

CELEBRATION OF SCHOLARSHIP PROGRAM

April 27, 2018

<u>Time</u>	<u>Location</u>	<u>Presenter and Presentation</u>	<u>Department</u>	<u>Advisor(s)</u>
9:00-9:15	Science and Learning Center 308	Chelsea Hiltner The Impact the Invasive Shrub Japanese Barberry has on the Black-legged Tick Population in Southeastern Minnesota Black-legged ticks were collected in areas with and without Japanese barberry and the number of ticks collected in the two areas were compared.	Biology	Dr. Jeanne Minnerath, Dr. Benjamin Pauli
9:00-9:15	Science and Learning Center 300	Alexander Holm Inhibition of Mitochondrial NADH Dehydrogenase by the Herbicide Atrazine Atrazine is a commonly used herbicide which has been shown to inhibit NADH Dehydrogenase, an important enzyme used in energy production in animals	Biology	Dr. Debra Martin
9:00-9:15	Science and Learning Center 200	Samantha Janssen The Effects of Oral Caffeine on Cortisol Levels, Blood Pressure, Heart Rate and Glucose on Caffeine and Non-caffeine Habituated Individuals Physiological parameters of chronic caffeine users and non-users were measured twenty minutes following consumption of a placebo or caffeine.	Biology	Dr. Randy Krainock
9:00-9:15	Hendrickson 120	Dixon Irwin Variation of Use in Boat Models by Alumacraft Analyzing whether Alumacraft is seeing an increase or decrease in house by boat Model class in Departments over time.	Business	Professor Michael Ratajczyk
9:00-9:25	Science and Learning Center 210	Hannah Emeott, Molly Homeyer, Liam Gorman, Brian Propp How to Survive the Business Strategy Case Competition December 2017 victors share tips for winning the Case Competition.	Business	Professor Jeffrey Hefel
9:00-9:25	Science and Learning Center 212	Rowan Flynn, Carolyn Klaesges Periodic Table of Data Science Podcasts, Challenges and Competitions - what you need to know to be a successful data scientist.	Business	Professor Michael Ratajczyk
9:00-9:15	Science and Learning Center 310	Besufekad Azage Spectroscopic and Computational Analysis of Sodium Paradodecatungstate and its Binding to Intestinal Alkaline Phosphatase (IAP) This research attempted to understand how Sodium Paradodecatungstate binds to IAP and inhibits it. This study also tried to predict different possible spectra of Sodium Paradodecatungstate.	Chemistry	Dr. Christopher Jordan

<u>Time</u>	<u>Location</u>	<u>Presenter and Presentation</u>	<u>Department</u>	<u>Advisor(s)</u>
9:00-9:25	Saint Mary's 332	Alex Nuy, Kathryn Homan, Stephanie Schmidt, Regina Bettag The Scholarship of Teaching: Bridging the Gap, Building Connections Between Novice and Veteran Teacher Leaders How do different generations of teacher leaders effectively communicate and understand one another in order to serve the best interests of the whole child?	Education	Dr. Scott Sorvaag
9:00-9:25	Saint Mary's 317	Michael O'Brien-Britton Theater and Theatricality in <i>The Master and Margarita</i> Mikhail Bulgakov's dialogue with his contemporaries in the Soviet Theatre world Konstantin Stanislavsky and Vsevelod Meyerhold.	English	Dr. Carolyn Ayers
9:00-9:25	Saint Mary's 200	Benjamin Peters The Ethics of Storytelling: Gyges and the Use of Fact and Fiction in the Ancient's Practice of History This presentation examines the tension between reality and fiction in the development of history and its modern relevance, particularly in reference to Herodotus and Plato.	History	Dr. Tycho de Boer, Dr. John Poling
9:00-9:25	Science and Learning Center 312	Brittney Hanson Generalized Linear Models to Predict Final Standings A model was built in R, using previous year data, to predict NCAA Division I volleyball final standings for the current year.	Mathematics, Computer Science and Statistics	Dr. Kristen Sellke
9:00-9:35	Saint Mary's 202	Mark Miller A Thomistic Account of the Passions This presentation provides an explanation of what passions are, how they have the potential to cause one to err and also how they are necessary for human fulfillment.	Philosophy	Dr. John Poling
9:00-9:55	Science and Learning Center 306	Paul Stewart, Toan Tran Information Measure of Critical Neural Network Analysis of the relationship between critical state of neural network, characterized by a specific value of Branching Ratio, and synergy, a type of information measure.	Physics	Dr. Demian Hyunjai Cho
9:00-9:15	Toner Center Lounge	Hanna Potter Perception of Diabetics and Its Role in Body- Image, Depression, and Anxiety Body image, management, perception of diabetes, depression, and anxiety, were all examined in relation to one another.	Psychology	Dr. Molly O'Connor

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9:00-9:15	Toner Center 9	Mandy Sailor Health Behaviors on College Campuses Research was conducted on relationships between eating behavior, exercise dependence, and alcohol consumption in a college aged population through a baseline survey and a 14-day trial.	Psychology	Dr. Molly O'Connor
9:00-9:25	Saint Mary's 132	Alyssa Johnson Rape Myth Acceptance and Attitudes Toward Social Justice This presentation will present the results from a year long thesis project based on data collected from the Saint Mary's University student body. The focus of the project is on rape myth acceptance and attitudes toward social justice.	Social Science	Dr. Tricia Klosky
9:00-9:10	Performance Center: Figliulo Recital Hall	Andrew Becker Lighting Design for Concerts A Graduation Project presentation on concert lighting design including a virtual pre-visualization of a concert set.	Theatre and Dance	Professor Jason Underferth, Professor Walter Elder
9:10-9:20	Performance Center: Figliulo Recital Hall	Darren Cajipo An Actor's Journey and Process with the Classical Style A Graduation Project presentation highlighting an actor's journey into character development for the role of Mr. Hardcastle in Oliver Goldsmith's <i>She Stoops to Conquer</i> focusing on previous theater education, the tools and methods used to create a character, and work with an ensemble.	Theatre and Dance	Professor Walter Elder
9:20-9:35	Science and Learning Center 300	Michael Cimba Comparing the Abilities of Mechanical and Manual Toothbrushes at Eliminating Oral Bacteria Volunteers brushed with either a manual or mechanical toothbrush for three weeks and the concentration of bacteria present in their mouths was evaluated.	Biology	Dr. Jeanne Minnerath
9:20-9:35	Science and Learning Center 200	Kathryn Frye Inhibition of TBX2 Expression in the T47D Cell Line Reduces Cell Mobility T47D cells were treated with siRNA against TBX2 and the effect on cell mobility was measured using a scratch assay.	Biology	Dr. Matthew Rowley
9:20-9:35	Science and Learning Center 308	Jordan Hill Spatial Analysis of the Relationship Between Atrazine and Human Diseases in the Midwest A correlational study of atrazine and the prevalence of diseases and disorders in the Midwest United States using spatial analysis.	Biology	Dr. Benjamin Pauli, Dr. Debra Martin

