

2026 Schedule Sorted by Time

Start Time	End Time	First name	Last Name	Group Presenters	Title	Description	Room	Advisor	Area
8:00 AM	8:30 AM	Nathan	Folkert		San Francisco Air Passenger Traffic Analysis	This project analyzes San Francisco International Airport data to identify factors affecting monthly passenger counts and build a model predicting above- or below-median traffic.	AH 225	Dr. Michael Ratajczyk	Business and Communication
8:00 AM	8:10 AM	Joseph	McDermott		The Effects of Mergers and Acquisitions in Healthcare	Discussing how consolidations effects patients care and pricing within the healthcare industry.	AH 208	Prof. Derek Jackson	Business and Communication
8:10 AM	8:20 AM	Landon	Mold		Cost Accounting of Crop Vs Cattle Farming	Livestock and crop systems differ in cost structure: cattle require ongoing feed, health, and labor costs, while crop farming faces higher upfront input costs and weather-related risk.	AH 208	Prof. Derek Jackson	Business and Communication
8:20 AM	8:35 AM	Gretchen	Bredberg		REPURPOSING COLCHICINE: EVALUATING ITS ANTI-CANCER POTENTIAL IN BREAST CANCER TREATMENT	Colchicine demonstrates anti-cancer potential in triple-negative breast cancer cells by decreasing viability and promoting apoptosis, supporting drug repurposing strategies in oncology.	AH 306	Dr. Megan Girtman	Biology
8:20 AM	8:35 AM	Isabella	Schei		The Effects of Farm Equipment Noise on the Memory Retention of Saint Mary's University of Minnesota Laboratory Mice	This presentation will go over the effects of farm equipment noise on the memory of Saint Mary's University of Minnesota laboratory mice.	AH 310	Dr. Benjamin Pauli	Biology
8:20 AM	8:35 AM	Joelle	Hammann		Expression of TBX2 Enhanced Migration but had no Effect on Invasion of the BxPC-3 Cell Line	BxPC-3 cells were transfected with TBX2 DNA or a control and migration and invasion was measured with a scratch assay or Boyden Chamber assay respectively.	AH 212	Dr. Matt Rowley	Biology
8:20 AM	8:35 AM	Wesley	Felten		Impact of diet supplementation on osteoarthritis progression	Histopathology and histomorphometry was used to assess the impacts of high-fat diet and vitamin supplementation on osteoarthritis progression in the knee joint of CD1 mice.	AH 312	Dr. Philip Roper	Biology
8:20 AM	8:30 AM	Maddox	Cejka		Accounting and Financial Analysis of the 2009 Bankruptcy of General Motors	An accounting-focused analysis of GM's 2009 bankruptcy, examining structural causes, government intervention, Chapter 11 reporting, and financial lessons for transparency, liabilities, and corporate governance.	AH 208	Prof. Derek Jackson	Business and Communication
8:20 AM	8:35 AM	Kyle	Cloutier		Growth Hormone Relationship with Mitochondrial Malate Dehydrogenase Activity and Its Effects on Lipogenesis	Growth hormone has previously been shown to decrease fat accumulation; however, the effects on the enzymes involved in metabolism are unknown. In this study, the activity of mitochondrial malate dehydrogenase was explored with the addition of growth hormone.	AH 308	Dr. Alison Bates	Chemistry
8:30 AM	9:00 AM			Aldo Campagne, Houmam Kassar, Ryan Horlock, Kristen LaDue	Predictive Analysis of Player Transfer Value	This model enables teams to determine which players are worth pursuing, addressing the clear demand for a data-driven, consistent, and transparent way to estimate player value.	AH 225	Dr. Michael Ratajczyk	Business and Communication
8:30 AM	8:40 AM	Jack	Campion		Accounting for Contracts, Caps, and Taxes in the NHL	Examines how NHL player contracts are accounted for under GAAP, how the salary cap shapes contract structure, and how taxation affects player compensation.	AH 208	Prof. Derek Jackson	Business and Communication
8:30 AM	8:50 AM			Emma Kasella, Kirsten Sims, Ella Fry	Kangaroo Mother Care in Improving Outcomes for Premature Infants	This poster session explores the evidence behind the practice of Kangaroo Mother Care for low birth weight infants and proposes a plan for its implementation in the NICU.	AH 200	Dr. Linda Sargent	Nursing
