



ACADEMIC EXCELLENCE SHOWCASE 2019

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

Interplay of Arts and Sciences

ACADEMIC EXCELLENCE SHOWCASE 2019

TABLE OF CONTENTS

_				
')	Welcome messages.	art and	music a	warde
_	MEICOITE HESSARES.	arranu	THUSIC a	warus

- Willamette Promise sessions, Award presentations, Chemistry capstone presentations
- 4-5 Presidential Plenary

- 16-17 Schedule of activities
- 22 Campus map
- 23-25 Building maps
- 26-29 Student index
- 30-32 Session chairs/presenters/mentors indices

PRESENTATIONS

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

6-7 English Studies, Theatre Studies, InventOR, Art & Design, Deaf Studies & Professional Studies, History Sociology, Communication Studies, Dance, Computer Science & Information Systems

15-MINUTE BREAK

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

7-9 English Studies, Alternative Break, Art & Design, Deaf Studies & Professional Studies, Model United Nations, History, Sociology, Communication Studies, Computer Science & Information Systems, Music

15-MINUTE BREAK

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

9-11 Art & Design, Health and Exercise Science, Model United Nations, History, Sociology, Mathematics, Earth Science, Communication Studies, Computer Science & Information Systems

15-MINUTE BREAK

SESSION 4 2 - 3 P.M.

11-12 Behavioral Science, Science and Art Open Session, Health and Exercise Science, Mathematics, Earth Science, Anthropology, Computer Science & Information Systems, Hypertext Arcade

15-MINUTE BREAK

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

13-14 Behavioral Science, Maurice Undergraduate Initiative Award, Health and Exercise Science, Personal Stories: Microagressions, Mathematics, Music, Earth Science, Anthropology, Art, Computer Science & Information Systems, Hypertext Arcade 15-MINUTE BREAK

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

11-12 Health and Exercise Science, Music, Mathematics, Art & Design15-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 achievemen, 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.

Willamette, WUC

Peter Sears Poetry Prize

Richard and Lotte Meyer Prize for Excellence in

Literature

11:30 a.m.– Noon Lambda Pi Eta

HWC 306 Communication Studies

Honors Program

3:15–4:15 p.m. Maurice Challenge

Santiam, WUC Competition

4 p.m. Health & Exercise Science

RWEC 101 Awards

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

Recognition

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 "Interplay of Arts and

Sciences"

11:30 a.m.-12:30 p.m. Music Recitals

Smith Music Hall 121

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

2–4:15 p.m. **Hypertext Arcade**HL 108 Interactive Digital Games

3:15–4:15 p.m. Student art exhibition

CH Gallery reception

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

& Design

CAPSTONE PRESENTATIONS

CHEMISTRY

NS 101

Haylie Shinsato 8 a.m. Nick Wanderscheid 8:45 a.m. **D-Dre Wright** 9:30 a.m.

BRFAK 10:15 a.m.

Dakota Winslow 10:30 a.m. **Jessica Alexander** 11:15 a.m.

Noon LUNCH

1:00 p.m. **Adam Baron Alec Smith** 1:45 p.m. **Brandon Uri** 2:30 p.m.

3:15 p.m. **BREAK**

Alexandria Azorr 3:30 p.m. Rachelle Austin 4:15 p.m.

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

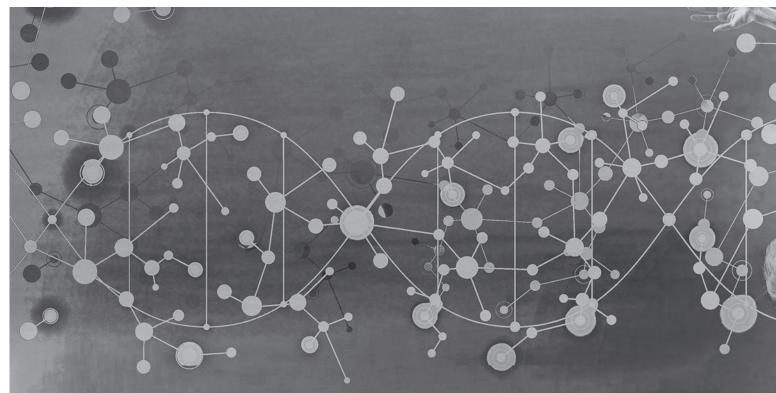
Potential Outcomes Mentor: Ethan McMahan

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



PRESIDENTIAL PLENARY

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 FirstYear 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

THEATRE STUDIES • WEST OF PACIFIC ROOM

Stage Fight 1 10-10:15 a.m.

