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## SCHEDULE OVERVIEW

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<td>Bright Idea Grants</td>
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<td>Sociology &amp; Criminal Justice</td>
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<td>4:20 PM</td>
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<td>4:40 PM</td>
<td>Poster Presentations</td>
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<tr>
<td>5:00 p.m.</td>
<td>Senior Legacy Reception</td>
<td>BSC 170</td>
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The University community is invited to attend this reception celebrating the Senior Legacy Symposium participants.
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<tr>
<th>Title</th>
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<td>Brett Kostrzewski, Thomas Combes, Charles Gavin Robey, Stephanie Albanito</td>
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<td>Hand Launched Observer Unmanned Aircraft System</td>
<td>Jim Barbieri, Andrew Fields, Max Schwanebeck, Brian Leenheer, Eric Smith</td>
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<td>COPPER, An Infrared Imaging CubeSat</td>
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<td>Identification of mutations in the ( l(2)g ) complementation group and analysis of mutant phenotypes</td>
<td>Laura Hahn</td>
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<td>The Role of ATM in Glucose Transport for Skeletal Muscle</td>
<td>Michael McKuin, Allyson Reath</td>
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<td>EZ-ECG</td>
<td>Adam Abegg, Erich Boomgarden, Brian Kelly, Paul Paetow</td>
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<td>Handheld Heart Murmur Detection Device</td>
<td>Meghan Moll, Robert Lena, Ankit Agrawal, Peter Zylka</td>
<td>Biomedical Engineering</td>
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<td>Multiplanar Goniometer for Measuring Joint-Position Sense</td>
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<td>Angela Hoynacki</td>
<td>Chemistry</td>
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<td>Sarah Henn</td>
<td>Clinical Laboratory Science</td>
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<td>Diagnosis and Monitoring of Hemoglobinopathies in Haiti</td>
<td>Kulaya Srivitayarks, Taylor Sanders (Likert)</td>
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Bacterial Biofilms: Development and Use of Biofilm Quantification Procedures
Samantha Whittaker, Keiondra Harris, Michael Dahle
Clinical Laboratory Science

Analysis of independent and supported play behaviors in a child with Specific Language Impairment
Sara Bessette,
Communication Sciences and Disorders

Employing Evidence-Based Practice in Aphasia Treatment: A Comparative Analysis of SCA and CILT
Jessie Landmark,
Communication Sciences and Disorders

Awareness of the Relationship Between NIHL and iPod Usage
John Phillips Picart Cabañez,
Communication Sciences and Disorders

Big Brothers Big Sisters Helps Education Efforts in STL Public Schools
Elizabeth Menousek,
Communications

Bedtime Stories
Grace Zupancic,
Communications

Team Save a Tree: Online Course Evaluation Project
Kayla Crandall, Amy Huggins Melser, Caitlin Marshall, Raymond Le, Michael Sneed
Decision Sciences & It Management

Establishing and Operating a Missouri Health Insurance Exchange
Colin Moll,
Economics

Fairness of Fair Trade
David Distelrath,
Economics

The Positive Effect of Technology-Based Literacy Interventions
Sarah O'Connor,
Educational Studies

Does Having a Classroom Website Improve Student Preparedness?
Riley Thomas,
Educational Studies

Recon Robot
Justin Scherbring, Jen Liu, Logan Meltabarger
Electrical and Computer Engineering
**POSTER PRESENTATIONS**

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| **Narratives: A juxtaposition of Individuality and the Universal**  
Brian Lathan,  
*Fine and Performing Arts: Studio Art* |
| **Reflections on Art-Making**  
Paige Evelyn Pedersen,  
*Fine and Performing Arts: Studio Art* |
| **Collections**  
Kelcey Towell,  
*Fine and Performing Arts: Studio Art* |
| **Global Citizenship Experience – From the East to the West**  
Chenye (Christina) Lu,  
*International Business* |
| **A Mile in Their Shoes: Promoting Go! St. Louis Mature Mile Participation at a Culturally Diverse Senior Center**  
Sarah Detmer, Kelly Reese, Katy Stithem, Sarah Strom, Amanda Stubble, Kaitlin Vasatka  
*Interprofessional Education* |
| **Getting the Benefits from Diversity**  
Dana Powell,  
*Management* |
| **The Travel Tray Table: A Smart Tray for Your Wheelchair**  
Micahel Kelly, John Sanders, Dominique Turk, John Wendel  
*Mechanical Engineering* |
| **Arch Enemy**  
Gregory Keogh, Jesus Dominguez, Sean Holder, Alexander Shim  
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| **Design of an Electric Powered Speedboat for the Solar Splash Competition**  
Daniel Kouri, Jeffrey Orbe, Matthew Zinselmeir, Thuan Troung  
*Mechanical Engineering* |
| **Patient Exposure and Diagnostic Quality: An Analysis of Solid-State Semiconductor Technology in Myocardial Perfusion Imaging**  
Andrew Kalthoff,  
*Nuclear Medicine Technology* |
| **Patterns of Myocardial Uptake in FDG-PET/CT Scans: Impact of Changes in Left Ventricular Ejection Fraction.**  
Bridget Kistner,  
*Nuclear Medicine Technology* |
Same Day Appointments After FDG PET/CT: A Potential Radiation Exposure To Medical Personnel and General Public.
Amina Turnadzic,
Nuclear Medicine Technology

1 in 8 Women... Breast Cancer awareness in St. Louis
Brianna Cala,
Nursing

Media Approach to Increasing Calcium Consumption in Teen Girls
Michael Barrale, Rosa Gamboa, Cristina Lopez-Roman
Nutrition and Dietetics

Gooey Butter Cake with Stevia Sweetener
Christine Steinmetz, Katie Brown
Nutrition and Dietetics

Lower extremity weakness better predicts walking limitations in people with multiple sclerosis than lower extremity strength asymmetry.
Andrew Tigges,
Physical Therapy and Athletic Training

A Computational Study of Elliptic Encounters of Black Holes and Neutron Stars
Linda Holyoke,
Physics

Peace with Justice: The political development of the Catholic Church in Northern Ireland between the civil rights movement of 1967 and the IRA hunger strikes of 1981
Courtney Anvender,
Political Science

Peace and Justice: the International Criminal Tribunal for the Former Yugoslavia and Reconciliation in Bosnia-Herzegovina
Dino Hadzic,
Political Science

South African Women’s Organizations during the Transitional Period: Assessing the Value of Gender Mainstreaming as a Political Approach
Emily Reid,
Political Science

Project Citizen and Law: A Service Learning Experience
Bianca Howell, Samuel Heaney
Pre-Law Program

Collegiate Honors Preparatory Program
Sarah Bieser, Jessica Modock, Amanie Salem
Pre-Professional Health Studies
POSTER PRESENTATIONS

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Preemptive Exposure to Geriatrics: An Undergraduate Chronic Care Internship
John Eppensteiner, Maura Waldron
Pre-Professional Health Studies

The Effects of Time Pressure on Stereotypical Attitudes Towards Individuals of Varying Socio-Economic Status
Emily Frankoski, Caroline Hoyniak, and Laura Van Berkel
Psychology

Scaring the Straights: The Misconceptions of the Mental Illness Metaphor in Society
Bob Kincaid, Toni Law, Laura Welp, Michael Wunderlich
Psychology

Attributional re-training: Examining effects on adaptive performance
Carole Dobbins, Kelli Huber, Justin L’Hommedieu
Psychology

Examining the Emergence of Urban Economies
Katrina Becherer, Benjamin Stephan
Public Policy Studies
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**3:00 p.m.**

| 253 A | STEM Urban Outreach  
|       | Maria Barna  
|       | Bright Idea Grant |
| 251 A | Vonnegut’s New Religion in Cat’s Cradle  
|       | Jessica Courtyard  
|       | English |
| 254   | An Appraisal of the Paul Morphy Presentation Coin Silver Ewer and Goblets  
|       | Tara M. Bear  
|       | Fine and Performing Arts: Art History |
| 253 D | Germany and the European Union: Advantages from an Economical, Political, Socio-Cultural and Environmental Perspective  
|       | Eldin Duderija  
|       | Modern and Classical Languages |
| 251 B | The Ethics of Rationing and the Right to Healthcare  
|       | Danielle Meals  
|       | Philosophy |
| 253 B | Women and Childhood Trauma: An Examination of Abuse, Backgrounds and Career Choice in Rural Missouri  
|       | Shelley Womack  
|       | Women’s Studies |

**3:20 p.m.**

| 251 A | My job was to give them faith in their voice: The King’s Speech and the Culture of Authenticity  
|       | Samuel Ha  
|       | English |
| 254   | Monument of Monuments: Westminster Abbey  
|       | Ayla Snidker  
|       | Fine and Performing Arts: Art History |
| 253 A | New Interface for E-Prime Software Package  
|       | Rebecca Asbury  
|       | Mathematics and Computer Science |
| 253 D | Why Colombia’s route to peace runs through Washington DC  
|       | Max Ivan Rava  
|       | Modern and Classical Languages |
### ORAL/CREATIVE PRESENTATIONS

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<td>Public Health and Plato: An analysis of how Plato’s Theory of the Soul Applies to the Disparities in Public Health</td>
<td>Samiksha Tarun</td>
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<td>253B</td>
<td>A VOLATILE CONCOCTION: NAFTA, Women, Labor, and Violence on the Mexican Border</td>
<td>Katie Schlechter</td>
<td>Women's Studies</td>
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<td>Barbie Doll Dipped in Chocolate: The Pressure for Black Women to Attain White Women's Hair</td>
<td>Lorenzo Herman, S.J.</td>
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<td>The Musicology of Motion Pictures</td>
<td>Ryan Pacatte</td>
<td>Fine and Performing Arts: Music</td>
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<td>253A</td>
<td>Share Prediction Using Neural Networks</td>
<td>Ian Schillebeeckx</td>
<td>Mathematics and Computer Science</td>
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<td>253D</td>
<td>Rupture and rebellion: intersections of identity, gender, and sexuality in “A Long Line of Vendidas” by Cherríe Moraga</td>
<td>Lindsay Johnson</td>
<td>Modern and Classical Languages</td>
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<td>253B</td>
<td>A Service Leader’s Outlook on Transitions</td>
<td>Allison Hopke</td>
<td>Service Leadership Certificate Program</td>
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<td>Thrill Pricing</td>
<td>Nikko Collida</td>
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ORAL/Creative Presentations

253D  Medication Safety and Health Management for Children
Amanda Brown, Stephanie Ballard, Talitha Bates, Ellen Bettonville, Melanie Boyer, Jessiza Brezany, Richard Hornwell, Nicole Sherwood
Nursing

253A  Exploring Elementary Particles
Thomas O’Keefe
Physics

253B  North St. Louis: A case study of neglect and opportunity
Javier Trejo, Danny Jendusa
Public Policy Studies

251B  True Human Dignity: A Dialogue of Service Between Muslims and Christians
Amelia Christine Blanton
Theology

4:20 p.m.

