

Start Time	🕒 End Time	First name	Last Name	Group Presenters	Title	Description	Room	Advisor	Area
8:20 AM	8:35 AM	Claire	Chmielewski		Determining the Role of Nuclear-Related Genes in Ovarian Follicles of Women with PCOS	This study focuses on determining the functional role of nuclear-related genes, specifically increased androgen receptors in the granulosa cells, on ovarian tissue of patients with PCOS.	AH 308	Dr. Claudia Preston	Biology
8:20 AM	8:35 AM	Alison	French		Expression of murine CYP450 Isotype Cyp4a29 and Heart Rate when Exposed in Utero to Atrazine	This research looks into effects atrazine exposure in utero has on heart rate and Cytochrome P450 expression in the heart of mice.	AH 310	Dr. Debra Martin	Biology
8:20 AM	8:35 AM	Kailee	Magaard		Mutated BRAF increases expression of PDL1 in 293T cells	Transfection of BRAF V600E in 293 T cells increases the cell surface expression of the immune regulatory molecule PDL1.	AH 212	Dr. Megan Girtman	Biology
8:20 AM	8:35 AM	Margaret	Osterbauer		Expression of TBX2 does not affect proliferation of the Zr75.1 Breast Cancer Cell Line	The Zr75.1 cell line was transfected with TBX2 DNA and cell proliferation was compared to non transfected cells.	AH 312	Dr. Matthew Rowley	Biology
8:20 AM	8:35 AM	Sarah	Watters		The Effects of Exercise, Diet, and Income on Type 2 Diabetes Mellitus	Exploring the effects of physical inactivity, fruit and vegetable consumption, and middle, low, and median income on the rates of T2DM in Minnesota counties.	AH 306	Dr. Benjamin Pauli	Biology
8:30 AM	8:50 AM			Sydney Jackman, Cecilia Flores, Madison Mora	Wound Healing with Hyperbaric Chamber Treatment	This poster presentation will be about how hyperbaric chamber treatment can help improve wound healing for many patients.	AH 200	Dr. Linda Sargent	Nursing
8:35 AM	8:55 AM	John	Assaf		Thomistic Participation and Metaethics	I argue that a Thomistic view of metaphysical participation is a more consistent view of moral grounding than Divine Command Theory or Divine Independence Theory.	H 120	Dr. Patricia Calton	Philosophy
8:40 AM	8:55 AM	Isabella	Griffin		Maternal care of mice pups is not affected by atrazine exposure in utero	To determine if atrazine exposure affects how mothers (dames) care for their offspring, dames were observed for the first week postpartum.	AH 312	Dr. Debra Martin	Biology
8:40 AM	8:55 AM	Alyssa	Jones		Attempted Synthesis of Catalysts and Substrates for the Carbonyl-Olefin Metathesis Reaction	The synthesis of a novel imidodiphosphate catalyst and a mechanistic probe substrate were attempted for use in the carbonyl-olefin metathesis (COM) reaction.	AH 306	Dr. Heidi Dahlmann	Chemistry
8:40 AM	8:55 AM	Benedita	Mambo		Transcriptional Profiling of Cardiovascular Associated Genes in Women with PCOS	The goal of this study is to examine the transcriptional profiles of cardiovascular-associated genes within women who have PCOS, to try and explore the potential links between gene expression and cardiovascular disease.	AH 310	Dr. Claudia Preston	Biology
8:40 AM	8:55 AM	Abigail	Meyer		Temporal Patterns of Nitrification Rates in Central Minnesota Prairie Streams	This project assesses the temporal water quality patterns of two streams in central Minnesota.	AH 308	Dr. Peter Pfaff	Biology
8:40 AM	8:55 AM	Sidney	Polzin		The effect of aging on FoxO1, Pax3, and TNNT3 gene expression in mouse skeletal muscle tissue	Muscle tissue was extracted from mice at 4 different ages, RNA was isolated, and RT-PCR was performed to measure expression of FoxO1, Pax3, and TNNT3.	AH 212	Dr. Matthew Rowley	Biology
8:50 AM	9:10 AM			Henry Gathje, Kylie Davidson, Madeline Wilsey	Can the COVID-19 Vaccine Increase the Risk of Thrombosis?	This presentation investigates the thrombotic effects of COVID-19 vaccines, focusing on the Oxford/AstraZeneca vaccine, its correlation with rare thrombotic events, and patient outcomes.	AH 200	Dr. Linda Sargent	Nursing
9:00 AM	9:20 AM	Gianni	DiTola		Revisiting Humanist Ethics with St. Augustine	The concept of memory in St. Augustine offers a unique insight into the need for metaphysics in morality, which combats many modern atheistic paradigms.	H 120	Dr. Patricia Calton	Philosophy