8:40 AM	8:55 AM	Emma	Heidenreich		The Effect of TBX2 Expression on Migration and Invasion of the ZR-75-1 Cell Line	ZR-75-1 cells were transfected with TBX2 or control DNA and migration and invasion were measured using a scratch assay or a Boyden Chamber assay respectively	AH 310	Dr. Matt Rowley	Biology
8:40 AM	8:55 AM	Hannah	Klang		IMPACT OF STREPTOZOTOCIN-INDUCED TYPE 1 DIABETES ON CD8+ AND CD25+ T-CELL POPULATIONS IN MICE	Investigates early immune changes in type 1 diabetes by analyzing CD8+ and CD25+ T-cell populations in a streptozotocin-induced mouse model.	AH 312	Dr. Megan Girtman	Biology

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8:40 AM	8:55 AM	Joseph	Beckman		Relationship of Minnesota Ticks, Habitat and Small Mammal Community	This study examined how habitat factors and small mammal communities influence tick presence and abundance by analyzing environmental variables and trapping hosts.	AH 306	Dr. Benjamin Pauli	Biology
8:40 AM	8:55 AM	Lily	Goble		The Role of Ashwagandha in a Caffeine Induced Stress Response	This presentation will cover the role of ashwagandha as a potential natural anxiety relief method.	AH 212	Dr. Philip Roper	Biology
8:40 AM	8:55 AM	Rebeca	Pelluz Otero		Advancing SPME-GC-MS: MVOC Analysis Across Common Cosmetic Products	Bacterial metabolic byproducts may serve as chemical biomarkers for early contamination in cosmetic products.	AH 308	Dr. Nathan Lien	Biology
8:40 AM	8:50 AM	Zachary	Kantor		Does Managerial Accounting Play the Most Important Role in Strategic Decision Making?	10 Minute presentation on my research for Advanced Accounting.	AH 208	Prof. Derek Jackson	Business and Communication
8:50 AM	9:00 AM	Mya	Hermann		Government Fraud	This presentation analyzes government fraud, explaining how it occurs, identifying weaknesses in oversight and internal controls, and highlighting accounting and regulatory practices that can help prevent it.	AH 208	Prof. Derek Jackson	Business and Communication
8:55 AM	9:15 AM			Anna Peckosh, Kylie Faerber, Alaina Botz, Mikayla Vasilevich	The Effectiveness of the LUCAS Device Versus Manual Compressions on Survival Outcomes in Adult Cardiac Arrest Patients	Our research is designed to examine whether the LUCAS device is an effective replacement for manual compressions in adult cardiac arrest patients.	AH 200	Dr. Linda Sargent	Nursing
9:00 AM	9:15 AM	Celeste	Rimstad		Oxidative Stress-Induced Modulation of Malate Dehydrogenase in the Citric Acid Cycle	Oxidative stress has been related to many neurodegenerative diseases; however, it also impacts many biomolecules. The activity of malate dehydrogenase, an enzyme involved in metabolism, was measured in the presence of oxidative stress.	AH 212	Dr. Alison Bates	Biology
9:00 AM	9:15 AM	Kaiden	Forsyth		The Physiological Effects of Black Spot Disease on Southeastern Minnesota Bluegill	Quantifies how black spot disease affects bluegill sunfish muscle performance, revealing the impacts of parasite load on movement, behavior and survival.	AH 312	Dr. Peter Pfaff, Dr. Benjamin Pauli	Biology
9:00 AM	9:15 AM	Madison	Wall		The Effect of TBX2 Expression on the Response of the SKBR3 Cell Line to Herceptin	SKBR3 cells were transfected with TBX2 DNA or a control and treated with Herceptin	AH 306	Dr. Matt Rowley	Biology
9:00 AM	9:15 AM	Ryan	Campbell		The effects of colchicine in cell viability in an in vitro model of osteosarcoma	Osteosarcoma cells were treated with varying doses of colchicine and cell viability was assessed using an MTS assay.	AH 310	Dr. Megan Girtman	Biology
9:00 AM	9:30 AM	Kacper	Kunicki		Chemical Properties and Wine Quality: A Regression Analysis	This presentation analyzed a regression model on white wines, focusing on factors affecting taste during fermentation and identifying what to embrace or avoid	AH 225	Dr. Michael Ratajczyk	Business and Communication
9:00 AM	9:10 AM	Lucas	Heindel		Hostile Take Overs	Hostile Take Over Information with some focus on the recent Warner Brothers Case	AH 208	Prof. Derek Jackson	Business and Communication