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9:20-9:45	Hendrickson 120	Shawn Gilbert Formula 1 Data Visualization Visualizing Formula 1 data going back to its creation in the 1950's.	Business	Professor Michael Ratajczyk
9:20-9:35	Science and Learning Center 310	Madaline Eichers Expression of Proteins TNF-α, HIF1-α, and VEGF in Response to Chronic Atrazine Exposure in Mice (<i>Mus musculus</i>) Atrazine, the most commonly used triazine herbicide in the United States, has been associated with adverse effects. This study focuses on atrazine's effect on the inflammatory cytokine, TNF- α and the HIF1- α signal transduction pathway.	Chemistry	Dr. Debra Martin
9:20-9:35	Toner Center 9	Jamie Henderson Coach-Athlete Relationship, Leadership Behaviors, and Game Outcome on Team-Cohesion Between Coacting and Interacting Teams A look at team-cohesion in different sports teams, including individual and team sports, perceived relationship that the athlete has with their head coach, their perception of their behaviors of the leaders on their team and whether a win or a loss effect on team-cohesion.	Psychology	Dr. Molly O'Connor
9:20-9:35	Toner Center Lounge	Bailey Windsperger Classical Conditioning of Homo Sapiens to Experience Relaxation Physiologically and Psychologically Using Progressive Muscle Relaxation Classical conditioning of participants to relax in the presence of a scent by pairing scented lotion to Progressive Muscle Relaxation.	Psychology	Dr. Molly O'Connor
9:20-9:40	Performance Center: Figliuolo Recital Hall	Shania Merchlewitz Designing for Science: How Audience Members Perceive Theatre Lighting A theatre and psychology interdisciplinary Graduation Project presentation on the design process for an experiment researching how audience members react to theatre lighting.	Theatre and Dance	Professor Walter Elder
9:25-9:50	Saint Mary's 332	Michelle Wegrzyn The Scholarship of Teaching: The Power of Differentiating for Students, From Poetry to Science Through differentiation, educators have the power to transform learning for their students, meeting them where they are and helping them to succeed.	Education	Professor Elizabeth Donahue, Dr. Karen Sorvaag, Dr. Melissa Luedtke

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9:25-9:50	Saint Mary's 317	Emily Loof A Doctor, a Monster, a Nose, and Knees: Dichotomies of Identity in <i>The Strange Case of Dr. Jekyll and Mr. Hyde</i> and <i>Midnight's Children</i> Literary representations of identity fragmentation and abjection in the colonial and postcolonial contexts in literature in English.	English	Dr. Carolyn Ayers
9:25-9:50	Saint Mary's 200	Alexander Cyphert No Gods or Kings, Only Man: Ayn Rand's Experiences in the Soviet Union as Inspiration for Anthem This presentation examines the impact of Ayn Rand's formative years spent in Russia before and after the revolution as inspirations for her work <i>Anthem</i> .	History	Dr. Erich Lippman
9:30-9:45	Science and Learning Center 210	Drew Deroiun, Nathaniel Vandegrift, Julia Boeve Unbridled Borrowing: Are Americans in too Much Debt? Why has consumer and government debt skyrocketed? This presentation explores the causes and some of the consequences.	Business	Professor Lawrence Price
9:30-9:45	Science and Learning Center 212	Tara Nagy Will Your Shark Tank Pitch Succeed? Shark Tank is a popular way to expand your business, but will your pitch succeed? A prediction analysis of past Shark Tank pitches and how likely they are to succeed and which shark will be most interested based on the text of the pitch.	Business	Professor Michael Ratajczyk
9:30-9:55	Science and Learning Center 312	Jared Wolt Using a Bayesian Approach to Predict Soccer Games and Leagues How to predict a soccer league table using a Bayesian approach with a Poisson distribution.	Mathematics, Computer Science and Statistics	Dr. Kristen Sellke
9:30-9:55	Saint Mary's 132	Natalie Mrozek Occupation and Support of Capital Punishment: Is There a Link? This study uses General Social Survey (NORC) data to examine the relationship between occupation and attitudes toward capital punishment. Of particular interest is how occupation impacts acceptance and use of the death penalty.	Social Science	Dr. Tricia Klosky
9:40-9:55	Science and Learning Center 200	Carina Friend DNA Damage and the Cell Cycle Checkpoint Responses in <i>Schizosaccharomyces pombe</i> Investigation of dominance determining factors between two cell cycle checkpoints of <i>S. pombe</i> , which are both activated by DNA damage but incite opposing cellular responses.	Biology	Dr. Debra Martin, Dr. Brett Bodsgard

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9:40-9:55	Science and Learning Center 300	Austin O'Hare Comparison of Bacterial Isolates From Fresh and Composted Rodent Bedding Samples of fresh and composted mouse caging material were cultured on species-specific agar and population densities determined to examine the effect of composting on bacterial growth.	Biology	Dr. Randy Krainock
9:40-9:55	Science and Learning Center 308	Jack Strusz Intersex of Fish in the Mississippi River I examined fish for the possible presence of intersex indicating the presence of endocrine disrupting compounds within the Mississippi River.	Biology	Dr. Joshua Lallaman
9:40-9:55	Science and Learning Center 310	Molly Palecek Synthesis of Metal Nanoparticles and Their Effects on the Growth of the Bacteria <i>Escherichia coli</i> Gold, silver, and copper nanoparticles were synthesized and characterized. Minimum inhibitory concentration assays were performed to test their ability to inhibit bacterial growth.	Chemistry	Dr. Brett Bodsgard
9:40-10:15	Saint Mary's 202	Robert Kinyon Anscombe and Aquinas on Ethics An evaluation of Thomistic ethics in light of G. E. M. Anscombe's essay, "Modern Moral Philosophy."	Philosophy	Dr. John Poling
9:40-9:55	Toner Center Lounge	Jenna Phelps Exposure Hypothesis and Love Kindness Meditation; an Examination of Their Effects of Discrimination Two very different approaches to decreasing discrimination are tested against each other to evaluate which method is more effective in accomplishing decreased discrimination.	Psychology	Dr. Molly O'Connor
9:40-9:50	Performance Center: Figliuolo Recital Hall	Celeste Nygren Once Upon a Theatre Lab A Graduation Project presentation on the planning and implementation of a three day theatre workshop for students aged 8-12 years old at the Minnesota Conservatory for the Arts.	Theatre and Dance	Professor Walter Elder
9:50-10:05	Science and Learning Center 210	Alice Bettag, Alejandra Pina Social Networking: Is it Good for Society? Social networking, especially in the millennial generation, is pervasive. What effect is it having? This presentation looks at the arguments and the hard data.	Business	Professor Lawrence Price