9:00 AM	9:15 AM	Zachary	Illg		Heavy Metal Analysis of Soil and Water Near Bollers Lake	This presentation will focus on an analysis of soil and water samples near Bollers Lake looking specifically at possible heavy metal contaminants.	AH 306	Dr. Scott Carnahan	Biology
9:00 AM	9:15 AM	Sarah	Kraus		The Impact of Education on Re-entry Into Society	A review of how incarceration and education impact successful re-entry to society, and how motivation, efficacy, and barriers partially explain that impact	AH 300	Dr. Dan Bucknam	Psychology
9:00 AM	9:15 AM	Jenna	Kurkowski		Functional Role of Caffeine in the Central Nervous System of Mice: A Psychoactive Enhancer or Suppressor?	This study examines caffeine's effects on the CNS by measuring locomotor activity in mice using an open-field maze, focusing on dosage-dependent behavioral changes.	AH 312	Dr. Claudia Preston	Biology
9:00 AM	9:15 AM	Valeria	Ramos Kuzuhara		Breeding Site Impact on Mosquito Reproduction	This experiment tested the significance of shade level and type of substrate for Aedes and Culex mosquito reproduction.	AH 310	Dr. Benjamin Pauli	Biology
9:00 AM	9:20 AM	Granton	Schneider		Optimizing AutoCAD and Blender Workstations to Streamline Classroom Workflows	Configuring AutoCAD and Blender workstations with cloud integration and support of multiple users, for seamless student operations and project management.	AH 122	Dr. Donald Heier	Computer Science
9:00 AM	9:30 AM	Jakub	Stabryn		The Price of Preference: How Features Define Car Pricing in Australia	Explore how data predicts personal vehicle prices in Australia's 2023 market and unveil key features, consumer trends, and pricing insights automakers can use for competitive advantage.	AH 225	Dr. Michael Ratajczyk	Business
9:00 AM	9:15 AM	Nathaniel	Thovson		Neural expression of the glucocorticoid receptor RNA in <i>Mus musculus</i> exposed to atrazine	The purpose of this research is to see if different concentrations of atrazine influence the glucocorticoid receptor RNA in the brains of <i>Mus musculus</i> .	AH 212	Dr. Debra Martin	Biology
9:00 AM	9:10 AM	Allison	Urlaub		Bankruptcies	Bankruptcies: I will be addressing background information on bankruptcies, their history overtime, various different types, pros / cons, and examples of big name companies who have undergone bankruptcies and the effect they have had.	AH 208	Prof. Derek Jackson	Business
9:00 AM	9:15 AM	Brooke	Woodmansey		Dasatinib's effect on cell viability in 293T cells transfected with BRAFV600E compared to non-transfected cells	293T cells transfected with BRAFV600E were treated with the FDA repurposed drug dasatinib and overall cell viability was assessed.	AH 308	Dr. Megan Girtman	Biology
9:00 AM	10:30 AM			Sean Burke, Cori Claeys, Clarissa Culver, Izzabella Goettelman, Savana Johnson, Morgan Meyer, Trinity Schmidtkecht, Alyssa Sebo, Michelle Smith, Amelia Spilde	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.	SM 132/134	Prof. Susan Baloun and Dr. Tim Indahl	Education
9:10 AM	9:20 AM	Melanie	Wardwell		Should Accountants Fear AI: The Impact of AI on the Accounting Profession	AI continues to become more relevant, raising concerns about job loss for accountants. However, AI also offers many benefits and opportunities in the accounting profession.	AH 208	Prof. Derek Jackson	Business
9:10 AM	9:30 AM			Gabriella Ausman, Grace Hubbel, Guadalupe Avalos	ICU Delirium and the Impact of Pharmacological and Nonpharmacological Treatments	A meta-analysis describing both the pros and cons of non-pharmacological and pharmacological treatment methods as well as best practices methods for treatment and prevention.	AH 200	Dr. Linda Sargent	Nursing
9:15 AM	9:30 AM	Huwa	Mohamed		Exploring the Interplay Between Social Anxiety, Self-Efficacy, and Exercise Engagement in Weight Room Environment.	This thesis explores the interplay of social anxiety, self-efficacy, and motivation in gym settings, aiming to foster inclusive environments that encourage physical activity.	AH 300	Dr. Molly O'Connor	Psychology