9:00 AM	9:15 AM	Melanie	LaDue		Elemental Analysis of Dog Food by MP-AES to Determine the Presence of Arsenic, Lead, and Mercury	MP-AES analysis measured heavy metals in dog foods, comparing concentrations to detection thresholds to assess contamination levels relative to reported guidelines.	AH 308	Dr. Nathan Lien	Chemistry
9:00 AM	9:20 AM	Zamzam	Mohamed		Introduction to Blender and 3D Modeling	Investigating Blender as a beginner and learning fundamental 3D modeling, texturing, lighting, and rendering skills.	AH 122	Dr. Donald Heier	Mathematics, Computer Science, and Physics
9:00 AM	9:15 AM	Ariel	Hernandez-Orea				AH 300	Dr. Daniel Bucknam	Psychology and Social Sciences
9:00 AM	9:25 AM	Andrew	Glanville		Ideology Distorts Humanity	This presentation examines the harmful effects of ideological thought on contemporary political discourse, especially as it misunderstands the nature of politics and the human person.	H 120	Dr. Patricia Calton	Theology and Philosophy

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Start Time	End Time	First name	Last Name	Group Presenters	Title	Description	Room	Advisor	Area
9:00 AM	10:30 AM			Amarr Adam, Jacqueline Avilez, Sophia Binder, Mallory Brown, Hope Clegg, JJ Garcia, Grace Hardel, Grace King, Caeli McMahon, Grace Olmstead, Lizzie Pike	School of Education Open House	Theory-to-practice presentations with photos and anecdotes from the program's graduating seniors. The group will break into smaller licensure-specific panels to answer questions about the School of Education, programs and majors, student teaching, job opportunities, and next steps for our graduates.	Saint Mary's 132/134	Prof. Susan Baloun and Dr. Tim Indahl	Education
9:10 AM	9:20 AM	Leah	Parker		Airline Industry	Airline Industry: Talking about Northwest Airlines - mergers & acquisitions, history, impact on MN, pioneering efforts, bankruptcy. Transition to Delta - bankruptcy, mergers & acquisitions, acquisition of NWA.	AH 208	Prof. Derek Jackson	Business and Communication
9:15 AM	9:30 AM	Anelise	Maccoux		Recreational Therapy	Recreational therapy uses structured, adaptive exercise and leisure activities to improve physical, cognitive, emotional, and social functioning, ultimately enhancing independence and quality of life across diverse populations.	AH 300	Dr. Daniel Bucknam	Psychology and Social Sciences
9:20 AM	9:30 AM	Madison	Kubalek		Common Fraud Implications	Despite internal controls and frameworks, preventable fraud continues to occur due to systematic failure in implementation, oversight, and adaptation to evolving risks.	AH 208	Prof. Derek Jackson	Business and Communication
9:20 AM	9:40 AM	Itunu	Okusanya		Comparing VM's and Containers for Security and Performance.	Demonstrating an enterprise virtualization platform and comparing security and performance for hosted virtual machines, Docker containers and Linux containers.	AH 122	Dr. Donald Heier	Mathematics, Computer Science, and Physics
9:20 AM	9:40 AM			Alexis Blackburn, Lauryn Skoruppa, Makiah Cook, Genna Loween	The Influence of Aromatherapies on Chemotherapy Induced Nausea and Vomiting in Pediatric Patients	Antiemetics are the primary treatment for nausea and vomiting caused by chemotherapy. Our project explores alternative options in pediatric patients and further education.	AH 200	Dr. Linda Sargent	Nursing
9:30 AM	10:00 AM			Lindsey Lettner, Zoe Fink, Garret Rotzien, Zach Kantor	The Sound of Suspicion: The Truth Behind ZHerreraPr's Songs	This project examines whether ZHerreraPr's music is authentic or AI-generated, analyzing social presence, engagement, collaborators, and ethical implications.	AH 225	Dr. Michael Ratajczyk	Business and Communication
9:30 AM	9:40 AM	Ryan	Pavelka		Fraud Prevention in the Accounting Industry	This presentation will include the prevention methods to stop fraudsters and how companies should strengthen their internal controls.	AH 208	Prof. Derek Jackson	Business and Communication
9:30 AM	9:45 AM	Dean	Kamann				AH 300	Dr. Daniel Bucknam	Psychology and Social Sciences
