EAPS MEETINGS & EVENTS

COLLEGE OF SCIENCE FALL FACULTY MEETINGS
November 29, 2016
3:30-4:30 PM
LWSN 3102A/B

EAPS-FALL/SPRING FACULTY MEETINGS
December 6, 2016
January 31, 2017
February 28, 2017
March 28, 2017
May 2, 2017
3:00 PM
HAMP 3201

AGU RECEPTION
(ALUMNI & FRIENDS RECEPTION)
December 15, 2016
ThirstyBear, Billar Room
7:00-9:00 PM
San Francisco, CA

CoS COMMENCEMENT
December 18, 2016
9:30 AM
Elliott Hall of Music

EAPS MINI-FACULTY RETREAT
January 6, 2017
9:00 AM-Noon
HAMP 2244

EAPS AWARDS BANQUET
April 17, 2017
5:30 PM
Ross-Ade Pavilion, Buchanan Club

EAPS ALUMNI ADVISORY BOARD
April 18, 2017
8:30 AM-4:00 PM
HAMP 2201

http://www.eaps.purdue.edu/
Thanksgiving: **Nov. 24 & 25, 2016**  
Christmas: **Dec. 23-26, 2016**  
Winter recess: **Dec. 27, 28, 29, 2016**  
President’s Designated Holiday: **Dec. 30, 2016**  
New Year’s Holiday: **Jan. 2, 2017**

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**TERRY WEST ATTENDED THE ASSOCIATION OF ENVIRONMENTAL AND ENGINEERING GEOLOGIST (AEG) MEETING IN CHICAGO**

Terry West attended the Association of Environmental and Engineering Geologists (AEG) meeting in Chicago on **November 9, 2016**. J. Mark Wilkerson, a geological consultant from Dallas, Texas, the banquet speaker, presented a talk entitled “Advances in Engineering Geology: Geotechnical Geology”. Mark received his master’s degree from EAS in 1974 with Dr. West as his major professor. Attending the meeting were two other EAS graduates, Dr. Chris Stohr of the Illinois State Geological Survey, and Dr. Scott Sinnock, retired geologist from the Nevada Test Site. Dr. Sinnock received his Ph.D. under Dr. Bill Melhorn’s direction and was a contemporary student with Mark Wilkerson. Terry West and these three alumni are shown in the photo below. From left to right: Mark Wilkerson, Chris Stohr, Terry West and Scott Sinnock.

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**EAPS LIBRARY NEWS**

**FREE TO A GOOD HOME: OLD USGS 7.5” TOPO MAPS**

The EAPS library staff is working towards our move to our new location in the Wilmeth Active Learning Center. As part of that move, duplicate topos that are older than the 1980s are being removed from the collection. Previously these maps were considered our “archive”. Now, these maps are all scanned by the USGS and publicly available through the USGS topo store (https://store.usgs.gov/b2c_usgs/b2c/display/(xcm=3standardptrex_prd&layout=6_1_61_48&uiarea=1)/.do) and can be printed on a plotter (which will be available in the new Wilmeth library).

Given these considerations, they are opening up the archive drawers to anyone who would like to select maps for their personal collections and use. Please see Terry Wade at the EAPS library front desk for assistance in retrieving the maps. The deadline for taking advantage of this offer is **November 30, 2016**. After that date, the duplicate maps will be removed from our collection.

Please contact Terry or Megan if you have any questions or concerns.

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**EAPS FACULTY AND STAFF RESOURCE FUND**

The EAPS Faculty and Staff Resource Fund provides faculty and full-time, permanent staff with a simple, open, and transparent way to request resources they need to be productive in their work. This is not intended to replace other sources (e.g. grants, discretionary accounts, start-up, competitive programs on campus, and usual supplies and expenses), rather it is to meet occasional needs that are important for individual productivity and advancement in cases where these other sources are not available to an individual. Examples include professional development course tuition, office needs, and professional conferences.

**Procedure:**

Applications to the fund should be sent via email (as a pdf) to the Assistant Department Head. Requests must include the following items:

- A brief description of the need
- The total amount requested
- An account number for the request (if applicable)
- Approval signatures from the department head and the assistant department head

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http://www.eaps.purdue.edu/
and not exceed one page applicants name, position title, email address a detailed, one paragraph description of what is being requested a short explanation of how this will help the individual be productive in their work amount requested (this program will accept requests between $200 and $2,000) time constraints on what is being requested (e.g., a deadline for registration)

**Request deadline is the 20th of each month.**
Decisions will be made by the 5th of the following month. All requests will be reviewed by a group including the Assistant Department Head, the Business Manager, and at least two members of the EAPS Executive Committee.