9:20 AM	9:40 AM	Shane	Cleary		Integrating Python in a GIS Environment	An overview and demonstration of how python scripting can be used for data processing and visualization within ArcGIS Pro.	AH 122	Dr. Donald Heier	Computer Science
9:20 AM	9:30 AM	Garrett	Rotzien		The Accounting Implications of Cryptocurrency	Exploring challenges, regulations, and future implications of Cryptocurrency in the accounting world.	AH 208	Prof. Derek Jackson	Business
9:25 AM	9:45 AM	Paul	Guertin		Putnam, Gödel, and The Transcendental Ego	Hilary Putnam and Kurt Gödel are two contemporaries who utilized model theory in their metaphysics. Originating from different traditions, their theories share many undiscussed similarities.	H 120	Dr. Patricia Calton	Philosophy
9:30 AM	9:45 AM	Andrew	Olsen		Effects of guided-imagery simulating human-dog interactions on stress in college students	Using electrocardiogram and electrodermal activity to measure any physiological differences of participants throughout different guided-imagery sessions, with psychological stress scales.	AH 300	Dr. Molly O'Connor and Dr. Claudia Preston	Psychology
9:30 AM	10:00 AM			Annabella Becker, Ashley Renwick, Grace Schaffer, Bailey Johnson	Using Various Analytical Techniques to Identify if Customers Are Fit for Retailer's Loyalty Program	Our business analytical group examined a retail store's data for the past several months. We shaped the data to depict if potential customers would be fit for the retailer's loyalty program. In our presentation, we will walk you through our process of configuring the data along with the results that were found.	AH 225	Dr. Michael Ratajczyk	Business
9:30 AM	9:50 AM			Morgan Brown, Nathan Solis	Oral Sucrose as Pain Management for Neonatal Patients	The findings of this study support that the administration of oral sucrose can improve pain levels in neonates undergoing procedures throughout their hospital stay.	AH 200	Dr. Linda Sargent	Nursing
9:30 AM	9:40 AM	Emma	Miller		Fraud as an Unavoidable Consequence of Weak Oversight	Weak oversight allows fraud schemes to persist despite regulations. Financial fraud, including asset misappropriation and financial statement fraud, thrives due to poor internal controls, financial pressures, and regulatory loopholes.	AH 208	Prof. Derek Jackson	Business
9:40 AM	9:55 AM	Christopher	Bulwa		Murine SOX2 mRNA dental expression in response to atrazine exposure in utero	Mice can regenerate their teeth. SOX2 is a gene that has been found in dental stem cells. This study looked to see if atrazine affects its expression.	AH 308	Dr. Debra Martin	Biology
9:40 AM	9:55 AM	Megan	Frosch		Investigating the Molecular linkage between Menopause and Mental Health	This study seeks to identify key genes that differ between premenopausal and postmenopausal women. Examining their physiological mechanisms to aid the understanding of menopausal mental health.	AH 310	Dr. Claudia Preston	Biology
9:40 AM	9:55 AM	Elizabeth	Khalil		The effects of Hericium erinaceus on TNFalpha production in CD1 mouse splenocytes	Splenocytes were collected from mice treated with Hericium erinaceus or Lion's Mane Mushroom and assessed for TNFalpha production.	AH 312	Dr. Megan Girtman	Biology
9:40 AM	9:55 AM	Samuel	King		Optimal Trapping Tree Characteristics for Southern Flying Squirrels in Southeastern Minnesota	Recorded height, canopy cover, diameter, status, and species of trees Southern Flying Squirrels were and were not caught on to find the optimal trapping characteristics.	AH 212	Dr. Benjamin Pauli	Biology
9:40 AM	10:00 AM	Jon	Lindanger		E-Commerce Website: Django vs. Angular	I developed an e-commerce website using Django, and I will compare its strengths and weaknesses to Angular	AH 122	Dr. Donald Heier	Computer Science
9:40 AM	9:55 AM	Rachel	Szepieniec		Identification of Limitations with Organocatalyzed Carbonyl-Olefin Metathesis	The synthesis of a test substrate for determining the mechanism of organocatalyzed carbonyl-olefin metathesis was attempted. Key limitations of the synthesis route were identified.	AH 306	Dr. Heidi Dahlmann	Biology