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



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

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.

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

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 nonnormative 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-Sherrow

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 Seabeck 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 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 bv 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

Prelude in B Minor, Op. 32, No. 10, S. Rachmaninoff

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, **IODIE 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

Ianie 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 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.

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

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



Monica Cerda Ortiz

competition, followed by a brief overview of the winning project by the award recipient, Moncia 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

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 twoterm senior project development sequence.

Khorben Boyer, Stuart Ashenbrenner, Dominic Groshong, **Brock Vance**

Dialogistic

Mentors: Becka Morgan, Scott Morse

Michael Versoza, Stuart Gee, David

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

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!: Nell Danforth

5-MINUTE INTERMISSION

Act 6: Coda

Overtime: Jenae Sweet Repetition: Jacques Dupuis Mission 77: Sarai Fuentes Gooey: Nell Danforth Red: Jordyn Reidy

Overthinker: Sohaina Maratita

Little: Jessica Brown

15 MINUTE BREAK

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

Emily Balck, Tonya N. Bradley, Julia R. Bynum-Lewis, Citlalli Castaneda, Jaelynn N. Cocker, Hanah R. Cronin, Isaac I. Dilworth, Alyssa N. Hendricks, Ethan Q. Keleher, Christopher Linares-Espinoza, Peyton L. Matthews, Ashlee M. Pires, Shane M. Roberts, Abigail E. Sefton, Nick J. Wanderscheid, Sara A. Wolfe, Clarissa Zurita

ACAPELLA 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

			Werner	University	Center		Richard \	Woodcock E	d. Center		Pet	er Courtney
		Pacific	Willamette	Santiam	Columbia	Calapooia	RWEC 101	RWEC 107	RWEC 201	HWC 105	HWC 203	HWC 204
	9 a.m.	Preside	ntial Plena	ry: Pacific	Room							
15-	MINUTE E	BREAK						I	I			
SESSION 1	10:15–11:15 a.m.	Willamette Promise Session	English Studies, Poetry/Literature Awards	InventOR Awards	Nursing, Political Science	Behavioral Science				HIstory Senior Seminar	Sociology	
15-	MINUTE E	BREAK						I	I			
SESSION 2	11:30 a.m.–12:30 p.m.	Willamette Promise Session Lunch at 12:30	English Studies, Poetry/Literature Awards	Alternative Break	Nursing, Forensic Anthropology, HEXS	Behavioral Science	Art & Design	Deaf Studies & Professional Studies	Model United Nations	HIstory Senior Seminar	Sociology	
15-1	MINUTE B	REAK										
SESSION 3	12:45–1:45 p.m.				Forensic Anthr., Deaf Studies & Prof. Studies, Study Abroad	Behavioral Science	Art & Design	Health & Exercise Science	Model United Nations	HIstory Senior Seminar	Sociology	Mathematics Capstone
15-	MINUTE E	BREAK						l	l			
SESSION 4	2–3 p.m.	Behavioral Science	Interdisciplinary Open Session			Behavioral Science		Health & Exercise Science			Sociology	Mathematics Capstone
15-1	MINUTE B	REAK										
SESSION 5	3:15-4:15 p.m.	Behavioral Science	NSM Student Recognition (Begins at 4 p.m.)	Maurice Challenge Award	Environmental Awareness		HEXS Awards: start at 4 p.m.	Health & Exercise Science		Interdisciplinary: Microaggressions		Mathematics Capstone
15 N	INUTE BI	REAK										
SESSION 6	4:30–5:30 p.m.		NSM Student Recognition				HEXS Awards				Music	
15-1	MINUTE B	REAK										
SESSION 7	5:45–6:45 p.m.		NSM Student Recognition				HEXS Awards					
15-1	MINUTE B	REAK										
SESSION 8	7–8 p.m.		NSM Student Recognition									