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9:50-10:15	Hendrickson 120	Victor Martinez, Jr. PUBG: Predicting Your Next Win Using data from a multiplayer online battle royale game called Playerunknown's Battleground to predict whether a player will win a game.	Business	Professor Michael Ratajczyk
9:50-10:15	Science and Learning Center 212	Nicholas Nelson The Economics Behind the Death Star By utilizing proxy variables, we can determine the specifications of the Death Star, and can calculate the costs of its construction and continued operation.	Business	Professor Michael Ratajczyk
9:50-10:00	Performance Center: Figliulo Recital Hall	Ian Robertson Variability in Sound Design A Graduation Project presentation discussing two sound designs for fall 2017 Department of Theatre and Dance productions, one using digital effects, the other, Foley sound.	Theatre and Dance	Professor Walter Elder
9:50-10:15	Saint Mary's 332	Kassidy Hauschild, Ciara Kowalczyk The Scholarship of Teaching: Varying Instruction to Meet Student Learner Needs Through Movement, Music, Games, and Collaboration Making learning meaningful is vital in education. With a hands-on, minds-on approach, students engage their bodies and minds through movement for lifelong learning.	Education	Professor Jan Dimmitt-Olson, Professor Elizabeth Donahue, Dr. Karen Sorvaag, Dr. Melissa Luedtke
9:50-10:15	Saint Mary's 317	Ryan Buchmeier Distance and Authenticity: The Representation of Shame in Karl Ove Knausgaard's <i>My Struggle: Book 1</i> The popular Norwegian writer's creation of distance in intimate autobiographical fiction.	English	Dr. Carolyn Ayers
9:50-10:15	Saint Mary's 200	Leanna Haag What a Piece of Work is Man: Mikhail Bulgakov's Articulation of Human Nature from the NEP to the Stalinist Regime This presentation explores Mikhail Bulgakov's struggle with the emerging concept of the "New Soviet Man" by examining his literary representation of the issue.	History	Dr. Erich Lippman
10:00-10:15	Science and Learning Center 300	Daniel Lodwich The Influence of Atrazine on the Signal Transduction Factor HIF1-α and the Inflammatory Cytokine TNF-α This study focuses on advancing the known effects of atrazine exposure.	Biology	Dr. Debra Martin

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10:00-10:15	Science and Learning Center 200	Sarah Munns Copper Nitrate Inhibits the Growth of <i>Staphylococcus aureus</i> and <i>Escherichia coli</i> The bacteria <i>Staphylococcus aureus</i> and <i>Escherichia coli</i> were incubated with varying concentrations of copper nitrate and bacterial growth was measured.	Biology	Dr. Jeanne Minnerath
10:00-10:15	Science and Learning Center 308	Christopher Virruso Terrestrial Scavenging by Bald Eagles An experiment using crow decoys to evaluate if they are used by bald eagles as sentinels	Biology	Dr. Raymond Faber
10:00-10:15	Science and Learning Center 310	Ryan Hippman Progress Towards the Synthesis of Crassalactone A and Development of a Hetero Diels-Alder Methodology to Access Styryl Lactones A novel approach to synthesizing (+)-crassalactone A using a hetero Diels-Alder reaction as a key step to access a styryl lactone core was explored.	Chemistry	Dr. Jaime Mueller
10:00-10:15	Toner Center Lounge	Yisset Gonzalez Attitudes Towards Victims of Sex Trafficking This presentation will be looking at several factors that influence attitudes that people have towards victims of sex trafficking.	Psychology	Dr. Molly O'Connor
10:00-10:15	Performance Center: Figliulo Recital Hall	Courtney Govan, Taylor Novak, Victoria Madigan <i>Glengarry Glen Ross: An Actor's Process</i> A Graduation Project presentation highlighting an actor's process as told by three actors from the 2017 Saint Mary's University Department of Theatre and Dance fall production of <i>Glengarry Glen Ross</i> by David Mamet and directed by Walter Elder.	Theatre and Dance	Professor Walter Elder
10:00-10:25	Science and Learning Center 312	Stephen Fishbune The Application of Optimal Control to the Business of Video Games An explanation of a mathematical model which interprets when a video game developer should switch from a subscription-based business model to a free-to-play model.	Mathematics, Computer Science and Statistics	Dr. Kristen Sellke
10:30-11:45	Lillian Davis Hogan Galleries	Kate Alley Senior Thesis Presentation Discussion of process and imagery for exhibit using graphic design software and digital photography.	Art and Design	Professor Rob McColl

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10:30-11:45	Performance Center: Figliuolo Recital Hall	Rachel Prince, Kierra Walske, Debra Blissenbach, Erin McCoy Music Department Showcase Recital Music students present a variety of vocal and instrumental selections from the classical repertoire.	Music	Dr. Ned Kirk
10:30-11:45	Griffin 181	Darren Cajipo, Shania Merchlewitz, Courtney Govan, Taylor Novak Theory/Theatre Research and Praxis Four scholarly research projects at the intersection of text, theory, and theatre practice touching on structuralism, post-structuralism, gender theory, and the postmodern.	Theatre and Dance	Dr. Jimmy Bickerstaff
10:30-10:45	Science and Learning Center 300	John Sabella The Effects of Atrazine on Growth, Development and Gender Determination In <i>Mus musculus</i> Does atrazine have an affect the growth and gender determination in <i>Mus musculus</i> .	Biology	Dr. Debra Martin
10:30-10:45	Science and Learning Center 308	Sarah Sieracki Comparison of Seed Traits in Two Myrmecochorous Plants Several morphological features of elaiosome-bearing seeds were assessed in two native plant species (bloodroot and Dutchman's breeches).	Biology	Dr. Moni Berg-Binder
10:30-10:45	Science and Learning Center 200	Tiarra Thompson The Artificial Sweetener Stevia Does Not Impact the Growth of MDA-468 Human Breast Cancer Cells Human breast cancer cells were incubated with and without Stevia or table sugar and cell growth was measured.	Biology	Dr. Jeanne Minnerath
10:30-10:45	Hendrickson 120	Shawn Gilbert, Bakari Collins Periodic Table of Data Science A further look at the community area of the Periodic Table of Data science along with the importance of audience communication.	Business	Professor Michael Ratajczyk
10:30-10:55	Science and Learning Center 210	Garrett Grunke, Sean Butcher Want To Go on a Data? We will be using business intelligence and analytics techniques to create a model based off data generated through a survey to predict the compatibility between two people.	Business	Professor Michael Ratajczyk

