

Thursday, April 12, 2018

PARENTS RECEPTION Hagemann Castle Room, Saemann Student Center, 8–10 a.m.

> STUDENT PRESENTATIONS Campuswide, all day



Wartburg College dedicates a day to recognize student achievements in and out of the classroom. Research, Internship, and Creative Endeavor (RICE) Day showcases academic and co-curricular pursuits across disciplines.

RICE Day is designed to:

- create a campus culture that celebrates academic excellence and rigor,
- foster awareness of and appreciation for a wide variety of student learning,
- provide a platform for students to share their knowledge and work, and
- inspire and educate the campus community, alumni, friends, and the general public.

RICE Day features poster sessions, oral and video presentations, readings, panel discussions, displays, art exhibits, and music performances.

RICE Day supports several goals of the college's strategic plan—lifting up the importance of deep and integrative learning, vocational discernment, mentoring relationships, and telling the Wartburg story.

A special thanks to the RICE Day Committee for planning this special event: Dr. Shawn Ellerbroek, chair; Dr. LeAnn Faidley; Carrie Gleason; Dr. Jennifer Larson; Sally Malcolm; Madison Simmons, student representative; Eric Sommermeyer; and Janeen Stewart.

Undergraduate research is made possible in part by a gift from Dr. Ferol S. Menzel, vice president for academic affairs and dean of the faculty from 1999 to 2011.

Schedule by Department/Area

Alpha Chi	2 20 2 45
Research Endeavors by Members Open House, The W Hall of Champions	2:30-3:45 p.m.
Art	
Student Displays, FAC Art Gallery (seniors) and FAC 114	All Day
Senior Presentations, FAC 114c	10-11:15 a.m.
Senior Art Exhibition and Opening Reception, FAC Art Gallery	7-9 p.m.
Athletics	
Open Practices (baseball, golf, lacrosse, softball, tennis, track and field)	4-6 p.m.
Business Administration, Accounting & Economics	
Senior Seminar in Business Presentations, WBC 117	8:30-9:45 a.m.
Economics Capstone and Research Paper Open House, WBC 117	10-11:15 a.m.; 1-2:15 p.m.
Advertising Campaign Client Presentations, WBC 217	1-2:15 p.m.
Center for Community Engagement	
Wicked Problems Incubator Presentations, WBC 116	10-11:15 a.m.
Internships and Urban Studies Programs Open House, WBC 116	1-2:15 p.m.
Education	
Iowa Professional Teaching Standards Portfolios/Electronic Portfolios, Reading Research, and Hawaii Student Teaching Open House, The W Hall of Champions	10-11:15 a.m.
Engineering Science	
Engineering Design Showcase, The W Classrooms (East and Middle)	7-9 p.m.
English	
EN 316 Shakespeare Course and Independent Research on Gender in Early Modern Literature Presentations, LH 324	10-11:15 a.m.
Panel Presentations (Poetry and Prose), LH 330	1-2:15 p.m.
German	
German Culture Capstone Research Presentation, LH 333	2:30-3:45 p.m.
History	
Historiography/Honors Research Seminar, CTC 200	10-11:15 a.m.
Historical Methods Course Research Presentations, CTC 200	2:30-3:45 p.m.
Intercultural Studies	
Capstone Project Presentations, LH 329	1-2:15 p.m.

Journalism & Communication Senior Capstone Documentaries, Neumann Auditorium	1:30-4 p.m.
Leadership Education	
Experiential Learning Presentations, WBC 215	10-11:15 a.m.
Capstone Portfolio Open House, WBC 215	1-2:15 p.m.
Music	
Music Education Capstone Poster Open House, FAC Lobby	8:30-9:45 a.m.
Ethnomusicology – Research in Ethnomusicology: Music Across Borders and Disciplines Poster Open House, FAC Lobby	8:30-9:45 a.m.
Music Performance Lecture Recitals, FAC 104 (Orchestra Hall)	1-2:15 p.m.
A Tchaikovsky Anniversary Celebration, FAC Lobby	2:30-3:45 p.m.
Ensemble Open Rehearsals	
Castle Singers, Chapel Wartburg Choir, Chapel Wind Ensemble, FAC 100	3:45 p.m. 4:50 p.m. 4:50 p.m.
Peace and Justice Studies	
Envisioning Peace, Pursuing Justice Paper Presentations, LH 324	8:30-9:45 a.m.
Religion and Philosophy Issues of Faith and Life Research Paper Presentations, LH 330	2:30-3:45 a.m.
Scholars Program	
-	.; 10-11:15 a.m.; 1-2:15 p.m.
Social Entrepreneurship	
Non-profit Management Client Pitch, WBC 117	2:30-3:45 p.m.
Social Sciences Political Science, Psychology, and Sociology/Criminology/Criminal Justice: Open House/ Poster Session and Presentations, The W Hall of Champions and The W Classrooms	1-3:30 p.m.
Social Work	
Field Education Symposium and Honors Presentations, The W Hall of Champions and The W Hall of Fame Room	8:30-9:45 a.m.
Spanish	
Latinx Talks (in Spanish), LH 326	10-11:15 a.m.; 1-3:30 p.m.
Capstone Roundtable Presentations, SSC 244 (Castle Room)	2:30-3:45 p.m.
STEM	
Departments of Biology; Biochemistry, Chemistry & Engineering Science; Mathematics, Computer Science, & Physics: Open House/Poster Session, The W Hall of Champions	7-9 p.m.

Schedule by Time

Wednesday, April 11

5:30 p.m. Scholars Program: Senior Banquet (by invitation only)

Thursday, April 12

All day	Art: Student DisplaysFAC #	Art Gallery (seniors) and FAC 114
8-10 a.m.	Parents Reception (by invitation only)	
8:30-9:45 a.m.		
	Business Administration, Accounting & Economics: Senior Seminar in E	Business Presentations WBC 117
	Music: Music Education Capstone Poster Open House	FAC Lobby
	Music: Ethnomusicology – Research in Ethnomusicology: Music Acro and Disciplines Poster Open House	ss Borders FAC Lobby
	Peace and Justice Studies: Envisioning Peace, Pursuing Justice Paper	Presentations LH 324
	Scholars Program: Senior Project Defenses	WBC 214 (Buckmaster)
	Social Work: Field Education Symposium and Honors Presentations	The W Hall of Champions and The W Hall of Fame Room
10-11:15 a.m.		
	Art: Senior Presentations	FAC 114c
	Business Administration, Accounting & Economics: Economics Capsto and Research Paper Open House	one WBC 117

Center for Community Engagement: Wicked Problems Incubator Presentati	ons WBC 116
Education: Iowa Professional Teaching Standards Portfolios/ Electronic Portfolios, Reading Research, and Hawaii Student Teaching Open	The W Hall of Champions House
English: EN 316 Shakespeare Course and Independent Research on Gender in Early Modern Literature Presentations	LH 324
History: Historiography/Honors Research Seminar	CTC 200
Leadership Education: Experiential Learning Presentations	WBC 215
Scholars Program: Senior Project Defenses	WBC 214 (Buckmaster)
Spanish: Latinx Talks (in Spanish)	LH 326

11:30 a.m.-12:45 p.m.