253D  Karuna – Pediatric Pain and Palliative Care
Emma Johnson
Nursing

253A  Tachyon Theory
James Starke
Physics

251A  Legal Through Experience-PLS 410-Legal Internships
Jessica Courtway, Grant Farnsworth, Sheila Martinez, Joseph Frampus
Pre-Law Program

254  Corporate Citizenship: Arriving at a Definition
Vince Hernandez,
Sociology and Criminal Justice

251B  Moral Formation and Censorship: A Theological Response to Violence in the Media
Alexis Lassus
Theology

4:40 p.m.

253A  National Student Advertising Competition, Student Ad Club
Kristin Mommers, Kelcey Towell, Mikhail Avancena, Susan Donnellon, Wing Yu (Peony) Lee,
Lyle Wilson, Molly Ritthaler
Communications
ORAL/CREATIVE PRESENTATIONS

251B  Augustine's Confessions and al-Ghazali’s The Deliverance from Error: Conversion Narratives with Modern Implications
      Micah Miller
      Theology

251A  Trial Practice-Davis v. Happyland Toy Company
      Marlin Rollins, Mary Kuckelman, Helen Hutton, Michael Mason
      Pre-Law Program
ABSTRACTS

Brett Kostrzewski, Thomas Combes, Stephanie Albanito, Charles Gavin Robey
Aerospace Engineering
Faculty Sponsor: Larry G. Boyer

Super-Ex Supersonic Business Jet
The Super-Ex is a supersonic business jet that will carry up to 12 passengers including crew across transoceanic distances at supersonic speeds. This vast reduction in transit time and the allure of supersonic travel is what the Super-Ex team strives to achieve. In order to obtain this goal, preliminary research that focused on similar aircraft both military and concept jets was undertaken. Since this size of supersonic transport has never been built, many parameters such as a zero lift drag coefficient were estimated based on averages between supersonic fighter jets and supersonic transports and bombers. A constraint analysis was performed that included computations for takeoff, subsonic cruise, supersonic cruise, and stall speed. From the constraint plot, a design box for thrust to weight and wing loading was determined. With these values the calculations for sizing the fuselage, wing, and tail could commence. Following the constraint analysis was the total takeoff weight iteration. This code included several loops to optimize the number of passengers for a desired takeoff weight by calculating the range each configuration could achieve. The result is an output matrix that includes the range and weight for a given amount of passengers. Using the design box and weight, a wing area was chosen. Due to the unique requirements of supersonic travel, a very low aspect ratio wing was required while still providing the appropriate wing loading. A variation of a delta planform, using a very thin airfoil to reduce wave drag, will be sized to provide an adequate lift with minimum drag. After this was complete, the basic location and placement of the engines was decided. The overall three dimensional configuration of the aircraft, in addition to the cabin layout was generated. Lastly, the basic performance, such as balanced field length, drag and thrust of Super-Ex Jet was analyzed.

3:00-5:00pm BSC 171-173

Jim Barbieri, Andrew Fields, Max Schwanebeck, Brian Leenheer, Eric Smith
Aerospace Engineering
Faculty Sponsor: Larry G. Boyer

Hand Launched Observer Unmanned Aircraft System
The purpose of HALO UAS (Hand Launched Observer Unmanned Aircraft System) is to facilitate the quick gathering of intelligence. Often in areas of conflict there are situations that are too dangerous for humans to investigate, therefore HALO has the capability to be quickly assembled and then hand-launched to observe the area of interest using optical and infrared sensors. For increased mobility, the UAS needs to be extremely light weight and compact for transportation while still being able to accomplish the necessary objectives. If there is a hill or a series of buildings that require quick and easy surveillance, HALO will be the perfect aircraft for the mission. The portability of the HALO UAS will be achieved through an innovative collapsible wing design, which will be advantageous in conflict areas where the ability to carry cumbersome equipment might be limited.

3:00-5:00pm BSC 171-173

Maria Barna, Allison Cook, Gerrit Smith
Aerospace Engineering
Faculty Sponsor: Larry G. Boyer

COPPER, An Infrared Imaging CubeSat
The COPPER mission will study the use of a microbolometer array in low Earth orbit for taking infrared images of Earth’s cities, and Earth’s atmospheric and oceanic conditions. COPPER emphasizes the use of commercially available parts and a simple mission definition to allow an undergraduate team to successfully complete the fabrication of the CubeSat for a March 2012 launch. COPPER was chosen by the NASA CubeSat Launch Initiative to be launched as an auxiliary payload on a NASA mission, with integrated hardware delivery to the launch vehicle provider occurring in summer 2011.

3:00-5:00pm BSC 171-173
Lorenzo Herman, S.J.  
African American Studies  
Faculty Sponsor: Karla Scott, Ph.D.  

"Barbie Doll Dipped in Chocolate: The Pressure for Black Women to Attain White Women's Hair"  
The black woman's natural hair texture is not considered beautiful by European standards and unfortunately is vilified in black communities. Hair texture and lighter skin complexion are always interlocking issues that presents a double jeopardy for black women-racism and sexism. The black woman's physical appearance has always been under attack and scrutiny within the European imagination. Also, the U.S. courts have set a legal precedence that determines what hairstyles for black women are mutable and immutable/ White feminity is almost entirely predicated upon black female hatred.

3:40 PM  BSC 251B

David Gruenewald  
Biology  
Faculty Sponsor: Robert D. Aldridge, Ph.D.  

Identification of the Female Sex Pheromone in African Brown House Snakes, Lamprophis fuliginosus  
Experimentation was designed to identify the chemical composition of the female sex pheromone in the snake species Lamprophis fuliginosus. Sex pheromones are chemicals that communicate reproductive information and elicit sexual behavior in conspecifics. After taking skin swabs of L. fuliginosus males, attractive females, and non-attractive females, samples were chemically analyzed using high performance liquid chromatography (HPLC) for comparisons. The results indicate that the steroid 5α-Cholest-7-en-3β-ol (lathosterol) is present only in attractive females. Application of lathosterol to non-attractive females elicited an increased attraction from males. Results indicate lathosterol may be a component of the female sex pheromone in L. fuliginosus.

3:00-5:00pm  BSC 171-173

Laura Hahn  
Biology  
Faculty Sponsor: Susan Spencer, Ph.D.  

Identification of mutations in the l(2)g complementation group and analysis of mutant phenotypes  
Epidermal Growth Factor Receptor (EGFR) signaling is regulated by many factors, including the cell adhesion molecule echinoid (ed) (Bai et al., 2001). The l(2)g group of mutations have been shown to interact with ed (deBelle et al., 1993) and therefore may also be modifiers of EGFR activity. We have used complementation with flies containing deletions and transposon-mediated mutations to try to identify the gene affected by the l(2)g mutations. Here we present evidence that the l(2)g complementation group contains mutations in the CG3921 gene, a large transmembrane protein of unknown function. We also examine the phenotype produced by l(2)g mutations during Drosophila eye development.

3:00-5:00pm  BSC 171-173

Michael McKuin, Allyson Reath  
Biology  
Faculty Sponsor: Jon Fisher, Ph.D.  

The Role of ATM in Glucose Transport for Skeletal Muscle  
Insulin resistance is the major factor in the developing of type II diabetes mellitus. It has been found that a protein called ATM is involved in glucose transport into the cell, although the pathway is not completely understood. Research suggests that ATM affects glucose transport by activating AMPK. Thus, we hypothesized that ATM is an upstream activator of AMPK, leading to increased glucose transport. However, we found that the phosphorylation of AMPK was not inhibited by the lack of ATM. These results suggest that although ATM is involved in glucose transport, it is not affecting AMPK phosphorylation. A better understanding of how ATM is involved in glucose transport into the cell could lead to identifying an ATM target, and leading to new treatments for type II diabetes.

3:00-5:00pm  BSC 171-173
Adam Abegg, Erich Boomgarden, Brian Kelly, Paul Paetow  
Biomedical Engineering  
Faculty Sponsor: Gary Bledsoe, Ph.D.

**EZ-ECG**

Electrocardiograms enable physicians to determine the status of a patient’s heart. Due to high price and accessibility issues, patients do not have an ECG performed regularly. An affordable, easy-to-use, easily-accessible device that can detect and alert a patient of arrhythmias would solve this problem. Our device will transfer a heart’s electrical characteristics from a patient’s chest to a small apparatus which can archive heart signals and upload them onto a computer with access to our diagnosing system. Recorded signals can then be sent to a cardiologist for further analysis or kept on record for future reference.

3:00-5:00pm BSC 171-173

Meghan Moll, Robert Lena, Ankit Agrawal, Peter Zylka  
Biomedical Engineering  
Faculty Sponsor: Gary Bledsoe, Ph.D. & Joanne Wagner, Ph.D.

**Handheld Heart Murmur Detection Device**

In developing countries, medical detection of heart murmurs can be difficult to complete. Electronic stethoscopes on the market can detect murmurs, but are expensive and require additional software. Our affordable product will record and detect heart murmurs. The device uses a stethoscope to acquire a signal to be analyzed in a microprocessor. The signal is filtered and processed to determine the presence and cause of a murmur. The handheld device can then play the sound back through a speaker. This product has the potential for use in a variety of applications including rural areas, developing countries, clinics, and health screenings.