Health and	Wellness Ce	enter		Maple	Rice	ITC	Camp. Hall	Smith Hall	Hamersly	N. Science
HWC 205	HWC 301	HWC 305	HWC 306	Maple Hall	Auditorium	211	Camp. Hall Gallery	SH 121	HL 108	NS 101
			Communication Studies	Dacne		Computer Science & Information Systems				Chemistry Capstone 8–9:30 a.m.
			Communication Studies			Computer Science & Information Systems		Music Recitals: 11:30 a.m.–12:30 p.m.		Chemistry Capstone 10:30–11:45 a.m. Lunch at noon
	Earth Science Senior Seminar		Communication Studies			Computer Science & Information Systems				Chemistry Capstone 1–3 p.m.
	Earth Science Senior Seminar	Anthropology	Communication Studies		Middletown performance: 2–4:15 p.m.	Computer Science & Information Systems			Hypertext Arcade	Chemistry Capstone 1–3 p.m.
Music	Earth Science Senior Seminar	Anthropology			<i>Middletown</i> performance: 2–4:15 p.m.	Computer Science & Information Systems	Student Art Exhibit		Hypertext Arcade	Chemistry Capstone 3:30–4:45 p.m.
						Video / Animation Shorts	Student Art Exhibit			
						Video / Animation Shorts				

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

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 Mehciz, 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 Mehciz, 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 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

Kira Peterson

Social Media's Impact on the Mental Health of Young Adults Mentor: Brent King

Rachelle 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

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

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 Felicia Dickinson

How Poaching and Trophy Hunting

*Impacts Our Future*Mentor: Mary Pettenger

Anwar Alsaif

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

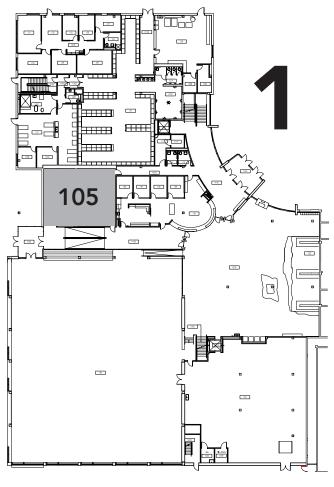
Grace Knapp, Sydney Thomas

The Behavioral Effects of Larval Density on Drosophila melanogaster

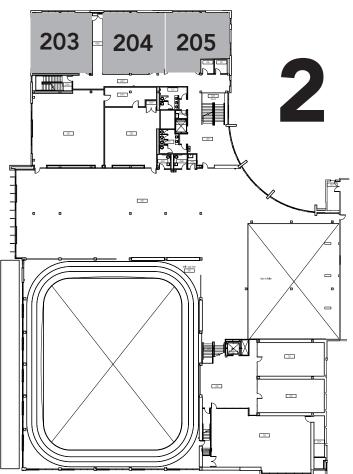
Mentors: Michael Baltzley, Kristin

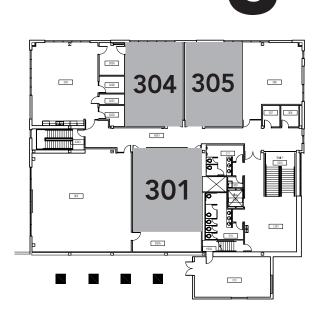
Latham-Scott

CAMPUS MAP AES EVENTS WILL BE HELD IN THE **FOLLOWING** HERITAGE LP. -**RICHARD BUILDINGS/ROOMS:** WOODCOCK **EDUCATION** Campbell Hall (CH) CENTER Hamersly Library (HL 108) Instructional Technology Center (ITC 211) **b** 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) (9 6 6 Smith Music Hall (SH 121) Werner University Center (WUC): Calapooia Columbia Pacific WERNER UNIVERSITY Santiam **CENTER** Willamette _ AES Information Desk CHNOLO RICE AUDITORIUM CAMPBELL E 6 Parking on the WOU campus is FREE for AES attendees. MUSIC Recommended parking lots: **H** (access from Church St. or N. **PETER** Monmouth Ave.) COURTNEY A (access from Powell and Warren) **R** (overflow lot, access from CENTER Jackson St.)