9:40 AM	9:50 AM	Zoe	Fink		Mergers and Acquisitions in the Airline Industry	This presentation looks into the impact of mergers and acquisitions in the airline industry along with the history and effect on consumers and the state.	AH 208	Prof. Derek Jackson	Business
9:50 AM	10:10 AM	Nicholas	Huza		Arrival, Aliens, Wittgenstein	This presentation is a thought experiment investigating whether it would be possible, in principle, to communicate with aliens according to the philosophy of Ludwig Wittgenstein.	H 120	Dr. Patricia Calton	Philosophy
9:50 AM	10:00 AM	Connor	Beutin		Impact of Data Analytics on Decision Making in Sports	Understanding how coaches and managers of sports teams use data analytics.	AH 208	Prof. Derek Jackson	Business
10:00 AM	10:15 AM	Taylor	Budde		The Effect of TBX2 on the Response of the ZR-75-1 Breast Cancer Cell Line to Ibrance and Doxorubicin	ZR-75-1 cells with and without TBX2 were treated with Ibrance and Doxorubicin to determine if cell survival differs when TBX2 is present in different drug conditions.	AH 212	Dr. Matthew Rowley	Biology
10:00 AM	10:20 AM	Paul	Guertin		A Brief Primer in Model Theory	Model Theory is a relatively new field of mathematics. We will explore some of its fundamental elements and results through its application to group theory.	AH 210	Dr. Kevin Dennis	Mathematics
10:00 AM	10:15 AM	Cade	Kloss		Effect of Auditory Stimulation on the Behavior of Mice	The study of the impacts of auditory stimuli on the behavior of mice with the goal of improving mammalian care in captivity.	AH 312	Dr. Benjamin Pauli	Biology
10:00 AM	10:15 AM	Dakota	Leonard		An Efficacy and Safety Comparison of All-Natural Versus Conventional Chemical Cleaning Products	An efficacy and safety comparison of all-natural versus conventional cleaning products using GC-MS and bacterial analysis.	AH 306	Dr. Scott Carnahan	Biology
10:00 AM	10:15 AM	Taylor	Repinski		The antiproliferative effects of rebastinib on a cell model of chronic myeloid leukemia	This research project investigated the antiproliferative effects of rebastinib treatment on an in vitro model of chronic myeloid leukemia.	AH 310	Dr. Megan Girtman	Biology
10:00 AM	10:20 AM	Matthew	Sankner		Human Spatial Amplification in a BMW Factory Environment	Covers AI techniques used to supercharge productivity in the BMW factory and lessons learned from BMW internship/projects. Includes AI, ML, Computer Vision, Web, etc.	AH 122	Dr. Donald Heier	Computer Science
10:00 AM	10:15 AM	Shania	Vanlewin		Exploring the Role of Endometrial Dysfunction in Infertility Among Patients with Polycystic Ovarian Syndrome (PCOS)	This study investigates molecular targets affecting endometrial function in obese PCOS patients using bioinformatics, identifying down regulated proteins EFTUD2 and MMP9.	AH 308	Dr. Claudia Preston	Biology
10:00 AM	10:15 AM			Anika Chavez, Zoeie Meister-Smith, Hayle Dayton, Lindsey Rossow	Does consistent low-intensity activity have health benefits?	This presentation is part of a N395 Health Promotion class project investigating a physical activity health promotion topic pertinent to a college campus setting. We wondered if step-trackers are helpful, like a fitbit? Are they accurate? What is the cost associated with these trackers? How could someone implement this physical activity health promotion change at Saint Mary's? Could we identify and map walking routes indoor and outdoor on campus?	AH 200	Sister Agnes Mary Graves, RSM	Nursing
10:00 AM	10:15 AM			Taryn Dornseif, Sarah Watters, Sophia Smith, Peyton Berg, Samya Brown, Molly Richgels, Andrew Olsen, Isabella Stein	The Impact of Coaching Style, Social Support, Passion, and Stress on Athlete Burnout	This study examined the impact of coaching style, social support, passion level, and stress on former and current student athlete burnout.	AH 300	Dr. Molly O'Connor	Psychology
10:00 AM	10:10 AM	Lindsey	Lettner		The value of the Sarbanes-Oxley Act	This paper explains the Sarbanes-Oxley Act in depth going through the cost and benefits it provides the economy	AH 208	Prof. Derek Jackson	Business

