WELCOME TO ACADEMIC EXCELLENCE SHOWCASE!

AES is Western Oregon University’s annual conference that celebrates student research, scholarship and art. We have been celebrating student work and excellence since 2006; thank you for joining us this year.

AES takes a lot of work, whether that is practicing their musical skills, reading literature from the field, organizing and analyzing data, writing and revising manuscripts, providing feedback, editing abstracts, or practicing their presentations, most of the labor that goes into creating what you experience today goes unseen.

As we listen to performances, view art, enjoy presentations, and discuss students’ work with them, please take a moment or two to think—to ask—the students about the work that went into their scholarship, research or art possible. Please ask them: Who else made this possible? Whose work are they building on? Who else have they learned from? Who supported them through the process? Who guided them on their way? How did friends or colleagues change their thinking?

Like every act of scholarship, art and performance here today, AES is an experience built on the accumulated knowledge, experience, effort and work from many people. Whether it is a coding and technology reboot by Camila Gábaldon, consistent and helpful user feedback from Henry Hughes, kind and focused questions from multiple students, ASL interpreting provided by ODS, the document revisions and adjustment by Denise, Lisa and Marion in MarCom, tech support by UCS, or building support by facilities and the WUC crews...AES exists by working, building and moving forward together.

As we celebrate our students’ accomplishments, scholarship, and excellence, I hope we can all pause, ask, listen and reflect—if only for a moment—on our ancestors, our academic lineages, our predecessors, and all those who came before us and made what we do, who we are and what we are experiencing possible.

Thank you for joining us in this celebration! I hope that you learn, share and fire your inspiration for sciences and arts!

On Kalaypuya land,
GZ

Director, PURE
Coordinator, AES
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PRESENTATIONS

SESSION 1  10:15 - 11:15 A.M.
15-MINUTE BREAK

SESSION 2  11:30 A.M. - 12:30 P.M.
15-MINUTE BREAK

SESSION 3  12:45 - 1:45 P.M.
15-MINUTE BREAK

SESSION 4  2 - 3 P.M.
15-MINUTE BREAK

SESSION 5  3:15 - 4:15 P.M.
15-MINUTE BREAK

SESSION 6  4:30 - 5:30 P.M.
11-12 Health and Exercise Science, Music, Mathematics, Art & Design
15-MINUTE BREAK

SESSION 7  5:45 - 6:45 P.M.
11-12 Natural Science & Mathematics, Health and Exercise Science, Art & Design
15-MINUTE BREAK

SESSION 8  7 - 8 P.M.
11-12 Natural Science & Mathematics, Dance, Music

POSTERS

SESSION 1  10:15 - 11:15 A.M.
15, 18 COLUMBIA: Nursing, Political Science
CALAPOOIA: Behavioral Science
15-MINUTE BREAK

SESSION 2  11:30 A.M. - 12:30 P.M.
18-19 COLUMBIA: Nursing, Forensic Anthropology, Health & Exercise Science
19 CALAPOOIA: Behavioral Science
15-MINUTE BREAK

SESSION 3  12:45 - 1:45 P.M.
19-20 COLUMBIA: Forensic Anthropology, Deaf Studies & Professional Studies, Study Abroad
20 CALAPOOIA: Behavioral Science
15-MINUTE BREAK

SESSION 4  2 - 3 P.M.
19-20 COLUMBIA: Forensic Anthropology, Deaf Studies & Professional Studies, Study Abroad
20 CALAPOOIA: Behavioral Science
15-MINUTE BREAK

SESSION 5  3:15 - 4:15 P.M.
21 COLUMBIA: Environmental Awareness
WELCOME FROM THE PRESIDENT
The AES 2019 Proceedings represents the scholarly and creative work of the 14th Academic Excellence Showcase at Western Oregon University. This longstanding tradition is fundamental to our commitment to engaged learning and high-impact practices. The work that underscores the Academic Excellence Showcase enables our students to undertake scholarly and creative activities that expand their learning and promote a campus culture of academic excellence. The presentations by our students provide strong evidence that Western Oregon University is dedicated to academic excellence, student achievement, and student success.

At WOU, students are encouraged to explore creative applications of their studies under the guidance of faculty by engaging in professional-level scholarly and creative activities. Some of the students featured in this publication will go on to present their work before state, regional or even national conferences. WOU’s PURE Insights, a competitive journal of student work, will publish the best examples of the scholarly and creative works from this year’s program.

Whatever comes after the Academic Excellence Showcase, participating students are the embodiment of a transformative education that stimulates lifelong learning and exploration. I congratulate our faculty, who motivate and engage our students to take their classroom experience on a journey that transcends the boundaries of the traditional classroom.

The Academic Excellence Showcase is one of the university’s highlights during the academic year. I want to thank the students and faculty who have chosen to share their work with us. Western Oregon University commends our students and faculty for your dedication, and we are proud of all you do because together we succeed.

President Rex Fuller

AWARD PRESENTATIONS
10:15–11:15 a.m. InventOR Awards
Santiam, WUC

11:30 a.m.–12:30 p.m. Peter Sears Poetry Prize
Willamette, WUC

11:30 a.m.– Noon Richard and Lotte Meyer Prize for Excellence in Literature
HHC 306

3:15–4:15 p.m. Maurice Challenge Competition
Santiam, WUC

4 p.m. Health & Exercise Science Awards
RWEC 101

6 p.m. Natural Science & Mathematics Student Recognition
WILLAMETTE, WUC

ART AND MUSIC PERFORMANCES
9–10 a.m. Presidential Plenary “Interplay of Arts and Sciences”
Pacific, WUC

11:30 a.m.–12:30 p.m. Music Recitals
Smith Music Hall 121

2–4:15 p.m. Theater Performance Middletown
Rice Auditorium

Hypertext Arcade Interactive Digital Games
HL 108

Student art exhibition reception
3:15–4:15 p.m. CH Gallery

4:30–7 p.m. Video and animation shorts by students of Art & Design
ITC 211

PROVOST
Today’s Academic Excellence Showcase provides compelling snapshots of the academic discoveries and creative pursuits that take place every day at WOU—on stage, in the lab, at the library or in the field. WOU is a place where faculty encourage students to view learning as a dynamic process that extends beyond the traditional classroom, where students are urged to pursue their interests and commit to a quest for creativity and inquiry. Today’s showcase is vibrant evidence of that intellectual and personal growth, illustrating the rich diversity of scholarly activities that take place at WOU.

It is a pleasure to acknowledge students’ effort and accomplishments as they present their work today. I also want to convey my heartfelt appreciation to our faculty for their support of our students. I strongly encourage those students participating today as observers to become involved and to take advantage of your time at WOU, where professors are eager to mentor and collaborate with students in pursuit of knowledge, scholarship and creativity.

Provost Rob Winningham
CAPSTONE PRESENTATIONS

CHEMISTRY
NS 101
8 a.m.
8:45 a.m.
9:30 a.m.
10:15 a.m.
10:30 a.m.
11:15 a.m.
Noon
1:00 p.m.
1:45 p.m.
2:30 p.m.
3:15 p.m.
3:30 p.m.
4:15 p.m.

Haylie Shinsato
Nick Wanderscheid
D-Dre Wright
BREAK
Dakota Winslow
Jessica Alexander
BREAK
LUNCH
Adam Baron
Alec Smith
Brandon Uri
Alexandria Azorr
Rachelle Austin

HISTORY
HWC 105 • 10:15 a.m. - 1:45 p.m.

COMPUTER SCIENCE & INFORMATION SYSTEMS
ITC 211 • 10:15 a.m. - 4:15 p.m.

EARTH SCIENCE
HWC 301 • 12:45 - 4:15 p.m.

MATHEMATICS
HWC 204 • 12:45 - 5:30 p.m.

WILLAMETTE PROMISE SESSIONS

PACIFIC ROOM, WUC

10:15–11:15 a.m.
WELCOME
This session curates excellent AES sessions for our Willamette Promise guests. These sessions are open to all WOU community members, as well as our Willamette Promise guests.

Stephanie Kurz, Courtney Lau Hee
Creative Behavior Survey: Validating a New Measure of Creativity
Mentors: David Foster, Jessica Murfin

Morgan Haskett
How to Get Involved at WOU
Mentor: Jaime Cloud

Anakaren Puentes
Mundo y cultura, World and culture
Mentor: Jaime Marroquín

11:30 a.m.–Noon
Kodie Gallegos
Attention Delay in the Presence of Visual Distractors
Mentor: Dan McCarthy

Emily Frey, Maxwell Grimsrud
Forced Connectivity: Environmental Choice and Potential Outcomes
Mentor: Ethan McMahan

Noon–12:30 p.m.
Video shorts by WOU Art & Design students
Willamette Promise guests are encouraged to remain and view the films or visit our fantastic poster sessions in the Columbia and Calapooia Rooms!