3:00-5:00pm BSC 171-173

Matt Ruder, Theodore Kremer  
Biomedical Engineering  
Faculty Sponsor: Gary Bledsoe, Ph.D.

**Multiplanar Goniometer for Measuring Joint-Position Sense**

Proprioception describes an individual’s sense of the relative position of their extremities. Modern methods of measuring proprioception are quantitative in nature, but are limited by imprecision. This device will provide an innovative solution to this problem by providing precise proprioception measurements of angle displacement, angular velocity, and surface electromyography. The device will be capable of measuring three planes of motion independently. The device will be composed of three main hardware components, including a foot brace, a goniometer, and the base. A graphic user interface will intuitively control the device, display results, and give an output data file for future analysis.

3:00-5:00pm BSC 171-173

Maria Barna  
Bright Idea Grant  
Faculty Sponsor: Todd Foley

**STEM Urban Outreach**

The goal of STEM Urban Outreach is to impact excitement and enthusiasm to local students, providing motivation to study STEM coursework. SUO provides students with hands-on projects that demonstrate STEM principles. SUO allows students to have fun while learning about STEM fields and encourages engaging with STEM subjects. Students who benefit from STEM Urban Outreach will see SLU students’ passion for STEM fields and will be encouraged to consider a future in STEM. STEM Urban Outreach is funded by a Bright Idea Grant, Student United Way-St. Louis, and the Alumni Board of Parks College of Engineering, Aviation and Technology.

3:00 PM BSC 253 A
Thermodynamic characterization of RNA duplexes containing non-natural 1x2 nucleotide internal loops.
A recent study (1) reported the sequences and stabilities of the most frequently occurring RNA 1x2 nucleotide internal loops in nature. Does nature favor the most stable internal loop sequences or are there other factors that affect the frequency of occurrence in nature? In order to address this question, a variety of 1x2 nucleotide loop sequences that rarely occur in nature were optically melted in order to determine stability. The stability of these rare sequences will be compared to the stabilities of the most frequently occurring sequences.

3:00-5:00pm  BSC 171-173

Sarah Henn, Jennifer Stamm
Clinical Labrotary Science
Faculty Sponsor: Rita Heuertz, Ph.D., MT (ASCP)

Penicillin Susceptibility and Innate Host Response of Staphylococcus aureus
Staphylococcus aureus is the cause of many different diseases. Penicillin is the recommended treatment; however, a high percentage of S. aureus are resistant. Superior sensitivity in detection of penicillin-resistant strains is thereby important. One goal of this study was to identify a reliable method for detection of phenotypic penicillin susceptibility in S. aureus. A novel host response against S. aureus has been identified, neutrophil extracellular traps (NETs); however, its physiologic relevance remains unknown. Another goal was to determine if NETs were present in S. aureus infections thereby providing evidence of their importance in the innate immune host response.

3:00-5:00pm  BSC 171-173

Kulaya Srivitayarks, Taylor Sanders (Likert)
Clinical Labrotary Science
Faculty Sponsor: Tim R. Randolph, Ph.D., MLS

Diagnosis and Monitoring of Hemoglobinopathies in Haiti
Sickle hemoglobin occurs at a rate of 15% in Haiti but due to lack of testing, the disease is fatal. Hemoglobin C has also been identified in Haitian patients. Following our recent development of a new test for sickle cell [Modified Hemoglobin Solubility Test (MHST)], we are now presenting a method to measure HbF to determine response to hydroxyuria treatment for sickle cell and a method to identify HbC. The HbF method is based on the selective elution of HbS from RBCs using sodium citrate and the HbC method is based on intracellular HbC crystal induction using hypertonic saline solutions.

3:00-5:00pm  BSC 171-173

Samantha Whittaker, Keiondra Harris, Michael Dahle
Clinical Labrotary Science
Faculty Sponsor: Rita Heuertz, Ph.D., MT (ASCP)

Bacterial Biofilms: Development and Use of Biofilm Quantification Procedures
The National Institutes of Health have identified that 80% of all chronic infections are due to biofilm-associated bacteria. Identification of biofilm prevalence has led to the realization that these bacteria cause medical device-related infections, cystic fibrosis pneumonia, chronic urinary tract infections and chronic wound infections. Importantly, biofilm is associated with antimicrobial resistance and treatment failure. For these reasons, development of biofilm quantification procedures and demonstration of technical use have been undertaken. Different strains of Gram positive (Staphylococcus aureus) and Gram negative (Pseudomonas aeruginosa) pathogenic bacteria have been assessed for biofilm production by different methods and after different treatments.

3:00-5:00pm  BSC 171-173
Sara Bessette  
*Communication Sciences and Disorders*  
*Faculty Sponsor: Sara Steele, Ph.D.*

**Analysis of independent and supported play behaviors in a child with Specific Language Impairment**  
This study explored the different play behaviors exhibited by a child with specific language impairment (SLI) and a child with typical language during free play at a university early childhood center. Video was segmented into 10 second intervals. Video was then coded to determine time spent in onlooker, solitary, parallel, associative, and cooperative play with and without the support of a clinician. Clinician support was coded into nonverbal play modeling, verbal modeling, prompting, observing, and not present. Clinical implications for supporting more complex play behavior will be discussed.

3:00-5:00pm  BSC 171-173

Jessie Landmark  
*Communication Sciences and Disorders*  
*Faculty Sponsor: Travis Threats, Ph.D.*

**Employing Evidence-Based Practice in Aphasia Treatment: A Comparative Analysis of SCA and CILT**  
One of the three components of Evidence-based practice (EBP) is the utilization of results from high quality research to inform clinical decision making. However, often the research is contradictory. In this project, the theoretical and research foundations of two fundamentally divergent approaches to language therapy for persons with aphasia are explored. This project will thus demonstrate the difficulties of employing research to choose therapy approaches for persons with aphasia. The author will propose a comprehensive study that would provide direct comparison to these two competing schools of thought.

3:00-5:00pm  BSC 171-173

John Phillips Picart Cabañez  
*Communication Sciences and Disorders*  
*Faculty Sponsor: Travis Threats, Ph.D.*

**Awareness of the Relationship Between NIHL and iPod Usage**  
The purpose of this project is to reveal the growing concern for Noise Induced Hearing Loss (NIHL) patients in young adults ages 18-30, with an emphasis on the usage of iPods and insert headphones. The number of young adult iPod users who have suspected or shown hearing loss will be discussed. In an age of technology where iPod batteries have a playback time of up to 40 hours and headphones act as personal surround sound systems, it is certain that the number of NIHL patients will only increase.

3:00-5:00pm  BSC 171-173

Elizabeth Menousek  
*Communications*  
*Faculty Sponsor: Amber Hinsley, Ph.D.*

**Big Brothers Big Sisters Helps Education Efforts in STL Public Schools**  
My project illustrates the journalistic skills I have learned, specifically in online journalism. My class is creating a website with reports on the neighborhood in St. Louis just north of campus. I specifically focused on their education efforts. Because education in that area often receives a poor reputation, I chose to approach my project from the angle of Big Brothers Big Sisters, a group that is trying to make a positive impact. Through my story, I was able to practice my journalistic skills while building awareness of a positive force in the city.

3:00-5:00pm  BSC 171-173

Grace Zupancic  
*Communications*  
*Faculty Sponsor: Mary Gould*

**“Bedtime Stories”**  
My project, entitled “Bedtime Stories”, tells the story of one family’s experiences with memories remembered and forgotten by exploring the relationship between those recollections and family tradition. What is it that individuals remember from childhood? What memories are easily forgotten when thinking of everyday rituals and traditions? Why do some family members remember and forget certain experiences? In this final senior project, I show how a common ritual like getting ready for bed can be common and unique for some family members and forgotten by others.

3:00-5:00pm  BSC 171-173
Communications
Faculty Sponsor: William Tyler

National Student Advertising Competition, Student Ad Club
Project: Develop an Integrated Marketing Communication Plan for the American Advertising Federation annual competition.
Assignment: Produce a 32-page Plans Book involving research, strategies, concept and executions and make a formal presentation before judges and large audience.
Communication Objective: Change perception of J.C. Penney from outdated to modern and trendy among 25-34 age females.
Concept: ―J.C. Penney – Inspiring Second Glances‖ will convince this important audience that J.C. Penney offers head-turning fashions to make women look great and feel great.
Marketing Objective: Increase share by 3% within one year for this important market segment.
Team Goal: Learn and impress!
4:40 PM BSC 253A

Kayla Crandall, Amy Huggins Melser, Caitlin Marshall, Raymond Le, Michael Sneed
Decision Sciences & It Management
Faculty Sponsor: Cindy LeRouge

Team Save a Tree: Online Course Evaluation Project
Saint Louis University currently does not function with a uniform process for student completed course evaluations. Presently, different schools administer and complete the evaluations using various standards. Adopting a uniform course evaluation will increase efficiency and satisfy many objectives including eliminating administrative labor hours, more timely feedback, consistency with evaluations, continual innovation by increasing efficiency and accuracy, and furthering the “green” initiative. Our intended system will allow course evaluations to be completed online, in a confidential setting, for the ultimate use of administrators and instructors.

We will share the system prototype as well as various deliverables used to analyze the system and implementation plans.
3:00-5:00pm BSC 171-173

Economics
Faculty Sponsor: Heather Bednarek, Ph.D.

Establishing and Operating a Missouri Health Insurance Exchange
A key component of the massive healthcare legislation passed in March 2010 is a mandate requiring states to set up a health insurance exchange by 2014. An exchange is an entity whose primary function is to create a more organized and competitive marketplace in order to provide consumers with higher quality products at lower prices. In the context of health insurance, an exchange attempts to provide an array of affordable health insurance plans that cover some set of desired benefits. An exchange will be successful if it can efficiently enroll a large number of individuals into health insurance plans. My research provides some insight into how a Missouri exchange can achieve this goal.
3:00-5:00pm BSC 171-173

Economics
Faculty Sponsor: Bonnie Wilson, Ph.D.