### STUDENT NEWS

**EAPS GSA & PUGS FOOD DRIVE**

This year EAPS GSA & PUGS are holding a food drive to help local families in need during the holiday season. Our student organizations will be working with the Tippecanoe County United Food Pantry which is a non-profit group estimated to help over 24,000 people this year.

Any non-perishable food items (canned goods, boxed food items) and/or monetary donations (checks payable to Tippecanoe County United Food Pantry) are accepted. All donations are tax-deductible.

Please bring in any items or donations to HAMP 3263 by **December 12th** - beginning of finals week. Items can also be picked up from your lab if you contact me via email. Our goal is collect >250 items this year. Please help in this endeavor where possible! Thank you for your time.

Tim Henderson
Graduate Student | EAPS GSA President
hende103@purdue.edu

### NASA EARTH AND SPACE SCIENCE FELLOWSHIP (NESSF) PROGRAM

NASA announces a call for graduate fellowship proposals to the NASA Earth and Space Science Fellowship (NESSF) program for the 2017-2018 academic year. This call for fellowship proposals solicits applications from accredited U.S. universities on behalf of individuals pursuing Master of Science (M.Sc.) or Doctoral (Ph.D.) degrees in Earth and space sciences, or related disciplines. The purpose of NESSF is to ensure continued training of a highly qualified

Dr. Sally Mason, former Purdue Provost and President of the University of Iowa, believes very strongly in developing the next generation of researchers through undergraduate internship practice. That practice includes presenting research at professional conferences and programs. Prior to leaving Purdue, she established the Sally Mason Undergraduate Travel Scholarship that assists in funding travel for undergraduate researchers to present their work.

We are having a call for applications for the Sally Mason Travel Scholarship. Students who have traveled or plan to travel anytime in the 2016-17 fiscal year are able to apply for this award. The application materials can be found at www.purdue.edu/dp/duri, and are due by **Friday, December 3, 2016**, at 5:00 pm. If you know undergraduate researchers who may be interested please let them know about this opportunity. They are eligible for the scholarship.

If you have questions, please do not hesitate to contact me.

Regards,

Lisa Kirkham, Ph.D.
Project Coordinator
Discovery Learning Research Center
Purdue University
765-494-2424
lkirkham@purdue.edu
workforce in disciplines needed to achieve NASA’s scientific goals. Awards resulting from this competitive selection will be made in the form of training grants to the respective universities.

The deadline for NEW applications is February 1, 2017, and the deadline for RENEWAL applications is March 15, 2017.

The NESSF call for proposals and submission instructions are located at the NESSF 17 solicitation index page at http://nspires.nasaprs.com/, click on “Solicitations” then click on “Open Solicitations” then select the “NESSF17” announcement. Also refer to “Program Specific Questions” and “Frequently Asked Questions” listed under “Other Documents” on the NESSF17 solicitation index page.

All proposals must be submitted in electronic format only through the NASA NSPIRES system. The faculty advisor has an active role in the submission of the fellowship proposal. To use the NSPIRES system, the faculty advisor, the student, and the university must all register. Extended instructions on how to submit an electronic proposal package are posted on the NESSF 17 solicitation index page listed above. You can register in NSPIRES at http://nspires.nasaprs.com/.

For further information contact Claire Macaulay, Program Administrator for NESSF Earth Science Research, Telephone: (202) 358-0151, E-mail: claire.i.macaulay@nasa.gov or Dolores Holland, Program Administrator for NESSF Heliophysics Research, Planetary Science Research, and Astrophysics Research, Telephone: (202) 358-0734, E-mail: hq-nessf-space@nasa.gov.

WINTER BREAK 2016-2017 COURSE ANNOUNCEMENT

Approved Course: Caribbean Ecosystem Field Studies. They are accepting applications for their winter-break field course: Caribbean Ecosystem Field Studies

This course (ENST 391) is approved for 3 undergraduate semester credits through the Environmental Studies Program of the University of Montana at Missoula and is open to students in an ecosystem related department or major.

Please click here with any questions.

