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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.
20-21  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
HWC 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

WELCOME FROM THE 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

ART AND MUSIC PERFORMANCES

9–10 a.m.   Presidential Plenary
Pacific, WUC

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

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

2–4:15 p.m.   Hypertext Arcade
HL 108

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

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

### CHEMISTRY
- **NS 101**
  - 8 a.m.: Haylie Shinsato
  - 8:45 a.m.: Nick Wanderscheid
  - 9:30 a.m.: D-Dre Wright
  - 10:15 a.m.: BREAK
  - 10:30 a.m.: Dakota Winslow
  - 11:15 a.m.: Jessica Alexander
  - Noon: LUNCH
  - 1:00 p.m.: Adam Baron
  - 1:45 p.m.: Alec Smith
  - 2:30 p.m.: Brandon Uri
  - 3:15 p.m.: BREAK
  - 3:30 p.m.: Alexandria Azorr
  - 4:15 p.m.: 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

### 12:30–1:30 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
SESSION 1
10:15–11:15 A.M.

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 statewide 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 tri ax 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

THEATRE STUDIES • WEST OF PACIFIC ROOM
Stage Fight 1
10-10:15 a.m.
RESEARCH AND PRAXIS IN SOCIOLOGY • HWC 203
SESSION CHAIR: DEAN BRAAA
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 Sweigard'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

SESSION 2
11:30 A.M. - 12:30 P.M.

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.

Elizabeth Obendorf
*Materialist and Consumerist Anxieties in Washington Irving's “The Legend of Sleepy Hollow”*
Mentor: Henry Hughes

Nicole Caldwell
*A Selection of Poems*
Mentor: Henry Hughes

Olivia Jasmin, Natalie Dean, Nova Kohnke, Sage Kiernan-Sherrrow
*Writer’s Crucible: Selections from WOU’s Student Writing Group*
Mentors: Lars Söderlund, Henry Hughes
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

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

Sohaina Maratita
Mentor: Jennifer Bracy

Hannah Chilton
Mentor: Jodie Garrison

Jocelyn Garcia
Mentor: Jodie Garrison

Sabrina Riff
Mentor: Jodie Garrison

THE SEABECK EXPERIENCE • RWEC 107
Two alumni (Demeter Finch and Kailee Goodrich) of the 2018 Seabecck service learning trip will give a description of what they experienced and learned throughout their spring term class and during the week long trip to the 40th Annual DeafBlind Retreat in Seabeck, Wash. They will share how the trip has impacted their academics, personal lives and their career goals using PTASL.

Demeter Finch, Kailee Rae Goodrich
Mentor: CM Hall

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

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 PRA克斯 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: Becka 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
SESSION CHAIR: EMILY LILO
Various health and exercise science students present on their work with community health and exercise science.

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 La ke Water Website
Mentors: Becka Morgan, Scott Morse

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

Anthony Franco, Anthony Visuaño, 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 Elosion 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 Bahai’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

++ 12 ++
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.

MATHEMATICS 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  
Digitalistic  
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.

ETHNOMUSICOLGY • 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
15 MINUTE BREAK

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

DANCE: FLASH MOB IN FRONT OF MAPLE HALL

15 MINUTE BREAK

SESSION 8
7 - 8 P.M.

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

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

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>Location</th>
<th>Sections</th>
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<tbody>
<tr>
<td>9 a.m.</td>
<td>Presidential Plenary: Pacific Room</td>
<td></td>
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<tr>
<td>10:15–11:15 a.m.</td>
<td>Willamette Promise Session</td>
<td>SESSION 1</td>
</tr>
<tr>
<td>11:30 a.m.–12:30 p.m.</td>
<td>Willamette Promise Session Lunch at 12:30</td>
<td>SESSION 2</td>
</tr>
<tr>
<td>12:45–1:45 p.m.</td>
<td>Forensic Anthr., Deaf Studies &amp; Prof. Studies, Study Abroad</td>
<td>SESSION 3</td>
</tr>
<tr>
<td>2–3 p.m.</td>
<td>Behavioral Science</td>
<td>SESSION 4</td>
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<tr>
<td>3:15–4:15 p.m.</td>
<td>NSM Student Recognition (Begins at 4 p.m.)</td>
<td>SESSION 5</td>
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<tr>
<td>4:30–5:30 p.m.</td>
<td>NSM Student Recognition</td>
<td>SESSION 6</td>
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<tr>
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<td>NSM Student Recognition</td>
<td>SESSION 7</td>
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<tr>
<td>7–8 p.m.</td>
<td>NSM Student Recognition</td>
<td>SESSION 8</td>
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15–MINUTE BREAK
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<tr>
<td>8–9:30 a.m.</td>
<td>Chemistry Capstone</td>
</tr>
<tr>
<td>12:45–1:45 p.m.</td>
<td>Forensic Anthr., Deaf Studies &amp; Prof. Studies, Study Abroad Behavioral Science Art &amp; Design Health &amp; Exercise Science Model United Nations History Senior Seminar Sociology Mathematics Earth Science Senior Seminar</td>
</tr>
<tr>
<td>4:30–5:30 p.m.</td>
<td>NSM Student RecognitionHEXS Awards Music Video / Animation Shorts Student Art Exhibit Hypertext Arcade Chemistry Capstone 3:30–4:45 p.m.</td>
</tr>
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<td>NSM Student RecognitionHEXS Awards Video / Animation Shorts</td>
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<td>NSM Student RecognitionHEXS Awards Video / Animation Shorts Student Art Exhibit Hypertext Arcade Chemistry Capstone 3:30–4:45 p.m.</td>
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</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

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

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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

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Calapooia, WUC
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Madison Hoffmann
The Effect of Genres of Music on Stress Levels Among Men and Women
Mentor: Jaime Cloud
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 Alsaiif  
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 Alsauwayyigh  
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

Grace Knapp, Sydney Thomas  
The Behavioral Effects of Larval Density on Drosophila melanogaster  
Mentors: Michael Baltzley, Kristin Latham-Scott

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.)
Peter Courtney Health and Wellness Center
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