12:30–1:30 p.m.
LUNCH
A plenary is a session that students and faculty from all fields are welcome to participate in. The first Presidential Plenary was in 2017, and the theme was solar eclipses. The session included student presentations ranging from mathematics to poetry as well as a special introductory lecture. The showcase team has continued this tradition in AES. This year’s theme, Interplay of Arts and Sciences, hopes to encourage the interaction of the arts and sciences via the inspiration of the STEAM program.

DIANE BAXTER
STEPPING INTO THE LIGHT: THOUGHTS ON PERFORMANCE ANXIETY
This presentation will focus on how we can do our best under duress.

ANNIE ITTNER
LEARNING HOW TO READ IN ANOTHER LANGUAGE
How can the arts and sciences help make sense of learning to read in another language? The school communities in our country are increasingly multilingual. Multilingualism is an asset to the learning environments in classrooms. Neuroscience tells us that the bilingual brain has greater cognitive flexibility. Understanding this cognitive flexibility can help teachers develop a classroom environment in which students learning how to read can capitalize on their strengths. One way teachers support this is through exploring the arts of literature, writing, and storytelling.

GAY TIMKEN
PLAY, ART, SCIENCE OR...?
“In our play we reveal what kind of people we are.” —Ovid, Roman poet (427-347 BC)
What is play? Why do we play? Is play art or science or neither? How does play change with age, and should it? “We don’t stop playing because we grow old, we grow old because we stop playing.” Ben Franklin

DAN MCCARTHY
WHAT ILLUSIONS CAN TELL US ABOUT PERCEPTION
If there is one thing that can be learned from the study of visual perception, it is that we
do not see the world as it is, but rather construct our reality based available cues in the environment. Seeing the world appears so effortless that we often take for granted how complicated vision actually is. In certain cases, we misperceive the world, and sometimes we perceive things that do not physically exist outside our minds. Such visual illusions that ‘break the brain’ can provide very informative insight into the underlying neural mechanisms that give rise to our visual experience. Here, I will show several compelling examples of visual illusions and discuss how we can learn about the brain from instances in which it fails to arrive at the “right” answer.

**DR. LEANNE MERRILL**

**IT’S TURTLES ALL THE WAY DOWN: SELF SIMILARITY IN MATHEMATICS, MUSIC AND LIFE**

Self-similarity originated as a mathematical term, but it describes an idea that pervades many scientific and artistic realms. Mathematical fractals, musical frequencies and recursive computer algorithms all exhibit self-similarity in various forms. What can we learn from the study of self-similarity across disciplines? This talk seeks to explore connections across disciplines through the lens of self-similar structures.

**WESTERN OREGON UNIVERSITY CHAMBER SINGERS**

*The Eyes of All Wait Upon Thee* (Jean Berger)

*Shenandoah* (James Erb)

*Yonder Come Day* (Paul John Rudoi)

Tristin Thomas, soloist
Noah Adams, tambourine
ENGLISH STUDIES • WILLAMETTE, WUC
SESSION CHAIR: HENRY HUGHES
The English Studies session will feature exceptional poems, stories, research project presentations and essay excerpts by students. The session will also include presentations by superlative seniors, as well as the winners of the Phi Kappa Phi First-Year Writing Award, Peter Sears Prize for Poetry, and the Meyer Prize for Literature.

Sean Tellvik, Mindy Mawhirter
Nguvian: A Voiced, Antonymous Conlang (poster)

Madeleine Hannah
A Changing Understanding of Writing (poster)

Cheyanne Bumgardner
Bozoome: How to Create Your Own Language (poster)
Mentor: Cornelia Paraskevas

Ailyn Angel
The Lexicon of Immigration in Presidential Speeches: Carter to Trump

Antonia Perez
Comparison of Politeness Strategies Among Native and Non-Native English Speakers

Nicole Caldwell
A Corpus Analysis of Color in British and American Gothic Literature
Mentor: Rob Troyer

Heidi Benham
How Do Readers Interpret Metaphors?
Mentor: David Hargreaves

INVENTOR: OREGON’S COLLEGIATE PROTOTYPING COMPETITION • SANTIAM, WUC
SESSION CHAIR: KATE SCHWARZLER
InventOR is Oregon’s first state-wide prototyping competition aimed at college students across the state. InventOR recognized that innovation and entrepreneurship activity is happening all over Oregon, and it provides resource, mentoring and an environment where college students can get together to solve today’s most pressing problems. Student Justin Dodge is developing a prototype for a batting glove that will be fitted with triax accelerometers to record swing speed and angle data, that can be sent to a computer via Bluetooth for analysis.

Justin Dodge
Team Wolf: Science and Sports
Mentor: William Armstrong

ART & DESIGN PORTFOLIO PRESENTATIONS • RWEC 101
SESSION CHAIRS: JENNIFER BRACY AND JODIE GARRISON
Graduating seniors in Art & Design present their portfolios.

Nell Danforth
Mentor: Jennifer Bracy

Laura Willoughby
Mentor: Jennifer Bracy

Jessica Brown
Mentor: Jennifer Bracy

Cory Timmons
Mentor: Jennifer Bracy

DEAF STUDIES & PROFESSIONAL STUDIES • RWEC 107
SESSION CHAIR: CHIEN-CHUN LIN
Students from various programs at the Division of Deaf Studies and Professional Studies will be presenting their class projects.

Sarah Tovar, Stephanie Shinkle, Mackenzie Gallo
Pseudo Mental Health Disorder Assessment
Mentor: Chien-Chun Lin

HISTORY SENIOR SEMINAR PRESENTATIONS • HWC 105
SESSION CHAIR: DAVID DOELLINGER
In this session, history majors completing their Senior Seminar (history’s capstone project) will present their senior thesis projects. There are 10 history majors engaged in the Senior Seminar process during the 2018-2019 academic year. Four of the students are developing research projects based on an extensive internship experience at the Oregon State Archives; the other six students are developing theses based on individual research projects.

Dayna Ragasa
Mental Hospitals and Their Effect on Race and Gender in the 1920s
Mentor: Kim Jensen

Hudson Kennedy
Restraint as Therapy: Institutional Control at the Oregon State Hospital in the 1920s
Mentor: Kim Jensen

Owen Reutlinger
You Say You Want A Revolution: Slavery in Haiti and the United States in the Early 1800s
Mentors: John Rector, Elizabeth Swedo

Alexandra Bell
Confronting The Early Relationship Between the United States and Saudi Arabia
Mentor: John Rector

History Senior Seminar (history’s capstone project) students (l-r): Damon Solomos, Andres Alvarez, Austin Jones, Dayna Ragasa, Hudson Kennedy, Alexandra Bell, Marcos Morales II, Alex Eidler, Owen Reutlinger
Seniors in sociology will present overviews of their research projects, which are required for the major. Research must include clear methodologies and theoretical conclusions. Collected data must include field work that includes quantitative and qualitative methods. Research questions are connected to social conditions often with a focus on social problems.

Malcom Archambault
*Play Culture Over Five Decades*
Mentor: Maureen Dolan

Alissa Benefiel, Dean Braa
*Factors of Church Attendance*
Mentor: Peter Callero

Matthew Ciraulo
*Influence of Technology in Family Meals*
Mentor: Maureen Dolan

Oskar Dieterich
*College Entrance Exams In Education*
Mentor: Peter Callero

**A REDNECK, A GOTH, AND A TRANSCONSERVATIVE WALK INTO A MALL: NON-NORMATIVE VISUALS AND NONVERBAL COMMUNICATION • HWC 306**
SESSION CHAIR: PAULA BALDWIN
The presentations are based on an assignment from a COM 331 Nonverbal Communication class. Students worked in pairs, with one student being the observer and the other student being the actor. The actor takes on some type of non-normative visual. Sometimes it is a medical mask, or a facial scar, or being in a wheelchair, or any approved non-normative visual. The non-normative portion is to duplicate something visual that we see rarely. This is done so that the pair of students can identify the nonverbal reaction, connect it with the correct nonverbal code, analyze the interaction in which the code occurred, and ultimately, theorize how this did or could affect the communication process. The pairs spent four hours in a highly populated area, wrote an individual journal about what they saw, and then came together to write a paper based on their analyses.

Presenters:
Our Redneck: **Tommy Ridgway**, and his Observer, **Kyle Wells**
Our Goth: **Courtney Croy**
Our Transconservative: **Nicholas Marlas**

**ACADEMIC EXCELLENCE IN DANCE • MAPLE HALL**
SESSION CHAIR: AMY MCDONNELL

Robin Evers
*Lulu Sveigard's Ideokinesis*
Mentor: Amy McDonnell

Monica Hardesty
*Dance Performance: M.O.M*
Mentor: Cynthia Garner

Ramon Rodriguez
*Hermanos*
Mentor: Cynthia Garner

Robin Evers
*Everyday Wasted*
Mentor: Darryl Thomas

Sharon Oberst
*Aeolian: 2018-2019* Guest Artist Presentation

**COMPUTER SCIENCE AND INFORMATION SYSTEMS CAPSTONE PROJECTS • ITC 211**
SESSION CHAIRS: BECKA MORGAN, TED BEERS
Enjoy the real-world results from WOU’s Computer Science and Information Systems teams that have completed a grueling two-term senior project development sequence.