VII EARTH SCIENCES CONVENTION (EXHIBITION OF PRODUCTS, NEW TECHNOLOGIES AND SERVICES)

The Cuban Geological Society (SCG) is inviting scientists, professionals, technicians, and university students of Geology, Geophysics, and Mining and related Geosciences, to participate in the VII Earth Sciences Convention, to be held at the International Conference Center in Havana, Cuba on April 3-7, 2017.

For further information, please contact: www.scg.cu; www.cubacienciasdelatierra.com geosciencias@mnhnc.inf.cu Please see attached flier.

UNIVERSITY NEWS

AT THE INTERSECTION OF LIBERAL ARTS + STEM

At the Intersection 2016-17

A Conversation with Bruce Cole, former Chairman of the National Endowment for the Humanities and Vint Cerf, “Father of the Internet” discussing the implications and opportunities of technology and the humanities.

http://www.eaps.purdue.edu/
The College of Liberal Arts is essential to a Purdue education that prepares graduates for meaningful careers and inspired leadership. Positioned at the intersection of liberal arts and STEM, the College leverages Purdue's STEM strengths to propel our graduates toward new advances in our disciplines and enhances Purdue's renowned STEM education by pushing all Purdue students intellectually and challenging them to be independent thinkers who drive decision making as bold, visionary leaders.

What is Intersection?

The Intersection of Liberal Arts & STEM is a series of events to highlight how liberal arts and science, technology, engineering, and math (STEM) fields are enriched and have greater capacity for meaningful change when the disciplines intersect.

For information, contact Gabby Hlavek, Director of Marketing and Communication 49-67276 or ghlavek@purdue.edu.

REMITDER: SUBMIT TRAVEL EXPENSE REPORTS WITHIN 120 DAYS

Effective January 1, 2017, all expense reports submitted greater than 120 days from the end of the business trip will be reported to the tax department and added to the traveler's taxable income.

Purdue University operates under the IRS accountable plan. This plan allows the University to reimburse employees for business travel expenses without reporting them as taxable income as long as the traveler adequately accounts for these expenses in a reasonable period of time. The reasonable period of time has been determined to be 120 days from the end of the trip. The application of this rule has been inconsistent in the past due to the manual effort of tracking these items. A new process has been put in place to identify these payments and tax them accordingly.

Per the University travel rules and guidelines regarding adequately accounting for travel expenses, an expense report must be submitted in Concur Travel and Expense within 120 days after the end of the trip.

Contact Information: Linda Ford, travel administrator, Procurement Services-Travel, 41699

UNIVERSITY PASSWORD PROTECTION

Your Purdue account, your password should never be shared with anyone, including friends or family, and don’t write it down on something left in plain sight. Rob Stanfield, director of ITaP’s Identity and Access Management Office, says strong passwords protect personal information and University systems.

How to create a strong password:

1) Use a quote or phrase you’ll remember. For example, the famous literary quote “It was a dark and stormy night.”
2) Take the first letter from every word, so you have “iwadasn.”
3) Mix in some uppercase letters, symbols and numbers, so it becomes “1iWad&sN!”
4) Don’t reuse your passwords for other sites. Your Facebook password should not be the same as your online banking password.

Two-factor authentication: An explainer

For an even stronger login system, you should use two-factor authentication whenever possible. What is two-factor? It’s a system that adds a second login requirement to go with your password. At Purdue, it’s a numerical code randomly generated on your smartphone or a key fob called BoilerKey. The IT staff for your campus unit can assist you with setting up Purdue’s two-factor authentication service.

You can (and should) use the two-factor services incorporated by other accounts, such as iCloud, Gmail, Amazon and Dropbox.

For more information, please visit the following link: http://itap.purdue.edu/newsroom/news/161024_PasswordProtection_NCSM.html

WRITING LAB AT PURDUE

At-A-Glance for Instructors, Faculty, and Advisors

http://www.eaps.purdue.edu/
Fall 2016

Main Location
Heavilon Hall Room 226
Monday - Thursday 9:00 AM - 6:00 PM
Fridays 9:00 AM - 1:00 PM

Appointments:  
https://cla.purdue.edu/wlschedule

Satellite Locations:
Drop-in only—first come, first served
HSSE Library Collaborative Study Center
Mondays 6:00 – 9:00 PM
Latino Cultural Center
Tuesdays 6:00 – 9:00 PM
Mechanical Engineering (ME) 2nd Floor
Rooms 2138 & 2142
Wednesdays 6:00 – 9:00 PM

Please see attached informational sheet for more details.