9:30 AM	9:55 AM	Steven	Adams		The Immaterial Mind	An exploration into the mind-body problem, supporting the claim that the mind is immaterial.	H 120	Dr. Patricia Calton	Theology and Philosophy
9:40 AM	9:55 AM	Aheli	Patel		The Effects of GLP-1 Receptor Agonist Withdrawal on Arterial Inflammation and Compliance	This research examines whether GLP-1 receptor agonist withdrawal increases arterial inflammation and reduces vascular compliance in healthy mice, revealing possible cardiovascular risks after treatment cessation.	AH 306	Dr. Philip Roper	Biology
9:40 AM	9:55 AM	Austeja	Dauneckis		INVESTIGATING THE EFFECTS OF TUMERIC ON INFLAMMATION	This study tests whether turmeric, with or without black pepper, reduces intestinal inflammation in mice by measuring colon length and analyzing systemic inflammatory markers.	AH 312	Dr. Megan Girtman	Biology
9:40 AM	9:55 AM	Eric	Stomberg		LW1497-Mediated Inhibition Alters MDH2 Expression in Pancreatic Cancer Cells	Previously, LW1497 was identified as a mitochondrial malate dehydrogenase inhibitor within lung cancer cells. This study investigated the effects of LW1497 on pancreatic cancer cells.	AH 310	Dr. Alison Bates	Biology
9:40 AM	9:55 AM	Gabriella	Acosta		The effects of environmental gradients on the distribution of mammal and parasite relationships	Looks at the effects various environmental gradients: mean annual temperature, mean annual precipitation, latitude, longitude, and number of hosts on the distribution of mammal and parasite relationships	AH 212	Dr. Benjamin Pauli	Biology

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9:40 AM	9:50 AM	Tessa	McMahon		The KPMG Tax Shelter Scandal: Legal Consequences and Ethical Implications	KPMG's tax shelter scandal showed how putting profit over ethics led to illegal actions, damaged trust, and showed the importance of honesty in accounting.	AH 208	Prof. Derek Jackson	Business and Communication
9:40 AM	9:55 AM	Lauren	Ashe		IDENTIFICATION OF BIOGENIC AMINES IN ALCOHOLIC SPIRITS USING GC-MS	Presentation on detecting biogenic amines in alcoholic spirits using GC-MS, covering sample preparation, analysis methods, and importance for quality control and consumer safety.	AH 308	Dr. Nathan Lien	Chemistry
9:40 AM	10:00 AM	Cole	Smith		A Secure Hardware-Authenticated Messaging System	Using a hardware token that performs challenge response authentication with a Raspberry Pi hosted server before granting access to an encrypted messaging platform.	AH 122	Dr. Donald Heier	Mathematics, Computer Science, and Physics
9:45 AM	10:05 AM			Brooke Schilling, Jennifer Rosas, Riley Schiernbeck	The Effectiveness of Human Milk in Comparison to Formula Feedings in the Reduction of Necrotizing Enterocolitis in Preterm Neonatal Intensive Care Unit Patients	Our research explores the impact of different feeding regimens for preterm NICU infants on reducing the risk of necrotizing enterocolitis, a severe, life-threatening gastrointestinal disease.	AH 200	Dr. Linda Sargent	Nursing
9:45 AM	10:00 AM	Madeline	McCartney		The Role of Self-Compassion and Vulnerability in Mitigating Shame	Based on pastoral care internship experience, this study examines shame and the role self-compassion and vulnerability play in fostering connection and reducing shame.	AH 300	Dr. Daniel Bucknam & Dr. Stephanie Thorson-Olesen	Psychology and Social Sciences
9:50 AM	10:00 AM	Kasey	Carlson		Private Equity and the Private Home Market	A discussion of the pros and cons of private home buying by private equity firms and the impact on the market.	AH 208	Prof. Derek Jackson	Business and Communication
10:00 AM	10:15 AM	Alison	Nguyen		The Effects of Homeopathic Treatments Curcumin, Vitamin D, and Green Tea on Immune Cell Populations and Inflammatory Regulation	This study investigates how curcumin, vitamin D, and green tea affect T and B cell populations in mice to evaluate their role in immune regulation.	AH 212	Dr. Megan Girtman	Biology