Fairness of Fair Trade
This project examines the impact of Fair Trade (FT) on both producers and consumers to decide if the Fair Trade movement achieves its objectives of: greater sustainable development, improving trading conditions, and creating a fairer economic system, and if there are better methods for encouraging equity. Among consumers there is a growing interest in purchasing FT products to support these producers in lieu of their free trade counterparts. Unfortunately, good intentions do not necessarily lead to positive results. Using the Ricardian, Heckscher-Ohlin, and Standard Trade models, I examine the theoretical impact of FT on market outcomes. Then, I compare these findings to the objectives of the FT movement. Finally, the ‘fairness’ of FT is assessed based on commonly held notions of fairness as well as those purported by Nozick and Rawls.
3:00-5:00pm BSC 171-173
Mark Burch  
**Economics**  
*Faculty Sponsor: Dr. Hailong Qian*

**Fool’s Gold: An Econometric Analysis of the Rise of Gold**
The spot price of gold presently stands near record highs. Similarly, the economic climate of the 2000s has been marked by sharp rises in the value of various investments (the dot.com bubble in 2001, Real Estate in 2006-2007, Oil in 2008) only to be followed by an equally dramatic decline. As such, we consider gold as perhaps the next addition to this list given its recent ascent to record levels. This is accomplished by studying the historical relationship between the spot price of gold and a variety of variables in an attempt to precisely model its behavior as a function of such economic factors and, to this end, derive a function capable of accurately forecasting its “true” present value.

3:40 PM  BSC 251A

Nikko Collida  
**Economics**  
*Faculty Sponsor: Heather Bednarek, Ph.D.*

**Thrill Pricing**
As the American and worldwide entertainment industries have grown more and more competitive, strategically planned ticket pricing structures have become critical in the organization’s success or failure. In the amusement park industry in particular, where both costs and revenues are exceedingly high, a wide array of pricing models have been implemented, some with much more success than others. Thrill Pricing explores the current pricing structures used by the major amusement park industry operators and goes on further to make suggestions for changes as the industry moves into the future.

4:00 PM  BSC 251A

Sarah O’Connor  
**Educational Studies**  
*Faculty Sponsor: Ann Rule, Ph.D.*

**The Positive Effect of Technology-Based Literacy Interventions**
This study serves to examine the positive effect that 20 minutes a day of technology-based literacy interventions have on struggling kindergarten students. Nine children were monitored over a month; three used ImaginationStation, three used ReadingEggs, and three children received no intervention. Data was tracked through the progress monitoring on the computer programs, as well as through the assessment of all nine children’s reading levels before and after the interventions. Given the previous research that has been done, it is believed that a technology-based literacy intervention can increase reading success as the programs are highly engaging and interactive.

3:00-5:00pm  BSC 171-173

Riley Thomas  
**Educational Studies**  
*Faculty Sponsor: Ann Rule, Ph.D.*

**Does Having a Classroom Website Improve Student Preparedness?**
The purpose of this study was to determine the effects of a classroom website on student preparedness. After observing a 4th grade classroom, a common pattern of students not being prepared and parents not being informed emerged. I created a website to ensure a more direct link from the classroom to the home, than just relying on students to give notes to parents and to not misplace study guides. As a result, fewer notes were reprinted and parents were more informed. This increased preparedness led to a more effective use of class time because student had handouts and instruction was no longer interrupted.

3:00-5:00pm  BSC 171-173

Justin Scherbring, Jen Liu, Logan Meltabarger  
**Electrical and Computer Engineering**  
*Faculty Sponsor: William J. Ebel, Ph.D.*

**Recon Robot**
The ECE Team at SLU has developed RBot, a military reconnaissance robot, that eliminates deficiencies found in modern military robots (weight, cost, transportability). Having a total weight of less than 5 pounds, Rbot has the capability to be thrown up to the target location. Once the robot is in position, another user operates the robot using real time video and a controller from over 700 feet away. This is achieved with a unit cost approximately one-sixth the nearest competitor’s. Rbot provides exponentially more flexibility while keeping the users away from harm in a much more practical, cost effective package.

3:00-5:00pm  BSC 171-173
Jessica Courtway

English

Faculty Sponsor: Ruth Evans, Ph.D.

Vonnegut's New Religion in Cat's Cradle
An ardent Atheist, Kurt Vonnegut was a lifelong opponent to organized religion. For his Master's Thesis in Anthropology, he dismissively paralleled religious narratives to childhood stories; a thesis that would be ultimately rejected. However, Vonnegut understood the benefit of religious communities for the lonely human condition and thus advocated a "new" religion free from the flaws of the organized and doctrinal. He thus created this in the absurd religion of Bokononism in his novel Cat's Cradle. Its creation would contribute to the novel's success and allow Vonnegut to finally receive the Master's Degree that had eluded him 30 years prior.

3:00 PM  BSC 251A

Samuel Ha

English

Faculty Sponsor: Ruth Evans, Ph.D.

“My job was to give them faith in their voice”: The King’s Speech and the Culture of Authenticity
Charles Taylor in various works describes an idea operative in Western culture which he calls the ideal of authenticity. Authenticity is an ideal that sprung from the individualism pioneered by Descartes, Locke, and Rousseau and arose alongside the decline of social hierarchy and its replacement with inherent dignity. Pursuant to the idea that films have become the lingua franca of our age, this paper, while exploring the film’s cinematic language, examines the way in which The King’s Speech (2010) reflects the culture of authenticity’s necessity for the creation and construction of an original identity formed dialogically, frequently in opposition to the rules of society, against horizons of significance.

3:20 PM  BSC 251A

Tara M. Bear

Fine and Performing Arts: Art History

Faculty Sponsor: Bradley Bailey, Ph.D.

An Appraisal of the Paul Morphy Presentation Coin Silver Ewer and Goblets
The Paul Morphy Coin Silver Ewer and Goblets belong to the World Chess Museum opening in Saint Louis. The purpose of this appraisal was to establish a reasonable value at which the museum should insure these objects.

The approach, as laid out by the American Society of Appraisers, is market comparison. Two markets were established: the American fine silver market and the chess memorabilia market. Eighteen comparable objects were analyzed in order to establish a value for the silver, without consideration to chess history. A multiplier or chess premium was then determined in order to reach a conclusion of value.

3:00 PM  BSC 254

Ayla Snidtker

Fine and Performing Arts: Art History

Faculty Sponsor: Cynthia Stollhans

Monument of Monuments: Westminster Abbey
This website was the product of a class assignment in my Gothic Art class taught by Dr. Cathleen Fleck in the Art History Department. After a visit to the Westminster Abbey during a trip to London around Christmas of 2009, I became intensely interested in the church and its history. As usual with most vacations, the itinerary prevailed, and the British Museum was calling my name so my visit to this exquisite church was cut shorter than I would have liked. However, I was presented the wonderful opportunity to study the church further during this class, which I took advantage of fully. This was a wonderful class and I thoroughly enjoyed this project and the semester with Dr. Fleck. Enjoy.

3:20 PM  BSC 254

Ryan Pacatte

Fine and Performing Arts: Music

Faculty Sponsor: Robert Hughes, Ph.D.

The Musicology of Motion Pictures
Throughout time many techniques have been used to enhance motion picture with sound. These techniques have been perfected by composers like Wagner as seen in his famous operas and Williams and Zimmer in their famous films. Because of music and sound, the movie viewing experience has significantly evolved from silent films of the 1900’s, to the epic motion pictures of today. Music and movies are symbiotic, meaning that one is not complete or as effective without the other to support it. The music is added in to communicate and form an emotional connection to the audience.

3:40 PM  BSC 254
John Donovan  
Fine and Performing Arts: Music  
Faculty Sponsor: Robert Hughes, Ph.D.

Why I Recorded a CD in my Bedroom: Opportunities for Independent Musicians in the 21st Century  
The rapid advancement of technology over the past decade has created many new opportunities for independent musicians. As a singer/songwriter I have explored and utilized these opportunities, which include online networks of musicians and more access to home-recording equipment. In the summer of 2010 I recorded a CD of original music in my bedroom and have used modern, and mostly free, techniques to help my music reach a wide audience.

4:00 PM  BSC 254

Brian Lathan  
Fine and Performing Arts: Studio Art  
Faculty Sponsor: Sharron Pollack

Narratives: A juxtaposition of Individuality and the Universal  
I use art to explore my thoughts; these come from experiences, beliefs and narratives I've been introduced to throughout my life and my education. I focus on figurative imagery, concepts of good and evil, life and death and the extremes of human nature.

The use of fantasy makes my work more allegorical. I remove the viewer's personal connection and then, with universal concepts, I draw them back in hoping that this new perspective will broaden their insight into their own thoughts. Through participation and service in national/international events I have increased my understanding of art and pushed my abilities farther.

3:00-5:00pm  BSC 171-173

Paige Evelyn Pedersen  
Fine and Performing Arts: Studio Art  
Faculty Sponsor: Theodore Wood

Reflections on Art-Making  
In a few short years at SLU, my work has become something of its own. I do not see any of my work as a culmination of my years here, but more importantly as a reflection of the mindfulness and yearning for growth that SLU instills in its students. As in life, art-making is a thrilling adventure that brings growth and wonder to its maker. There is fear in the undertaking, comfort in the ritual, frustration in the difficulties, and happiness in the success. Each finished work holds not only the story of its contents, but also the epic of its creation.

3:00-5:00pm  BSC 171-173

Kelcey Towell  
Fine and Performing Arts: Studio Art  
Faculty Sponsor: Martin Brief

Collections  
My art cannot be considered a thesis, a summation of senior year, or even my four short years here -- it is a collection. My collection of work is an illustration of my life, and in turn my life has shaped my work. These pieces represent anything I have ever bought, forgotten, rejected, loved, lost, and so much more. I take great pleasure in the creation, the reflection, and the rejection of each piece; each is a stepping-stone to the next. My time at SLU, as an integral part of my life, has shaped my work in an invaluable way.

3:00-5:00pm  BSC 171-173

Chenye (Christina) Lu  
International Business  
Faculty Sponsor: Seung Kim, Ph.D.