STEM EDUCATION CONFERENCE AT PURDUE
1/12/17
9:00 AM - 4:30 PM

Purdue will be hosting the 2nd Annual Indiana STEM Education Conference at Purdue on 1/12/17 from 9:00 AM to 4:30 PM. Proposals are due by 10/15/16. Email to carlacjohnson@purdue.edu. You will be notified of the decision on your proposal by 11/4/16.

Presenters will need to register for the conference at: https://goo.gl/5KbfKP

IMPORTANT NOTICE ABOUT THIS NEWSLETTER

This newsletter is used as the primary information source for current and upcoming events, announcements, awards, grant opportunities, and other happenings in our department and around campus. Active links to additional information will be provided as needed. Individual email announcements will no longer be sent unless the content is time-sensitive. We will continue to include our publications, presentations and other recent news items as well.

Those using paper copies of the newsletter should go to our newsletter archive on the EAPS website at http://www.eaps.purdue.edu/news/newsletters.html and Click on News to access active links as needed. Material for inclusion in the newsletter should be submitted to Fallon McQuern (fmcquern@purdue.edu) by 5:00pm on Thursday of each week for inclusion in the Monday issue.

If it is in the newsletter, we assume you know about it and no other reminders are needed. For answers to common technology questions and the latest updates from the EAPS Technology Support staff, please visit: http://www.eaps.purdue.edu/resources/information_technology/index.htm

Also, as an additional resource for information about departmental events, seminars, etc., see our departmental calendar at http://www.EAPS.purdue.edu/events-calendar.html
9th Annual
PURDUE RECEPTION
at the AGU Fall Meeting

Thursday, December 15
7:00 PM - 9:00 PM
ThirstyBear Restaurant, Billar Room
661 Howard Street, San Francisco

Complimentary heavy hors d’oeuvres

Co-sponsored by:
Department of Earth, Atmospheric, and Planetary Sciences (EAPS)
and
Purdue Climate Change Research Center (PCCRC)
PURDUE UNIVERSITY  
Department of Earth, Atmospheric, and Planetary Sciences  
Colloquia – Fall 2016  
Thursdays at 3:30 PM, Room 1252 HAMP (unless noted)

Sept. 1  Joel Saylor, University of Houston  
“Integrating Stable Isotopes and Basin Analysis for a Paleogene-Neogene Paleoelevation History of Southern Peru”  
Host: Ridgway

Sept. 8  William McKinnon, Washington University in St. Louis  
“Pluto Revealed! Results from NASA’s New Horizons Mission”  
Host: Melosh

Sept. 13  Wanchen Wu, PhD Candidate  
“The Effects of Continental Aerosols on the Eyewall of a Typhoon”  
Tuesday, 4:00PM, Room 2201/HAMP

Sept. 15  Peter Colarco, NASA Goddard Space Flight Center  
“Aerosol Modeling Applications in the NASA GEOS-5 Earth System Model”  
Host: Harshvardhan

Sept. 22  Oliver Boyd, U.S. Geological Survey  
“Seismic Hazard and Geodesy in the New Madrid Seismic Zone”  
Host: Gilbert/Freed

Sept. 27  Sarah Bischoff, PhD Candidate  
“Breaking Down the Impact of Strength Heterogeneity on Deformation of the India-Eurasia Collision: A Numerical Modeling Approach”  
Tuesday, 4:00PM, Room 2201/HAMP

Sept. 29  Kevin Reed, SUNY-StonyBrook  
“High-resolution Global Simulations from Reduced Complexity to Future Projections”  
Host: Chavas

Oct. 4  Wendell Walters, PhD Candidate  
“Unraveling the “Fingerprints” of Nitrogen Oxides using Stable Isotopes: Implications for Source Partitioning and Evaluation of Atmospheric Oxidation Pathways”  
Tuesday, 4:00PM, Room 2201/HAMP

Oct. 20  Fan-Chi Lin, University of Utah  
“Imaging the Yellowstone Magmatic and Hydrothermal System Using Seismic Tomography”  
Host: Nowack

Oct. 25  Logan Dawson, PhD Candidate  
“Examination of Mesoscale Feedbacks on Convective Scale Predictability During MPEX”  
Tuesday, 4:00PM, Room 2201/HAMP

Oct. 27  Allison Wing, Lamont-Doherty Earth Observatory  
“Clouds, Circulation, and Climate Sensitivity in Cloud Resolving Model Simulations of Self-Aggregation of Convection”  
Host: Chavas