Nicholas Leonard, Alex Bishop, Jace Woods, Chi Li
*Powerlevel*
Mentors: Becka Morgan, Scott Morse

Grassman, Jacob, Grant Fullerton, Multezem Kedir
*PaintBox*
Mentor: Ted Beers

Manuel Larios, Mason Stokes, Nikki Ki
*URent - A Peer-To-Peer Rental Website*
Mentors: Becka Morgan, Scott Morse

**15 MINUTE BREAK**
PETER SEARS POETRY PRIZE
CHAIR: HENRY HUGHES
First Prize: Nicole Caldwell
Coming Home

Second Prize: Tricia Manzano
This Too Will Take Some Time

Third Prize: Laura Wildfang
Fly Fishing Romance

RICHARD AND LOTTE MEYER PRIZE FOR EXCELLENCE IN LITERATURE
SESSION CHAIR: GAVIN KEULKS
First Prize: Elizabeth Obendorf
Materialist and Consumerist Anxieties in Washington Irving's “The Legend of Sleepy Hollow”

Second Prize: Camden Jones
Madame Bovary's Art Show: Flaubert and the Exposition Universelle

Third Prize: Kaela Wehrman
The Burden of Fantasies and the Harshness of Reality

ALTERNATIVE BREAK • SANTIAM, WUC
SESSION CHAIR: ZOE CHAN-TUYUB
Three teams served with the Alternative Break Program during spring break 2019. They partnered with volunteer organizations in various locations to gain hands-on service-learning experiences in different cultures and to engage with local and global communities by volunteering with partners. Each team focused on a specific social justice area of concern and explored root causes relative to the topic, learned the importance of active citizenship, and reflected on the experiences. Our time with the Alternative Break Program before, during, and after the trip challenged us to grow professionally and personally, which helped us see the world through a different perspective and continue to raise awareness through our experiences. The student teams included: Caitlyn Nakatsukasa, Maria Regalado Pina, Suleidi Gonzalez, Ellen Moore, Jennifer Avila Lara, Morgan Williams

HISTORY SENIOR SEMINAR PRESENTATIONS • HWC 105
SESSION CHAIR: DAVID DOELLINGER
In this session, history majors completing their Senior Seminar (history’s capstone project) will present their senior thesis projects. There are 10 History majors engaged in the Senior Seminar process during the 2018-19 academic year. Four of the students are developing research projects based on an extensive internship experience at the Oregon State Archives; the other six students are developing theses based on individual research projects.

Brant Cheeley
Misinformed but Well-Meaning: United States Newspaper Coverage of the Bosnian War From 1992-95
Mentor: David Doellinger

Andres Alvarez
Immigrants, Mental Health and the Oregon State Hospital
Mentor: Kim Jensen

Alexander Eidler
The Teutonic Order and the Baltic Crusades
Mentor: Elizabeth Swedo

RESEARCH AND PRAXIS IN SOCIOLOGY • HWC 203
SESSION CHAIR: DEAN BRAA
Seniors in sociology will present overviews of their research projects, which are required for the major. Research must include clear methodologies and theoretical conclusions. Collected data must include field work that includes quantitative and qualitative methods. Research questions are connected to social conditions often with a focus on social problems.

Michael Gonzalez
The Socialization of Political Consciousness
Mentor: Dean Braa
Bethany Harding  
_Social Perceptions of Sexual Abuse by Gender_  
Mentor: Maureen Dolan

Katrina Jacobs  
_Gender Inequality in College Classrooms_

Madison Kelley  
_Perceptions of Oregon Child Welfare Workers_  
Mentor: Peter Callero

**CONTESTING CULTURAL FORMATIONS: TOP PAPERS IN MEDIA CRITICISM • HWC 306**  
SESSION CHAIR: EMILY PLEC  
This session includes the top papers from Critical Media Analysis, covering issues of race, class and gender in TV, film, books and viral videos.

Sarah Daves  
_When the Truth Isn’t Enough: Anti-Racist-White-Hero Framework, Tokenism, and Post-Racism_  
Mentor: Emily Plec

Never Retallack  
_Highway to Masculinity_  
Mentor: Emily Plec

Calla Shrode  
_Cross Culture Ideologies for Class Stratification in Elite_  
Mentor: Emily Plec

**COMPUTER SCIENCE AND INFORMATION SYSTEMS CAPSTONE PROJECTS • ITC 211**  
SESSION CHAIRS: BECKA MORGAN, TED BEERS  
Enjoy the real-world results from WOU's Computer Science and Information Systems teams that have completed a grueling two-term senior project development sequence.

Aidan Ohnemus, Tim Korchagin, Ben Roehrig  
_Books@WOU Online Book Exchange_  
Mentor: Ted Beers

Launia Davis, Joshua Martinez  
Schaefer Jones, Autumn Greenley  
_The Student Scheduler - Yellow Umbrella Corp_  
Mentors: Becca Morgan, Scott Morse

Stephen Danchuk, Yiming Wang, Eric Lomeli  
_WolfConnect.org_  
Mentor: Ted Beers

**MUSIC RECITALS • SMITH HALL 121**

Nikita Williams, voice  
_The Black Swan, G. Menotti, from The Medium; Jackie Morelli, piano_

Mengyuan Chen, voice  
_Something Wonderful, R. Rodgers; Jackie Morelli, piano_

Meiyi Liu, piano  

Helen Goodyear, voice  
_When He Sees Me, S. Bareilles, from the musical The Waitress; Jackie Morelli, piano_

Levi Polasek, piano  
_“Anhedonia” Sonata No. 1 in C-sharp Minor, L. Polasek_

Yilei Zhao, voice  
_Sonata in A Minor, K. 310: Allegro maestoso, Yuzhou Huang, piano_  
_Una donna a quindici anni, W.A. Mozart; Jackie Morelli, piano_

Gabriela Monroy, horn  
_Concerto in B-flat Major, Op. 91 R. Glière; Jackie Morelli, piano_

Ruijiaming “Jennie” Yang, voice  
_Laurie’s Song, A. Copland; Jackie Morelli, piano_

Chen Xia, piano  
_Pour le Piano: Sarabande, C. Debussy_

Xiaoyu Zhu, voice  
_Absence, H. Berlioz, from Nuits d’été; Jackie Morelli, piano_

**SESSION 3**  
12:45-1:45 P.M.

**ART & DESIGN PORTFOLIO PRESENTATIONS • RWEC 101**  
SESSION CHAIRS: JENNIFER BRACY, JODIE GARRISON  
Graduating seniors in Art & Design present their portfolios.

Fan Wang  
Mentor: Jodie Garrison

**HEALTH & EXERCISE SCIENCE • RWEC 107**

Colton Cypert  
_Developing Strength and Muscle Hypertrophy in a College Student: A Systematic Approach with a Client_  
Mentor: Tom Kelly

Sawyer Heckard  
_A Critical Analysis of the Ergogenic Claims About Beta-Alanine_  
Mentor: Tom Kelly

Ricardo Manzo  
_Increasing Cardiovascular Endurance and Weight Management in a College Student_  
Mentor: Tom Kelly

**MODEL UNITED NATIONS MOCK SESSION • RWEC 201**  
SESSION CHAIR: MARY PETTENGER  
This is a mock United Nations session with the following participants:

Andreas Peven, Alex Ped, Steven-Michael Richmond, Jared Roe, Cristian Amador Hernandez, Jacen Miller, Brittany Kasim Carew Mary Pettenger, Matthew Stefansky, Holt Henderson, Amber Holland, Jenny Rooper, Maddie Dohrer

15 MINUTE BREAK
HISTORY SENIOR SEMINAR PRESENTATIONS • HWC 105
SESSION CHAIR: DAVID DOELLINGER
History majors completing their Senior Seminar (history's capstone project) will present their senior thesis projects. There are 10 history majors engaged in the Senior Seminar process during the 2018-2019 academic year. Four of the students are developing research projects based on an extensive internship experience at the Oregon State Archives; the other six students are developing theses based on individual research projects.

Marcos Morales, Elizabeth Swedo
The Creation of a King: How Geoffrey of Monmouth Influenced the Story of King Arthur
Mentor: Bau-Hwa Hsieh

Austin Jones
Confessionalization and Actualization in Calvin’s Geneva
Mentor: David Doellinger

Damon Solomos
Eugenics in Practice at The Oregon State Mental Hospital
Mentors: David Doellinger, Kim Jensen

RESEARCH AND PRAXIS IN SOCIOLOGY: HWC 203
CHAIR: DEAN BRAA
Seniors in sociology will present overviews of their research projects, which are required for the major. Research must include clear methodologies and theoretical conclusions. Collected data must include field work that includes quantitative and qualitative methods. Research questions are connected to social conditions often with a focus on social problems.