10:00 AM	10:15 AM	Bailee	Ritterbush		Liquid Nitrogen as an Environmentally Friendly Cloud Seeding Agent	The effectiveness of liquid nitrogen was tested as a potential cloud seeding agent. This was done because prominent cloud seeding agents have potential for environmental pollution.	AH 310	Dr. Scott Carnahan	Biology
10:00 AM	10:15 AM	Pravallika	Sunkara		Restoring Gut Microbiota in Post-Menopausal Female Mice with Estrogen Supplementation	Can estrogen restore gut health after menopause? This study explores how hormone therapy may influence microbiota balance in post-menopausal female mice.	AH 312	Dr. Philip Roper	Biology
10:00 AM	10:15 AM	Samantha	Munson		The Effect of TBX2 Expression on Proliferation of the BxPC-3 Pancreatic Cell Line	Bx-PC-3 cells were transfected with TBX2 or control DNA and proliferation was measured using an MTS assay.	AH 306	Dr. Matt Rowley	Biology
10:00 AM	10:30 AM			Alexander Amin, Nikolai Niemela	What BMW can tell us about the value of cars?	BMW can tell us about how value is associated to cars. We will show you what makes a high seller vs a low seller.	AH 225	Dr. Michael Ratajczyk	Business and Communication
10:00 AM	10:10 AM	Patrick	Schork		The "Big 4" Too Big to Fail?	The global accounting industry plays a vital role in maintaining trust in financial markets, with four dominant firms at its core: Deloitte, PwC, Ernst & Young, and KPMG. Known as the "Big Four," these firms audit most large publicly traded companies worldwide and act as key gatekeepers of financial transparency.	AH 208	Prof. Derek Jackson	Business and Communication
10:00 AM	10:15 AM	Alexis	Campshure		Synthesis of styryl lactones via a catalyzed hetero Diels-Alder approach	Styryl lactones were synthesized via hetero Diels-Alder reactions using a novel 1,4-dioxysubstituted-1,3-butadiene and catalyst complex, yielding promising results.	AH 308	Dr. Jaime Mueller	Chemistry
10:00 AM	10:20 AM	Colin	Tushie		An AI-Powered Security Log Analyzer	Using Security Onion as the log collection and monitoring platform, the project will extract firewall, IDS, and authentication logs for analysis in Python.	AH 122	Dr. Donald Heier	Mathematics, Computer Science, and Physics

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10:00 AM	10:15 AM			Ashley Ransom, Nathaniel Knowlton, Nyemah Dolo, Ajulu Ochalla, Paige Zaitsoff, Rebeca Pelluz Otero	The Relationship Between Attachment Style and Help-Seeking in College Students	This semester Dr. Ransom's collaborative research lab continued a project investigating the relationship between attachment style and help-seeking behavior in college students.	AH 300	Dr. Ashley Ransom	Psychology and Social Sciences
10:00 AM	10:25 AM	Westin	Gourneau		Ordered Charity: Aquinas and Kierkegaard on Preferential Love	Aquinas's hierarchical ordering of love, where grace perfects preferential attachments, offers a more philosophically coherent account of charity than Kierkegaard's renunciation of preferential love.	H 120	Dr. Patricia Calton	Theology and Philosophy
10:10 AM	10:20 AM	Kacper	Kunicki		The High-Stakes World of Hostile Takeovers	Examines how hostile takeovers influence shareholder value, financial reporting, and corporate governance, including benefits, risks, and strategic implications for companies.	AH 208	Prof. Derek Jackson	Business and Communication
10:10 AM	10:30 AM			Susan Mettler, Sara Miller, Yaqueline Tomas Coronado	In Critically Ill Patients in the ICU, What Nutritional Interventions are Most Effective at Mitigating Muscle Atrophy and Malnutrition?	Research explores how targeted nutrition interventions can prevent malnutrition, muscle atrophy, and related complications in ICU patients with prolonged critical illness.	AH 200	Dr. Linda Sargent	Nursing
10:20 AM	10:35 AM	Alexa	Kerchefski		ANTIPSYCHOTIC AGENT PIMOZIDE DECREASES CELL VIABILITY IN AN BRCA1 BREAST CANCER CELL LINE	FDA-approved antipsychotic; pimozone treating BRCA1 breast cancer cells in vitro. Cells were treated with varying concentrations, and viability assessed for therapeutic potential for breast cancer.	AH 310	Dr. Megan Girtman	Biology