	Lunch		Den	-Rittersaal, Konditorei, Mensa, Zesty Ora	nge
	Scholarship Lui	ncheon (by invitation on	ly)		
1-2:15 p.m.	Business Admin	istration, Accounting & Ec	conomics: Advertis	ing Campaign Client Presentations WBC	217
	Business Admir Research Paper	nistration, Accounting & Open House	Economics: Econ	omics Capstone and WBC	117
	Center for Com	munity Engagement: Int	ternships and Urb	oan Studies Programs Open House WBC	116
	English: Panel F	Presentations (Poetry and	d Prose)	LH	330
	Intercultural Studies Minor: Capstone Project Presentations		ons LH	329	
	Leadership Edu	cation: Capstone Portfo	lio Open House	WBC	215
	Music: Music Pe	erformance Lecture Reci	tals	FAC 104 (Orchestra I	Hall)
	Scholars Progra	ım: Senior Project Defen	ses	WBC 214 (Buckmas	ster)
1-3:30 p.m.		– Political Science, Psycl oster Session and Presen		logy/Criminology/Criminal Justice: W Hall of Champions and The W Classro	oms
	Spanish: Latinx	Talks (in Spanish)		LH	326
1:30-4 p.m.	Journalism & Co	ommunication: Senior C	apstone Docume	ntaries Neumann Auditor	rium
2:30-3:45 p.m.	Alpha Chi: Rese	arch Endeavors by Mem	bers Open House	The W Hall of Champ	ions
	German: Germa	an Culture Capstone Res	earch Presentatio	n LH	333
	History: Histori	cal Methods Course Rese	earch Presentatio	ns CTC	200
	Music: A Tchaikovsky Anniversary Celebration Religion and Philosophy: Issues of Faith and Life Research Pape Social Entrepreneurship: Non-profit Management Client Pitch		FAC Lo	obby	
			and Life Researc	h Paper Presentations LH	330
			nagement Client	Pitch WBC	117
	Spanish: Capsto	one Roundtable Presenta	ations	SSC 244 (Castle Ro	om)
4-6 p.m.	Athletics: Open	Practices (baseball, golf	f, lacrosse, softbal	l, tennis, track and field)	
	Music: Ensemb 3:45 p.m. 4:50 p.m. 4:50 p.m.	le Open Rehearsals Castle Singers Wartburg Choir Wind Ensemble	Chapel Chapel FAC 100		
7-9 p.m.	Art: Senior Art	Exhibition and Opening	Reception	FAC Art Ga	llery
	Engineering Sc	ience: Engineering Desig	gn Showcase	The W Classrooms (East and Mid	idle)
	Chemistry & En	ments of Biology; Bioche gineering Science; Math ace & Physics: Open Hou	nematics,	The W Hall of Champ	ions

Computer Science & Physics: Open House/Poster Session

Sessions and Events

Wednesday, April 11

5:30 p.m. Scholars Program: Senior Banquet (by invitation only)

Thursday, April 12

All Day Art: Student Displays

Waldemar A. Schmidt Art Gallery (seniors) and Bachman Fine Arts Center 114

8-10 a.m. Parents Reception (by invitation only)

8:30-9:45 a.m. Business Administration, Accounting & Economics: Whitehouse Business Center 117 Senior Seminar in Business Presentations

Dr. Allan Bernard, assistant professor of business administration

Hunter BaldusRockwell CollinsGrace ByramAmazonEmily DeBoerMeredith CorporationParker HammelRockwell CollinsJasie WhitingerEtsyZhanfei XuGoldman Sachs

Music: Music Education Capstone Poster Open HouseBachman Fine Arts Center LobbyDr. Scott Muntefering, associate professor of music; Dr. Nicki Toliver, assistant professor of musicTim BairdSight-Singing and the Independent MusicianAllison CoeHow Video Games Impact Student Learning in the K-8 Music ClassroomBritni Cohen-WichnerSynesthesia: Use of Cross Modal Associations to Improve Musical UnderstandingHailey FranzenWhen Music Becomes a Choice: Working with Deaf Students in American Instrumental ClassroomsAndrea Weiss

An Inclusive Classroom: A Guide to Assistive Technologies for Exceptional Populations

Music: Ethnomusicology – Research in Ethnomusicology: Music Across Borders and Disciplines Poster Open House

Dr. Paula Survilla, professor of music

Anna Broring Liwaya – Come What May: Music and Education in Kenya

Madelyn Carlson Linguistic Trends in and from Pop Punk Music

Christopher Hale "Should We Do This?": A Look into Negotiating the Presentation of the African-American Spiritual in Choral Repertoires and a Guide to Ethical Performance of the Spiritual

Franzen Hailey An Observation: The Cross Section of Mental Health, "Punk" Music, and Warped Tour

Samantha Hallgren An Exploration of Music Therapy with Somalian Refugees in Minneapolis

Megan Offerman The Crippling Fear: Performance Anxiety in the Music Realm

Lindsey Tufts The Color of Sound

Peace and Justice Studies: Envisioning Peace, Pursuing Justice Paper Presentations

Luther Hall 324

Dr. Kyle Schenkewitz, visiting assistant professor of religion

8:30 a.m. Rachel Perkins Title IX Implementation on Small Liberal Arts College Campuses

8:55 a.m. Cassandra McClain Sexual Assault on Iowa College Campuses

9:20 a.m. Esmeralda Alarcon A Humanitarian Crisis in Syria

Scholars Program: Senior Project Defenses Whitehouse

Whitehouse Business Center 214 (Buckmaster)