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10:30-10:45	Science and Learning Center 310	<p>Joseph Domine Computational Study of Decavanadate Spectra and Binding Sites of Reduced Decavanadate to Protein ecto-nucleoside Triphosphate Diphosphohydrolase 1 (NTPDase 1) Creating a computational model using Decavanadate and reduced Decavanadate. Computations include predicting magnetic and vibrational spectra as well as predicting binding sites on Triphosphate Diphosphohydrolase 1 (NTPDase 1).</p>	Chemistry	Dr. Christopher Jordan
10:30-10:55	Saint Mary's 332	<p>Stephanie Schmidt, Megan VanderLugt The Scholarship of Teaching: The Power of Collaboration and Teamwork to Analyze Data, Form Flexible Groups, and Tier Assessment for Student Success Collaboration among professionals supports student success. Effective collaboration results in using student data for flexible grouping and differentiated instruction that meets targeted student needs.</p>	Education	Professor Jan Dimmit-Olson, Dr. Karen Sorvaag, Dr. Melissa Luedtke
10:30-10:55	Saint Mary's 200	<p>Alex Nuy Remembering Resistance: Telling the Story of Resistors Inside the Nazi Hierarchy A comparison of two Nazi resistors and how they are remembered.</p>	History	Dr. Erich Lippman
10:30-10:55	Science and Learning Center 312	<p>Brittney Birkhauser The Utilization of Markov Chains in Baseball An exposition of a statistical analysis and how it can be used to impact a baseball team's performance.</p>	Mathematics, Computer Science and Statistics	Dr. Kristen Sellke
10:30-11:05	Saint Mary's 202	<p>Daniel Hammer Martin Buber: Philosophical Anthropology This presentation will examine Martin Buber's philosophical anthropology as a way to understand under what conditions authentic freedom exists.</p>	Philosophy	Dr. John Poling
10:30-10:45	Toner Center Lounge	<p>Ruba Kenyi Racial Microaggressions, Color-Blind Racial Attitudes, Implicit Biases, and Ethnocultural Empathy Among Undergraduate Students Results will be presented of a study on racial microaggressions, color-blind racial attitudes, implicit biases, and ethnocultural empathy among Saint Mary's undergraduates.</p>	Psychology	Dr. Molly O'Connor

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10:30-10:50	Saint Mary's 234	Chris Lackey Consuming Catholicism in a Consumer Culture This presentation attempts to show potential dangers to a community rooted in Christ, when Catholicism is engaging in and being engaged by a consumer culture.	Theology	Dr. Kenneth Stenstrup
10:50-11:05	Science and Learning Center 200	Carter Bernier The Effects of Atrazine on Growth, Gene Expression, and Aromatase Activity in <i>Mus musculus</i> Study examined mass, testosterone, aromatase, and gene expression in mice exposed In utero to various concentrations of atrazine.	Biology	Dr. Debra Martin
10:50-11:05	Science and Learning Center 300	Owen Blakely The Oligodynamic Effect of Hexaammincobalt(III) chloride on <i>Escherichia coli</i> and <i>Staphylococcus aureus</i> A minimum inhibitory concentration assay was completed to determine if hexaammincobalt(III) chloride inhibited the growth of <i>Escherichia coli</i> and <i>Staphylococcus aureus</i> .	Biology	Dr. Jeanne Minnerath
10:50-11:05	Science and Learning Center 308	William Grillo Lead Content in the Livers of Southeastern Minnesota Mallards (<i>Anas platyrhynchos</i>) Livers of Mallards harvested in Southeastern Minnesota were digested and analyzed for traces of lead on the 30th anniversary of the Minnesota lead shot ban.	Biology	Dr. Raymond Faber, Dr. Nathan Lien
10:50-11:15	Hendrickson 120	Fabian Alvarez Performance Analysis of Chicago Restaurants We have studied over 150,000 food quality inspections for restaurants in Chicago. We will present interesting findings.	Business	Professor Michael Ratajczyk
10:50-11:05	Science and Learning Center 310	Rosy Kanyamaw Preparation of Immobilized Cyclam Complexes on Iron Oxide Nanoparticles for Heterogeneous Hydrolysis of Phosphate Ester Iron oxide nanoparticles covalently coated with cyclam complexes were synthesized and characterized for their potential use as phosphate ester cleavage agents.	Chemistry	Dr. Brett Bodsgard
10:50-11:05	Toner Center Lounge	Alicia Berkenes The Influence of Social Exercise Combined with Internal and External Motivation A presentation of the results of the study conducted on the influence of social exercise combined with internal and external motivation.	Psychology	Dr. Molly O'Connor

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10:55-11:20	Saint Mary's 332	Sheyenne Bauer The Scholarship of Teaching: Planning, Instruction, Assessment, and Relationships. It's All About the Kids Getting to know your students is important because it helps guide instructional and assessment decisions that fit the needs and interests of the learner.	Education	Professor Jan Dimmitt-Olson, Dr. Karen Sorvaag, Dr. Melissa Luedtke
10:55-11:20	Saint Mary's 200	Victoria Johnston The Revival of Israel: Regulation and Discrimination in the Israeli Educational System A study of Israeli attitudes toward Palestinians in the Israeli Education System.	History	Dr. Erich Lippman
10:55-11:15	Saint Mary's 234	Caleb Kormann Memory In Augustine: An Eschatological Exploration This presentation will explore Augustine's theological anthropology of memory and its relation to the eschatology of Joseph Ratzinger.	Theology	Dr. Kenneth Stenstrup
11:00-11:25	Science and Learning Center 210	Michael Amelio Predicting Future Ice Hockey Statistics Use a model to analyze historical ice hockey statistics to help coaches estimate future performance of potential incoming players.	Business	Professor Michael Ratajczyk
11:00-11:25	Science and Learning Center 312	Alexander Kocher Creating a Model for a Winning FanDuel Lineup Making a model in Excel to correctly predict nightly NBA player statistics, and using these predictions to create a winning FanDuel lineup.	Mathematics, Computer Science and Statistics	Dr. Kristen Sellke
11:10-11:25	Science and Learning Center 308	Marissa Carlyle The Effects of Fluoxetine on <i>Cyprinus carpio</i> Present in the Mississippi River The presence of fluoxetine was found in multiple brain samples collected from carp in the Mississippi River, suggesting fish populations are at risk from sewage pollutants.	Biology	Dr. Joshua Lallaman
11:10-11:25	Science and Learning Center 300	Kaitlin Kling The Effect of Overexpression of TBX2 on Migration of SKBR3 Cells A boyden chamber assay was used to measure migration of SKBR3 cells with or without over expression of TBX2.	Biology	Dr. Matthew Rowley
11:10-11:25	Science and Learning Center 200	Heven Woledi The Impact of Turmeric on the Production of Interleukin 10 by Murine Splenocytes Mouse splenocytes were incubated with and without turmeric and production of the cytokine IL10 was measured.	Biology	Dr. Jeanne Minnerath