10:20 AM	10:35 AM	Rachael	Kubichka		Expression of TBX2 does not Influence Invasion of the SKBR3 Breast Cancer Cell Line	A Boyden chamber assay was used to measure invasion of SKBR3 cells with or without TBX2 expression.	AH 312	Dr. Matt Rowley	Biology
10:20 AM	10:35 AM	Shaw	Styles		The Effect of Noise Produced by Wind Turbines on Bats and Birds	This study examines how wind turbine noise affects bat echolocation and bird communication, influencing behavior, habitat use, and species distribution in a controlled campus experiment.	AH 306	Dr. Benjamin Pauli	Biology
10:20 AM	10:35 AM	Xiaoyun	Liang		Measuring the Anxiogenic Effects of Acetylcholinesterase Inhibition	This study was carried out to determine whether galantamine treatment had a significant effect on stress responses due to its effects as an acetylcholinesterase inhibitor.	AH 212	Dr. Philip Roper	Biology
10:20 AM	10:35 AM	Brady	Quan		An Investigation into the GC-MS Characterization of 3-Methyl-2-Butene-1-Thiol in Lightstruck Beer	Investigated GC-MS method development for detecting 3-methyl-2-butene-1-thiol in beer, utilizing column optimization, manual injections, and chemical synthesis to address trace level detection challenges.	AH 308	Dr. Nathan Lien	Chemistry
10:30 AM	11:00 AM	Seth	Bestgen		Investigating Web Bot Behavior Through Automation	This project demonstrates how automated web bots navigate and interact with online platforms using browser automation.	AH 225	Dr. Michael Ratajczyk	Business and Communication
10:30 AM	11:00 AM	Allie	Egglar		Invisible Wounds in Visible Classrooms: Chronic Illness, Educational Barriers, and Accommodations	The purpose of this study is to explore the relationship between classroom policies in higher education and lived experiences of students with a chronic illness.	AH 300	Dr. Stephanie Thorson-Olesen	Psychology and Social Sciences
10:30 AM	11:00 AM	Gracie	Nell		Examining the long-term impact of post-partum depression on mothers	The purpose of this study is to understand the impact of postpartum depression on mothers and to raise awareness of the importance of intervention and treatment.	AH 300	Dr. Stephanie Thorson-Olesen	Psychology and Social Sciences
10:30 AM	11:00 AM	Lexi	Repinski		Understanding Serial Murder: Typologies, Developmental Pathways, and the Role of Childhood Abuse	The purpose of this study is to examine how sexual murder typologies and developmental factors like childhood abuse contribute to understanding the motivations and behavioral patterns of serial killers.	AH 300	Dr. Stephanie Thorson-Olesen	Psychology and Social Sciences
10:30 AM	11:00 AM	Lia	Richgels		Examining the Impact of Parental Mental Illness on Young Adults	The purpose of this study is to examine having one or more parents with mental illness and how it impacts the lives of those children who are now young adults.	AH 300	Dr. Stephanie Thorson-Olesen	Psychology and Social Sciences

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10:30 AM	11:00 AM	Maggie	Albers		Random Assignment vs. Self-Selection and How They Affect Team Cohesion	This study examines how group formation processes impact team cohesion in a novel, low-stakes activity.	AH 300	Dr. Molly O'Connor	Psychology and Social Sciences
10:30 AM	11:00 AM	Vincent	Wry		Exploring the Lived Experience of Young Adults with Social Anxiety	The purpose of this study is to explore the lived experience of young adult social anxiety.	AH 300	Dr. Stephanie Thorson-Olesen	Psychology and Social Sciences
10:30 AM	10:55 AM	Andrew	McNally		Restoring Dignity to the Workplace	Principle of Subsidiarity should be implemented into businesses to provide a more conducive environment wherein employees can discover the meaningfulness of their work.	H 120	Dr. Patricia Calton	Theology and Philosophy
10:35 AM	10:50 AM			Grace Feyereisen, Paige Darsow, Caleia Heier	Positive Effects of Physical Activity on Mental Health	Health Promotion Topic for a College Audience	AH 106	Prof. Jamie Pronschinske	Nursing
10:35 AM	10:50 AM			Rose Capelli, Casey Beck, Tallulah Johnson, Tia Bevins	Protein on a Budget	Health Promotion Topic for a College Audience	AH 108	Prof. Jamie Pronschinske	Nursing