Nov. 1  Shaoqing Liu, PhD Candidate  
“Quantifying Terrestrial Ecosystem Carbon Dynamics with Mechanistically-based Biogeochemistry Models and In Situ and Remotely Sensed Data”  
Tuesday, 4:00PM, Room 2201/HAMP
Nov. 3  Kristin Morell, University of Victoria  Host: Elliott  
“Lessons in the Landscape: Mountain Building and Seismic Hazards in Cascadia and the Himalaya”

Nov. 10  Jessica Larsen, University of Alaska, Fairbanks  Host: Elliott  

Nov. 15  Adam Stepanek, PhD Candidate  Advisor: Baldwin  
“Predictions of Severe Weather Environments by the Climate Forecast System Version 2 Model Suite”  
**Tuesday, 4:00PM, Room 2201/HAMP**

Nov. 17  Michael King, LASP  Host: Harshvardhan  
“Spatial and Temporal Distribution of Tropospheric Clouds Observed by MODIS on Board the Terra and Aqua Satellites”

Nov. 28  Tim Marshall, Haag Engineering  Host: Tanamachi  
“El Reno Tornado and Damage Survey”  
**Monday, 3:30PM, Room 2108/HAMP**

Dec. 1  Andy Davis, University of Chicago  Host: Caffee  
“Stardust in the Laboratory with CHILI”

Dec. 6  Christy Gibson, PhD Candidate  Advisor: Filley  
“”  
**Tuesday, 4:00PM, Room 2201/HAMP**
On 31 May 2013, a giant tornado meandered through rural areas near El Reno, OK killing 10 people including four storm chasers. The tornado changed course, direction, and speed during its life. It also was unusual as it contained various size vortices dubbed by Tim as “a tornado within a tornado”. Tim will talk about his harrowing chase that day and how he had to flee the tornado. After the tornado, Tim conducted aerial and ground surveys of the damage path along with the National Weather Service. The tornado created EF-3 damage on the Enhanced Fujita scale but Doppler on Wheels measurements indicated EF-5 winds. Tim will discuss this discrepancy along with his findings and discuss how the EF-scale was implemented.
Stardust in the Laboratory with CHILI

Andy Davis
University of Chicago

One of the most remarkable discoveries in astrophysics took place nearly 30 years ago: the discovery that meteorites contain tiny grains of stardust: condensates from the ejecta of stars that lived and died before the solar system formed. After several years of development, CHILI (CHicago Instrument for Laser Ionization), a resonance ionization mass spectrometer capable of lateral resolution better than one micrometer, high sensitivity, and near-freedom from isobaric interferences, has been applied to the study of the isotopic compositions of presolar silicon carbide. After reviewing presolar grains, I will describe the latest results from CHILI and their implications for stellar nucleosynthesis and galactic chemical evolution.
We are still accepting applications for Winter-break 2016.

Approved Course: Caribbean Ecosystem Field Studies
Please Distribute This Winter-Break 2016-17 Session Flyer

Can you please help me by distributing this flyer or the below information to students who may be interested? Or, feel free to forward this on to anyone who may be interested.

We are accepting applications for our winter-break field course: Caribbean Ecosystem Field Studies. This course (ENST 391) is approved for 3 undergraduate semester credits through the Environmental Studies Program of the University of Montana at Missoula and is open to students in an ecosystem related department or major.

Thank you for considering to make this rewarding field opportunity available to your students. This is our 10th year of programming to over 450 satisfied students and we hope to serve some of yours. Please email me with any questions.

Thank you!
- Prof. Steve Johnson
Copy/Paste Text Version Below:

WINTER-BREAK 3-CREDIT FIELD COURSE OPPORTUNITY!
Caribbean Ecosystem Field Studies - Full Details - http://www.ecofs.org

- Study, snorkel & SCUBA dive along the Caribbean coast of Mexico *
  December 28, 2016 - January 16, 2017

An opportunity to apply your classroom & textbook learning while immersed in an incredible marine ecosystem setting!

- Gain valuable career skills in hands-on scientific field research *
- Earn 3 undergraduate transfer credits *
- SCUBA and snorkel daily to study the coral reef ecosystem *

Open to students from all universities & majors | Accredited by the University of Montana at Missoula's Environmental Studies | Program: ENST 391- for 3 undergraduate semester transfer credits.