April Lyons
Political Ideology and Voting
Mentor: Dean Braa

Morgan Miller
Modern Communication Technology and Community Organizing
Mentor: Dean Braa

Janie Ramirez Manzo
The School to Prison Pipeline in the United States
Mentor: Maureen Dolan

Calla Shrode
Influence on Dietary Habits in Children: Corvallis Farm to School
Mentor: Dean Braa

MATHEMATICS CAPSTONE PRESENTATIONS • HWC 204
SESSION CHAIR: MATTHEW NABITY
This session is for mathematics senior project presentations and mathematics education capstone presentations.

Emily Farnell
Understanding the Method of Completing the Square through its Historical and Conceptual Development
Mentor: Ben Cote

Sophia Hanefeld
How Many Seats Can You Fit in a Soccer Stadium?
Mentor: Leanne Merrill

Morgan Roan
Kicking It With Geometry
Mentor: Leanne Merrill

EARTH SCIENCE SENIOR SEMINAR • HWC 301
Forest Hydrology and Geomorphology: Perspectives from the Pacific Northwest
SESSION CHAIR: STEVE TAYLOR
This theme session provides an overview of hydrogeomorphic processes in relation to forest management practices as applied to mountainous watersheds in western Oregon. Study topics include hydrologic process, mountain geomorphology, soils, erosion/sedimentation, wood recruitment, carbon cycling and effects of climate change.

Palmer Baldwin
Hydrologic Response to Timber Harvest and Forest Management Practices in Western Oregon
Mentor: Steve Taylor

Timothy Hagen
Sediment Dynamics and Erosion Response to Forest Management Practices in Western Oregon
Mentor: Steve Taylor

PHILOSOPHY • HWC 305
SESSION CHAIR: MARK PERLMAN

Jon Naylor
From Love to Hate: Restructuring Aristotelian Friendship
Mentor: Mark Perlman

Jacob Martin
Making Existentialism Compatible
Mentor: Mark Perlman

WAR AND WRESTLING: ANALYSIS OF MEDIA MESSAGING • HWC 306
SESSION CHAIR: DANA SCHOWALTER
This session will begin with honors inductees and conclude with the following two presentations. This session includes the top papers from Critical Media Analysis, covering issues of sex, environmentalism, class, consumption and militarism.

Kalea Borling
A Response of War From Across the Universe

Ta’ashi Napoleon
WWE Women’s Wrestling
COMPUTER SCIENCE AND INFORMATION SYSTEMS CAPSTONE PROJECTS • ITC 211
SESSION CHAIRS: BECKA MORGAN, TED BEERS
Enjoy the real-world results from WOU’s Computer Science and Information Systems teams that have completed a grueling two-term senior project development sequence.

Katelyn Rule, Jerika Hammett, Runnan Li, Yumin Chen, Fishhawk Lake Water Website
Mentors: Becka Morgan, Scott Morse

Gregory Coe, Joseph Stepanenko, Jiading Li
Projects Made Easy
Mentor: Ted Beers

Anthony Franco, Anthony Visuano, Travis Dennis
Whiskey Tango Foxtrot
Mentors: Becka Morgan, Scott Morse

15 MINUTE BREAK

SESSION 4
2 - 3 P.M.
Middletown, a play by Will Eno, will be performed in Rice Auditorium from 2 to 4:15 p.m.

BEHAVIORAL SCIENCE SYMPOSIUM • PACIFIC, WUC
SESSION CHAIRS: JAIME CLOUD, BRENT KING

Jacoby Leseberg
“Old Coot” or “Wise Owl?” Exploring Relationships Between Young Adult Grandchildren and Their Grandfathers
Mentor: Margaret Manoogian

Margaret Leinenweber
It’s Always Family First for us: An Intergenerational View on Grandparent Death
Mentor: Margaret Manoogian

Sharik Diaz, Mary Howells, Christy Fitch
Life Review: Helping Older Adults Engage in Self-Discovery and Legacy Making
Mentor: Margaret Manoogian

Renata Kerwood, Sam Rowley, Mandie Kondash, Hannah Wehr
Opportunities for Partnership Between a Senior Center and University to Create a More Age-Friendly Community
Mentor: Melissa Cannon

INTERPLAY OF SCIENCE & THE ARTS: OPEN SESSION • SANTIAM, WUC
SESSION CHAIR: MICHAEL BALTZLEY
Diverse presentations from multiple departments across campus.

Kayla Baker
Why Art Matters in an Increasingly Analytical World
Mentor: Karen Haberman

Eric Frey, Nelina Vargas, Nicholas Marlas
#WOUBorderWall: A Discussion on Interactive Art on Campus
Mentor: SungEun Park

Maria Rueda Barrera
Upward Bound Internship (CIP)
Mentor: Karina Lopez

Nicholas Wanderschied, Eva Batenhorst
The Effects of Population Density on Eclosion Rates and Size In Drosophila melanogaster
Mentors: Michael Baltzley, Kristin Latham-Scott

HEALTH & EXERCISE SCIENCE • RWEC 107
CHAIR: EMILY LILO
Various health and exercise science students present on their work with community health and exercise science.

Danielle Reinke, Grant Kauffman, Setareh Entagh,
The Nutrition Mission
Mentor: Emily Lilo

April Mickelson, Crystal Scheese
Evaluation of Nurse Family Partnership
Mentor: Doris Cancel-Tirado

RESEARCH AND PRAXIS IN SOCIOLOGY • HWC 203
CHAIR: DEAN BRAA
Seniors in sociology will present overviews of their research projects, which are required for the major. Research must include clear methodologies and theoretical conclusions. Collected data must include field work that includes quantitative and qualitative methods. Research questions are connected to social conditions often with a focus on social problems.

Emmie Slaughter
Research Presentation on Involvement with the Foster System
Mentor: Dean Braa

Libby Vigil
Multiethnic Dating Patterns of College Students: Experiences, Attitudes, Preferences and Prevalence
Mentor: Maureen Dolan

Chavon Yamashita
Hawai‘i Culture
Mentor: Peter Callero

MATHEMATICS CAPSTONE PREsentATIONS • HWC 204
SESSION CHAIR: MATTHEW NABITY
This session is for mathematics senior project presentations and mathematics education capstone presentations

Yetzaveli Almonte Cervantes
Using Circular Statistics to Investigate Changes in the Day of First Bloom
Mentor: Matthew Nabity

Max Harmon
Paired Kidney Matchmaking Analysis
Mentor: Matthew Nabity

Aubrey Manculich
Newton’s Method and Chaotic Behavior
Mentor: Matthew Nabity
EARTH SCIENCE SENIOR SEMINAR  •  HWC 301
SESSION CHAIR: STEVE TAYLOR
Forest Hydrology and Geomorphology: Perspectives from the Pacific Northwest
This theme session involves presentation by WOU Earth Science students enrolled in ES407 Senior Seminar. The focus is on forest hydrology and geomorphology with case study examples from western Oregon. Watersheds are composed of channel networks and represent one of the most fundamental landscape systems on the Earth’s surface. They provide ecological services along riparian corridors that form critical habitat in the Pacific Northwest. The historic interplay between human occupation, intensive land management and fluvial systems has resulted in significant impairment of waterways over the past century. This theme session provides an overview of hydrogeomorphic processes in relation to forest management practices as applied to mountainous watersheds in western Oregon. Study topics include hydrologic process, mountain geomorphology, soils, erosion/sedimentation, wood recruitment, carbon cycling and effects of climate change.

Austin Wegner
Forest Road Construction and Sediment Production in Western Oregon
Mentor: Steve Taylor

Hunter Collins
Landslide and Debris Flow Occurrence in Forested Landscapes of Western Oregon
Mentor: Steve Taylor

Samantha Abel
Perspectives on Climate Change and Forest Hydrology in the Oregon Cascades
Mentor: Steve Taylor

ANTHROPOLOGY SYMPOSIUM  •  HWC 305
SESSION CHAIR: KATHERINE MILLER
Anthropology students will present their senior capstone projects.

Cameron Ryals
Peace Within the Baha’i 2019: Faith: Understanding Ideas In Action
Mentor: Katherine Miller

Haliegh Nagle
Excavating a 19th Century Men’s Boarding House in Santa Clara, California
Mentors: Robin Smith, Misty Weitzel

ADDRESSING FEMINISTS, ENVIRONMENTALISTS AND ADDICTS: TOP PAPERS IN CONTEMPORARY PUBLIC ADDRESS  •  HWC 306
SESSION CHAIR: DANA SCHOWALTER
This panel includes the top papers in the Communication and Public Address course.