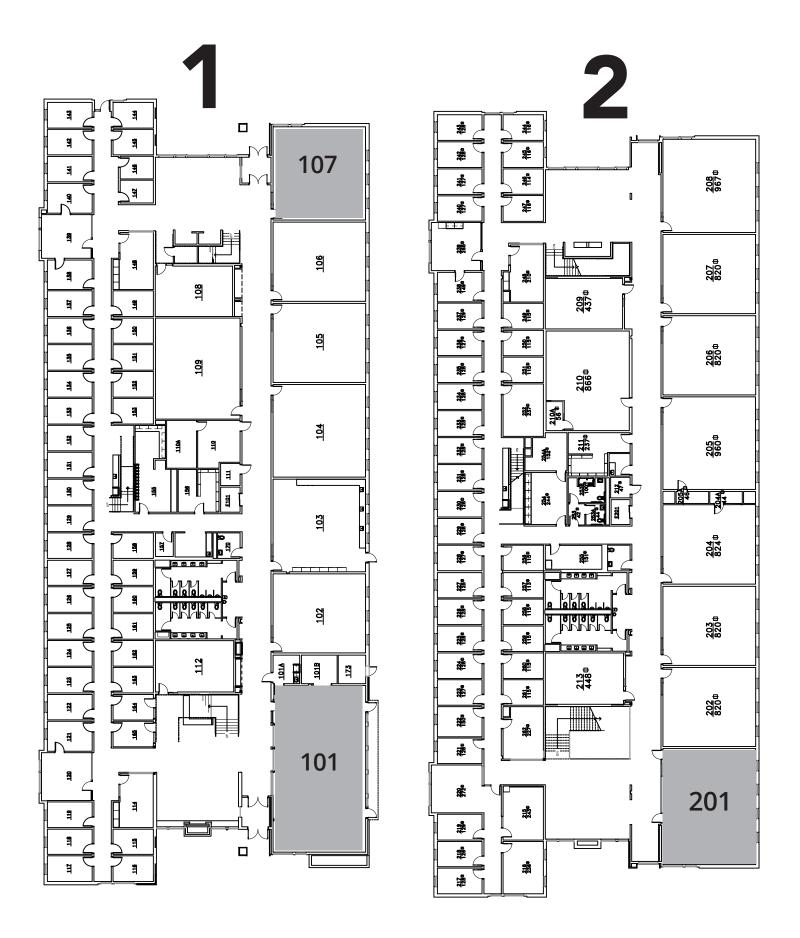


Peter Courtney Health and Wellness Center





Richard Woodcock Education Center



ERNER UNIVERS





STUDENT INDEX

Α		Khorben Boyer	14	D	
Samantha Abel	12, 18, 21	Tonya N. Bradley	15	Stephen Danchuk	9
Aminna Ackridge	20	Josh Brehm	15, 19	Nell Danforth	6, 15
Hector Acosta-Cervantes	14	Jack Brockamp	15, 19	Sarah Daves	9
Cole Aldred	15	Megan Broughton	15, 19	Launia Davis	9, 14
Jessica Alexander	3	Johnathon Browe	21	Natalie Dean	7
Forrest Allen	12	Jessica Brown	6, 14, 15	Jeremiah DeBello	21
Anwar Alsaif	21	Cheyanne Bumgardner	6, 20	Natalie DeLonge	19
Abdulrahman Alsuwayyig	jh 21	Berlyn Nicole A. Buncal	13	Travis Dennis	11
Andres Alvarez	8	Julia R. Bynum-Lewis	15	Sharik Diaz	11
Cristian Amador Hernand	lez 8, 9			Felicia Dickinson	21
Terann Anderson	13	С		Oskar Dieterich	7
Ailyn Angel	6	Carson Calder	21	Isaac I. Dilworth	15
Nora Angus	12	Nicole Caldwell	6, 7, 8	Justin Dodge	6
Ayanna Arceneaux	21	Manuel Camacho	15	Maddie Dohrer	8, 9
Malcom Archambault	7	Kristen Case	15, 19	Jordan Doster	20
Stuart Ashenbrenner	14	Citlalli Castaneda	15	Jacques Dupuis	15
Bryce Askew	19	Yetzaveli Cervantes Almo	nte 11		
Rachelle Austin	3	Jon Chayse	21	E	
Jennifer Avila Lara	8	Brant Cheeley	8	Jesse Edwards	15, 18
Gisela Ayala Echeverria	13	Mengyuan Chen	9	Alexander Eidler	8
Alexandria Azorr	3, 19	Yumin Chen	11	Malia Elliott	19
Sydney Azorr	19	Xinrui Cheng	12	Setareh Entagh	11
		Hannah Chilton	8, 14	Robin Evers	7
В		Matthew Ciraulo	7		
Paige Bailey	20	Abigail Coates	20	F	
Kayla Baker	11	Jaelynn N. Cocker	15	Emily Farnell	10
Emily Balck	15	Gregory Coe	11, 12	Katherine Farr	14
Palmer Baldwin	10	Zac Cole	20	Nicholas Fausti	12
Adam Baron	3	Hunter Collins	12	Demeter Finch	8
Eva Batenhorst	11	Erika Conley	20	Camille Firth	18,
Kaitlyn Baurer	20	Shayna Conner	12	Christy Fitch	11
Alexandra Bell	6	Alexandra Crawford	19	Anthony Franco	11
Alissa Benefiel	7	Hannah R. Cronin	15	Maria Franco Maciel	15, 18
Heidi Benham	6	Cassandra Crosman	18	Morgan Fredricks	18