10:40 AM	11:00 AM	Cole	Hafner		Intrusion Detection Software Implementation	Configuring an intrusion detection system with AI integration support for hacker detection and intrusion prevention.	AH 122	Dr. Donald Heier	Mathematics, Computer Science, and Physics
10:55 AM	11:10 AM			Hannah Danielsen, Madison Jensen, Mawata Kamara, Gracie Lepa	Should You Exercise Before Bed?	Health Promotion Topic for a College Audience	AH 106	Prof. Jamie Pronschinske	Nursing
10:55 AM	11:10 AM			Tatum Zylka, Madison Homuth, Isabella Keene, Miriam Morales Zarate	How Blue Light and Technology Affect Sleep	Health Promotion Topic for a College Audience	AH 108	Prof. Jamie Pronschinske	Nursing
11:00 AM	11:15 AM	Daniel	Sherman		The Effect of TBX2 Expression on Proliferation of the Bx-PC-3 Cell Line	Proliferation of Bx-PC-3 cells expressing TBX2 or control DNA was measured using an MTS assay.	AH 310	Dr. Matt Rowley	Biology
11:00 AM	11:15 AM	Emma	Gerdas		The Effects of Nanohydroxyapatite in comparison to Fluoride in remineralization abilities	The remineralization effects of fluoride and nanohydroxyapatite toothpaste were studied to determine whether their abilities to prevent dental caries and promote enamel remineralization differ.	AH 306	Dr. Scott Carnahan	Biology
11:00 AM	11:15 AM	Janelle	Schesel		The Effects of Repurposed Drug Thalidomide on Bone Cancer Cell Lines	Research investigates thalidomide as a repurposed drug for osteosarcoma by testing its impact on cancer cell viability across multiple concentrations.	AH 312	Dr. Megan Girtman	Biology
11:00 AM	11:30 AM			Connor Tulley, Tyson Allen, Patrick Schork	Sports Game Attendance Project	Analyze survey data to predict game attendance. Insights help target similar audiences with promotions and discounts, increasing attendance, improving marketing efficiency, and maximizing overall advertising and ticket revenue.	AH 225	Dr. Michael Ratajczyk	Business and Communication
11:00 AM	11:15 AM	Khai	Branham		Modulation of CACNA1A Gene Expression by Isoflurane Anesthesia	The exploration of isoflurane, an anesthetic, on calcium channel expression within mice brains.	AH 308	Dr. Alison Bates	Chemistry
11:00 AM	11:20 AM	Lucas	Heindel		Roguelite Investing Game	Investing game where players spend allotted amounts of money on different investments to hit progressively increasing goal numbers by taking advantage of randomly occurring events.	AH 122	Dr. Donald Heier	Mathematics, Computer Science, and Physics
11:00 AM	11:25 AM	Jacob	Fiala		Abortion and Aristotle: A Response to the Violinist Problem	I respond to Judith Jarvis Thomson's Violinist Problem through the lens of Aristotle's framework of distributive justice.	H 120	Dr. Patricia Calton	Theology and Philosophy

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11:00 AM	12:00 PM			Lars Bergo, Elliott Marr, Gavan Schulte, Cannon Manley, Abbie Stigler, Alexander Crusan	Benefits of a Professional Mentor	Learn how having a professional mentor can reap benefits both during college and beyond. Students in the Business and Communication Department will share in a panel discussion their experiences of participating in the first year of the Business Advisory Council's mentorship program. This is open to all students, though students majoring in any of the Business or Communication programs are strongly encouraged to attend.	AH200	Prof. Dean Beckman	Business and Communication
11:15 AM	11:30 AM			Gabe Le, Maria Riberio, McKenzie Lang, Mallory Ohnstad, Alexandra Gerber	How Important is Breakfast?	Health Promotion Topic for a College Audience	AH 108	Prof. Jamie Pronschinske	Nursing
11:15 AM	11:30 AM			Katrinda Whalen, Ellie Hoffarth, Madison Johnson, Stephanie Kumah	Benefits of Daily Physical Activity	Health Promotion Topic for a College Audience	AH 106	Prof. Jamie Pronschinske	Nursing