8:30 a.m.	Stephen Klaasen	Dr. Ed Westen, adviser
	Determination of the Just Noticeable Application of Weber's Law	Difference in Fastball Pitch Velocity and
8:50 a.m.	Stephen Marak The Effects of Weak Lewis Acids on H and Sulforaphene	<i>Dr. Matthew Zart, adviser</i> PLC Peak Resolution of Sulforaphane
9:30 a.m.	Rachel Pape The Struggle for Chicana Identity: <i>Bo</i> <i>Street</i>	Dr. Zak Montgomery, adviser rderlands: La Frontera and The House on Mango

Social Work: Field Education Symposium and Honors Presentations

Dr. Tammy Faux, professor of social work; Lynn Peters, associate professor of social work

Honors Presentations

Phi Alpha Honor Society Induction Destany Himschoot, Kaitlyn Kregel, Audrey List, Lauren Rupprecht

Outstanding Senior Michelle Lackner

St. Elizabeth Award Kennedy Haut

Field Fair

Student Research Olivia Tangren Respite Options Qualitative Evaluation

Dr. Tammy Faux and Dr. Daniel Sundblad, advisers

Senior Practicum

Herbert Brown	St. Frances Center – Denver, Colo. (Laura Kuhlmann)
Madysen Espeland	Allen Child Protection Center (Miranda Kracke)
Travone Gray	lowa Department of Human Services (Melisa Lammers)
Maria Gonzalez	People's Clinic (Melissa Dunleavy)
Ariana Gremmels Olson	The Center at Lowry – Denver, Colo. (Anneliese Muhlbauer)
Kennedy Haut	Mount St. Vincent's Home – Denver, Colo. (Jessica Pfeiffer)
Jocelyn Keller	Allen Hospital (Anna Cullen)
Michelle Lackner	Black Hawk Grundy Mental Health Center (Tricia Naylor)
Andrea Leisinger	Mount St. Vincent's Home – Denver, Colo. (Jessica Pfeiffer)
Audrey List	9-5 – Denver, Colo. (Paula Smith Ordaz)
Yarinsy Torres	Lutheran Services in Iowa: Families Together (Samantha Soash)

10-11:15 a.m. Art: Senior Presentations

Bachman Fine Arts Center 114c

Barbara Fedeler, professor of art; Thomas Payne, professor of art

- 10:30 a.m. Suusan Ng Wan Jium
- 10:38 a.m. Suwanna Mabangklu
- 10:46 a.m. Michael Benson
- 10:54 a.m. Makenzie Thorson
- 11:02 a.m. Mlungisi Ncube

Business Administration, Accounting & Economics: Economics Capstone and Research Paper Open House

Dr. Tamrat Gashaw, assistant professor of economics

Brayton Brandt Price Elasticity of Demand of U.S. Stocks Before and After the Financial Crisis - Quantile Approach

Isaac Hatangimana

Impact of Automation on the Economy: Cases of Self-driving Cars & Insurance; Robotics and Unemployment

Seth Jobes-Ryan Price Volatility of Bitcoin

Sarah Mirs Economic Recovery in Former USSR States

Thomas Schiffer Health Insurance in the United States

Nicholas Waterhouse The Impact of Recession on Child Poverty in Iowa

Zhanfei Xu Determinants of Consumption in China

Joseph Zittergruen Stock Market Returns and Weather

Center for Community Engagement: Wicked Problems Incubator Presentations		Whitehouse Business Center 116
10 a.m.	Joe Freiburger, Kylie Kelchen	Health Points
10:15 a.m.	Grant Kincaid, William McDonald, Sam Nettleton	The Save Erator
10:30 a.m.	Collins Kalyebi	Heritage Kit Pad
10:45 a.m.	Ashley Reynolds	BioBucks
11 a.m.	Madison Bloker	Bound Blessings

Education: Iowa Professional Teaching Standards Portfolios/ The W Hall of Champions Electronic Portfolios, Reading Research, and Hawaii Student Teaching Open House

Reading Research

Natalie Peyton	Dr. Stephanie TeKippe, adviser
Perceptions of an Open Classroom Design	
Liz Roby-Miklus	Dr. Kelly Faga and Dr. Stephanie TeKippe, advisers
Teacher Perceptions of African-American Vernacular English Use in the Clasrooms: A K-12 Study	

Student Teaching

Mara Forsyth Student Teaching Island Style

Teaching Portfolios

Emily Carroll, Sarah Grabowski, Abby Singleton

Electronic Portfolio

Caria Philgreen

English: EN 316 Shakespeare Course and Independent Research on Gender in Early Modern Literature Presentations

Dr. Stephanie TeKippe, adviser

Luther Hall 324

Dr. Rachel Clark, associate professor of English

10 a.m.	Abby Klug Spenser's Wonder Woman: Amazons in Book V of the <i>Faerie Queene</i>
10:15 a.m.	Lizzy Blough The Queenship of Shakespeare's <i>Tamora</i>
10:30 a.m.	Megan Newbrough The Tragedy of Daughters and Their Dominating Fathers
10:45 a.m.	Jordyn MacDonald Poison and Effeminacy in <i>Hamlet</i> and <i>Romeo and Juliet</i>

History: Historiography/Honors Research Seminar

Classroom Technology Center 200

Dr. Terry Lindell, professor of history; Dr. Erika Lindgren, associate professor of history

Stephanie Dunbar Maintenance and Change of Mental Health Institutions in America: An Iowa Example Coen Brown George Custer and the Battle of the Little Bighorn Alviann Jordan Reconstruction Historiography

Leadership Education: Experiential Learning Presentations Whitehouse Business Center 215

Ayo Adebayo, Diane Delgado, Jenna Holtz, Brandon Prine, Clay Weltha Dr. Fred Waldstein, adviser Demonstrating Leadership through Community Emergency Response Team (CERT) Training

Morgan Finch, Mackenzie Funke, Tyler Johnsrud, Ty PutchioDr. Fred Waldstein, adviserDemonstrating Leadership through Retrieving Freedom Incorporated (RFI)

Allison Hesse, Alexis Kuehl, Melissa MeyerAshley Lang, adviserCommunity Builders: Transforming Leadership Theory into PracticeAshley Lang, adviser

Dr. Kelly Faga, adviser

Jenna Brannaman, Timmery Foster, Michelle Hahn, Hailey Schmitz Character and Leadership Development: Experiences and Perspectives Associated with Attending a USAFA Leadership Conference