Austin Bergman	12	Maydoli Cruz Quintero	15, 19	Emily Frey	3
Alex Bishop	7	Colton Cypert	9	Eric Frey	11
Kalea Borling	10			Julia Fruit	13
Isaac Bosquez	21			Stacia Fry	14
				Sarai Fuentes	15
				Grant Fullerton	7

G		Sawyer Heckard	9	K	
Kodie Gallegos	3, 18	Holt Henderson	8, 9	Adam Kane	21
Mackenzie Gallo	6	Alyssa N. Hendricks	15	Brittany Kasim Carew	8, 9
Cesar Garcia	19	Isabella Hennessy	19	Grant Kauffman	11
Jocelyn Garcia	8, 12	Madison Hoffmann	20	Multezem Kedir	7
David Garcia Coria	19	Francesca Holborn	18	Ethan Q. Keleher	15
Cristina Garcia Toche	13	Amber Holland	8, 9	Madison Kelley	9
Nicole Gebbie	18	Joshua Householder	19	James Kelson	13
Stuart Gee	14	Mary Howells	11	Hudson Kennedy	6
Michael Gonzalez	8	Ruoyu Hui	12	Cam Kennedy	21
Suleidi Gonzalez	8			Renata Kerwood	11
Kailee Rae Goodrich	8	I		Nikki Ki	7
Helen Goodyear	9	Nash Idler	18	Sage Kiernan-Sherrow	7
Jacob Grassman	7			Nate Kisaberth	21
Jodi Green	15, 19	J		Taylor Klus	19
Autumn Greenley	9	Katrina Jacobs	9	Grace Knapp	21
Victoria Greer	20	Tiffany Jansen	14	Nova Kohnke	7
Alyssa Grimes	20	Olivia Jasmin	7	Mandie Kondash	11
Maxwell Grimsrud	3, 18	Alison Jensen	14, 15	Tim Korchagin	9, 12
Dominic Groshong	14	Owen Johnson	18	Kseniya Kotenko	15, 19
Shawn Gutierrez	18	Savannah Johnson	20	David Kunz	14
Diana Gutzke	18	Jesse Johnson	21	Stephanie Kurz	3
		Ashley Johnston	20		
Н		Camden Jones	8	L	
Maddie Haas	19	Schaefer Jones	9	Manuel Larios	7
Timothy Hagen	10	Austin Jones	10	Jenae Larson	19
Sophie Hall	21	Tyler Jones	13	Courtney Lau Hee	3, 20
Jerika Hammett	11	Daniela Juarez Rodriguez	15, 19	Margaret Leinenweber	11
Lee Hancock	19	Kyle Juba	12	Nicholas Leonard	7
Sophia Hanefeld	10	Andrea Juhasz	21	Jacoby Leseberg	11
Madelyn Hanes	15			Jiading Li	11
Madeleine Hannah	6, 20			Runnan Li	11
Monica Hardesty	7			Honghui Li	20
Bethany Harding	9			Christopher Linares-Espinoza	15
Max Harmon	11			Meiyi Liu	9
Whitley Harrel	18			Edgar Llamas	21
Alyssa Harris	20			Eric Lomeli	9
Rachel Hartnett	18			Maira Lopez Lopez	21
Nicholas Harvey	20			April Lyons	10
Morgan Haskett	3, 13, 20				