Kyle Juba
A Sermon for the Modern Era: Bill McKibben’s Prophetic Persona and Usage of The Locus of the Irreparable
Mentor: Dana Schowalter

Nora Angus
We Should All Be Feminists
Mentors: Dana Schowalter, Emily Plec

Nicholas Fausti
Addiction Redefined: The Rhetorical Significance of Johann Hari’s Speech “Everything You Know About Addiction is Wrong”
Mentor: Dana Schowalter

COMPUTER SCIENCE AND INFORMATION SYSTEMS CAPSTONE PROJECTS  •  ITC 211
SESSION CHAIRS: BECKA MORGAN, TED BEERS
Enjoy the real-world results from WOU’s Computer Science and Information Systems teams that have completed a grueling two-term senior project development sequence.

Forrest Allen, Cody Stewart, Ruoyu Hui, Xinrui Cheng
Garden Management Systems
Mentor: Ted Beers

Kexin Pan, Shion Wakita, Shayna Conner, Austin Bergman
Rec Nexus Project
Mentors: Becka Morgan, Scott Morse

Michael Versoza, Gregory Coe, Korchagin Tim
Put Food In Your MonMouth
Mentor: Ted Beers

HYPERTEXT ARCADE  •  HL 108
Hypertext arcade is set up as an alternative arcade showcasing text-based games, narratives and stories. Although it is now ubiquitous, the hyperlink is the most radical feature of the internet. The ability to hyperlink web pages together allows for all kinds of complex new readings. Click into ambiguity, nuances and deep journeys.

Guests, students and faculty are invited to come in and play the hypertext games presented during this session.

Cory Timmons
Sleeping Beauty: Annotated
Mentor: Garima Thakur

Laura Willoughby
Like the Rain
Mentor: Garima Thakur

Bryce Poehlitz
Drawings of a Thousand Cats
Mentor: Garima Thakur

Jocelyn Garcia
Where Are You?
Mentor: Garima Thakur

Sohaina Maratita
Sovereignty
Mentor: Garima Thakur

15 MINUTE BREAK
SESSION 5
3:15 - 4:15 P.M.

BEHAVIORAL SCIENCE
SYMPOSIUM • PACIFIC, WUC
SESSION CHAIRS: JAIME CLOUD, BRENT KING

Ashley Richert
The Prospective Ongoing Investigations on Nontraditional Students
Mentor: Deborah Brannan

Roman Martinez
Does a Performance Task Impact Interest in Feedback?
Mentor: Ethan McMahan

Arianna Stone, Morgan Haskett
Waist-to-Hip Ratio in the Pop-Out Effect
Mentor: Jaime Cloud

MAURICE UNDERGRADUATE INITIATIVE: $5,000 AWARD PRESENTATION • SANTIAM, WUC
Please join us at this reception to celebrate the Maurice Challenge Competition, including the presentation of the $5,000 award to the student winner of the 2019 competition, followed by a brief overview of the winning project by the award recipient, Monica Cerda Ortiz. This year’s finalists and their projects are: Terann Anderson, Operation Home; Berlyn Nicole A. Buncal, Landscape: A Part of Our Daily Lives; Monica Cerda Ortiz, Western Oregon University Dream Center; Michael Weaver, Making Vocational Training Materials Accessible to the Homeless; Barbara Worthington, Alzheimer’s Disease Does Not Discriminate: Exploring the Effectiveness of Augmentative and Alternative Communication Cure Cards Amongst Hispanic/Latino Populations.

This unique competition offers WOU students a rare opportunity to win an unrestricted cash award based on their ability to define a problem of importance to them and to pursue solving that problem without restrictions on their creativity, innovation or execution. Ultimately, the competition intends to help students broaden their knowledge about themselves and their abilities, as well as learn more about the global community. The winner(s) are chosen based on the a) innovation, design, and execution of the project over its implementation, b) depth of knowledge gained through the student’s project, c) impact of the project on the campus and community, and d) the quality, clarity and appropriateness of the analysis report and presentation to the committee. Learn more about the competition, its student winners, and how to participate at: wou.edu/mauriceprize.

HEALTH & EXERCISE SCIENCE • RWEC 107
SESSION CHAIR: EMILY LILO Various health and exercise science students present on their work with community health and exercise science.

Cristina Garcia Toche
Food Literacy and Access to Healthy Food Needs Among College Students
Mentor: Megan Patton-Lopez

Gisela Ayala Echeverria
Designing a Self-Sufficiency and Food Literacy Program for Low-Income Adults: A Formative Evaluation
Mentor: Megan Patton-Lopez

Danielle Seuser-Smith
Gardening and Nutrition Education with School Age Youth: Case study with Boys and Girls Club of Salem, Marion and Polk Counties
Mentor: Megan Patton-Lopez

TELLING OUR STORIES: HOW MICROAGGRESSIONS SHAPE LIVED EXPERIENCE • HWC 105
SESSION CHAIR: ERIN BAUMGARTNER Members of the WOU community will share personal stories about microaggressions that highlight how lived experiences can vary because of privilege. Part of this session will feature an opportunity for conversation about how we can take steps as a campus to be more inclusive. Because some of our stories are confidential, we are not listing presenters.

MATHMATICS CAPSTONE PRESENTATIONS • HWC 204
SESSION CHAIR: MATTHEW NABITY This session is for mathematics senior project presentations and mathematics education capstone presentations.

Gregory Miller
NBA MVP Predictor
Mentor: Matthew Nabity

Tyler Jones, James Kelson, Kalynn Yamada
A Discrete Model to Aid the Crisis in Puerto Rico
Mentor: Matthew Nabity

Kristen Piller
Jordan Canonical and Isomorphism Relationships
Mentor: Matthew Nabity

Leslie Riley
Patterns in Wythoff’s Game of Nim
Mentor: Cheryl Beaver

MUSIC: ETHNOMUSICOLOGY AND GRADUATE RESEARCH PROJECTS • HWC 205
SESSION CHAIR: DIANE BAXTER Fieldwork projects in ethnomusicology and research projects from music graduate students will be presented. Topics will vary and will be announced at the session.

Julia Fruit
Clara Schumann: Composer
Mentor: Diane Baxter
Drew Swatosh
Timbre and Accessibility in Choral Music
Mentor: Diane Baxter

Washington Plada
Multicultural Music Composition
Mentor: Diane Baxter

EARTH SCIENCE SENIOR SEMINAR
• HWC 301
SESSION CHAIR: STEVE TAYLOR
Forest Hydrology and Geomorphology: Perspectives from the Pacific Northwest
This theme session involves presentation by WOU Earth Science students enrolled in ES407 Senior Seminar. The focus is on forest hydrology and geomorphology with case study examples from western Oregon. Watersheds are composed of channel networks and represent one of the most fundamental landscape systems on the Earth’s surface. They provide ecological services along riparian corridors that form critical habitat in the Pacific Northwest. The historic interplay between human occupation, intensive land management and fluvial systems has resulted in significant impairment of waterways over the past century. This theme session provides an overview of hydrogeomorphic processes in relation to forest management practices as applied to mountainous watersheds in western Oregon. Study topics include hydrologic process, mountain geomorphology, soils, erosion/sedimentation, wood recruitment, carbon cycling and effects of climate change.

ANTHROPOLOGY SYMPOSIUM
• HWC 305
SESSION CHAIR: KATHERINE MILLER
Anthropology students will present their senior capstone projects.

STUDENT ART EXHIBIT
RECEPTION • CAMPBELL HALL CANNON GALLERY OF ART
The Cannon Gallery of Art proudly presents the 51st Annual Western Oregon University Juried Student Art Exhibition. Join us for a reception to view this year’s outstanding work. Light refreshments will be served.

COMPUTER SCIENCE AND INFORMATION SYSTEMS CAPSTONE PROJECTS • ITC 211
SESSION CHAIRS: BECKA MORGAN, TED BEERS
Enjoy the real-world results from WOU’s Computer Science and Information Systems teams that have completed a grueling two-term senior project development sequence.

Khorben Boyer, Stuart Ashenbrenner, Dominic Groshong, Brock Vance
Dialogist
Mentors: Becka Morgan, Scott Morse

Michael Versoza, Stuart Gee, David Kunz
The Wolves Den Food Pantry
Mentor: Ted Beers

Stacia Fry, Hector Acosta-Cervantes, Tiffany Jansen, Adrian Vickers
ReadyGO Travel
Mentors: Becka Morgan, Scott Morse

HYPERTEXT ARCADE • HL 108
Hypertext arcade is set up as an alternative arcade showcasing text-based games, narratives and stories. Although it is now ubiquitous, the hyperlink is the most radical feature of the internet. The ability to hyperlink web pages together allows for all kinds of complex new readings. Click into ambiguity, nuances and deep journeys.

Guests, students and faculty are invited to come in and play the hypertext games presented during the first session at 2 pm.

15 MINUTE BREAK

SESSION 6
4:30 - 5:30 P.M.

HEALTH & EXERCISE SCIENCE STUDENT AWARDS • RWEC 101
Note: HEXS awards begin at 4 p.m.

ETHNOMUSICOLOGY • HWC 203

MATHEMATICS CAPSTONE PRESENTATIONS • HWC 204

VIDEO & ANIMATION SHORTS BY STUDENTS OF ART & DESIGN • ITC 211
SESSION CHAIR: DANIEL TANKERSLEY
This showcase of video and animation features a variety of short projects created by students in the Art & Design program. Each act takes 15 minutes.