Direct questions to Professor Steve Johnson, Course Director at steve@EcoFS.org

Ecosystem Field Studies
303-859-0173 | steve@ecofs.org | Visit Our Site

Ecosystem Field Studies, PO Box 1967, Boulder, CO 80305
SafeUnsubscribe™ barbara@purdue.edu
Certificate in Environmental and Sustainability Studies Plan of Study
Draft 10.22.16

Draft of Mission Statement

The Certificate in Environmental and Sustainability Studies (CESS) will give students working in multiple disciplines across Purdue a broad exposure to how environmental and sustainability challenges and solutions are conceived, represented, and researched in the Humanities, Social Sciences, Agriculture, and STEM disciplines. The CESS program will introduce students to a wide range of environmental issues from diverse perspectives so that they may more thoroughly comprehend and critically evaluate today's environmental and sustainability challenges.

Draft of Learning Outcomes

Students acquiring the Certificate in Environmental and Sustainability Studies (CESS) will be expected to achieve the following learning outcomes:

1) KNOWLEDGE: Students will be able to identify, describe, and relate the diverse causes (social, cultural, political, economic, historical, scientific) and consequences of pressing environmental and sustainability challenges, such as climate change, resource scarcity, biodiversity, population growth).

2) COMPREHENSION: Students will be able to distinguish, paraphrase, and translate different disciplinary perspectives on these key environmental and sustainability challenges.

3) ANALYSIS: Students will familiarize themselves with the efficacies, and learn to push the boundaries, of different disciplinary approaches by comparing and contrasting solutions to environmental issues (scientific, technical, engineered, social, economic, historic, and ethical components).

4) SYNTHESIS: Students will learn to combine different disciplinary approaches by synthesizing, reorganizing, and reformulating diverse viewpoints.

5) APPLICATION: Students will demonstrate ability to communicate across disciplines on environmental and sustainability problems through the production of appropriate interdisciplinary instructional assignments. Students will illustrate their diversity of knowledge by applying their work in multi-disciplinary teams on sustainability challenges.

6) EVALUATION: Students will estimate the efficacy of different disciplinary approaches through assessing that efficacy in real-world applications.
Preliminary Draft Plan of Study

Summary

1) Required 3-credit course: Core Concepts in Environmental and Sustainability Studies. (New, team-taught interdisciplinary course introducing diverse perspectives on Environment and Sustainability problems, and skills in interdisciplinary communication and teamwork. This would be an annual course, offered every year starting in fall 2017).

2) Required 9 additional credits: 3 additional courses required from selection of existing or new classes across departments in three categories:

   - Social, Economic, and Political Dimensions
   - Stewardship, Conservation, and Management Dimensions
   - Science, Engineering, and Technological Dimensions

   One course required from each area. The plan is for these courses to be able to count for both the certificate and other existing academic requirements.

3) Program to be administered by Discovery Park Center for the Environment, in consultation with sponsor college (CLA), following administrative model of Burton Morgan Center Certificate in Entrepreneurship.

Detailed Course Options

Students participating in the Certificate in Environmental and Sustainability Studies are required to complete at least one course under each of the following three categories. By doing so, students will learn about the diversity of causes and consequences of environmental and sustainability challenges, and about the different disciplinary approaches to addressing these issues.

A preliminary list of courses that count towards each category is provided on the following page. Other courses may be counted, with the approval of the certificate administrator, provided that they meet the criteria defining one of the categories.

Category 1: Social, Economic, and Political Dimensions

This category emphasizes how knowledge of human behavior furthers our understanding of environmental and sustainability impacts. It includes courses that examine human interaction with the environment on a range of scales, from individual decision-making to regional, national, or global institutions. Courses relate to environmental outcomes and sustainability, focusing on economics; ethics and values;
individual and societal behaviors and interactions; and politics, policy analysis, or decision-making.

Category 2: Stewardship, Conservation, and Management Dimensions

This category focuses on the application of sustainability or environmental principles to planning and managing human interactions with the environment. This may include courses related to conservation biology; natural resource management; population and community ecology; restoration of ecosystem services; land use and urban planning; sustainable agriculture; and climate change adaptation or mitigation.

Category 3: Science, Engineering, and Technological Dimensions

This category focuses on the scientific and technological tools needed to understand and address environmental and sustainability challenges, particularly in the engineered and built environment. This may include coursework related directly to basic and applied ecology and environmental science, the development of emerging technologies for renewable energy, energy efficiency, or sustainable construction; it may also include instruction in systems analysis tools with applications to environmental or sustainability challenges, such as integrated assessment modeling or lifecycle assessment, or study of interactions between the environment and infrastructure.