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11:10-11:25	Science and Learning Center 310	Analiese Schadler Gender Differences in Hepatic GST Isotypes Alpha, Mu and Pi in Mice Chronically Exposed to Atrazine Chronic exposure to the herbicide atrazine affects the enzyme activity of GST isotypes alpha, mu and pi in mice livers.	Chemistry	Dr. Debra Martin
11:10-11:45	Saint Mary's 202	Luke Range The Practice of a Life Founded in Love: The Christian Form of Life and Its Concept of Love An attempt to give account of Christian love using the later Wittgenstein's concept of a 'form of life'.	Philosophy	Dr. John Poling
11:10-11:25	Toner Center Lounge	Katherine Lofquist Influence of Adverse Childhood Experiences on Depression, Anxiety, and Substance Use A senior thesis study to examine the influence adverse childhood experiences has in relation to depression, anxiety, and substance use.	Psychology	Dr. Molly O'Connor
11:20-11:45	Hendrickson 120	Karel Capek A Geospatial Analysis of the Watershed Ecological Economy Working with Geospatial Services, I completed a project studying flooding and waterways.	Business	Professor Michael Ratajczyk
11:20-11:45	Saint Mary's 332	Abigail Killian The Scholarship of Teaching: Meeting Students Where They Are--Newsela, Anchor Charts, and More By getting to know each student, a teacher can meet every learner where they are and use resources and strategies to individualize language arts instruction.	Education	Dr. Scott Sorvaag, Professor Jan Dimmitt-Olson, Dr. Karen Sorvaag, Dr. Melissa Luedtke
11:20-11:45	Saint Mary's 200	Liam Bickerstaff The Patriotic Treason of Erskine Childers: Dying British Imperialism and the Case for Irish Independence An investigation of growing anti-colonial sentiment in the published writings of Erskine Childers, first as a British patriot and soldier in South Africa, and then in Ireland writing propaganda for the IRA.	History	Dr. Erich Lippman, Dr. Tycho de Boer
11:20-11:45	Saint Mary's 234	Jennifer Babolik Remembering the Lectionary In examining the history, purpose, and importance of the Revised Common Lectionary, the focus is on the advantages and disadvantages of the lectionary and how it can be a tool for today's youth.	Theology	Dr. Kenneth Stenstrup

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11:30-11:45	Science and Learning Center 308	Regina Bettag Native Ant Community Preference and Satiation in Bloodroot (<i>Sanguinaria canadensis</i>) and Dutchman's Breeches (<i>Dicentra cucullaria</i>) Seeds from two different elaiosome-bearing plant species (bloodroot and Dutchman's breeches) were provided to native ants. The patterns in removal between the species were compared.	Biology	Dr. Moni Berg-Binder
11:30-11:45	Science and Learning Center 300	Jeremy Heinle Vascular Endothelial Growth Factor-B and Fatty Acid Binding Protein 4 Expression in Mice (<i>Mus musculus</i>) Exposed <i>in utero</i> to Atrazine In utero exposure to atrazine effects the expression of fatty acid regulating proteins VEGF-B and FABP4.	Biology	Dr. Debra Martin
11:30-11:45	Science and Learning Center 200	Connor Nicholas A Comparative Analysis of 1,3-Dimethylamilamine and Methamphetamines in Mice (<i>Mus musculus</i>) Heart Rate and Pulse Pressure 1,3-Dimethylamilamine is a stimulant found in pre-workout supplements. This study compares this substance to methamphetamine in its impact upon the pulse pressure and heart rate of mice.	Biology	Dr. Randy Krainock, Dr. Debra Martin
11:30-11:45	Science and Learning Center 310	Paula Avila Spectroscopic and Computational Investigation of Ammonium Decavanadate, a Polyoxometalate and Potent Enzyme Inhibitor The spectroscopic properties of ammonium decavanadate were computed in different environments and compared to experimental spectra.	Chemistry	Dr. Christopher Jordan
11:30-11:55	Science and Learning Center 312	Brenden Amiotte A Model for Predicting Upsets in the Early Rounds of the Four Major Tennis Tournaments This presentation will cover a point-based model developed from previous models that employs a combination of player statistics to predict upsets in tennis.	Mathematics, Computer Science and Statistics	Dr. Kristen Sellke
11:35-11:45	Toner Center Lounge	Jessica Cwik Perception of Injury and Trait Aggression as Barriers to Seeking Physical and Mental Help in College Varsity Athletes and Non-Athletes This study examines the relationship between possible barriers to help seeking behaviors for both psychological and physiological concerns for college student-athletes and non-athletes.	Psychology	Dr. Molly O'Connor