10:10 AM	10:20 AM	Joel	Tranel		Finance in Agriculture	Exploring agricultural finance, government subsidies, technological innovations, and climate change impacts on farm growth, risk management, and financial stability	AH 208	Prof. Derek Jackson	Business
10:15 AM	10:35 AM	Timothy	Kujawa		Can a Good, Omnipotent God exist if there is Evil?	Humans always choose the apprehended good from their fallible thinking process, sometimes resulting in evil, allowing for the logical belief in a good, omnipotent God.	H 120	Dr. Patricia Calton	Philosophy
10:15 AM	10:30 AM	Grace	Schreiber		Effectiveness of Group Therapy for Children with Trauma	A review of the effectiveness of group therapy as an intervention to reduce negative mood and behavioral symptoms in children with trauma	AH 300	Dr. Dan Bucknam	Psychology
10:15 AM	10:30 AM			Michelle Felix, Marley Smith, Michael Johnson, Katelyn Piechowski	Benadryl, what's the big deal?	This presentation is part of a N395 Health Promotion class project investigating a physical activity health promotion topic pertinent to a college campus setting.	AH 200	Sister Agnes Mary Graves, RSM	Nursing
10:20 AM	10:40 AM	Sophia	Binder		Standardized Tests Impact on the Classroom	The affect of standardized tests such as ACT, SAT, AP, and MAP impact the classroom. We will discuss how to interpret scores from standardized tests. Results from a survey from Winona schools, to see how teachers feel standardized tests have affected their classes.	AH 210	Dr. Kevin Dennis	Mathematics
10:20 AM	10:40 AM	Brandon	Fagiolo		Homemade Subway Surfers	Recreated Subway Surfers in Unity with C#, Cinemachine, and Animator, using custom 3D assets and textures from Blender and Photoshop.	AH 122	Dr. Donald Heier	Computer Science
10:20 AM	10:35 AM	Brady	Johnson		Identification of Molecular Pathways to Improve CAR-T Cell Therapy Effectiveness on Metastatic Ovarian Cancer	Looking at ovarian cancer gene expression after CAR-T Cell Therapy and future ways to improve and target treatments for ovarian cancer.	AH 312	Dr. Claudia Preston	Biology
10:20 AM	10:35 AM	Conner	Perry		Plant Chemical Composition as a Function of Seedling Growth Conditions	This research examines the impact of wind exposure on volatile organic compound production in Brassica plants, using gas chromatography-mass spectrometry to analyze chemical changes in response.	AH 306	Dr. Brett Bodsgard	Biology
10:20 AM	10:35 AM	Kendra	Schneider		Investigating the effects of curcumin on cell viability in 4T1 cells	Investigating the effects of curcumin, an ingredient found in turmeric, on an in vitro model of triple negative breast cancer.	AH 212	Dr. Megan Girtman	Biology
10:20 AM	10:35 AM	Savannah	Swanson		Vocalizations of Glaucomys volans in Southeastern Minnesota	Ultrasonic calls of southern flying squirrels were recorded in the wild to expand upon the current understanding of vocal repertoires of the species in Minnesota.	AH 310	Dr. Benjamin Pauli	Biology
10:20 AM	10:35 AM	Melanie	Winzenburg		TBX2 does not promote bypass of senescence in primary mouse mammary epithelial cells	Mammary tissue was isolated from mice, minced, and grown in culture. TBX2 was added to half the cells and cell doublings were measured over 5 weeks.	AH 308	Dr. Matthew Rowley	Biology
10:20 AM	10:30 AM	Keegan	Norton		Private Equity Uncovered: Evaluating Its Impact on Business and Society	This paper explores the impact of private equity on business growth, innovation, job displacement, wealth inequality, and its broader social and economic consequences.	AH 208	Prof. Derek Jackson	Business
10:30 AM	11:00 AM			Brooklyn McKinney, Alexander Garcia	Red Wine Consumer Analysis	We highlight how the quality of red wine is a critical factor in influencing consumer purchasing decisions.	AH 225	Dr. Michael Ratajczyk	Business
10:30 AM	10:45 AM			Rhiannon Carroll, Bailey Peterick, Kaydence Plank, Grace Ehrmantraut	How can participation in physical activity be increased through group exercise options?	This presentation is part of a N395 Health Promotion class project investigating a physical activity health promotion topic pertinent to a college campus setting.	AH 200	Sister Agnes Mary Graves, RSM	Nursing