STUDENT INDEX

M		N		R	
Katherine Macias-Torre	s 21	Haliegh Nagle	12	Dayna Ragasa	6
Aubrey Manculich	11	Caitlyn Nakatsukasa	8	Janie Ramirez Manzo	10
lsaac Manju	21	Ta'ashi Napoleon	10	Maria Regalado Pina	8
Adrian Manriquez	18	Jon Naylor	10	Jordyn Reidy	15
Tricia Manzano	8	Jordan Nguyen	21	Danielle Reinke	11
Ricardo Manzo	9	Marlie Norman	19	Never Retallack	9
Sohaina Maratita	8, 12, 14, 15			Owen Reutlinger	6
Nicholas Marlas	7, 11	0		Ashley Richert	13
Jacob Martin	10	Nonoka Oba	21	Steven-Michael Richmond	8, 9
Olivia Martin	15	Elizabeth Obendorf	7, 8	Tommy Ridgway	7
Joshua Martinez	9	Kailey O'Connor	19	Sabrina Riff	8
Roman Martinez	13	Shaelyn O'Gorman	21	Leslie Riley	13
Amy Masters	20	Aidan Ohnemus	9	Morgan Roan	10
Peyton L. Matthews	15	Adrian Oliva	15, 19	Shane M. Roberts	15
Morgan Matthews	19	Lindsey Ormesher	21	Ramon Rodriguez	7
Mindy Mawhirter	6, 20	Monica Cerda Ortiz	13	Jared Roe	8, 9
Rebecca McBride	15, 19			Ben Roehrig	9
Laurel Megale	15	P		John Roell	18
Madeline Mehciz	18, 19	Kailen Pablo-Otoman	19	Jenny Rooper	8, 9
April Mickelson	11	Christopher Pacheco	19	Joseph Roos	19
Morgan Miller	10	Melissa Palanuk Mercier	18	Sam Rowley	11
Gregory Miller	13	Kexin Pan	12	Maria Rueda Barrera	11
Piper Miller	14	Alex Ped	8, 9	Katelyn Rule	11
Chloe Miller	15	Antonia Perez	6	Cameron Ryals	12
Jacen Miller	8, 9	Kira Peterson	19		
Anna Mitchell	14	Andreas Peven	8, 9	S	
Gabriela Monroy	9	Shaylie Pickrell	20	Rishel Samson	20
Ellen Moore	8	Kristen Piller	13	Crystal Scheese	11
Nicolas Mora-Flores	21	Ashlee M. Pires	15	Elizabeth Schenk	15
Marcos Morales	10	McKenzie Pitman	19, 20	ChyAnne Schlappie	21
Lea Morikawa	19	Washington Plada	14	Antonia Scholerman	15
April Mueller	15, 19	Bryce Poehlitz	12, 15	Katherine Schubert	14, 15
Blanca Muñoz Villarreal	19	Levi Polasek	9	Haley Scoggins	18
		Sarah Porter	18	Rachelle Scott	19
		Brianna Potter	21	Abigail E. Sefton	15
		Anakaren Puentes	3	Danielle Seuser-Smith	13
				Stephanie Shinkle	6