Act 1: Motion & Change
Music Cartoon: Kevin Zwart
Movement: Laura Willoughby
Music Animation: Piper Miller
Make Me Feel by Janelle Monae (Rotoscope): Piper Miller
Breaking Down the Dance Routine: Hannah Chilton
Prima: Katherine Schubert
Rhythmic: Laura Willoughby
Agent Orange: Alison Jensen

5-MINUTE INTERMISSION

Act 2: Spectres
Surveillent Memories: Cory Timmons
Nine: Jenae Sweet
Eyes Closed: Sohaina Maratita
Memory: Hannah Chilton
The Watchers: Katherine Farr
Stake: Sohaina Maratita

5-MINUTE INTERMISSION

Act 3: Colorful Creatures
i is Clementine: Launia Davis
The Prehistoric West: Anna Mitchell
Tim Can’t Change Colors: Hannah Chilton
Primary Play: Hannah Chilton
One Friend: Jessica Brown
Encounter: Laura Willoughby
Message 64: Jessica Bown
SESSION 7
5:45 - 6:45 P.M.

NATURAL SCIENCE & MATHEMATICS STUDENT RECOGNITION • WILLAMETTE, WUC
Recognition for NSM students begins at 6 p.m.

HEALTH & EXERCISE SCIENCE STUDENT AWARDS • RWEC 107
Ceremony continues from previous session.

VIDEO AND ANIMATION SHORTS BY STUDENTS OF ART & DESIGN • ITC 211
SESSION CHAIR: DANIEL TANKERSLEY
This showcase of video and animation features a variety of short projects created by students in the Art & Design program. Each act takes 15 minutes.

Act 4: Fantasy
Eine Fee: Teresa Stinar
Consume the Light: Laura Willoughby
Stella: Teresa Stinar
A Teller's Beginning: Laurel Megale
Stressful Spellcasting: Bryce Poehlitz
The Knight & The Maiden: Katherine Schubert
Hunted: Laura Willoughby

5-MINUTE INTERMISSION

Act 5: Satire
Tide Pods: Manuel Camacho
Channel Blues: Sarai Fuentes
The Conversation: Manuel Camacho
Agent Orange Part 2: Alison Jensen
Take a Hint Man I Just Want to Drink Coffee in Peace: Bryce Poehlitz
House Hunters: Multinational: Cory Timmons
Me! Me! Me!: Nell Danforth

5-MINUTE INTERMISSION

SESSION 8
7 - 8 P.M.

NATURAL SCIENCE & MATHEMATICS STUDENT RECOGNITION • WILLAMETTE, WUC
Ceremony continues from previous session.

DANCE: FLASH MOB IN FRONT OF MAPLE HALL

ACAPPELLA BY WEST OF US
Antonia Scholerman, Violet Trammel, Madelyn Hanes Allison Kirk, Emily Knisley Olivia Martin, Chloe Miller Eli Schenk, Cole Aldred Austin Stewar, Cole Somers, Tristin Thomas

5-MINUTE INTERMISSION

POSTERS
COLUMBIA, WUC
SESSION 1 • 10:15 - 11:15 A.M.

LEADERSHIP IN NURSING & HEALTHCARE: PROCESS IMPROVEMENT
Maria Franco Maciel, Jesse Edwards
Polk County Warming Centers
Mentors: Angela Docherty, Pati Warkentin

Jodi Green, Rebecca McBride, Tamara Whittle, Craig Wimmer
Improving Health and Wellness at Western Oregon University
Mentor: Pam Medzegian

Josh Brehm, Kristen Case
Developing a Media Campaign to Prevent Problem Gambling
Mentor: Patti Warkentin

Emily St. Clair, Jack Brockamp
Improving Sleep Quality by Educating and Identifying Barriers Among WOU Students
Mentor: Angela Docherty

April Mueller, Adrian Oliva
Assessing For Trauma-Informed Physical Environments
Mentor: Angela Docherty

Kseniya Kotenko, Daniela Juarez Rodriguez, Maydoli Cruz Quintero,
Increasing LGBTQ/Q Awareness at Talmadge Middle School
Mentor: Angela Docherty

Kelly Soto
Breaking the Barriers: Improving Healthcare Access for Undocumented Immigrants
Mentor: Rana Najjar

Megan Broughton
Palliative Care in Long-Term Care Settings
Mentor: Rana Najjar

Poster sessions continue on page 18
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<tr>
<th>Time</th>
<th>Session 1</th>
<th>Session 2</th>
<th>Session 3</th>
<th>Session 4</th>
<th>Session 5</th>
<th>Session 6</th>
<th>Session 7</th>
<th>Session 8</th>
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<tr>
<td>9 a.m.</td>
<td>Presidential Plenary: Pacific Room</td>
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**15-MINUTE BREAK**

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**SESSION 1**
- Presidential Plenary: Pacific Room
- Richard Woodcock Ed. Center
- Peter Courtney

**SESSION 2**
- Willamette Promise Session
- English Studies, Poetry/Literature Awards
- InventOR Awards
- Alternative Break
- Forensic Anthropology, HXS, Study Abroad
- Behavioral Science
- Art & Design
- Health & Exercise Science
- History Senior Seminar
- Sociology

**SESSION 3**
- Willamette Promise Session
- English Studies, Poetry/Literature Awards
- Alternative Break
- Forensic Anthropology, HXS, Study Abroad
- Behavioral Science
- Art & Design
- Health & Exercise Science
- History Senior Seminar
- Sociology

**SESSION 4**
- Willamette Promise Session
- English Studies, Poetry/Literature Awards
- Alternative Break
- Forensic Anthropology, HXS, Study Abroad
- Behavioral Science
- Art & Design
- Health & Exercise Science
- History Senior Seminar
- Sociology

**SESSION 5**
- Willamette Promise Session
- English Studies, Poetry/Literature Awards
- Alternative Break
- Forensic Anthropology, HXS, Study Abroad
- Behavioral Science
- Art & Design
- Health & Exercise Science
- History Senior Seminar
- Sociology

**SESSION 6**
- Willamette Promise Session
- English Studies, Poetry/Literature Awards
- Alternative Break
- Forensic Anthropology, HXS, Study Abroad
- Behavioral Science
- Art & Design
- Health & Exercise Science
- History Senior Seminar
- Sociology

**SESSION 7**
- Willamette Promise Session
- English Studies, Poetry/Literature Awards
- Alternative Break
- Forensic Anthropology, HXS, Study Abroad
- Behavioral Science
- Art & Design
- Health & Exercise Science
- History Senior Seminar
- Sociology

**SESSION 8**
- Willamette Promise Session
- English Studies, Poetry/Literature Awards
- Alternative Break
- Forensic Anthropology, HXS, Study Abroad
- Behavioral Science
- Art & Design
- Health & Exercise Science
- History Senior Seminar
- Sociology
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<td>9 a.m.</td>
<td>Presidential Plenary</td>
<td>Willamette Promise Session</td>
<td>Forensic Anthrop., Deaf Studies &amp; Prof. Studies, Study Abroad</td>
<td>Behavioral Science</td>
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<td>Behavioral Science</td>
<td>Music</td>
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<tr>
<td>15-minute break</td>
<td>Chemistry Capstone</td>
<td>Lunch at 12:30</td>
<td>Behavioral Science</td>
<td>Health &amp; Exercise Science</td>
<td>History Senior Seminar</td>
<td>NSM Student Recognition</td>
<td>NSM Student Recognition</td>
<td>3:30-4:45 p.m.</td>
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<tr>
<td>10:15–11:15 a.m.</td>
<td>Willamette Promise Session</td>
<td>English Studies, Poetry/Literature Awards</td>
<td>Behavioral Science</td>
<td>Communication Studies</td>
<td>Mathematics Capstone</td>
<td>Video / Animation Shorts</td>
<td>Video / Animation Shorts</td>
<td>Music</td>
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<tr>
<td>11:30–12:30 p.m.</td>
<td>Willamette Promise Session</td>
<td>Lunch at 12:30</td>
<td>Behavioral Science</td>
<td>Art &amp; Design</td>
<td>Mathematics Capstone</td>
<td>Hypertext Arcade</td>
<td>Hypertext Arcade</td>
<td>Video / Animation Shorts</td>
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<td>12:45–1:45 p.m.</td>
<td>Forensic Anthrop., Deaf Studies &amp; Prof. Studies, Study Abroad</td>
<td>Behavioral Science</td>
<td>History Senior Seminar</td>
<td>Sociology</td>
<td>Music Capstone</td>
<td>Video / Animation Shorts</td>
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<tr>
<td>2–3 p.m.</td>
<td>Interdisciplinary Open Session</td>
<td>Behavioral Science</td>
<td>Behavioral Science</td>
<td>Computer Science &amp; Information Systems</td>
<td>Environmental Awareness</td>
<td>Video / Animation Shorts</td>
<td>Video / Animation Shorts</td>
<td>Student Art Exhibit</td>
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<td>3:15–4:15 p.m.</td>
<td>Behavioral Science</td>
<td>NSM Student Recognition</td>
<td>Behavioral Science</td>
<td>Music Capstone</td>
<td>Hypertext Arcade</td>
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<td>NSM Student Recognition</td>
<td>Environmental Awareness</td>
<td>Behavioral Science</td>
<td>Music Capstone</td>
<td>Video / Animation Shorts</td>
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<td>7–8 p.m.</td>
<td>NSM Student Recognition</td>
<td>Environmental Awareness</td>
<td>Behavioral Science</td>
<td>Music Capstone</td>
<td>Video / Animation Shorts</td>
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</tbody>
</table>
POLITICAL SCIENCE RESEARCH
SESSION CHAIR: MARY PETTENGER