Courses qualifying for each category:

Category 1: Social, Economic, and Political Dimensions

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>ABE 32500</td>
<td>Agriculture Soil and Water Resource Engineering</td>
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<tr>
<td>AD 39700</td>
<td>Liberal Arts Sustainability in the Built Environment</td>
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<td>AGEC 20400</td>
<td>Agriculture Introduction to Resource Economics &amp; Env Policy</td>
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<td>AGEC 25000</td>
<td>Agriculture Economic Geography of World Food and Resources</td>
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<tr>
<td>AGEC 40600</td>
<td>Agriculture Natural Resource &amp; Environmental Economics</td>
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<td>AGEC 52500</td>
<td>Agriculture Environmental Policy Analysis</td>
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<td>ANTH 23500</td>
<td>Liberal Arts Great Apes and Conservation</td>
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<td>ANTH 31300</td>
<td>Liberal Arts Archaeology of North America</td>
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<td>ANTH 32700</td>
<td>Liberal Arts Environment and Culture</td>
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<td>ANTH 33500</td>
<td>Liberal Arts Primate Behavior</td>
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<tr>
<td>ANTH 37700</td>
<td>Liberal Arts Anthropology of Hunter-Gatherer Societies</td>
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<tr>
<td>ANTH 37900</td>
<td>Liberal Arts Native American Cultures</td>
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<tr>
<td>ANTH 59200</td>
<td>Liberal Arts GIS for Social Scientists</td>
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<tr>
<td>CE 59700</td>
<td>Engineering Dynamics of Social-Ecological and Technological Systems</td>
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<td>EAPS 36000</td>
<td>Science Great Issues in Science and Society</td>
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<tr>
<td>ENG 23400</td>
<td>Liberal Arts Ecological Literature</td>
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<tr>
<td>ENG 34100</td>
<td>Liberal Arts Humans, the Environment, and the End(s) of Nature</td>
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<td>ENG 41200</td>
<td>Liberal Arts</td>
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<td>Engineering</td>
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<td>SOC 53300</td>
<td>Liberal Arts</td>
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**Category 2: Stewardship, Conservation, and Management Dimensions**

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<th>Course Code</th>
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**Category 3: Science, Engineering, and Technological Dimensions**

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VII EARTH SCIENCES CONVENTION
EXHIBITION OF PRODUCTS, NEW TECHNOLOGIES AND SERVICES

XII Geology Congress (GEOLOGIA´2017)
IX Geophysics Congress (GEOFISICA´2017)
VII Mining Congress (MINERIA´2017)
VI Oil and Gas Congress (PETROGAS´2017)
XIII Informatics and Geosciences Congress (GEOINFO´2017)

The Cuban Geological Society (SCG) is pleased to invite scientists, professionals, technicians and university students of Geology, Geophysics, Mining and related Geosciences, to participate in the VII Earth Sciences Convention, and Exhibition of Products, New Technologies and Services, to be held at the International Conference Center of Havana, Cuba on April 3-7, 2017.

The convention welcomes presentations about Cuba, the Caribbean and other regions or in general about the geology, geophysics and mining experiences in the search and management of natural resources, including minerals (metals, industrial), water, oil and gas, construction, earthquake research and other geohazards, education of geosciences; as well as any other related to the sustainable exploitation of natural resources.

We invite professional societies, institutions and non-government organizations to organize workshops, round tables and meetings during the Convention.

Dr. Manuel A. Iturralde Vinient
President of the Cuban Geological Society

www.scg.cu; www.cubacienciasdelatierra.com
geociencias@mnhnc.inf.cu
Hello, we’d like to take this time to update you on Writing Lab news.

We now offer online appointments for clients, who can easily schedule one-to-one consultations at https://cla.purdue.edu/wlschedule. Clients can select convenient times and choose one of our highly trained consultants for face-to-face or online feedback.

In addition, we’ve been working with Purdue’s Institutional Research office to learn more about Writing Lab users. Our initial results indicate that when students have sessions with tutors in the Writing Lab, especially those who are enrolled in English 106, they have significantly higher semester GPAs than their peers who do not come to the Writing Lab.

We are always looking for ways to collaborate with faculty to support writers across disciplines. If you’d like to discuss how we can work with you and your students, please contact us.