Haylie Shinsato	3	U		X	
Calla Shrode	9, 10	Brandon Uri	3	Chen Xia	9
Juneau Singleton	18	Brock Vance	14		
Emmie Slaughter	11	Nelina Vargas	11	Υ	
Alec Smith	3	Michael Versoza	12, 14	Kalynn Yamada	13
Damon Solomos	10	Adrian Vickers	14	Chavon Yamashita	11
Nathan Soltz	20	Taylor Viegas	19	Ruijiaming "Jennie" Yang	9
Cole Somers	15	Libby Vigil	11	Liz Yijung Yoon	21
Kelly Soto	15, 19	Helen Villagomez	18		
Jill St George	20	Anthony Visuaño	11	Z	
Emily St. Clair	15, 19			Yilei Zhao	9
Ashley Stacks	20	W		Yanjun Zhou	20
Matthew Stefansky	8, 9	Shion Wakita	12	Xiaoyu Zhu	9
Joseph Stepanenko	11	Jason Waldorf	18	Andrew Zieg	18
Shawn Stevens	18	Mackenzie Walston	18	Clarissa Zurita	15
Austin Stewar	15	Nicholas Wanderschied	3, 11, 15	Kevin Zwart	14
Cody Stewart	12	Fan Wang	9	Kelsey Zwicker	20
Teresa Stinar	15	Yiming Wang	9		
Mason Stokes	7	Michael Weaver	13		
Arianna Stone	13	Austin Wegner	12		
KJ Strickland	21	Hannah Wehr	11		
Drew Swatosh	14	Kaela Wehrman	8		
Jenae Sweet	14, 15	Kyle Wells	7		
		Chris West	21		
Т		Tamara Whittle	15, 19		
Baily Tarabochia	18	Laura Wildfang	8		
Tayler Tate	21	Nikita Williams	9		
Sean Tellvik	6, 20	Rachel Williams	21		
Tristin Thomas	15	Morgan Williams	8, 21		
Sydney Thomas	21	Laura Willoughby	6, 12, 14, 15		
Cory Timmons	6, 12, 14, 15	Benjamin Wilson	18		
Hannah Todd	21	Craig Wimmer	15, 19		
Sarah Tovar	6	Dakota Winslow	3		
Violet Trammel	15	Maya Wolf	18		
		Sara A. Wolfe	15		
		Monica Wolven	18		
		Jace Woods	7		
		Barbara Worthington	13		
		D-Dre Wright	3		

SESSION CHAIRS INDEX

В		Р	
Paula Baldwin	7	Cornelia Paraskevas	20
Michael Baltzley	11	Mark Perlman	10
Erin Baumgartner	13	Mary Pettenger	8, 9, 18, 21
Diane Baxter	13	Emily Plec	9
Ted Beers	7, 9, 11, 12, 14		
Dean Braa	7, 8, 10, 11	S	
Jennifer Bracy	6, 8, 9	Dana Schowalter	10, 12
		Kate Schwarzler	6
С		Jeffrey Snyder	21
Carmen Cáceda	20	_	
Brian Caster	19	T	44.45
Zoe Chan-Tuyub	8	Daniel Tankersley	14, 15
Jaime Cloud	11, 13, 18, 19, 20	Steve Taylor	10, 12, 14
		Garima Thakur	12
D	10	W	
Angela Docherty	18,	Misty Weitzel	19
David Doellinger	6, 8, 9	Wilsey Welezer	15
G			
Jodie Garrison	6, 8, 9		
Xiaopeng Gong	20		
1 0 0			
Н			
Henry Hughes	6, 7, 8		
K			
Gavin Keulks	8		
Brent King	11, 13, 18, 19, 20		
L Fraile Lile	11 12		
Emily Lilo	11, 13		
Chien-Chun Lin	6, 20		
М			
Amy McDonnell	7		
Katherine Miller	12, 14		
Becka Morgan	7, 11, 12, 14		
Matthew Nabity	10, 11, 13		
accirciv radbicy	10, 11, 13		