Cassandra Crosman
Should Autism Be “Combated?”
Mentors: Mark Henkels, Mary Pettenger

Juneau Singleton
The Libyan Civil War
Mentor: Mary Pettenger

Baily Tarabochia
Native American Policy
Mentor: Mary Pettenger

Samantha Abel
Living With Beaver in the Luckiamute Watershed
Mentors: Mark Henkels, Mary Pettenger

Owen Johnson
Climate Change as a Threat to National Security
Mentor: Mary Pettenger

Baily Tarabochia
Native American Policy
Mentor: Mary Pettenger

Samantha Abel
Living With Beaver in the Luckiamute Watershed
Mentors: Mark Henkels, Mary Pettenger

Owen Johnson
Climate Change as a Threat to National Security
Mentor: Mary Pettenger

Jason Waldorf
Assessing the Information Security Environment at Western Oregon University
Mentor: Mary Pettenger

CALAPOOIA, WUC
SESSION 1 • 10:15 - 11:15 A.M.

BEHAVIORAL SCIENCE
SESSION CHAIRS: JAIME CLOUD, BRENT KING

Madeline Mehciz
Perceived Body Confidence Based on Active vs Non-Active Individuals
Mentor: Brent King

Camille Firth
The Effects of Sugar on Memory
Mentor: Brent King

Morgan Fredricks
Effect of Employment on Success in School
Mentor: Brent King

Kodie Gallegos
Attention Delay in the Presence of Visual Distractors
Mentor: Brent King

Nicole Gebbie
Kuleshov Who?
Mentor: Brent King

Maxwell Grimsrud
Noticing Gender: Effects of Senders Gender on Survey Response Rates
Mentor: Brent King

Shawn Gutierrez
Assessing the Effectiveness of Stress Reduction Programs When Transitioning from Military Life to Civilian Life
Mentor: Brent King

Diana Gutzke
Do Engaged Friendships Increase or Decrease Anxiety
Mentor: Brent King

Whitley Harrel
Video Game Music and Task Performance
Mentor: Brent King

Rachel Hartnett
Gum and Memory
Mentor: Brent King

Francesca Holborn
Anything is Pawsable: The Connection between Breed and People’s Perception of Service Dogs
Mentor: Brannan, Deborah

Nash Idler
Music’s Effect On Memory: Lyrical Vs. Non-Lyrical Music
Mentor: Brent King

Adrian Manriquez
The Effects of Background Music and Chewing Gum on Memory Recall
Mentor: Brent King

Melissa Palanuk Mercier
The Relationship Between Personality and Memory
Mentor: Brent King

Sarah Porter
Effects of Social Media on Self-Esteem
Mentor: Brent King

John Roell
Affect of Color on Memory
Mentor: Brent King

Haley Scoggins
Social and Group Influence on Opinions of Male/Female College Students
Mentor: Brent King

Shawn Stevens
Student Service Member and Veteran Perception Within the College Community
Mentor: Brent King

Helen Villagomez
Perceptions of Attractiveness and Trust
Mentor: Brent King

Mackenzie Walston
Racial Biases in the Criminal Justice System
Mentor: Brent King

Benjamin Wilson
College Students’ Perception of Tattoos
Mentor: Brent King

Maya Wolf
Sexual Assault Myths on College Campuses
Mentor: Brent King

Monica Wolven
Impact Odor has on Emotions and Memories
Mentor: Brent King

Andrew Zieg
Effects of Music on Mental Health
Mentor: Brent King

POSTERS
COLUMBIA, WUC
SESSION 2 • 11:30 A.M.- 12:30 P.M.

LEADERSHIP IN NURSING & HEALTHCARE: PROCESS IMPROVEMENT
SESSION CHAIR: ANGELA DOCHERTY

Maria Franco Maciel, Jesse Edwards
Polk County Warming Centers
Mentor: Pati Warkentin
Jodi Green, Rebecca McBride
Tamara Whittle, Craig Wimmer
Improving Health and Wellness at Western Oregon University
Mentor: Pam Medzegian

Josh Brehm, Kristen Case
Developing a Media Campaign to Prevent Problem Gambling
Mentor: Patti Warkentin

Emily St. Clair, Jack Brockamp
Improving Sleep Quality by Educating and Identifying Barriers Among WOU Students
Mentor: Angela Docherty

April Mueller, Adrian Oliva
Assessing For Trauma-informed Physical Environments
Mentor: Angela Docherty

Kseniya Kotenko, Juarez Rodriguez, Daniela Cruz Quintero, Maydoli
Increasing LGBTQ/Q Awareness at Talmadge Middle School
Mentor: Angela Docherty

Kelly Soto
Breaking the Barriers: Improving Healthcare Access for Undocumented Immigrants
Mentor: Rana Najjar

Megan Broughton
Palliative Care in Long-Term Care Settings
Mentor: Rana Najjar

FORENSIC ANTHROPOLOGY
SESSION CHAIR: MISTY WEITZEL

Jenae Larson
Mortuary Ritual: The Forensic Significance of Grieving Finger Amputation
Mentor: Misty Weitzel

Christopher Pacheco, Morgan Matthews
Patterns of Blunt Force Trauma from Different Weapons Exerted on Bone
Mentor: Misty Weitzel

Alexandra Crawford
Animal Damage to Human Bone
Mentor: Misty Weitzel

Lea Morikawa, McKenzie Pitman
The Forensic Effect of Soaking Bone in Cleaning Agents
Mentor: Misty Weitzel

HEALTH & EXERCISE SCIENCE
SESSION CHAIR: BRIAN CASTER

Madeline Mehcziz, Marlie Norman, Natalie DeLonge, Sydney Azorr, Joshua Householder, Kailen Pablo-Otoman, Joseph Roos
Fitness Without the Gym: Benefits of Stair Climbing
Mentor: Brian Caster

Kailen Pablo-Otoman, Madeline Mehcziz, Joseph Roos, Marlie Norman, Sydney Azorr, Natalie DeLonge, Joshua Householder
Step So You Don’t Forget: Stair Climbing During Study Breaks
Mentor: Brian Caster

CALAPOOIA, WUC
SESSION 2 • 11:30 A.M.- 12:30 P.M.

BEHAVIORAL SCIENCE
SESSION CHAIRS: JAIME CLOUD, BRET KING

Bryce Askew
Images’ and Wordss Effect on False Memory
Mentor: Brent King

Malia Elliott
Seasonal Affective Disorder Differences in Gender
Mentor: Brent King

Cesar Garcia
Sleep Patterns on Academic Achievement
Mentor: Brent King

David Garcia Coria
Music Differences on Recall Memory
Mentor: Brent King

Maddie Haas
Perceptions of Gender and Infidelity
Mentor: Brent King

Lee Hancock
Why Eat That: Examination
Mentor: Brent King

Isabella Hennessy
Fat is Not a Feeling
Mentor: Brent King

Taylor Klus
How Does Gender Affect Criminal Perception?
Mentor: Brent King

Blanca Muñoz Villarreal
Accents and Hiring
Mentor: Brent King

Kailey O’Connor
Gender Assumptions in Today’s Culture
Mentor: Brent King

Kiera Peterson
Social Media’s Impact on the Mental Health of Young Adults
Mentor: Brent King

Rachel Scott
Generational Status on Perceived Stress and Sleep Quality
Mentor: Brent King

Taylor Viegas
African American Predisposition to Sentencing
Mentor: Brent King

POSTERS
COLUMBIA, WUC
SESSION 3 • 12:45 - 1:45 P.M.