Best wishes for a great semester.

Harry C. Denny, Ph.D. • hdenny@purdue.edu
Associate Professor of English and Writing Lab Director

Tammy Conard-Salvo • tcsalvo@purdue.edu
Associate Director

### Featured FAQ

**What appointment options do you offer?**

Students can choose from three appointment types for one-to-one consultations:

- **In-person:** students meet face-to-face with one of our tutors in the Writing Lab or a satellite location.
- **Online:** Students can discuss their work with a tutor in real time using a text-based chat interface.
- **eTutoring:** Also known as asynchronous tutoring, students upload their documents in advance and receive comments at the appointed time.

More online at [owl.english.purdue.edu/writinglab/facultyfaq](http://owl.english.purdue.edu/writinglab/facultyfaq)

### Main Location

Heavilon Hall Room 226
Monday – Thursday 9:00 AM – 6:00 PM
Fridays 9:00 AM – 1:00 PM

Appointments:
[https://cla.purdue.edu/wlschedule](https://cla.purdue.edu/wlschedule)

### Satellite Locations

**HSSE Library Collaborative Study Center**
Mondays 6:00 – 9:00 PM

**Latino Cultural Center**
Tuesdays 6:00 – 9:00 PM

**Mechanical Engineering (ME) 2nd Floor**
Rooms 2138 & 2142
Wednesdays 6:00 – 9:00 PM

Writing Lab services are FREE and available to all Purdue students, faculty, and staff.
One-on-One Tutorials

We offer free tutorials on an appointment basis. Writers can bring any document to the Writing Lab, at any stage of the writing process. Sessions commonly help with the following:

- Clarification: understanding an assignment
- Invention: brainstorming, coming up with ideas, discovering a focus
- Organization: ordering ideas, building an argument
- Revision: revising for clarity and coherence

Our graduate tutors can assist students with a variety of writing tasks, including writing in the disciplines. Our business and professional writing consultants are specialists in employment writing, memos, personal statements, and reports. Our undergraduate teaching assistants help students taking first year composition courses (English 106 and 108). All of our tutors undergo rigorous training.

The student FAQs at https://owl.english.purdue.edu/writinglab/policies answer common questions about our tutorial sessions and offer tips on how best to prepare for sessions.

Students can now schedule appointments online. In addition, our satellite locations offer drop-in hours in the evenings at various locations. Please see https://owl.english.purdue.edu/writinglab for hours of operation and location information.

ESL Services

The Purdue Writing Lab offers a range of services to non-native speakers of English, covering writing and reading skills and conversational fluency:

- Tutorials for feedback on writing projects
- Self-study resources (books, CD-ROMs) for language skills practice
- Daily conversation groups (open to all non-native speakers enrolled at Purdue) for improving oral fluency

For more information on in-lab services for ESL learners, see https://owl.english.purdue.edu/writinglab/esl.

Course-specific Resources

The Writing Lab is committed to Writing Across the Curriculum at Purdue, and we welcome ideas for collaboration with other disciplines in the university. We encourage you to submit your course syllabus and assignment descriptions to the Writing Lab to help us better assist your students in their tutorials. We are also available to consult with instructors about assigning and responding to student papers, encouraging students' use of the Writing Lab, and developing ideas for special projects connected with writing. To learn more or request a consultation, visit https://owl.english.purdue.edu/writinglab/consultation.

Experienced tutors are also available to provide your class with interactive presentations on the resources available to students at the Writing Lab. We also offer classroom workshops on writing topics that can be tailored to specific class projects on a limited basis. You can learn more and request a workshop for your class at https://owl.english.purdue.edu/writinglab/workshops/index.php.

Purdue's Online Writing Lab (OWL)

The Purdue OWL (https://owl.english.purdue.edu) offers a wide variety of materials, presentations, and YouTube videos (https://www.youtube.com/OWLPurdue) to the Purdue University community and to users around the globe. The Purdue OWL also posts updates on Writing Lab events and produces the Purdue OWL News (https://owl.english.purdue.edu/purdueowlnews). Instructors and students use the OWL to:

- Access regularly-updated handouts on writing process, basic writing, and document design
- Find resources for English as a Second Language students
- Download classroom-ready PowerPoint presentations on a number of writing topics

Heavilon Hall Room 226 • (765) 494-3723 • https://owl.english.purdue.edu/writinglab
@PurdueWLab • /PurdueUniversityWritingLab