<u>Time</u>	<u>Location</u>	<u>Presenter and Presentation</u>	<u>Department</u>	<u>Advisor(s)</u>
1:00-1:15	Science and Learning Center 300	Sarah Egbert The Correlation Factors Between Verbal Feedback, Exercise and Cortisol Levels Exploration of the effects verbal feedback has on the stress and fatigue levels of a particular individual during exercise on a stationary bike.	Biology	Dr. Randy Krainock, Dr. Molly O'Connor
1:00-1:15	Science and Learning Center 200	Ramontica Langfeldt Protein Expression of Neuropilin-1 and VEGF-a in <i>Mus musculus</i> Brain Tissue Exposed <i>in utero</i> to Atrazine The purpose of this study was to examine whether atrazine exposure affected brain development, by investigating two proteins that play a role in signaling pathways.	Biology	Dr. Debra Martin
1:00-1:15	Science and Learning Center 308	Angela Messer Comparison of the Anti-Microbial Properties of the Cis and Tran Isomers of Dichlorobis(ethylenediamine)cobalt(III)chloride Cis and tran isomers of dichlorobis(ethylenediamine)cobalt(III)chloride were tested for their abilities to inhibit the growth of Staphylococcus aureus and Escherichia coli.	Biology	Dr. Jeanne Minnerath
1:00-1:15	Science and Learning Center 212	Matthew Vasilj Doing Business in Germany The economic and business environment of Germany is investigated with an emphasis on the potential for entrepreneurial success in Germany.	Business	Professor Lawrence Price
1:00-1:25	Science and Learning Center 210	Aaron Davis, Chad Cesarz NHL Equipment Analysis Compilation of a database that presents the equipment being worn by players in the NHL and creation of a dashboard of the data.	Business	Professor Michael Ratajczyk
1:00-1:25	Hendrickson 120	Joseph Kleve, Jacob Petraitis, Nicholas Wilgenbusch Data Science Application: Minneapolis Police Data Applying advanced analytics techniques and storytelling in order to gauge crime, and help the police department be more efficient.	Business	Professor Michael Ratajczyk
1:00-1:15	Science and Learning Center 310	Meagan Campbell Synthesis of 1,4-Diaminoanthraquinone Derivatives for the Purification of Lactate Dehydrogenase Biologically active 1,4-diaminoanthraquinone derivatives were synthesized for the purification of lactate dehydrogenase; they may be useful alternatives to Cibacron blue in undergraduate lab studies.	Chemistry	Dr. Jaime Mueller, Dr. Debra Martin

<u>Time</u>	<u>Location</u>	<u>Presenter and Presentation</u>	<u>Department</u>	<u>Advisor(s)</u>
1:00-2:15	Saint Mary's 236	McKayla Collins, Emily Loof Public Relations Capstone Campaigns Seniors will present their work on their Real Strategic Campaigns as part of the Campaigns and Case Studies course.	Communication	Professor Dean Beckman
1:00-1:25	Saint Mary's 332	Alexander Zuzek The Scholarship of Teaching: Variety in Instruction—Be Fearless, Be Calm, and Take the Risk Variety in instruction can be pivotal in reaching all learners. It takes flexibility, confidence, and the willingness to take risks. But it's worth it.	Education	Professor Rodney Schwarz, Professor Elizabeth Donahue, Dr. Karen Sorvaag, Dr. Melissa Luedtke
1:00-1:25	Saint Mary's 200	Nathan Mathwig Effecting the Social and Economic Betterment of the Masses: Lazaro Cardenas and the Intersection of Land Reform, and Nation-Building in Post-Revolutionary Mexico This project studies the nationalistic focus of Lazaro Cardenas's land reform in Post-Revolutionary Mexico.	History	Dr. Tycho de Boer
1:00-1:20	Saint Mary's 317	Kalleigh May Un mundo sin importancia: La hemofilia y el concepto de la masculinidad fallida en la última familia imperial de Rusia A look into the secret lives of the last Russian Imperial family.	Modern and Classical Languages	Dr. John Reed
1:00-1:35	Saint Mary's 202	Jose Flores-Ugalde Ancient History Under the Light of Machiavelli: An Inquiry into the Bridge Between Political Philosophy and Modern Political Science This will be a presentation on Machiavelli's system of thought in regards to how it draws from ancient examples philosophical principles and quasi-political-scientific principles.	Philosophy	Dr. John Poling
1:00-1:15	Toner Center Lounge	Gloria Kranenburg Did You Really Have Fun Drinking Last Night?: Perceptions Regarding Alcohol-Related Consequences This research investigates the perceived amount of both fun and concern towards various types of consequences related to alcohol consumption.	Psychology	Dr. Molly O'Connor
1:00-2:15	Performance Center: Figliulo Recital Hall	Courtney Govan, Victoria Madigan, Taylor Novak, Darren John Cajipo Theatre Performance Showcase Theatre and Dance Department seniors present songs and monologues from their performance repertoire.	Theatre and Dance	Professor Judy Myers

<u>Time</u>	<u>Location</u>	<u>Presenter and Presentation</u>	<u>Department</u>	<u>Advisor(s)</u>
1:20-1:35	Science and Learning Center 308	Maximillian Bzdula The Effects of Increased Creatine Phosphate Concentration on Mass and Myosin Levels in <i>Mus musculus</i> The study tested the effects different combinations of exercise and creatine had on mouse mass and myosin levels in muscles.	Biology	Dr. Debra Martin
1:20-1:35	Science and Learning Center 200	Tabitha Hanson The Effect of TBX2 Expression on Growth and Apoptosis of SKBR3 Cells Treated with a HER2 Neutralizing Antibody SKBR3 cells with or without TBX2 were treated with a HER2 neutralizing antibody and the effect on cell growth and apoptosis was measured.	Biology	Dr. Matthew Rowley
1:20-1:35	Science and Learning Center 300	Tara Longseth Anti-microbial Properties of Clove Oil The ability of clove oil to inhibit the growth of oral bacteria was examined.	Biology	Dr. Jeanne Minnerath
1:20-1:40	Science and Learning Center 212	Emily Lais Doing Business in Japan A survey of the business environment of Japan is directed toward the possibility of conducting American business in Japan.	Business	Professor Lawrence Price
1:20-1:35	Science and Learning Center 310	Gabrielle Reinartz Investigation of the Inclusion Complexes of Alpha-cyclodextrin with Anthranilic Acid-derived N,N,O-terdentate Ligands The stability of the host-guest complexes of alpha cyclodextrin and N,N,O-terdentate ligands were investigated using UV-Visible spectroscopy.	Chemistry	Dr. Nathan Lien
1:20-1:35	Toner Center Lounge	Shania Merchlewitz Instantaneous Emotional Change in Response to Theatre Lighting A presentation of results from research that explored the emotional change of audience members in response to color and theatre lighting.	Psychology	Dr. Molly O'Connor
1:25-1:50	Hendrickson 120	Binglin Li Periodic Table of Data Science I will share the result of my study of the periodic table of data science.	Business	Professor Michael Ratajczyk
1:25-1:50	Saint Mary's 332	Sister Marie Faustina Wolniakowski The Scholarship of Teaching: Cultivating Virtue, The Necessary Scaffold for Lasallian Education It is constructive to identify and promote virtue in public and private classrooms. Using Aristotelian and Lasallian principles as underpinnings for decisions and actions is necessary.	Education	Professor Elizabeth Donahue, Dr. Karen Sorvaag, Dr. Melissa Luedtke