10:30 AM	10:45 AM			Ashley Ransom, Asiya Alasow, Suzette Alvarez, Xiaoyun Liang, Anelise Maccoux, Rebeca Pelluz Otero	Is it okay for boys to talk about feelings? Children's developing beliefs about emotion talk	Adolescent boys believe that it is unacceptable to talk about their feelings. We examine how this belief develops and differences between boys and girls.	AH 300	Dr. Ashley Ransom	Psychology
10:30 AM	10:40 AM	Kylie	Ramsey		Financial Crisis - Advanced Accounting	What is a financial crisis and a brief over view of the '08 Crisis comparing it to previous financial crisis in history.	AH 208	Prof. Derek Jackson	Business
10:40 AM	11:00 AM	Julia	Langworthy		The Role of Teacher Feedback in Reducing Math Anxiety in Students	Math anxiety is a prevalent issue that affects students across all educational levels, often creating barriers to learning and hindering academic performance in mathematics. This project explores how teacher feedback can play a pivotal role in alleviating math anxiety.	AH 210	Dr. Kevin Dennis	Mathematics
10:40 AM	11:10 AM	John Paul	Philips		Being-Toward-Gift: Phenomenological Disruption and the Ontological Disclosure of Relational Personhood	This presentation explores how Edith Stein's phenomenology of empathy and John Paul II's relational anthropology rethink human dignity—not as an individual trait, but as something realized in self-gift and authentic relationships.	H 120	Dr. Patricia Calton	Philosophy
10:45 AM	11:00 AM			Camryn Elzen, Macava Smith, Isabelle Palo, Madison Wittman	Why do I fall asleep in class but can't fall asleep at night?	This presentation is part of a N395 Health Promotion class project investigating a physical health promotion topic pertinent to a college campus setting.	AH 200	Sister Agnes Mary Graves, RSM	Nursing
11:00 AM	11:15 AM	Joseph	Dunn		Knockout of BRCA2 enhanced the sensitivity of the ZR-75-1 cell line to cisplatin	BRCA2 siRNA was used to inhibit BRCA2 expression in the ZR-75-1 cell line and the response to cisplatin treatment was measured using an MTS assay.	AH 306	Dr. Matthew Rowley	Biology
11:00 AM	11:30 AM	Jaedyn	Fellenz		The Effects of a Music-Based Intervention of Schizophrenia Symptoms	A multi-literature review study done on creative music-based intervention and its effects on schizophrenia symptoms.	AH 300	Dr. Stephanie Thorson-Olesen	Psychology
11:00 AM	11:30 AM	Madison	Kindler		Examining Hobby Interests by Gender	An examination of gender-based differences in hobby interests and recreational needs among adults using a quantitative needs assessment.	AH 300	Dr. Stephanie Thorson-Olesen	Psychology
11:00 AM	11:15 AM	Ella	Lahart		Using Geomedicine to Understand Pancreatic Cancer Risk Factors	The relationship between lifestyle, healthcare, and environmental factors with pancreatic cancer rates across U.S. counties, highlighting significance to physical inactivity, fast-food restaurants, and physician availability.	AH 212	Dr. Benjamin Pauli	Biology
11:00 AM	11:30 AM	Valeria	Ramos Kuzuhara		Barriers to Diagnosis and Treatment of Major Depressive Disorder	This proposed study identifies barriers to the diagnosis and treatment of Major Depressive Disorder and includes proposed solutions to mitigate these issues.	AH 300	Dr. Stephanie Thorson-Olesen	Psychology
11:00 AM	11:30 AM	Lia	Richgels		Exploring Undiagnosed Mental Illness in Parents	I aimed to explore the lived reality of young adults and children who grew up with parents that had undiagnosed mental illnesses.	AH 300	Dr. Stephanie Thorson-Olesen	Psychology
11:00 AM	11:30 AM	Grace	Swanson		Examining Domestic Violence during the National Football League (NFL) Season	This will be a poster providing a literature review of domestic violence during the NFL season	AH 300	Dr. Stephanie Thorson-Olesen	Psychology
11:00 AM	11:15 AM	Paige	Thurner		The antiproliferative effects of the FDA repurposed drug pimozone on 143B cells	Treatment with the FDA repurposed drug pimozone on 143B cells, an in vitro model of osteosarcoma, led to decreased cell viability as measured by MTS assay.	AH 308	Dr. Megan Girtman	Biology