Scholars Program: Senior Project Defenses Whitehouse Business Center 214 (Buckmaster) 10 a.m. Madalynn McKelvey Dr. Daniel Black, adviser Preferred Leadership Frameworks in Engineering Teams 10:20 a.m. Michael Johnsrud Dr. Keith McClung, adviser The Co-Localization of Prohibitin-1 and Prohibitin-2 on Estrogen Receptor Alpha in MCF-7 and SKBR-3 Breast Cancer Cells 10:40 a.m. Dr. John Zelle, adviser Amv Isvik Lost Cities: An Exercise in Machine Learning 11 a.m. Mokgari Aphane Dr. Jay Garaycochea, adviser Investigation of Characteristics of Orphan G-Protein Coupled Receptors in the Class-C Family

Spanish: Latinx Talks (in Spanish)

Luther Hall 326

Ashley Lang, adviser

Dr. Thom Boerigter, professor of Spanish

Jezel Cabrera Stuck in Between

Jaquelyn Garza You Get What You Give

María Munguia How I Became *la Bollía*

Gema Villanueva Who I Am is Still a Work in Progress

11:30 a.m.-12:45 p.m.

Lunch

Please enjoy lunch at any of the following campus venues: Den-Rittersaal (Saemann Student Center), Konditorei (Vogel Library), Mensa (Saemann Student Center), Zesty Orange (The W)

Scholarship Luncheon (by invitation only)

1-2:15 p.m. Business Administration, Accounting & Economics: Advertising Campaign Client Presentations

Kimberly Folkers, associate professor of business administration

Amit Bharam, Corbin Brungard, Clint Kannegieter, Ben Sass Waverly Golf Course Advertising Campaign 1

Ayo Adebayo, Cory Brannaman, Paul Koebke-Barsic, Sulibeth Velez Waverly Golf Course Advertising Campaign 2

Nicole Adair, Megan Cowherd, Jillian Huser, Trevor McLaughlin Waverly Golf Course Advertising Campaign 3

Jerod Ballhagen, Mitch Black, Brandon Prine, Kaleb Noel Waverly Golf Course Advertising Campaign 4

Hunter Baldus, Reid Mathis, Ashlyn Moen, Jenna Winter Waverly Country Club Advertising Campaign 1

Colby Hansen, Mitch Longcor, Evan Sprung, Gavin Timp Waverly Country Club Advertising Campaign 2

Naomi Alene, Janae Conley, Jakeena McKay Waverly Country Club Advertising Campaign 3

Bo Bader, Bre Bader, Megan Murphy, Miranda Murphy Waverly Country Club Advertising Campaign 4

Business Administration, Accounting & Economics: Economics Capstone and Research Paper Open House

Whitehouse Business Center 117

Dr. Tamrat Gashaw, assistant professor of economics

Dunim Ariunbold The Effect of CO₂ on the Mongolian Economy and Environment (Kuznet curve hypothesis)

Samuel Brooks The Effect of Recessions on Hospitals and Nurse Employment

Tapiwa Chimanye Impact of Bilateral Trade on Some African Countries

Sameeullah Jung Microfinance and Islamic Finance

Teboho Mohloai The Impact of Income Inequality on Growth

Michael Zhang The Effects of Unemployment Insurance Claims on the Unemployment Rate

Center for Community Engagement: Internships and Urban Studies Programs Open House

Jo Dorrance, internship coordinator

Wartburg West

lan Coon	Open Media Foundation
Mason McMillan	Nostalgic Homes Realty
Maria Munguia	Ronald McDonald House
Megan Stephenson	Boys & Girls Club Metro Denver

Internships

Alexis Bodzioch	Wartburg Marketing & Communication
Brady Heusinkvelt	State Bank of Waverly
Todd Greer	Hope Community Resources
Kailee O'Brien	Comedy Works

English: Panel Presentations (Poetry and Prose)

Dr. Amy Nolan, professor of EnglishRebecca BuchananPoetryAlex GlascoePoetryMorgan RiedeselHello (Anxiety) (poetry)Lauren YuskaThe Blood Beneath My Skin (fiction)

Intercultural Studies Minor: Capstone Presentations

Luther Hall 329

Luther Hall 330

Dr. Joyce Boss, professor of English

Abdulrahman Aldarwish, Abdalaziz Altoem, Molly Astarita, Madelyn Carlson, Sneha Mahapatra, William McDonald, Rachel Pape

Leadership Education: Capstone Portfolio Open	House Whitehouse Business Center 215			
Dr. Fred Waldstein and Dr. Daniel Kittle, advisers				
Tyler Lutes, Ben Ntakirutimana, Dan O'Brien, Rache	l Perkins, Meghan Silbernagel			
Music: Music Performance Lecture Recitals	Bachman Fine Arts Center 104 (Orchestra Hall)			

Garrett Arensdorf, tuba Britni Cohen-Wichner, clarinet Scott Eiklenborg, percussion Samantha Hallgren, soprano Maddie McKelvey, soprano Aaron O'Leary, piano

Scholars Program: Senior Project Defenses

Whitehouse Business Center 214 (Buckmaster)

1 p.m.	Amanda Wright Locomotor Activity in <i>Drosophila Melanogaster</i> Lar	Dr. Stephanie Toering Peters, adviser vae with Varying Calmodulin Levels
1:20 p.m.	Ashley Anderson Co-localization of XPLN with PSD-93 and PSD-95 ir	Dr. Shawn Ellerbroek, adviser Differentiated PC12 Cells
1:40 p.m.	Cassandra Smith CRISPR Mediated Knock-out of Matrix Metalloprote	Dr. Shawn Ellerbroek, adviser einase-9 in Ovarian Cancer Cells
2 p.m.	Natalie Peyton The Impact of Passion Based Learning in Schools	Dr. Rick Snyder, adviser

1-3:30 p.m. Social Sciences: Psychology and Sociology Open House/Poster Session

The W Hall of Champions

Advanced Research Methods Course Posters

Dr. Shaheen Munir, professor of psychology

Dragoslava Barzut Cross-cultural Comparisons of Underlying Factors in Mental Health and Treatment-Seeking Attitudes

Tyler Davis Interruption Frequency and Stress: Role of High and Low Stakes Tasks

Tahjae Handy College Students' Academic Performance: The Role of Family Support

Olivia McAtee Perceptions of Crime Severity and Penalties as a Function of Offender Characteristics