Global Citizenship Experience – From the East to the West  
The project is based on study abroad experience obtained by an Asian student. The experience contributed to the development the student’s cross culture experience, worldwide view and professional knowledge. In summer 2009, the student studied abroad in Madrid, Spain. The individual went to Panama with a group of students in January 2011 for an undergraduate course for International Business, which was designed to give students practical understandings of business operation in emerging markets. The trip to Europe and Central America helped the student to explore, understand and appreciate different culture. The project will display pictures from student’s both trips.

3:00-5:00pm  BSC 171-173
**Sarah Detmer, Kelly Reese, Katy Stithem, Sarah Strom, Amanda Stubble, Kaitlin Vasatka**  
*Interprofessional Education*  
*Faculty Sponsor: Ginge Kettenback*

**A Mile in Their Shoes: Promoting Go! St. Louis Mature Mile Participation at a Culturally Diverse Senior Center**

An interprofessional team was created, integrating expertise from various health majors to better serve our community. Determining exercise involvement as a primary health-need for seniors, we promoted the Go! St. Louis Mature Mile walk. Working at a senior center, we identified four diverse populations: people with disabilities, people from Bosnia, people from Vietnam, and a general population. After gauging initial interest, we identified barriers for each group, using skills from our various disciplines to create plans of care to promote participation. We planned interventions for each group during repeat visits to promote involvement. Following the walk, we determined which interventions were successful and established a plan for long-term participation.

3:00-5:00pm BSC 171-173

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**Dana Powell**  
*Management*  
*Faculty Sponsor: Carl Maertz*

**Getting the Benefits from Diversity**

The purpose of this project is to examine the effects of diversity in the workplace. Through close analysis of empirical studies and reviews, I have discovered the many potential positives and negatives outcomes of diversity as it applies to work groups and organizations. With a nationwide emphasis on diversity, it has become a major factor of concern for managers and organizations. However, ensuring that companies are diverse may not only be necessary to comply with the law but can also provide a competitive advantage. I distill key points to minimize potential negatives while learning how to reap the positives benefits.

3:00-5:00pm BSC 171-173

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**Rebecca Asbury**  
*Mathematics and Computer Science*  
*Faculty Sponsor: Michael Goldwasser, Ph.D.*

**New Interface for E-Prime Software Package**

The purpose of this new software interface is to improve the usability of the E-Prime1.x line of software for intermediate-level users. E-Prime is used by psychologists to create and run computer-based experiments. Though it is widely used, the current interface is awkwardly designed, difficult to learn, and does not allow for non-deterministic experiments. This interface, written in Java, will give the user tools to more extensively modify a basic experiment, as well options to more efficiently test experiments. The finished product should prove useful to several psychology labs at SLU.

3:20 PM BSC 253A

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**Ian Schillebeeckx**  
*Mathematics and Computer Science*  
*Faculty Sponsor: Michael Goldwasser, Ph.D.*

**Share Prediction Using Neural Networks**

The project presented is an attempt at Share Prediction using Neural Networks initialized by Nguyen-Widrow weight initialization and Standard Backpropagation with momentum training. Using economically relevant training, I have made predictions on share values of individual companies. The primary concern with the project was to develop and implement software to give the ability to develop a neural net into a functional model, to use this model to predict share values, and finally to visualize the model and its architecture. The predictive model, although far from being adequate for trade consultation, proves the developed software to be extremely function, robust, and customizable.

3:40 PM BSC 253A
Micahel Kelly, John Sanders, Dominique Turk, John Wendel  
*Mechanical Engineering*  
*Faculty Sponsor: Sridhar Condoor, Ph.D.*

**The Travel Tray Table: A Smart Tray for Your Wheelchair**
Wheelchair users face a number of challenges in their day-to-day lives, such as eating, writing, etc. There are wheelchair tray tables available in today's market; however, none of them are adjustable or portable. Our product is an innovative, new tray table with adjustable wheelchair attachments. The table is composed of several planks linked together by restricted hinges, which allow it to be rolled in one direction, but not the other. This enables the tray to be stored and transported easily. The Travel Tray Table could help millions of people lead easier lives.

3:00-5:00pm BSC 171-173

Gregory Keogh, Jesus Dominguez, Sean Holder, Alexander Shim  
*Mechanical Engineering*  
*Faculty Sponsor: Sridhar Condoor, Ph.D.*

**Arch Enemy**
The purpose of the project is to design, build and compete with a 120 combat robot for the 2011 Robogames held on April 15 in San Mateo California. Combat robots are useful in the practical applications of system durability and creativity. A combat robot is radio controlled robot designed to compete in a survival of the fittest battle. The robot has to be able to mechanically attack the other robot as well as defend against their assaults. SLU's combat robot will be deployed in an arena for a face to face competition in which they fight each other for three minutes until one is deemed non-functional. The robot design, construction, and testing maximizes team design creativity while applying all the teams past engineering curriculum. The robots weapon uses a vertical spinning steel bar to attack its components and utilizes a steel internal truss structure for durability. The armor will be composed of thick titanium plates. Three motors are used to run the robot, one for each wheel and one for the weapon, also three Li-Poly batteries are used to provide enough power to the components.

3:00-5:00pm BSC 171-173

Daniel Kouri, Jeffrey Orbe, Matthew Zinselmeir, Thuan Troung  
*Mechanical Engineering*  
*Faculty Sponsor: Sridhar Condoor, Ph.D.*

**Design of an Electric Powered Speedboat for the Solar Splash Competition**
Solar Splash is an annual international electric and solar powered speedboat competition. The competition consists of a technical inspection, the on-the-water events, and a technical report. SLU boat design maximizes the ability to compete in these events. The hull is designed in Rhinoceros software. The design analysis involves hydrostatic simulations, which help in trade-off studies between stability, speed, and weight. For the sprint and slalom competitions, the only source of power will be from the batteries whereas for the endurance, the power comes from both the batteries and the solar panels.

3:00-5:00pm BSC 171-173

Eldin Duderija  
*Modern and Classical Launguages*  
*Faculty Sponsor: Evelyn Meyer*

**Germany and the European Union: Advantages from an Economical, Political, Socio-Cultural and Environmental Perspective.**
My thesis discusses Germany's advantages and disadvantages of European Union membership from an economical, political, socio-cultural and environmental perspective. Despite some disadvantages, Germany benefits significantly from its efforts within the Union as do other member states. It is my belief that the future of the European Union heavily depends on leaders such as Germany, who with the help of other member-states, guide the Union to greater economic prosperity and political stability. My research shows the benefits of Germany's involvement with the Union and vice versa, especially as Germany and the world embark on a more globalized journey in the future.

3:00 PM BSC 253D
Max Ivan Rava  
*Modern and Classical Launguages*  
*Faculty Sponsor: Olga Arbelaez, Ph.D.*

**Why Colombia's route to peace runs through Washington DC**

The purpose of my research is to show that Colombia has suffered from cyclical violence and has been exploited ever since the Spanish conquistadors arrived in the sixteenth century, and how this country’s unequal relationship with the United States has perpetuated Colombia’s suffering and stunted its development. My approach is to examine history, the current state of US-Colombia relations, and the interventionist policy that has not made significant strides in curbing the perceived threats Colombia poses to the United States. The analysis is grounded in anthropological political economy theory, which takes a diachronic approach that allows me to draw on historical events and the present, and project into the future. Through this lens I will provide evidence that the United States needs to change its policy towards Colombia so that Colombia can finally heal itself.

3:20 PM BSC 253D

Lindsay Johnson  
*Modern and Classical Launguages*  
*Faculty Sponsor: Karen A. Secrist, Ph.D.*

**Rupture and rebellion: intersections of identity, gender, and sexuality in “A Long Line of Vendidas” by Cherrie Moraga**

For the majority of Latinas, the ability to express their own sexual identity conflicts fundamentally with the passive role traditionally dictated to them by dominant cultural ideologies. In challenging these patriarchal systems, Latinas—here, specifically, Chicanas—are classified as traitors, “malinchistas.” This paper advances two themes within Cherrie Moraga’s autobiographical essay, “A Long Line of Vendidas”—the figurative reconstruction of sexual desire (1) and the dichotomy between belonging and betrayal that empowers that sexual desire (2). In effect, this essay analyzes her right to passion, visibility, and inclusion in a society that aims to systematically repress her transgression.

3:40 PM BSC 253D

Andrew Kalthoff  
*Nuclear Medicine Technology*  
*Faculty Sponsor: Crystal Botkin & William Hubble*

**Patient Exposure and Diagnostic Quality: An Analysis of Solid-State Semiconductor Technology in Myocardial Perfusion Imaging**

**OBJECTIVE:** Solid-state semiconductor technology (SD) has allowed faster imaging times and higher image quality in nuclear medicine. The purpose of this study was to evaluate the diagnostic quality of reduced-dose Myocardial Perfusion Imaging (MPI) studies performed on an SD.

**METHODS:** 40 past MPI studies were randomly chosen for retrospective review. 20 studies were performed with the normal dosage of tracer, 20 studies were performed with a lower dosage of tracer. A board-certified radiologist performed a blind reading.

**RESULTS:** All 40 studies had “excellent” quality.

**CONCLUSION:** There is no observable change in image quality for low-dose MPI studies.

3:00-5:00pm BSC 171-173

Bridget Kistner  
*Nuclear Medicine Technology*  
*Faculty Sponsor: Crystal Botkin & William Hubble*

**Patterns of Myocardial Uptake in FDG-PET/CT Scans: Impact of Changes in Left Ventricular Ejection Fraction.**

**Purpose:** The purpose of this study was to determine if changes in left ventricular ejection fraction (EF) affect myocardial FDG uptake (MU) in PET/CT scans.

**Methods:** Patients (n=20) were randomly selected from our database who have had at least 2 PET/CT scans and 2 RVG’s within 2 months of each other. A log was kept to record both EF and MU.

**Results:** Eleven patients revealed a direct relationship between changes in MU and EF. An inverse relationship was noted in eight patients.

**Conclusion:** Our findings will need to be verified in a larger prospective study in order to control for potential confounding factors.