11:20 AM	11:35 AM	Alexis	Boeck		The Impact of the Human Urbanization on Cirsium pumilum var. hillii Distribution	Plants provide benefits to humans. This study explores how urbanization affects biodiversity, focusing on Cirsium pumilum var. hillii and the habitats where it grows.	AH 310	Dr. Benjamin Pauli	Biology
11:20 AM	11:35 AM	Analeese	Weckwerth		Synthesis of an α -Bromo Goniotalamin Derivative for Biological Evaluation	Goniotalamin is a natural product. Halogenated derivatives showed cytotoxicity, prompting synthesis of a halogenated styryl lactone via Grignard addition, esterification/elimination, and ring-closing metathesis.	AH 308	Dr. Jaime Mueller	Biology
11:20 AM	11:35 AM	Annika	Parry		2,2'-Dipyridyl Disulfide Synthesis from 2-Mercaptopyridine and Methoxycarbonyl Sulfenyl Chloride	This research focused on identifying effective purification techniques following the synthesis of 2,2'-Dipyridyl Disulfide.	AH 306	Dr. Heidi Dahlmann	Biology
11:20 AM	11:35 AM	Erica	Howard		Long-term study of VOCs in coniferous trees by HS-GC-MS.	This study uses HS-GC-MS analysis to evaluate if monoterpene levels change across the seasons in six different Pinaceae species.	AH 312	Dr. Nathan Lien	Biology
11:20 AM	11:40 AM	Brandt	Konik		Security With Cryptography Using SSL	Using SSL to demonstrate certificate creation, inspecting/validating a certification, key generation, and working with the certificate authority.	AH 122	Dr. Donald Heier	Mathematics, Computer Science, and Physics
11:30 AM	11:55 AM	Michael	Rahm		Subsidiarity as Virtue: The Necessary Disposition for Ethical Work	Subsidiarity is the proper disposition towards ordering ethical labor. Micromanagement deprives the worker of his capacity to engage his reason in his work.	H 120	Dr. Patricia Calton	Theology and Philosophy
11:35 AM	11:50 AM			Johnathan Beyer, Gabriella Stone, Max Rauen, Amaza Burggraaff	Driving Under the Influence	Health Promotion Topic for a College Audience	AH 108	Prof. Jamie Pronschinske	Nursing
11:35 AM	11:50 AM			Lydia Jones, Emmerson Horstman, Gunner Hove, Kylee Paul	Caffeine Curfew: When to Put the Caffeine Down	Health Promotion Topic for a College Audience	AH 106	Prof. Jamie Pronschinske	Nursing
11:40 AM	11:55 AM	McKenzie	Munson		Synthesis of Cytotoxic Styryl Lactones via a Grignard-Metathesis Strategy	This study synthesizes a methoxy- and bromine-substituted goniotalamin derivative via Grignard-metathesis to enhance anticancer activity, evaluated against 4T1 breast cancer cells.	AH 308	Dr. Jaime Mueller	Biology
11:40 AM	11:55 AM	Veronica	Risden		Identification of Biogenic Amines in Pet Foods Using GC-MS	This study used GC-MS to examine whether lower cost pet foods contain higher levels of biogenic amines, highlighting quality concerns and risks to animal health.	AH 306	Dr. Nathan Lien	Biology
11:55 AM	12:10 PM			Brianna Hanneken, Kyra Erickson, Alison Salinas, Shalom Ametor	Stress and Burnout Among College Students	Health Promotion Topic for a College Audience	AH 108	Prof. Jamie Pronschinske	Nursing

2026 Schedule Sorted by Time

Start Time	End Time	First name	Last Name	Group Presenters	Title	Description	Room	Advisor	Area
12:20 PM	12:40 PM	Connor	Abric		BudgetBuddy Web Application	A Web application designed to help college students create a realistic monthly budget based on their actual spending habits.	AH 122	Dr. Donald Heier	Mathematics, Computer Science, and Physics
12:40 PM	1:00 PM	Seth	Bestgen		Retro Gaming Platform	A unified retro gaming platform focused on simplifying controller configuration and game launching for emulator-based systems.	AH 122	Dr. Donald Heier	Mathematics, Computer Science, and Physics
1:00 PM	1:20 PM	Aldo	Campagne		Soccer Player Ranking Using SQL and Data Analysis	A SQL based analysis that ranks attacking soccer players from the 2023-24 season using per-90 stats from a dataset.	AH 122	Dr. Donald Heier	Mathematics, Computer Science, and Physics
1:20 PM	1:40 PM	Tanner	Donnay		Fire Emblem Inspired Tactical RPG with Unity	A 2D video game that resembles Fire Emblem using a grid-based combat system, against an AI enemy in the Unity game engine.	AH 122	Dr. Donald Heier	Mathematics, Computer Science, and Physics