MENTORS INDEX

Α		н		N	
William Armstrong	6	Karen Haberman	11	Matthew Nabity	11, 13
		CM Hall	8	Rana Najjar	15, 19
В		David Hargreaves	6		
Michael Baltzley	11, 21	Mark Henkels	18,	0	
Diane Baxter	13, 14	Gareth Hopkins	21	Sharon Oberst	7
Cheryl Beaver	13	Ava Howard	21		
Ted Beers	7, 9, 11, 12, 14	Bau-Hwa Hsieh	10	P Consolio Bossolossos	6 20
Dean Braa	10, 11	Henry Hughes	7	Cornelia Paraskevas	6, 20
Jennifer Bracy 6, 8		Shaun Huston	21	SungEun Park	11
Deborah Brannan	13			Megan Patton-Lopez	13
_		J		Mark Perlman	10
C		Kimberly Jensen	6, 8	Mary Pettenger	18, 21
Carmen Cáceda	20			Emily Plec	9, 12
Peter Callero	7, 9, 11	K		R	
Doris Cancel-Tirado	11	Tom Kelly	9		6
Melissa Cannon	11	Brent King	18, 19,	John Rector	6
Brian Caster	19			S	
Jaime Cloud	3, 13, 20, 21	L	44 24	Dana Schowalter	10, 12
Ben Cote	10	Kristin Latham-Scott	,	Robin Smith	12
_		Emily Lilo	11	Lars Söderlund	7
D		Chien-Chun Lin	6	Elizabeth Swedo	6, 8
Vicki Darden	20	Karina Lopez	11	LIIZADCUT SWCCO	0, 0
Angela Docherty	15, 19	M		Т	
David Doellinger	8, 10	Margaret Manoogiar	n 11	Steve Taylor	10, 12
Maureen Dolan	7, 9, 10, 11	Jaime Marroquín	3	Garima Thakur	12
F		•	3	Darryl Thomas	7
-	3	Dan McCarthy	3 7	Rob Troyer	6
David Foster	3	Amy McDonnell			· ·
G		Ethan McMahan	3, 13	W	
Cynthia Garner	7	Pam Medzegian	15, 19	Patti Warkentin	15, 18, 19,
Jodie Garrison	8, 9	Leanne Merrill	10	Misty Weitzel	12, 19, 20
Xiaopeng Gong	20	Katherine Miller	12	-	
, adopen a dong	20	Becka Morgan	7, 9, 11, 12, 14		
		Scot Morse	7, 9, 11, 12, 14		
		Jessica Murfin	3		

PRESENTERS/OTHERS INDEX

A Noah Adams	5
B Diane Baxter Dean Braa	4
F Rex Fuller	2
H Yuzhou Huang	9
I Annie Ittner	4
M Dan McCarthy Leanne Merrill Jackie Morelli	4 5 9
O Sharon Oberst	7
P Mary Pettenger	8, 9
S Elizabeth Swedo	10
T Tristin Thomas Gay Timken	5 4
W Rob Winningham	2

PURE Insights wants YOU... ...to be in Volume 8 in fall 2019

Submit your outstanding, amazing, and generally fabulous undergraduate technical paper, research article, expository article, poem, short story, photograph, video or other creative work from any of WOU's academic disciplines. Submissions to *PURE Insights* are the original work of at least one undergraduate student with at least one WOU faculty mentor.

Submission deadline: June 24, 2019, 11:59 p.m.

Got a question? Contact Dr. Paula Baldwin, managing editor, at insights@wou.edu.

Volume 7 of *PURE Insights* is available online at: http://digitalcommons. wou.edu/pure