3:00-5:00pm BSC 171-173
Amina Turnadzic  
*Nuclear Medicine Technology*  
Faculty Sponsor: Crystal Botkin & William Hubble

**Same Day Appointments After FDG PET/CT: A Potential Radiation Exposure To Medical Personnel and General Public.**

Radiation Exposure is a prominent concern among the public. Many patients scheduled for FDG PET/CT scans with F18 FDG followed by same day appointments with doctors and other hospital exams. The purpose of this study was to evaluate the level of radiation emitted from those patients to address the issue of potential radiation exposure to medical personnel as well as the general public. Our recommendations are to: educate scheduling department to minimize or delay same day appointments post FDG scan, educate patients on the importance of good hydration and frequent urination, and finally to create a separate waiting area for the patients waiting for other hospital exams.

3:00-5:00pm  BSC 171-173

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**Brianna Cala**  
*Nursing*  
Faculty Sponsor: Deborah Sanazaro

**1 in 8 Women... Breast Cancer awareness in St. Louis**

The purpose of this project was to raise awareness in the community around Saint Louis University about Breast Cancer. 1 in 8 women are diagnosed with breast cancer every year and this project was designed to help woman understand their health risks and what they can do to protect themselves.

I designed a pamphlet to teach woman about what breast cancer is and what steps they can take to reduce their risk and protect themselves. I plan to go out in the public at a Walgreen’s close to SLU and use the pamphlet I created to educate people who come to the pharmacy. I hope to be able to reach a lot of woman and increase awareness of Breast Cancer in St. Louis

3:00-5:00pm  BSC 171-173

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Amanda Brown, Stephanie Ballard, Talitha Bates, Ellen Bettonville, Melanie Boyer, Jessiza Brezany, Richard Hornwell, Nicole Sherwood  
*Nursing*  
Faculty Sponsor: Sheila A. Leander

**Medication Safety and Health Management for Children**

We provided a seminar addressing over the counter medication safety and management of minor childhood illnesses for a group of parents in South St. Louis. These parents receive services from Youth In Need, an agency with a mission “to provide nurturing environments and educational opportunities so children, youth, and families will find safety and hope, achieve their goals, and build a positive future.” These parents are recent immigrants to the United States and this seminar improves their awareness of medical resources for their children. Expected outcomes include: a. the students will have fewer missed days from school through better management of minor childhood illnesses, and parents will understand when to take their child to a doctor’s office and when to go to the emergency room.

4:00 PM  BSC 253D

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**Emma Johnson**  
*Nursing*  
Faculty Sponsor: Patricia Freed, RN, EdD, CNE

**Karuna – Pediatric Pain and Palliative Care**

One of health care professionals’ greatest challenges is helping children and their families with chronic and terminal illnesses. Pain medication is important, but professionals can also enhance quality of life for both pediatric patients and their families. I visited three of the nation’s most innovative and cutting-edge pediatric “pain and palliative care” programs. These programs went beyond pharmaceutical pain management to provide holistic care, using biofeedback, self-hypnosis and other strategies while supporting patients and families emotionally and spiritually. This was a wonderful opportunity for me to learn how a nurse can help children and families during crisis situations.

4:20 PM  BSC 253D
Michael Barrale, Rosa Gamboa, Cristina Lopez-Roman  
*Nutrition and Dietetics*  
*Faculty Sponsor: Lori Jones*

**Media Approach to Increasing Calcium Consumption in Teen Girls**

Adequate calcium intake in teenage girls is critical for bone and teeth development, and nerve and muscle function. Girls age 9-18 require 1300 milligrams of calcium per day, though most consume only 865 milligrams per day. The aim of this project was to market the importance of increased calcium intake to teenage girls. A 30 second audio public service announcement, 60 second video public service announcement, and quarter-page, full color newspaper advertisement were created to promote this nutritional message. If successfully received, teenage girls will increase their calcium intake, reducing their risk for fractures and osteoporosis later in life.

3:00-5:00pm BSC 171-173

Christine Steinmetz, Katie Brown  
*Nutrition and Dietetics*  
*Faculty Sponsor: Katie Eliot*

**Gooey Butter Cake with Stevia Sweetener**

Extremely rich in butter and sugar, Gooey Butter Cake is a must-have for St. Louisians. We created a variation on a traditional cake recipe to reduce caloric content and make a healthier version that is both palatable and satisfying. We used the natural sweetener Stevia, from the plant Stevia rebaudiana, which replaced the sugar. Some challenges in this modification were taste, texture, and color. There was no great difference in taste between the original and Stevia cake, although the latter was slightly less sweet. If reducing calories is the goal, using Stevia in baked products is a suitable solution.

3:00-5:00pm BSC 171-173

Danielle Meals  
*Philosophy*  
*Faculty Sponsor: John Kavanaugh, S.J.*

**The Ethics of Rationing and the Right to Healthcare**

In recent years, the rationing of healthcare in the United States has incited countless debates. These debates take varied forms but center on two main questions: is there a right to healthcare and is it possible to ration healthcare in a just way? An analysis of William Frankena’s theory of distributive justice illuminates the foundation of just rationing while Norman Daniels and Allen Buchanan provide opposing views on the existence of a right to healthcare.

3:00 PM BSC 251B

Samiksha Tarun  
*Philosophy*  
*Faculty Sponsor: Scott Berman*

**“Public Health and Plato: An analysis of how Plato’s Theory of the Soul Applies to the Disparities in Public Health”**

Why should individuals care about disparities in public health? Here the larger moral issues will be discussed: it is actually necessary to care about others who are worse off because one’s own well-being is contingent on other’s well-being. Thus, looking at public health through a philosophical lens, specifically Plato’s theory of the soul and his ideas of knowledge, we will come to better understand why the disparities in public health are directly correlated with one’s well-being; that in order to flourish, it is necessary to ensure to the best ability that others are flourishing as well.

3:20 PM BSC 251B

Andrew Tigges  
*Physical Therapy and Athletic Training*  
*Faculty Sponsor: Joanne Wagner, Ph.D.*

**Lower extremity weakness better predicts walking limitations in people with multiple sclerosis than lower extremity strength asymmetry.**

The purpose of this study was to determine whether lower extremity (LE) weakness or LE strength asymmetry better predicts limitations in walking speed and endurance in people with multiple sclerosis, and if a particular muscle group best predicts these limitations. Thirty-three people with multiple sclerosis were assessed for hip flexor, hamstring and plantarflexor strength. Walking speed and walking endurance were assessed using standardized clinical measures. We found that LE weakness better predicted walking limitations than LE strength asymmetry. Plantarflexors best predicted limitations in walking speed, whereas hip flexors best predicted limitations in walking endurance.

3:00-5:00pm BSC 171-173
**Linda Holyoke**  
*Physics*  
*Faculty Sponsor: A Computational Study of Elliptic Encounters of Black Holes and Neutron Stars*  
Uncertainty remains regarding the progenitors of Short Gamma-Ray Bursts (SGRB). One proposed model is based on elliptic encounters between black holes and compact stars (such as neutron stars). A recent Newtonian computational study supports this SGRB mechanism. With the motivation that accuracy will increase when general relativity is accounted for, we present a study of fully relativistic simulations to compare to the Newtonian study and assess the mechanism's validity. Current results indicate a potential SGRB production: formation of a neutron star accretion disk with a mass and estimated lifetime not inconsistent with requirements for an SGRB.  

3:00-5:00pm BSC 171-173

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**Thomas O'Keefe**  
*Physics*  
*Faculty Sponsor: Leslie Benofy, Ph.D.*  
**Exploring Elementary Particles**  
One important step in the experimental study of some basic subatomic structures (such as protons and electrons) is to isolate them and then confine them in a small space which contains no other particles. In devising schemes to accomplish this trapping one can only use electric and magnetic forces. Once a subatomic particle is trapped, it is probed and its properties are measured through studying its response to electromagnetic radiation.  

In the work to be presented the theoretically predicted behavior of one and two charged particle systems in certain simple electric and magnetic field patterns of practical interest is considered.  

4:00 PM BSC 253A

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**James Starke**  
*Physics*  
*Faculty Sponsor: Ian Redmount*  
**Tachyon Theory**  
The purpose is research of tachyon properties to predict tachyon behavior in the physical universe. Properties of a charged tachyon are studied using the Lorentz force law and results are explained using Minkowski diagrams and the Feinberg Reinterpretation Principle. Tachyon kinetic theory is studied from the energy-momentum tensor giving results for mass density and pressure. The solutions of the Friedman equations for tachyon gases are found with results describing the evolution of a tachyon dominated universe. The results of all sections do not deny the possibility of the tachyon. Further research is required in tachyon group theory and photon stability.  

4:20 PM BSC 253A

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**Courtney Anvender**  
*Political Science*  
*Faculty Sponsor: Ellen Carnaghan, Ph.D.*  
**Peace with Justice: The political development of the Catholic Church in Northern Ireland between the civil rights movement of 1967 and the IRA hunger strikes of 1981**  
In researching the role of the Church in Northern Irish politics during the Troubles, I illustrate why and how the Church behaved as a major political actor. By examining the Church's role in terms of the political process model of McAdam, Tarrow, and Tilly, I show how the Church was able to affect social change by responding to opportunities, acting as a locus of mobilization, and framing political issues in the language of shared Catholic beliefs. I analyze how well the Church was able to both uphold its mission and maintain unity among its members in response to political developments.  

3:00-5:00pm BSC 171-173

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**Dino Hadzic**  
*Political Science*  
*Faculty Sponsor: Ellen Carnaghan, Ph.D.*  
**Peace and Justice: the International Criminal Tribunal for the Former Yugoslavia and Reconciliation in Bosnia-Herzegovina**  
I am exploring the influence the International Criminal Tribunal for the Former Yugoslavia (ICTY) exerts over the process of social/political reconciliation in Bosnia-Herzegovina. Specifically, I am interested in whether the ICTY facilitates increased cooperation or conflict among the country's major political parties, both mono-ethnic and multi-ethnic. The attitude of a particular party towards the ICTY is often determined by their particular interpretation of recent Bosnian history and perceived ethnic interests, so the evidence is often ambiguous. Nevertheless, with the recent revolution in international criminal
jurisprudence, it is important to consider what the proper place of international law is in post-conflict regions.