Dean Pieper Modeling of Alcohol Consumption and Attitude: The Mediating Role of Personality

Dr. Cynthia Bane, professor of psychology

Abbey Bond The Relationships Among Socioeconomic Status, the Principle of Care, and Helping Behavior in Urban, Suburban, and Rural settings

Hannah Doyl The Effects of Relationship Type on Collaboration Inhibition

Evan Larson Personality Traits, Social Support, and Burnout in First/Multi-Generation Students Elizabeth Lyke

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The Effects of Music and Images on Nostalgia and Reminiscing Among Older Adults

Kavalyn Wilson The Relationships Among Alcohol Use, Motives for Alcohol Use at Different Ages, and Loneliness

Dr. Andrea Eslick, assistant professor of psychology

Samantha Braundmeier The Effect of Sleep on the Recollection of False Memories

Breanna Hanson Cognitive Performance & Physical Activity in College Students

Brooke Huffaker Factors Affecting Perceptions of Psychological Disorders

Beth Mallon The Role of Collaboration in Solving Insight Problems

Brice Duhe' The Effect of Conflict on the Attribution of Blame

Elizabeth Lockwood Case Workers' Satisfaction Levels with Privately and Publicly Funded Foster Care Institutions

Independent Research Course Poster

Dr. Todd Reiher, professor of psychology

Sabah Munir Gender Differences in Math Attitudes and Math Anxiety Among College Students

Qualitative Research Methods Course Posters

Dr. Daniel Sundblad, associate professor of sociology

Benjamin Coleman The Effects of Study Abroad on Students Perceptions on Culture

Bryan Grubb Popular Criminals: A Content Analysis of Representations of Crime and Criminals Within Law and Order and Dateline

Gabrielle Hunt Content Analysis of the Media's Portrayal of Post-Traumatic Stress Disorder

Colin Jacobs The Causes of Happiness: An Examination of Happiness in College Students

Nicole Johnson Gender Socialization in Clothing

Olivia McAtee An Analysis of Crime Victims' Rights

Social Sciences: Political Science, Psychology, and Sociology/Criminology/Criminal Justice Presentations	The W Classrooms
Olivia Tangren The Impact of In-Home Respite Care on Foster Families	
Charles Riley Perceptions of Academic Performance Among African-American Male Athletes	
Ryan Richmond Perceptions of Male Athletes Who Seek Psychological Help	
Leisel Reimers The Portrayal of Female Police Officers in Fictional Media	
Destiny Northey Autism and Deviance in Popular Media	

International Relations Presentations

The W Classrooms (East and Middle)

27th Annual Midwest Political Science Undergraduate Research Conference, April 2018

Dr. Bret Billet, professor of political science

1-3:30 p.m.

1 p.m.	Emily Bingham Factors that May Affect Female Genital Mutilation in Africa
1:20 p.m.	Eric DeVos Deliverance or Damage? The Effects of Foreign Aid on the Duration, Intensity, and Death Toll of Civil War
1:40 p.m.	Nick Schwake

The Impact of Political Globalization on Economic Development

Advanced Research Methods Course Presentations The W Classrooms (East and Middle)

2 p.m.	Amy Brant Promoting Health in the Workplace: The Influences of Boo	Dr. Andrea Eslick, adviser ster Breaks on Job Satisfaction
2:15 p.m.	Zach Lamphere Tunnel Vision & Running into a Wall: The Effects of Disflue	Dr. Andrea Eslick, adviser ency on Confirmation Bias
2:30 p.m.	Lola Vafaeva Determinants of Current Psychological Well-being: The Impact of Childhood Coping Style	Dr. Andrea Eslick, adviser
2:45 p.m.	Emily Meeker Gender and Perceived Obstacles to Educational Attainme	Dr. Cynthia Bane, adviser ent and Early Career Success

Juvenile Justice Presentations

Dr. Brian McQueen, assistant professor of sociology/criminology/criminal justice

- 1 p.m. Caitlin Ryan, Joshua Feirer, Charles Riley, Hunter Gunderson Full Court Press: A New Interpretation of Our Juvenile Court System
- 1:25 p.m. Courtney Coleman, Kiersten Keller, Bailey Lambert, Malachi Gleason From School Halls to Prison Walls: How Mentorship and After-School Programs in Elementary Schools Decrease Likelihood of Incarceration

Policy Formulation, Administration, and Analysis Presentations The W Classroom (West)

Dr. Fred Waldstein, professor of political science

- 2:30 p.m. Trevor Hurd Mass Shootings and their Impact on Gun Laws
 2:45 p.m. Nicholas Schwake
- 2:45 p.m. Nicholas Schwake Campaign Finance

Conference Presentations

Midwestern Psychological Associate annual meeting, April 2018

Emily Christianson	Dr. Shaheen Munir, adviser
The Role of Smartphone Usage on Depression and Addiction	
Kierstin Keller Influences on STEM Interest among Middle School and College Students	Dr. Shaheen Munir, adviser
Ryan Richmond	Dr. Shaheen Munir, adviser
Individualism-Collectivism: Its Relationship to Help-Seeking and Mental H	lealth Stigma

CSBS Student Research and Engagement Conference, April 2018

Ryan Richmond	Dr. Shaheen Munir, adviser
The Effects of Psychoeducation and Gender on Menta	l Health Stigma and Help-Seeking
Morgan Piedocol	Dr. Shahaan Munir advisor

Morgan Riedesel Dr. Shaheen Munir, adviser Students' Evaluation of Articles: The Possibility of a Gender Bias

Midwest Sociological Society annual meeting, March 2018

Olivia McAtee An Analysis of Crime Victims' Rights	Dr. Brian McQueen and Dr. Daniel Sundblad, advisers
Destiny Northey Autism and Deviance in Popular Media	Dr. Brian McQueen and Dr. Daniel Sundblad, advisers
Liesel Reimers The Portrayal of Female Police Officers in Fictiona	Dr. Brian McQueen and Dr. Daniel Sundblad, advisers Il Media

Ryan Richmond	Dr. Brian McQueen and Dr. Daniel Sundblad, advisers	
Portrayal of Mental Illness on Popular Television		
Olivia Tangren Dr. Brian McQueen and Dr. Daniel Sundblad, advisers		
The Impact of In-Home Respite Care on Foster Families		

Association for Psychological Science Annual Convention, May 2018

Sabah Munir Dr. Todd Reiher, adviser Gender Differences in Math Attitudes and Math Anxiety Among College Students

27th Annual Midwest Political Science Undergraduate Research Conference, April 2018

Emily Bingham Factors that May Affect Female Genital Mutilation in Africa	Dr. Bret Billet, adviser
Eric DeVos Deliverance or Damage? The Effects of Foreign Aid on the Duration, Intensity, and Death Toll of Civil War	Dr. Bret Billet, adviser
Nick Schwake The Impact of Political Globalization on Economic Development	Dr. Bret Billet, adviser

Luther Hall 326

Spanish: Latinx Talks (in Spanish)

Dr. Thom Boerigter, professor of Spanish

Yecenia Andrade Un Mundo Multicultural

Brooke González Me, Myself and I Against the World

Abram Hernández Yo...

