Residential College in the Arts and Humanities;
  - Dr. Gerry Urquhart, Lyman Briggs & Fisheries and Wildlife
  - Brief description: This year-long research seminar will introduce students to Cuba from a sustainability perspective, considering how recent changes in Cuba’s international relations will influence its economic growth and development, as well as its environmental and social systems. Specific topics explored in relationship to this theme include historic preservation, food systems, ecological conservation, education, the arts, and support systems for youth and the elderly. Participants, working with a faculty mentor, will design a research project that addresses the program theme, collect data from primary and secondary sources while in the United States and Cuba, and present their findings at the University Undergraduate Research and Arts Forum in April 2016. The seminar will involve classes, fieldwork, and civic engagement during Fall 2015 to prepare students for the international travel experience over Winter Break (Dec. 28 – Jan. 9). During this time, the seminar will meet in 207/208 Eustace-Cole Hall on certain Thursday evenings prior to travel starting in October 2015, and include at least two weekend field trips during the Fall. Students will also have some meetings during January, February, and March, with the program officially ending in April 2016. Students wishing to participate must apply through the MSU Office of Study Abroad website at [www.studyabroad.msu.edu](http://www.studyabroad.msu.edu). Students must be first-year students at members of the MSU Honors College or Academic Scholars Program. A background in Spanish is encouraged, but not a requirement for participation. Participants will develop intercultural competence, improve oral and written skills, and become familiar with various humanist, scientific, and social science research questions and methods.