<u>Time</u>	<u>Location</u>	<u>Presenter and Presentation</u>	<u>Department</u>	<u>Advisor(s)</u>
1:25-1:50	Saint Mary's 200	Jake Kelcher Nice Guys in a Tough World: A New Cold War Narrative, Defectors from Communist Nations, and the Russian Five "Nice Guys in a Tough World: A New Cold War Narrative, Defectors from Communist Nations, and the Russian Five" is about the Cold War era in which the United States was a part of in the late 70's and early 80's and how the New Cold War narrative and how the new narrative affected the defections of five Russian hockey players.	History	Dr. Tycho de Boer
1:25-2:00	Saint Mary's 317	Cecelia Kuka Yo, Sí Puedo- Un programa cubano de alfabetización que cambió Latinoamérica This project explores the impact of Yo, Sí Puedo, a Cuban Literacy Program in Latin America, through its pedagogy.	Modern and Classical Languages	Dr. John Reed
1:30-1:55	Science and Learning Center 210	Bradley Hill, Kristjan Meitz, Kevin Gleason NBA Analysis Dissecting analytics of NBA Basketball	Business	Professor Michael Ratajczyk
1:40-1:55	Science and Learning Center 300	Elizabeth Atneosen T-Cell and Macrophage Activation in the Splenocytes of <i>Mus musculus</i> Chronically Exposed to Atrazine This experiment focused on the immune effects of chronic exposure to atrazine, an herbicide, has on mice by measuring activity of T-Cells and Macrophages.	Biology	Dr. Debra Martin
1:40-1:55	Science and Learning Center 200	Brandon Krogman Magnesium Sulfate Inhibits Tumor Necrosis Factor-Alpha in Splenocytes from <i>Mus musculus</i> Mice were bathed in Epsom salt (magnesium sulfate) or table salt (sodium chloride) to determine whether Epsom salt inhibited inflammation.	Biology	Dr. Jeanne Minnerath
1:40-1:55	Science and Learning Center 308	Victor Rodas Over Expression of TBX2 in the MCF10A Cell Line Induces Epiregulin Expression TBX2 was over expressed in MCF10A cells and the upregulation of epiregulin expression was measured using an ELISA assay.	Biology	Dr. Matthew Rowley
1:40-1:55	Science and Learning Center 310	Brandon Retzlaff Synthesis of Mono-substituted Anthraquinone Derivatives to be used in the Purification of Lactate Dehydrogenase Anthraquinone derivatives can be used as a more economic substitute for Cibacron Blue 3G-A, a dye used for enzyme purification in a biochemistry laboratory setting.	Chemistry	Dr. Jaime Mueller

<u>Time</u>	<u>Location</u>	<u>Presenter and Presentation</u>	<u>Department</u>	<u>Advisor(s)</u>
1:40-1:55	Toner Center Lounge	Mandy Sailor Biopsychosocial Theory Application on Influenza Epidemic in the United States This presentation will examine the Influenza outbreak in the United States through a biological, psychological, and social perspective.	Psychology	Dr. Elizabeth Seebach
1:40-2:15	Saint Mary's 202	Isaac Landsteiner A Philosophy of Patriotism An exploration of Patriotism as understood through the lenses of Family, Loyalty, Virtue, and Love.	Philosophy	Dr. John Poling
1:45-2:05	Science and Learning Center 212	Carolyn Klaesges, Brett Jackson, Hannah Emeott The History and Culture of the Czech Republic An examination of Czech history and culture is presented in the context of doing business in the Czech Republic.	Business	Professor Lawrence Price
1:50-2:15	Saint Mary's 332	Alex Nuy The Scholarship of Teaching: Content Knowledge, Passion, and Relationships with Students, Three Parts of Professionalism Providing students information is only one piece of the puzzle. Ensuring mastery also lies in a passion for teaching and a commitment to building relationships.	Education	Professor Rodney Schwarz, Dr. Karen Sorvaag, Dr. Melissa Luedtke
1:50-2:15	Saint Mary's 200	Zachary Slowiak What are the Golden Days of Baseball: The Differing Views of Nostalgia in Baseball Baseball is known for being America's past time. However, fans of baseball and Major League Baseball view that past time much differently.	History	Dr. Tycho de Boer
1:55-2:15	Science and Learning Center 210	Alice Bettag, Sydney Woerly Winning the Trade Game Discussing the strategies behind our win in the microeconomics trade game.	Business	Professor Michael Ratajczyk
2:00-2:15	Science and Learning Center 200	Haley Colton Glutathione S-Transferase Expression in Embryonic Livers of Gallus gallus Exposed to Atrazine <i>in ovum</i> This study examines the expression of the enzyme GST and its specific isotypes in embryonic chicken livers after they were exposed to atrazine <i>in ovum</i> .	Biology	Dr. Debra Martin
2:00-2:15	Science and Learning Center 300	Hunter Rau The Effect of Aloe vera Extract on Tumor Necrosis Factor - alpha Production by Murine Splenocytes Murine splenocytes were incubated with and without Aloe vera extract and TNF-alpha production was measured.	Biology	Dr. Jeanne Minnerath

<u>Time</u>	<u>Location</u>	<u>Presenter and Presentation</u>	<u>Department</u>	<u>Advisor(s)</u>
2:00-2:15	Science and Learning Center 308	Bailey Windsperger Classical Conditioning of <i>Homo sapiens</i> to Experience Relaxation Physiologically and Psychologically using Progressive Muscle Relaxation Participants were taught a relaxation exercise while smelling scented lotion. The goal was to observe the relaxation effects of the exercise and the scent.	Biology	Dr. Randy Krainock, Dr. Molly O'Connor
2:00-2:15	Science and Learning Center 310	Brenden Amiotte A Synthetic, Spectroscopic, and Computational Study of the Polyoxometalate W12 W12 has a wide variety of biochemical applications. The structure and spectroscopic properties of W12 was analyzed in lab and using density functional theory computations.	Chemistry	Dr. Christopher Jordan
2:00-2:15	Toner Center Lounge	Biruk Tefera Unity in Diversity Individuals within institutions of higher education are shaped by the broader social context, which makes it important for institutions to have greater awareness about their role in reproducing inequality.	Psychology	Dr. Molly O'Connor
2:30-3:30	Saint Mary's first floor	Jeremy Heinle Hepatic Acetyl-CoA Carboxylase Expression and Neuropilin-1 and VEGF-Alpha in Newborn Mice (<i>Mus musculus</i>) exposed <i>in utero</i> to Atrazine In utero exposure to atrazine increased Acetyl-CoA Carboxylase expression in mouse liver tissue and decreased expression of Neuropilin-1 and VEGF-Alpha in mouse brain tissue.	Biology	Dr. Debra Martin
2:30-3:30	Saint Mary's first floor	Chelsea Hiltner, Mark Leonard The Impact the Invasive Shrub Japanese Barberry has on the Black-legged Tick Population in Southeastern Minnesota Black-legged ticks were collected in areas with and without Japanese barberry and the number of ticks collected in the two areas were compared.	Biology	Dr. Jeanne Minnerath, Dr. Benjamin Pauli
2:30-3:30	Saint Mary's first floor	Julia Boeve Is the Financial Crisis the Cause of Your Money Behavior? Spending habits go through trends. This study examines how an individual's money behavior changes after a financial crisis.	Business	Professor Andrew Scott
2:30-3:30	Saint Mary's first floor	Tara Nagy College Students Financial Literacy Capabilities Assessing the financial literacy capabilities of college students.	Business	Professor Andrew Scott