Jose Inocencio It's Different

Daniel Inzunza De Dos Mundos, A Story of Two Worlds

Shaila Vera A Conquistar el Mundo

1:30-4 p.m.	Journalism & Communication: Senior Capstone Documentaries	Neumann Auditorium
	Dr. Penni Pier, professor of journalism & communication	

1:30 p.m. Campuses in Crisis: State of Private Higher Ed in Iowa New Wave Films William Coonradt, Jasmyne Jones, Alexis Kemp, Jillian King, Cody Snider

	2 p.m.	<i>Bonnie Campbell: Innovator in Iowa, Leader for the Natic</i> Megan Burke, Marisa Falco, McKenzie Kielman, Kaz On Allison Stahmer, Aubree Taylor	
	2:30 p.m.	<i>When They Return</i> Miranda Fober, Alyssa Hewitt, Megan Offerman, Regin	Spotlight Films ald Prather, Jenna Winter
	3 p.m.	<i>Game Changer: The Heidi Soliday Story</i> Tyler French, Michelle Johnson, Matt Kerns, Samuel Sic Alexandra Stoffregren, Maya Weatherall	Fire Side Studios les,
	3:30 p.m.	<i>lowa Nice: Immigration in the Heart of America</i> Paul Bossua, Alyssa Edwards, Adeboye Olaniyan, Molly	Gestalt Films Savage, Bailey Strait
2:30-3:45 p.m.	Alpha Chi:	Research Endeavors by Members Open House	The W Hall of Champions
	Dr. Rachel C	lark, honor society adviser	
	Nicholas Ar The Phosph	p norylation of XPLN via PKC-Alpha	Dr. Shawn Ellerbroek, adviser
	-	in, Emma Friedly Dr. Jscle Defects in Drosophila Due to Prospero Knockdown	Stephanie Toering Peters, adviser
	Emily Capp The Co-Loc	er alization of XPLN with PSD-93 and PSD-95 in Differentiate	Dr. Shawn Ellerbroek, adviser ed PC12 Cells
	Mary Kate H Eye-Brain C	Hines oordination in Music Comprehension	Dr. Craig Hancock, adviser
	Abby Klug Spenser's W	<i>J</i> onder Woman: Amazons in Book V of the <i>Faerie Queene</i>	
	Jordyn Mac Poison and	Donald Effeminacy in <i>Hamlet</i> and <i>Romeo and Juliet</i>	
	Rachel Pape The Struggle for Chicana Identity: <i>Borderlands: La Frontera</i> and <i>The House on Mango Street</i>		
	Kimberly So Performanc	chlesinger ce and Research – <i>Suite for Piano</i> by Norman Dello Joio	
	Lola Vafaev Determinar	a nts of Current Psychological Well-being: The Impact of Ch	Dr. Andrea Eslick, adviser ildhood Coping Style
	German: G	erman Culture Capstone Research Presentation	Luther Hall 333
	Yvonne Loso	ch, assistant professor of German	
	Erin Hende	rson	

The Effects of the German Language on German Society through Examples of Noteworthy German Figures

History: Historical Methods Course Research Presentations Classroom Technology Center 200

Dr. Terry Lindell, professor of history

Will Goettl Kathryn Koob: A Unique Experience During the 1979 Iranian Hostage Crisis

Trevor Hurd The Iowa Civilian Conservation Corps

Madison Simmons The Stonewall Inn Riots

Music: A Tchaikovsky Anniversary Celebration

Bachman Fine Arts Center Lobby

Luther Hall 324

Dr. Suzanne Torkelson, professor of music

Anna Baldwin, Mattie Barr, Hugh Brown, Nora Brown, Greta Christiansen, Natalie Henricksen, John Hoehn, Kyle Hoffman, Kimberly Schlesinger, Emily Schmidt, Nathan Stephany, Courtney Stucker, Carly Van Keulen

Religion and Philosophy: Issues of Faith and Life Research Paper Presentations

Dr. Kyle Schenkewitz, visiting assistant professor of religion

2:30 p.m.	Rebecca Bennett	A Funeral for Death
2:55 p.m.	Kathryn Linthicum	Dear Church, Black Lives Matter
3:20 p.m.	Blake Shipman	Learning to Cherish the Old Rugged Cross: A Literary Analysis of Three Women from Diana Butler Bass' Christianity after Religion and a Call to Live a Theology of the Cross Led Life

Social Entrepreneurship: Non-profit Management Client Pitch Whitehouse Business Center 117

Dr. Emmalinde Roelofse, visiting assistant professor of business administration Elizabeth Falconer, Arial Hall, Ramsey Kock, Bailee Wallace

Spanish: Capstone Roundtable Presentations

Saemann Student Center 244 (Hagemann Castle Room)

Dr. Zak Montgomery, associate professor Spanish Riley Anderson How the Catholic Church was Essential to Franco's Regime