FORENSIC ANTHROPOLOGY
SESSION CHAIR: MISTY WEITZEL

Jenae Larson
Mortuary Ritual: The Forensic Significance of Grieving Finger Amputation
Mentor: Misty Weitzel

Christopher Pacheco, Morgan Matthews
Patterns of Blunt Force Trauma from Different Weapons Exerted on Bone
Mentor: Misty Weitzel

Alexandra Crawford
Animal Damage to Human Bone
Mentor: Misty Weitzel
McKenzie Pitman, Lea Morikawa
The Forensic Effect of Soaking Bone in Cleaning Agents
Mentor: Misty Weitzel

DEAF STUDIES AND PROFESSIONAL STUDIES
SESSION CHAIR: CHIEN-CHUN LIN

Savannah Johnson
Code-Blending in ASL and English Bilinguals
Mentor: Vicki Darden

WOU STUDENTS’ STUDY ABROAD OPPORTUNITIES AND EXPERIENCES
CHAIR: XIAOPENG GONG

Honghui Li
An Introduction to Guangxi Normal University
Mentor: Xiaopeng Gong

Yanjun Zhou
Introduction of Programs in Guangxi College for Pre-School Education
Mentor: Xiaopeng Gong

QUERETARO: MY STUDY ABROAD EXPERIENCE
SESSION CHAIR: CARMEN CÁCEDA

Zac Cole
Viaje a México
Mentor: Carmen Caceda

ENGLISH STUDIES
SESSION CHAIR: CORNELIA PARASKEVAS

Sean Tellvik, Mindy Mawhirter
Nguvian: A Voiced, Antonymous Conlang
Mentor: Cornelia Paraskevas

Cheyanne Bumgardner
Bozoome: How to Create Your Own Language
Mentor: Cornelia Paraskevas

Madeleine Hannah
A Changing Understanding of Writing
Mentor: Cornelia Paraskevas

CALAPOOIA, WUC
SESSION 3 • 12:45 - 1:45 P.M.

BEHAVIORAL SCIENCE
CHAIRS: JAIME CLOUD, BRENT KING

Aminna Ackridge
Effects of Aromatherapy on Induced Stress in Women and Men
Mentor: Jaime Cloud

Paige Bailey
Facial Expression & Mood
Mentor: Jaime Cloud

Erika Conley
Character Assessment in Romantic Relationships
Mentor: Jaime Cloud

Jordan Doster
Passion and Music’s Influence on Memory
Mentor: Jaime Cloud

Alyssa Harris
Personal Expression and Opinions
Mentor: Jaime Cloud

Nicholas Harvey
Music & Memory
Mentor: Jaime Cloud

Morgan Haskett
Perceptions of Promiscuity
Mentor: Jaime Cloud

Ashley Johnston
The Effect of Tattoos and Participant Gender on Perceptions of Personality
Mentor: Jaime Cloud

Courtney Lau Hee
Sex Differences in Response to Coincidental Experiences and Paranormal Belief
Mentor: Jaime Cloud

Amy Masters
College Students’ Perception of Autism in Children and Adults
Mentor: Jaime Cloud

Shaylie Pickrell
The Perception of Polyamorous Relationships Based upon Personal Relationship Status
Mentor: Jaime Cloud

Rishel Samson
Sex Differences in Memory Recall in Response to the Presence of Background Music
Mentor: Jaime Cloud

Nathan Soltz
Comparing Friendship Love to Romantic Love in Men and Women
Mentor: Jaime Cloud

Jill St George
Perceptions of Tattoos
Mentor: Jaime Cloud

Ashley Stacks
Sex Differences in Perceptions of Women in the Workplace
Mentor: Jaime Cloud

Kelsey Zwicker
Mood and Personality
Mentor: Jaime Cloud

POSTERS
CALAPOOIA, WUC
SESSION 4 • 2 - 3 P.M.

BEHAVIORAL SCIENCE
SESSION CHAIRS: JAIME CLOUD, BRENT KING

Kaitlyn Baurer
Effects of Role and Relationship on Forgiveness
Mentor: Jaime Cloud

Abigail Coates
Listening vs. Reading and Their Effect on Short-Term Memory with Men and Women
Mentor: Jaime Cloud

Victoria Greer
The Effects of Note-Taking Methods on Test Performance
Mentor: Jaime Cloud

Alyssa Grimes
The Effect of an Instructor’s Encouragement on Test Scores
Mentor: Jaime Cloud

Amy Masters
The Effect of Genres of Music on Stress Levels Among Men and Women
Mentor: Jaime Cloud

Madeleine Hannah
A Changing Understanding of Writing
Mentor: Cornelia Paraskevas
Jesse Johnson
Perceptions of Piercings based on Skin Color
Mentor: Jaime Cloud

Andrea Juhasz
Brain Games
Mentor: Jaime Cloud

Edgar Llamas
Infidelity and Mood
Mentor: Jaime Cloud

Maira Lopez Lopez
Sex Differences and the Impact of Art on Anxiety Levels of College Students
Mentor: Jaime Cloud

Katherine Macias-Torres
Undergraduate Greeks, Perceived Intelligence, and Sex
Mentor: Jaime Cloud

Jordan Nguyen
Competitiveness and Gender in Video Games is a Factor that can Lead to Aggressive Behavior
Mentor: Jaime Cloud

Shaelyn O’Gorman
The Effects of Essential Oils (Peppermint vs. Lavender) on Word Recall in Men and Women
Mentor: Jaime Cloud

Lindsey Ormesher
Sex Differences in Response to Jealousy in a Romantic Relationship
Mentor: Jaime Cloud

ChyAnne Schlappie
The Effect of Tattoos on Perception
Mentor: Jaime Cloud

Hannah Todd
Confidence And Accuracy
Mentor: Jaime Cloud

Felicia Dickinson
How Poaching and Trophy Hunting Impacts Our Future
Mentor: Mary Pettenger

Anwar Alsai
Air Pollution
Mentor: Mary Pettenger

Brianna Potter
Naturally and Humanly Impacted Landscapes in Oregon
Mentors: Mary Pettenger, Shaun Huston

Chris West
Ending Plastic Straw Use Through Social Media
Mentor: Mary Pettenger

Sophie Hall
Drowning In Plastic
Mentor: Mary Pettenger

Morgan Williams, Rachel Williams
Earth Day Every Day: Plastic Bag Prevention With T-shirt Tote Bags
Mentor: Mary Pettenger

Cam Kennedy
Plastic Beach
Mentor: Mary Pettenger

Nonoka Oba
Food Waste: What a Waste
Mentor: Mary Pettenger

Jon Chayse
E-Waste Impact
Mentors: Mark Henkels, Mary Pettenger

Ayanna Arceneaux
H2O on the Go
Mentor: Mary Pettenger

Kj Strickland
Protecting the Honeybee
Mentor: Mary Pettenger

Johnathon Browe
What Are You Doing With Your Gown?
Mentor: Mary Pettenger

Adam Kane
Water Use at Western Oregon University
Mentor: Mary Pettenger

Isaac Bosquez
Getting Rid of Trays in Campus Dining to Lower Food Waste
Mentor: Mary Pettenger

Jeremiah DeBello
Russian Oil Spills
Mentor: Mary Pettenger

Nicolas Mora-Flores
Water Pollution: Plastic Crisis
Mentor: Mary Pettenger

Nate Kisaberth
The Effects of Beef on the Environment
Mentor: Mary Pettenger

Carson Calder
Clothing Waste
Mentor: Mary Pettenger

Abdulrahman Alsuwayyigh
How Cutting Trees for Palm Oil Affects Orangutans
Mentor: Mary Pettenger

BIOLOGICAL SCIENCES
SESSION CHAIR: JEFF SNYDER

Tayler Tate, Isaac Manju
The Effect of Urban Evolution on White Clover (Trifolium repens) in Salem, Oregon
Mentors: Ava Howard, Gareth Hopkins

Liz Yijung Yoon
A Review of How Chemical Deicers Impact Aquatic and Terrestrial Species
Mentor: Gareth Hopkins

Ayanna Arceneaux
H2O on the Go
Mentor: Mary Pettenger

Kj Strickland
Protecting the Honeybee
Mentor: Mary Pettenger

Johnathon Browe
What Are You Doing With Your Gown?
Mentor: Mary Pettenger

Adam Kane
Water Use at Western Oregon University
Mentor: Mary Pettenger

POSTERS
COLUMBIA, WUC
SESSION 5 • 3:15 - 4:15 P.M.

ENVIRONMENTAL AWARENESS
SESSION CHAIR: MARY PETTENGER

Samantha Abel
Greening the Red
Mentor: Mary Pettenger
AES EVENTS WILL BE HELD IN THE FOLLOWING BUILDINGS/ROOMS:

- Campbell Hall (CH)
- Hamersly Library (HL 108)
- Instructional Technology Center (ITC 211)
- Maple Hall (MH)
- Natural Sciences (NS 101)
- Peter Courtney Health & Wellness Center (HWC 105, 203, 204, 205, 301, 304, 305)
- Rice Auditorium
- Richard Woodcock Education Center (RWEC 101, 107, 201)
- Smith Music Hall (SH 121)
- Werner University Center (WUC):
  - Calapooia
  - Columbia
  - Pacific
  - Santiam
  - Willamette

Parking on the WOU campus is FREE for AES attendees.

Recommended parking lots:
- H (access from Church St. or N. Monmouth Ave.)
- A (access from Powell and Warren)
- R (overflow lot, access from Jackson St.)
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