11:00 AM	11:15 AM	Allie	Verkuilen		Metformin Effects on the Number of Osteoclasts Observed in Type Two Diabetic Mice	This research is centered around how metformin affects the osteoclast levels observed in female CD1 type two diabetic mice.	AH 312	Dr. Philip Roper	Biology
11:00 AM	11:20 AM	Patrick	Waddell		Fourier Analysis and its Relation to Consonance and Dissonance in Music	We will consider the relation of Fourier analysis to music. We present the Fourier series along with the proof for the Fourier coefficients. The Fourier transform is explained with an example of its use. Musical consonance and dissonance are examined mathematically and their relation to Fourier series and Fourier transforms.	AH 210	Dr. Kevin Dennis	Mathematics
11:00 AM	11:15 AM	Alison	Wu		Investigating the Functional Role of Nuclear Envelope Genes in Follicular Development in Adult Patients with PCOS	A Bioinformatics approach to investigate if nuclear envelope genes have altered expression in adult women with PCOS	AH 310	Dr. Claudia Preston	Biology
11:00 AM	11:30 AM			Allison Ciero, Warner Young, Daytona Dahler	Predictive Modeling of Restaurant Customer Satisfaction	An analysis of customer data from various restaurants such as wait time, service rating, food rating, and ambiance rating, to determine whether customers are satisfied or dissatisfied with the service they receive. The model provides insight into which variables significantly impact customer satisfaction for restaurants to optimize.	AH 225	Dr. Michael Ratajczyk	Business
11:00 AM	11:15 AM			Chloe Lee, Ava Swenson, Gabriella Longstreet, Alexis Tuiyott	How much caffeine is too much?	This presentation is part of a N395 Health Promotion class project investigating a physical health promotion topic pertinent to a college campus setting.	AH 200	Sister Agnes Mary Graves, RSM	Nursing
11:00 AM	11:30 AM			Noah Lahner, Madeline McCartney	The roles of the Big 5 personality traits and a positive psychology intervention on stress and well-being	Using a mixed method design, examined the impacts of the Big 5 personality traits and a positive psychology intervention on stress and well-being	AH 300	Dr. Dan Bucknam	Psychology
11:00 AM	11:30 AM			Alexa Meyer, Ariel Hernandez-Orea, Rachel Szeplieniec, Kailee Magaard, Alanna Wilson	The Impacts of Spirituality and Eco-Feelings on Pro-Environmental Behavior: A Review	This poster reviews the roles of spirituality (stewardship and dominion beliefs) and eco-feelings (eco-anxiety, eco-depression, and eco-anger) on pro-environmental behavior.	AH 300	Dr. Dan Bucknam	Psychology
11:15 AM	11:35 AM	Ryan	Pierce		Antony Flew vs. Basil Mitchell: Invisible Gardeners, Encounters with Strangers, and Conversion	After the conversion of the 20th century staunch atheist, Antony Flew, I will argue that he still does not respond to Basil Mitchell's counter in the symposium "Theology and Falsification". This is a broad look at the necessary relationship between faith and reason.	H 120	Dr. Patricia Calton	Philosophy
11:15 AM	11:30 AM			Caitlin Bakken, McKenzie Meland, Hannah Bradley, Sophia Paduano	What snacks are healthy and high in protein?	This presentation is part of a N395 Health Promotion class project investigating a nutrition health promotion topic pertinent to a college campus setting.	AH 200	Sister Agnes Mary Graves, RSM	Nursing
11:20 AM	11:35 AM	Philip	Apel		Expression of TBX2 increases migration and invasion rates of the ZR-75-1 cell line	ZR-75-1 cells were transfected with TBX2. Cell migration was measured with a scratch assay and invasion was measured using a Boyden Chamber assay.	AH 310	Dr. Matthew Rowley	Biology
11:20 AM	11:35 AM	Katherine	Hafner		Repurposing Ivermectin to Limit 4T1 Breast Cancer Cell Viability	This research project identified the anticancer efficacy of ivermectin in an in vitro model of breast cancer.	AH 212	Dr. Megan Girtman	Biology