Katherine Bomgaars Challenges of Latino Ministry in the United States

Madelyn Carlson ¿Quién am I?: Identity Formation in Bilingual Students

	Saeed Halir The Myth o Emancipati	f Racial Equality: An E	xploration of Afrolatino Ide	entity in Cuba and Brazil during the Post	
		JulieAnna Olague "Spanglish": Taking a Linguistic Approach to Cultural Identity			
	Rachel Pape Feminism ir	e n the Salta Trilogy of Li	ucrecia Martel		
4-6 p.m.	Athletics: Open Practices: Baseball, Golf, Lacrosse, Softball, Tennis, Track and Field		Various Locations		
	Music: Ens	emble Open Rehears	sals		
	3:45 p.m.	Castle Singers	Chapel		
	4:50 p.m.	Wartburg Choir	Chapel		
	4:50 p.m.	Wind Ensemble	Bachman Fine Arts Ce	enter 100	
7-9 p.m.	Art: Senior	Art Exhibition and O	pening Reception	Waldemar A. Schmidt Art Gallery	
	Engineering Science: Engineering Design Showcase		The W Classrooms (East and Middle)		
	Dr. LeAnn Faidley, associate professor of engineering science				
	Noah Dahlstrom, Troy Heick, Tony Anstoetter, Hunter Sabers Engineering Design: RFI Game Table				
	Amirhossein Matoufiazar, Taha Al-azzawi, Tapiwa Chimanye Engineering Design: iLift				
	Morgan Neuendorf, Madison Thomas, Jay Tegge, Jeremy Ellerby Engineering Design: Automated Fish Feeder				
	Grant Gage, Jakob Hamilton, Madalynn McKelvey Engineering Design: Neumann Auditorium Piano Storage				
	Autin Bohling, Blake Mahoney, Tanner Eckhart, Ty Puchio Engineering Design: BATT				
	Cal Tauber, Erica Countryman, Dillon DeMott, Riley Anderson Engineering Design: Aquaponics Drain and Clean Reconstruction				
	Nathan Brown, Emma Fuhs, Clay Henning, Payton Hilby Engineering Design: Adjustable Activities Table				
	Alex Babcock, Hayk Hakobyan, Collin Jund, Mo Yang Engineering Design: Austina Automated Grinder				
		ndya, Mitchell Mohlis, jineering Design: Rice			
			b Buchheim, Jean Hakizim er Collection in Rwanda	ana	

STEM – Departments of Biology; Biochemistry, Chemistry & Engineering Science; Mathematics, Computer Science & Physics: Open House/Poster Session

Biology, Neuroscience, Public Health, and Environmental Science & Studies

Benjamin Cuvelier Re-Introduction of Birds to Northeast Iowa	L	Dr. Michael Bechtel, adviser
Makgari Aphane, Mohammed Mohammed, Sabah Munir Investigation of Characteristics of Orphan G-Protein Coupled		r. <i>Jay Garaycochea, adviser</i> :he Class-C Family
Jared Schulz, Ryan Yoder Comparison of Biological and Chemical Fertilizers to Promote		<i>Michaeleen Golay, adviser</i> owth
Madeline Kemp, Joel Topping Effects of Different Fertilizer Methods on Nitrate Concentration		. <i>Michaeleen Golay, adviser</i> d Leaves of Beets
Jakub Rys, Abram Hernandez, Bryce Origer Effects of Dawn(R) Dish Soap on the Degradation of Oil Hydr		. Michaeleen Golay, adviser Icanivorax borkumensis
Johanna Kluck, Teylor Jones, Hailey Schmitz Seasonal Variation of Leaf Morphology in <i>Hydrophyllum virgi</i> i		Michaeleen Golay, adviser
Maria Brown, Aryn Jones, Sarah Schwarz Anxiety Fluctuates Across Golden Syrian Hamsters' Estrous Cy		ı Larimer Bousquet, adviser
Alexa Schmitz, Alexandra Petersen, Diane Delgado Early Weaning as a Model of Early Life Adversity in C57BL/6N		ı Larimer Bousquet, adviser
Monica Crawford, Riley Woods Social Enrichment Differentially Affects Anxiety in Males and		ı Larimer Bousquet, adviser
Erin Anderson, Madison TeKippe, Colby Williams Effects of Repeated Testing in the Elevated Plus Maze	Dr. Samantha	ı Larimer Bousquet, adviser
Elizabeth Lockwood, Kaitlyn McGarvey, Karolina Paulsen, Tyle Co-Localization of Prohibitin 1 and 2 on Estrogen Receptor A		Dr. Keith McClung, adviser
Caleb Hanson, Carter Ross Expression of P-Glycoprotein for MCF-7 and SKBR-3 Cells in R	esponse to Tai	<i>Dr. Keith McClung, adviser</i> moxifen Treatment
Claire Blake, Elle Gadient, Chris Nicolet Role of Prairie Characteristics in Determining Lepidopteran P		<i>David McCullough, adviser</i> va Grasslands
Alissa Oswald, Kenzie Soukup, Kelsey Kellogg, Sierra Lovato Exposure to Sub-lethal Levels of Copper does not Suppress t Aversive Odorant		se Reyes-Tomassini, adviser anio rerio to Detect an
Cole Martin, Andrew Linkletter Expression of Major Surface Protease in <i>Leishmania tarentola</i>	е	Dr. Patricia Storlie, adviser
Brittney Fuller, Alicia Urbain CRISPR-Cas9 Plasmid for gp63 in <i>L. tarentolae</i>		Dr. Patricia Storlie, adviser
Nathan Keck, Nicholas Sterner, Rebecca Waldman Isolation of <i>Pogona vitticeps</i> Macrophages		Dr. Patricia Storlie, adviser

Mallory Weaver, Amanda Wright, Cody Birely Locomotor Activity in <i>Drosophila melanogaster</i> Larvae with Varyin	Dr. Stephanie Toering Peters, adviser ng Calmodulin Levels
Miranda Buchholz, Gabrielle Marchino, Haley Melz, Betsy Duehr Decreased Potassium Channel Expression Alters Response to Eth	
Colton Brown, Nicole Burgin, Emma Friedly Possible Muscle Defects in <i>Drosophila</i> Due to <i>Prospero Knockdown</i>	Dr. Stephanie Toering Peters, adviser n
Carter Ross, Caleb Hanson, Sara Ashar Analysis of Capsaicin Concentration in 20 Varying Species of Caps	Dr. Edward Westen, adviser sicum
Public Health	
Madeline Kemp Assessing the Health Needs of Bremer County: A Systematic App to Identifying Health Inequalities	Dr. Lorinda Sheeler, adviser roach
Alex Hohensee The Mile High Truth of Medical Marijuana: The Connection betwe	Dr. Lorinda Sheeler, adviser een THC and CBD
Mokgari Aphane Determinants of Reproductive Health in Bremer County	Dr. Lorinda Sheeler, adviser
Cody Lauritsen A Shot in the Arm: Analyzing Vaccination Rates in Bremer County	Dr. Lorinda Sheeler, adviser