Emily Reid
Political Science
Faculty Sponsor: Emmanuel Nwadinobi Uwalaka, Ph.D. & Joan-Maki Motapanyane, Ph.D.

South African Women’s Organizations during the Transitional Period: Assessing the Value of Gender Mainstreaming as a Political Approach
In South Africa, democratic transition was not only struggled for by traditionally male-dominated anti-Apartheid parties, but also by women’s organizations that worked for anti-sexist goals within the context of national liberation. The efforts of women’s organizations during the transitional period of the 1980s and 1990s are a useful place from which to assess the value of rapid gender mainstreaming as a political approach. Looking at three themes- women in government, reproductive and sexual rights, and women as caretakers, we can look at the relationship between the results of gender mainstreaming as a set of formal provisions, and the issue of substantive equality.

Bianca Howell, Samuel Heaney
Pre-Law Program
Faculty Sponsor: Janet O’Hallaron

Project Citizen and Law: A Service Learning Experience
Project Citizen is a national competition that challenges high school students to utilize public policy to bring about positive change in the community. Every year, undergraduate students enrolled in Law: A Service Learning Experience have the opportunity to work with students from Northwest Academy of Law, a local high school, in preparation for the competition. The undergraduate students learn about public policy and its relationship to law, while gaining practical experience at Northwest Academy. SLU students help the high school students identify a public policy problem in the community and develop a portfolio presenting the students’ public policy solution.

Jessica Courtway, Grant Farnsworth, Sheila Martinez, Joseph Frampus
Pre-Law Program
Faculty Sponsor: Janet O’Hallaron

Legal Through Experience-PLS 410-Legal Internships
A panel of four pre-law students will each give a five minute presentation on what they have learned through their legal internship experience. Jessica Courtway, a pre-law scholar majoring in English, worked with Save-A-Lot Corporation's legal department with a focus on real estate and corporate law. Grant Farnsworth, a pre-law scholar majoring in Political Science and Legal Studies, worked for the Department of the Air Force Judge Advocate General’s Office. His primary focus was on military law. Sheila Martinez, a pre-law student majoring in and earning the Certificate in Legal Studies worked for the Kallen Law firm where she focused on various aspects of family law. Grant, Sheila, and Jessica will be attending law school in the fall. Joey intends to take a year off while he travels the world. Joseph Frampus, a pre-law student majoring in History and earning a Certificate in Legal Studies, is currently interning with Legal Services of Eastern Missouri concentrating on a variety of civil law areas. The purpose of the legal internship program is to demonstrate to students the practical application of the legal skills they have developed through their various legal studies classes. It also gives students the practical experience of working in a legal environment and provides an invaluable networking opportunity. The outcome of the internship is to further hone the students analytical, research and writing skills. In addition, many students find that the internship helps to confirm their choice of law as a career. Finally, students start to develop their own list of networking contacts which will serve them in law school and beyond.

4:20 PM BSC 251A
Marlin Rollins, Mary Kuckelman, Helen Hutton, Michael Mason  
Pre-Law Program  
Faculty Sponsor: Janet O’Hallaron & Michael Skinner  

Trial Practice-Davis v. Happyland Toy Company  
David Rollins and Mary Kuckelmann are two pre-law seniors have been engaged in the pre-law program’s Trial practice program over their undergraduate studies. Junior, Katie Anderson will play the role of witness. Students take an academic course that outlines the elements of a trial and evidentiary principles. Students also engage in a case written and sponsored by the American Mock Trial Association. Students play the role of an attorney or witness. Students engage in weekend competitions against other universities throughout the United States. The purpose of the course is to help students develop their legal reasoning and oral advocacy skills. Students learn about substantive principles of civil and criminal law.

Sarah Bieser, Jessica Modock, Amanie Salem  
Pre-Professional Health Studies  
Faculty Sponsor: Monica Kempland, Ph.D.

Collegiate Honors Preparatory Program  
The Collegiate Honors Preparatory Program (C.H.P.P.) is an ACT tutoring program headed by six undergraduate e-board members and fourteen undergraduate tutors. The program’s 28 students come from Roosevelt and Vashon High Schools, where the average ACT scores are 14.4 and 14.1, respectively. On Wednesday afternoons, students are bussed to Saint Louis University and provided with materials and interactive activities to increase their knowledge of content tested on the ACT. The program strives to empower these local youth with the skills needed to succeed on the ACT, and ultimately, enable them to walk confidently onto a college campus.

Carole Dobbins, Kelli Huber, Justin L'Hommedieu  
Psychology  
Faculty Sponsor: Dustin Jundt, Ph.D.

Attributional re-training: Examining effects on adaptive performance  
As jobs become more complex, adaptive performance is increasingly important and has been found to indicate achievement. People who attribute their success and failure to internal, unstable causes tend to have higher levels of motivation and performance than those who attribute their success or failure to internal, stable causes. Thus, attributional re-training represents a cost-effective
strategy for increasing job performance. The study used a radar simulation to examine how people adapt to changes in a learned task. The manipulation of attributions was a series of two confederate videos per condition which focused on influencing participants’ beliefs for success or failure.

3:00-5:00pm BSC 171-173

Emily Frankoski, Caroline Hoyniak, and Laura Van Berkel
Psychology
Faculty Sponsor: Kristin Kiddoo, Ph.D.

The Effects of Time Pressure on Stereotypical Attitudes Towards Individuals of Varying Socio-Economic Status
The current economic recession has highlighted the importance of understanding attitudes about those in poverty. Research shows that people make negative attributions about the poor and that stereotypical attitudes become more prominent under time pressure. This study aimed to examine the effects of time pressure on attitudes toward targets of varying SES by having participants read one of three vignettes (low SES vs. high SES vs. no SES indicated) and completing attitudinal measures either under time pressure or not. Participants were expected to endorse stereotypical attitudes more when under time pressure, but only when the target was of low SES.

3:00-5:00pm BSC 171-173

Bob Kincaid, Toni Law, Laura Welp, Michael Wunderlich
Psychology
Faculty Sponsor: Bryan Sokol, Ph.D.

Scaring the Straights: The Misconceptions of the Mental Illness Metaphor in Society
Throughout the history of psychology, metaphors have been used to simplify complex concepts and to compare new ideas to better understood ones. Mental illness has been used as a metaphor to describe psychological deviations among individuals and to improve their lives through therapeutic treatments. Despite the benefits associated with the illness metaphor, it has also created a stigma for patients, specifically those diagnosed with schizophrenia. To combat the negative consequences of the mental illness metaphor, we propose that mental disorders be broken down and analyzed as narrower, individual metaphors. In doing so, we hope to better educate society and alleviate the stereotypes associated with specific mental illnesses.

3:00-5:00pm BSC 171-173

Katrina Becherer, Benjamin Stephan
Public Policy Studies
Faculty Sponsor: Allan Tomey

“Examining the Emergence of Urban Economies”
This presentation examines the emergence of contemporary urban economies on a global scale. Emphasis is given to the movement from Lesser Developed Countries (LDCs) to More Developed Countries (MDCs) and the expansion of their economies. Analyses of specific locations as well as processes are put into perspective; for example, the emergence of the Information Economy in Hong Kong in the last 50 years. Lastly, both international and local development strategies will be highlighted.

3:00-5:00pm BSC 171-173

Jonathan Roper
Public Policy Studies
Faculty Sponsor: Allan Tomey

The Urban Prophet
The Urban Prophet is a global forum and database of information regarding community and neighborhood project development and revitalization efforts. By using an online social platform, the urban prophet encourages urban planners, researchers, and scholars to contribute to a plethora of knowledge providing a platform for discussion on topics that impact communities to evaluate past, current, and future projects, uses of land, eminent domain, and urbanism. The Urban Prophet will include the following information: pictures, videos, project time-line, blueprints, and testimonies of stakeholders

3:00-5:00pm BSC 171-173
Javier Trejo, Danny Jendusa
Public Policy Studies
Faculty Sponsor: Allan Tomey

**North St. Louis: A case study of neglect and opportunity**

Two students share their observations of living and working in North St. Louis as part of their Field Service for Urban Affairs. Senior Danny Jendusa reflects on the challenges facing the residents of the Ville and the separation that exists between Saint Louis University and the neighborhoods around it, he argues for a greater level of partnership to be fostered between these communities. While Senior Javier Trejo presents his research on the neglect and opportunity in North St. Louis.

4:00 PM  BSC 253B

Justin Nelson
Radiation Therapy
Faculty Sponsor: Kathy Kienstra & Sherry Bicklein

**The Varian Trilogy: The Future of External Beam Radiation is Now**

This poster is to promote the advancing technology in External Beam Radiation, specifically the Varian Trilogy Linear Accelerator. This poster was designed for the education of practicing radiation therapists and radiation therapy students. The Varian Trilogy is the world’s first image-guided radiation therapy system that is capable of delivering both conventional and stereotactic procedures. The information provided comes from Varian Medical Supplies website. Keeping up with the latest technology is extremely important in the treatment of cancer. Without technology we could never advance in our field of practice creating safer and more effective procedures in the fight against cancer.

3:00-5:00pm  BSC 171-173

Danielle Smith
Radiation Therapy
Faculty Sponsor: Kathy Kienstra & Sherry Bicklein

**Image Guided Radiation Therapy**

Image Guided Radiation Therapy, or IGRT, is an imaging technique used by radiation therapists and radiation oncologists to verify patient position and precisely deliver prescribed doses of radiation to cancer patients. While in the treatment position, the patient is imaged using equipment within the radiation treatment machine or mounted near the treatment machine. The therapists and oncologists then compare the new images with the images acquired during the treatment planning process. If necessary, the patient is shifted to ensure proper positioning and alignment. IGRT shows great promise in the future of radiation therapy.

3:00-5:00pm  BSC 171-173

Katie Weiner
Radiation Therapy
Faculty Sponsor: Sherry Bicklein

**Proton Therapy**

The intent of this project is to provide the general public with information regarding Proton Therapy as a treatment option for cancer patients. Proton Therapy is of interest because it is a newer form of radiation therapy that has a strong future. It is also important that the public has an understanding of Proton Therapy in order to make informed decisions regarding treatment options.