11:20 AM	11:35 AM	Natalie	Picard		Genetic Assessment of Endometrial Nucleoporins in Patients with Unexplained Infertility versus Controls	A bioinformatics approach is utilized to assess if there is a significant difference in the gene assessment profiling in patients with idiopathic infertility versus controls via transient endometrial nucleoporins.	AH 312	Dr. Claudia Preston	Biology

11:20 AM	11:35 AM	Kevin	Porcayo		Identification of Biogenic Amines in Alcoholic Beverages Using GC-MS	Various spirits were analyzed by GC-MS for the presence of biogenic amines.	AH 306	Dr. Nathan Lien	Chemistry
11:20 AM	11:40 AM	Brady	Quan		The Role of Probability in Casino Games	We will examine the role of probability in three popular casino games. Using probability models and simulations, the study reveals how casinos maintain their advantage and how players can reduce losses through strategic decisions.	AH 210	Dr. Kevin Dennis	Mathematics
11:20 AM	11:35 AM	Morgan	Wallendal		Publication bias within mammalian studies	This study analyzed mammals from published Journal of Mammalogy articles over the past decade to assess whether publication bias among orders and families was present.	AH 308	Dr. Benjamin Pauli	Biology
11:30 AM	12:00 PM			Eric Charest, Mason Windschitl, Will Boeckman	Heart Attack Prediction Model	A data visualization presentation of a model constructed using regression analysis to predict if a subject is at risk of a heart attack.	AH 225	Dr. Michael Ratajczyk	Business
11:30 AM	11:45 AM			Linnea Jensen, Susana Zuccarelli, Rheanna Hopkins, Madeline Ruger	Sleep Strategies for Dorm Life.	This presentation is part of a N395 Health Promotion class project investigating a physical health promotion topic pertinent to a college campus setting.	AH 200	Sister Agnes Mary Graves, RSM	Nursing
11:40 AM	11:55 AM	Brinton	Anderson		The Effects of Cold Water Immersion on Inflammation Levels in Mice	One group of mice were treated with a cold water bath and a second was not and an ELISA test was used to measure TNFa levels.	AH 212	Dr. Matthew Rowley	Biology
11:40 AM	11:55 AM	Riley	Bauman		The Glenohumeral Joint In Overhead Athletes	A study on the range of motion of the glenohumeral joint in overhead athletes and how band resistance training affects range of motion measurements.	AH 306	Dr. Philip Roper	Biology
11:40 AM	11:55 AM	DeMarria	Gardner		Relationship between Parasite Presence and Body Condition of Slimy Sculpin in a southeast Minnesota Coldwater Stream	This study assessed the relationship between parasite load and individual body condition of Slimy Sculpin in Gilmore Creek.	AH 312	Dr. Peter Pfaff	Biology
11:40 AM	11:55 AM	Josephine	Reed		Dysregulation in the GPCR-mediated signaling pathway potential link to pathophysiological alteration associated with ADHD	This presentation will examine the biomolecular processes influenced by common mutations linked to ADHD using bioinformatics.	AH 308	Dr. Claudia Preston	Biology
11:40 AM	11:55 AM	Isabella	Stein		Mutant MLH1 expression increases PDL1 expression on 293T cells	Transfection of 293T cells with mutated MLH1 results in increased expression of the immune regulatory ligand PDL1.	AH 310	Dr. Megan Girtman	Biology
11:40 AM	12:00 PM	Colin	Tushie		Playoff Predictability in Hockey	This study examines the statistical trends that separate playoff teams from non-playoff teams in the Minnesota Intercollegiate Athletic Conference (MIAC) men's hockey league.	AH 210	Dr. Kevin Dennis	Mathematics
11:40 AM	12:00 PM	Bastien	Wolfe		Spiritual Angst; The Spiritual Development of Nietzsche and Its Implications on Contemporary Atheism	My presentation will explore the impact of Fredrick Nietzsche's philosophy on modern atheism and demonstrates that atheism as a belief system with an inherent faith commitment.	H 120	Dr. Patricia Calton	Philosophy
11:45 AM	12:00 PM			Grace Leis, Hanna Strom, Elliott Marr	Is there a correlation between nutritional intake and academic performance?	This presentation is part of a N395 Health Promotion class project investigating a nutrition health promotion topic pertinent to a college campus setting.	AH 200	Sister Agnes Mary Graves, RSM	Nursing