Biochemistry, Chemistry & Engineering Science

Biochemistry

Ashley Anderson, Emily Capper, Nate Woeste	Dr. Shawn Ellerbroek, adviser
The Co-localization of XPLN with PSD-93 and PSD-95 in Differentiated P	PC12 Cells
Candace Baker, Grant Gingerich, Cassandra Smith	Dr. Shawn Ellerbroek, adviser
CRISPR-Mediated Knockout of Matrix Metalloproteinase-9 in Ovarian Ca	ancer Cells
Nicholas Arp, Ethan Lemke The Phosphorylation of XPLN via PKC Alpha	Dr. Shawn Ellerbroek, adviser

Chemistry

Munkhsanaa Erdenegerel, Nicholas Sedore Exploring The Existence of Putative Co(IV)-oxo Species	Dr. Matthew Zart, adviser
Nathan Stumme, Nick Sedore	<i>Dr. Matthew Zart, adviser</i>
Co(II) Metal Ion Complexes of tapa with Exogeneous Ligands Bound ir	the H-Bonding Pocket

Mathematics, Computer Science & Physics

Computer Science

Dominique Miller Oscars by the Numbers	Dr. John Zelle, adviser
Beni Ntakirutimana, Clifton Brown A Web Application for an Innovation and Mutation Simu	<i>Dr. John Zelle and Dr. Edward Westen, advisers</i> ulation Game
Amy Isvik Lost Cities: An Exercise in Machine Learning	Dr. John Zelle, adviser
Frank Ntwari A Raspberry Pi Based Console for CS120 Game-projects	Dr. John Zelle and Dr. Charles Figura, advisers
Joe Chamberlain, Caleb Geer Interactive Touch Table Design and Applications	Dr. John Zelle, adviser
Nathan Frana Grain Monitoring System	Dr. John Zelle, adviser
Farai Gandiya Virtual Jo, The Handy MCSP Helper	Dr. John Zelle, adviser
Annie Lammers Web Based Reservation Application	Dr. John Zelle, adviser

Mathematics

Sam Brooks The FedEx Problem and the Center of the United States	Dr. Brian Birgen, adviser
Johanna Ender Musical Maximally Even Sets	Dr. Brian Birgen, adviser
Madalynn McKelvey Mathematical Models for Current and Projected Global Mean Sea Level Rise	Dr. Brian Birgen, adviser
Tom Schiffer American Roulette: A Gambler's Ruin	Dr. Brian Birgen, adviser

Physics

Codey Olson	Dr. Ben Bousquet, adviser
A Study of Magnetic Induction Braking: Modeling the Dependence	
of Terminal Velocity on Pipe Wall Thickness	

Wartburg College

Wartburg College traces its roots to 1852, when Pastor Wilhelm Löhe of Neuendettelsau, Bavaria, sent Georg Grossmann and five students to found a teacher-training school for German immigrants in Saginaw, Mich. The college moved several times before making its permanent home in Waverly in 1935.

The college is named after the Wartburg Castle in Eisenach, Germany. A center of art and culture during the Middle Ages, the castle was home for St. Elizabeth in the 13th century and a refuge for Martin Luther during the stormy days of the 16th-century Reformation. The castle is a frequent destination for students and alumni, and a formal agreement between the college and the Wartburg Castle Foundation provides ongoing academic and cultural exchanges between Eisenach and the Wartburg campus. Waverly and Eisenach are Sister Cities, further strengthening the bonds between the two communities.

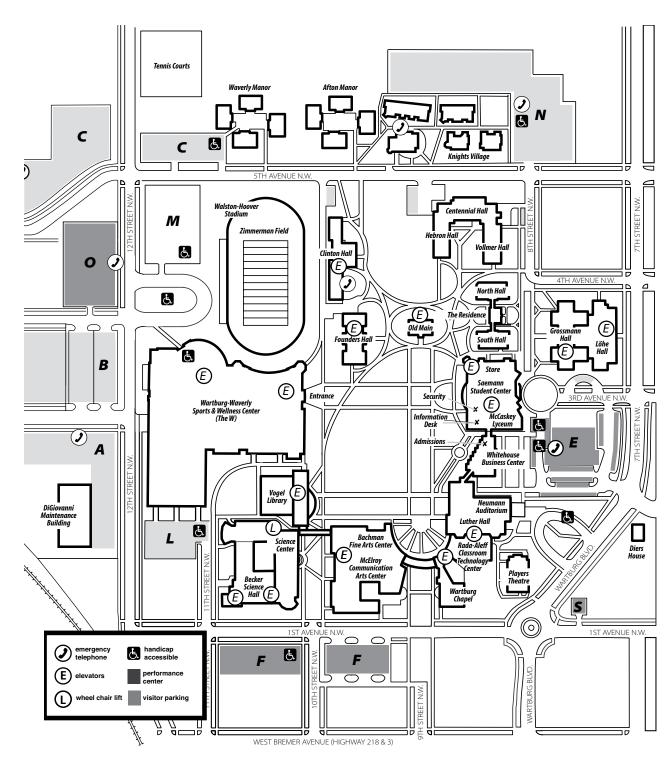
Wartburg's 2017-18 enrollment of 1,527 includes students from 30 U.S. states and 55 countries. Dedicated to challenging and nurturing students for lives of leadership and service, the college is characterized by vigorous academic expectations within an environment of strong personal support.

Community engagement has become nationally and internationally recognized as a hallmark of the Wartburg experience. The Carnegie Foundation for the Advancement of Teaching recognizes Wartburg among colleges that foster experiential learning and community engagement. Wartburg has been listed on the President's Higher Education Community Service Honor Roll for eight consecutive years, including four times with distinction. Wartburg was the first private college in Iowa, and the ninth in the nation, to earn a Gold rating from the Association of Sustainability in Higher Education.

Wartburg is listed in U.S. News and World Report's edition of America's Best Colleges and The Princeton Review's ranking of Best Midwestern Colleges. Its 118-acre campus includes more than 30 buildings. Old Main, built in 1880 and renovated in 1986, is listed on the National Register of Historic Places. The newest facilities include the Wartburg-Waverly Sports & Wellness Center (The W), the Science Center, and Saemann Student Center.

The Clinton Hall renovation and expansion project was completed in September 2016. It includes the addition of air conditioning, new windows, and improved bathrooms, laundry facilities, and common spaces. A new east-side addition expands the living and learning environment and includes a faculty apartment.

Wartburg College is dedicated to challenging and nurturing students for lives of leadership and service as a spirited expression of their faith and learning.





Leadership • Service • Faith • Learning

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