<u>Time</u>	<u>Location</u>	<u>Presenter and Presentation</u>	<u>Department</u>	<u>Advisor(s)</u>
2:30-3:30	Saint Mary's first floor	<p>Madaline Eichers, Daniel Lodwich Expression of Proteins TNF-α, HIF1-α, and VEGF-α in Response to Chronic Atrazine Exposure in Mice (<i>Mus musculus</i>) Atrazine, the most commonly used triazine herbicide in the United States, has been associated with a variety of adverse effects. This study focuses on the effect of atrazine on the inflammatory cytokine, TNF-α, and the signal transduction pathway of HIF1-α in <i>Mus musculus</i>.</p>	Chemistry	Dr. Debra Martin
2:30-3:30	Saint Mary's first floor	<p>Ryan Hippman Progress Towards the Synthesis of Crassalactone A and Development of Hetero Diels-Alder Methodology to Access Styryl Lactones A novel approach to synthesizing (+)-crassalactone A using a hetero Diels-Alder reaction as a key step to access a styryl lactone core was explored.</p>	Chemistry	Dr. Jaime Mueller
2:30-3:30	Saint Mary's first floor	<p>Gabrielle Reinartz Investigation of the Inclusion Complexes of Alpha-cyclodextrin with Anthranilic Acid-derived N,N,O-terdentate Ligands The stability of the host-guest complexes of alpha cyclodextrin and N,N,O-terdentate ligands were investigated using UV-Visible spectroscopy.</p>	Chemistry	Dr. Nathan Lien
2:30-3:30	Saint Mary's first floor	<p>Analiise Schadler Hepatic Protein and RNA Expression of GST Isotypes Mu and Pi are Affected by Atrazine Exposure during Pregnancy Exposure to the herbicide atrazine affects protein and gene expression in pregnant mice livers.</p>	Chemistry	Dr. Debra Martin
2:30-3:30	Saint Mary's first floor	<p>Reese Galewski, Samantha Janssen The Perception of Belongingness on a College Campus Between First-Generation Versus Continuing-Generation College Students The purpose of this study is to see how an individual's socioeconomic background influences their perception of belongingness on a college campus between first-generation versus continuing-generation college students.</p>	Psychology	Dr. Daniel Bucknam

<u>Time</u>	<u>Location</u>	<u>Presenter and Presentation</u>	<u>Department</u>	<u>Advisor(s)</u>
2:30-3:30	Saint Mary's first floor	<p>Summer Lardy, Hanna Potter, Brian Body Dissatisfaction in College Students in Response to Visual Stimuli</p> <p>Researchers will be presenting results based off a study that was conducted at Saint Mary's University. Participants filled out a survey that looked at the variables of body dissatisfaction, body type preference, BMI, social media, gender, attractiveness of self and others, and athleticism. Exposure to ideal body photos affects men and women of different sizes in different ways. The study explored body part preference in self and others, body size, athleticism, social media involvement, and perception of attractiveness on body image and body dissatisfaction.</p>	Psychology	Dr. Elizabeth Seebach
2:30-3:30	Saint Mary's first floor	<p>Mia Lloyd, Aimee Boggs, Nayeli Hernandez, Kayla Burck, Alexander Kocher, Samantha Janssen Alcohol Use and Abuse Among College Athletes and Non-Athletes: An Examination of Contributing Factors</p> <p>This study examines the potential contributions of gender, mental health, personality, athletic status, and body consciousness to alcohol use among college students.</p>	Psychology	Dr. Crystal Carlson
2:30-3:30	Saint Mary's first floor	<p>Shania Merchlewitz Instantaneous Emotional Change in Response to Theatre Lighting</p> <p>A presentation of the design process and results from research that explored the emotional change of audience members in response to color and theatre lighting.</p>	Psychology	Dr. Molly O'Connor
2:30-3:30	Saint Mary's first floor	<p>McKenna Messling, Kaycie Beissel Perceived Stress and Workload in Intercollegiate Varsity Athletics: The Difference Between Athletes and Non-Athletes</p> <p>The purpose of this study is to gain insight on Division III student athletes in comparison to non-athletes and the perceived stress levels they experience.</p>	Psychology	Dr. Daniel Bucknam
2:30-3:30	Saint Mary's first floor	<p>Caitlin Wallerus, Elizabeth Ciukaj Participation in the College Classroom: Apprehension, Desire, and Fear, Oh My!</p> <p>A survey was conducted to provide a more current understanding of influences on the frequency of classroom participation.</p>	Psychology	Dr. Daniel Bucknam
2:30-3:30	Saint Mary's first floor	<p>What is Gymtimidation? Factors that Influence Motivation to Exercise</p> <p>This study examined how gym environment, experience, and social factors contribute to motivation to exercise.</p>	Psychology	Dr. Molly O'Connor

<u>Time</u>	<u>Location</u>	<u>Presenter and Presentation</u>	<u>Department</u>	<u>Advisor(s)</u>
2:30-3:30	Saint Mary's first floor	Bailey Windsperger, Maria Nicole, Samuel Clark Influence of Stress and Anxiety on College Students Resulting in Illness and Coping Methods: Varsity Athletes vs Non-athletes Saint Mary's University students were surveyed, and their responses were used to compare students who are varsity athletes to non-varsity athletes on their illness frequency, coping strategies, and stress levels.	Psychology	Dr. Daniel Bucknam