3:00-5:00pm  BSC 171-173

Tahnissa Means
School of Social Work
Faculty Sponsor: Shannon Cooper-Sadlo

**BE a Hand to Hold**

To establish legal assistance for grandparents that are raising grandchildren and would like to seek guardianship.

3:00-5:00pm  BSC 171-173

Michelle Reed
School of Social Work
Faculty Sponsor: Shannon Cooper-Sadlo

**Here’s To Health**

The purpose is to address the issue of lack of preventive healthcare in low-income communities. The goal is to promote healthy living within these communities.

3:00-5:00pm  BSC 171-173
Ariel Turner  
*School of Social Work*  
*Faculty Sponsor: Shannon Cooper-Sadlo*

**One Pow**  
The goal of this project was to decrease youth violence in urban communities. Five approaches were taken on macro, mezzo, and micro levels.  
3:00-5:00pm BSC 171-173

Allison Hopke  
*Service Leadership Certificate Program*  
*Faculty Sponsor: Rob Boyle, Ph.D.*

**A Service Leader’s Outlook on Transitions**  
Away from the known comforts of home and high school, new college students try to find ways to make the transition to the new segment of their lives at Saint Louis University. The Service Leadership Certificate Program provides a venue for students to transition into leaders while serving the community. A focus on Hope House, this year’s Service Leadership sponsored Service Day site, provides a vision of similarities between people in transitional stages of their lives and gives light to ways that service leaders connect with those who, at first glance, seem to be all too different from them.  
3:40 PM BSC 253B

Colin Hussey  
*Sociology and Criminal Justice*  
*Faculty Sponsor: Dyan McGuire*

**An Examination of the Effectiveness of Drug Treatment Programs in Stopping Drug Use**  
This analysis was conducted to see if individuals who received drug treatment would have decreased reports of drug use compared to individuals who had dropped out of the treatment process early on. It was predicted that individuals who received treatment would report higher rates of drug abstinence compared to those who dropped out early. Employment and depression were controlled for. The dataset examined contained 1,529 interviews. Binary logistic regression was run on the data in order to examine the relationships between the variables. Depression and employment were found to be significant, but treatment was not.  
3:00-5:00pm BSC 171-173

Vince Hernandez  
*Sociology and Criminal Justice*  
*Faculty Sponsor: Joel Jennings*

**Corporate Citizenship: Arriving at a Definition**  
The purpose of this project is to critically engage how corporations are being conceptualized as citizens. Corporate citizenship is a concept involving the recognition of the corporation’s responsibilities to its community. I will outline the dominant perspectives on corporate citizenship discussed in the literature and critique those perspectives from a definition of citizenship as “the rights and responsibilities associated with membership in a group or polity”. The goal is to provide an analysis of what the perceived responsibilities are of corporate citizens and how the corporation acts in the polity.  
4:20 PM BSC 254

Amelia Christine Blanton  
*Theology*  
*Faculty Sponsor: John Renard, Ph.D.*

**True Human Dignity: A Dialogue of Service Between Muslims and Christians**  
This presentation examines how both Muslims and Christians should engage in a dialogue of service that upholds the dignity of fellow human beings. Examining scriptural texts of the Bible and Qur’an as well as scholarship surrounding each tradition shows that both Islam and Christianity proclaim that God’s love for humanity endows humans with dignity and rights. In an effort to recognize and uplift this dignity, people of both traditions should seek to engage in a dialogue of service. Here, Muslims and Christians gather together to serve their communities and fellow human beings and affirm the dignity that God bestows upon all.  
4:00 PM BSC 251B
**Alexis Lassus**  
**Theology**  
*Faculty Sponsor: John Renard, Ph.D. & David Meconi S.J.*

**Moral Formation and Censorship: A Theological Response to Violence in the Media**

This project confronts the excess of violence in the media and seeks a balanced approach to censorship that neither stunts nor hurts one's moral development. Its interdisciplinary approach combines sociology, psychology, history, and Christian ethics to tackle a uniquely modern problem that has resulted from technological advances and the Internet's widespread influence. After drawing from research on the psychological effects of violence and the Church's historical failures with censorship, these points are confronted by theology, specifically the Eucharist's implications on moral formation, in order to devise a realistic grassroots approach that does not risk the failures of institutionalized censorship.

4:20 PM BSC 251B

**Micah Miller**  
**Theology**  
*Faculty Sponsor: John Renard, Ph.D.*

**Augustine's Confessions and al-Ghazali's The Deliverance from Error: Conversion Narratives with Modern Implications**

The Christian theologian St. Augustine of Hippo and the Muslim theologian al-Ghazali are among the most influential and important figures in their respective religions. Each of them went through a powerful conversion experience as recorded in Augustine’s Confessions and al-Ghazali’s The Deliverance from Error. These works provide important lessons for Christians and Muslims today in that they illustrate the journey every person takes in pursuit of truth. I will discuss the similarities between these two narratives and demonstrate the ways in which they are applicable to those living in today’s world.

4:40 PM BSC 251B

**Shelley Womack**  
**Women's Studies**  
*Faculty Sponsor: Penny Weiss*

**Women and Childhood Trauma: An Examination of Abuse, Backgrounds and Career Choice in Rural Missouri**

My research examines patterns between working poor, rural women, working in the male-dominated service industry as bartenders. By conducting interviews with six women from the same rural area, I argue that they may re-victimize and re-traumatize themselves as they strive for upward financial mobility. I conclude that patterns of childhood trauma, economic hardship, and substance abuse problems lead women, albeit subconsciously, to work in the service industry because of the amount of money they can make.

3:00 PM BSC 253B

**Katie Schlechter**  
**Women's Studies**  
*Faculty Sponsor: Penny Weiss*

**A VOLATILE CONCOCTION: NAFTA, Women, Labor, and Violence on the Mexican Border**

In this paper, I examine the dynamics around gender inequality in a “developing nation,” by considering the influence of the NAFTA on existing gender-based inequalities in Mexico. I focus on labor issues and gender-based violence on the border in Juárez, Mexico, specifically by examining three visible trends in the region: the displacement of workers to the United States and to Export Processing Zones on the border, the disposability of labor created by capitalism and neoliberal policies, and the significance of male violence, especially as it is used against women. The gendered dynamics revealed in this analysis are instructive for a wider context beyond Mexico, especially in terms of charting transnational connections in unfolding global economic and political trends.

3:20 PM BSC 253B
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<td>Ankit Agrawal</td>
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<td>Mark Burch</td>
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* Indicates student is an honor student in the Honors Program
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<td>Rosa Gamboa</td>
<td>Nutrition and Dietetics</td>
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<td>David Gruenewald</td>
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<td>Samuel Ha</td>
<td>English</td>
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<td>Dino Hadzic</td>
<td>Political Science</td>
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<tr>
<td>*Laura Hahn</td>
<td>Biology</td>
<td>3:00-5:00 pm</td>
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<tr>
<td>Keiondra Harris</td>
<td>Clinical Laboratory Science</td>
<td>3:00-5:00pm</td>
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<td>Sarah Henn</td>
<td>Clinical Laboratory Science</td>
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<td>Lorenzo Herman, S.J.</td>
<td>African American Studies</td>
<td>3:40 pm</td>
<td>BSC 251B</td>
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<td>Vince Hernandez</td>
<td>Sociology and Criminal Justice</td>
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<td>Allison Hopke</td>
<td>Service Leadership Certificate Program</td>
<td>3:40 pm</td>
<td>BSC 253B</td>
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<tr>
<td>Richard Hornwell</td>
<td>Nursing</td>
<td>4:00 pm</td>
<td>BSC 253D</td>
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<tr>
<td>*Bianca Howell</td>
<td>Pre-Law Program</td>
<td>3:00-5:00pm</td>
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<tr>
<td>Angela Hoynacki</td>
<td>Chemistry</td>
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<td>Caroline Hoyniak</td>
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<tr>
<td>Kelli Huber</td>
<td>Psychology</td>
<td>3:00-5:00pm</td>
<td>BSC 171-173</td>
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<td>Amy Huggins Melser</td>
<td>Decision Sciences &amp; It Management</td>
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<td>Colin Hussey</td>
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<td>3:00-5:00pm</td>
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<td>Helen Hutton</td>
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<td>Brian Kelly</td>
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<td>*Gregory Keogh</td>
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<td>Bob Kincaid</td>
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<td>Bridget Kistner</td>
<td>Nuclear Medicine Technology</td>
<td>3:00-5:00pm</td>
<td>BSC 171-173</td>
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<tbody>
<tr>
<td><em>Brett Kostrzewski</em></td>
<td>Aerospace Engineering</td>
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<td>Daniel Kouri</td>
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<td>Jessie Landmark</td>
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<td><em>Alexis Lassus</em></td>
<td>Theology</td>
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<tr>
<td>Brian Lathan</td>
<td>Fine and Performing Arts: Studio Art</td>
<td>3:00-5:00pm</td>
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<td>Toni Law</td>
<td>Psychology</td>
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<td>Raymond Le</td>
<td>Decision Sciences &amp; It Management</td>
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<td>Wing Yu (Peony) Lee</td>
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<td>Jen Liu</td>
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<td>Cristina Lopez-Roman</td>
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<td>School of Social Work</td>
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<td>Micah Miller</td>
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<tr>
<td>Amanie Salem</td>
<td>Pre-Professional Health Studies</td>
<td>3:00-5:00pm</td>
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Clinical Labrotary Science  
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Justin Scherbring  
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Ian Schillebeeckx  
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Katie Schlechter  
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Max Schwanebeck  
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Nicole Sherwood  
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Alexander Shim  
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Eric Smith  
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Gerrit Smith  
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Danielle Smith  
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Ayla Snidtker  
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Kulaya Srivitayarks  
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Christine Steinmetz  
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Benjamin Stephan  
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Sarah Strom  
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Amanda Stubbe  
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Samiksha Tarun  
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Riley Thomas  
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Amina Turnadzic
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