



## 2007-2008 Academic Year Undergraduate Research Grants

Each grant list individual student researcher(s) with respective cooperating faculty member(s) in parenthesis.

### SCHOOL OF BUSINESS

- Melanie Brewer (David Causgrove) - \$681  
"A Change in the Airline Industry: Customer Service and September 11, 2001"
- Paul DeWolf (Frank DeWolf) - \$700  
"Mobile RFID Devices in the Retail Industry"
- Angela Speck (Mary Beth Pinto and Phylis Mansfield) - \$200  
"Remote Gambling Study"

### SCHOOL OF ENGINEERING

- Brian Auth (Frank DeWolf) - \$700  
"Implementing the EPCglobal Network Using Open Source Software"
- Brian Benini (Bob Edwards) - \$700  
"Development of a Simple Tank Draining Experiment to Illustrate Core Principles of Hydrostatics"
- Daniel Dempsey and Millington Adkins (Jon Meckley) - \$1,400  
"Blow Ratio Study of Newly Developed Grades of Santoprene TPV Resin and Various Modifiers"
- Joshua Jones (John Roth) - \$700  
"Prediction of Endmill Insert Failure Using an Electret Accelerometer"
- Ashraf Khalifa (John Roth) - \$700  
"Improving Sheet Metal Manufacturing Processes for Automotive Body Parts through Electrically Enhancing Formability"
- Gregory Krajewski (Yi Wu) - \$700  
"Improvement of GUI for Human Circulation System Incorporating Muscle Pump Function"
- Ivan Loker (John Roth) - \$700  
"Using DC Electrical Current to Investigate the Enhanced Ductility of Various Aluminum Alloys with Multiple Heat Treatments"
- Ken Matsushita (William Lasher) - \$700  
"Analysis of Flying Shape for Spinnakers"
- Dan Mauck (John Roth) - \$700  
"Determining the Effects of an Applied DC Current on Copper Using Finite Element Modeling and Microstructural Analysis"

- Wesley Salandro (John Roth) - \$700  
"A Comparability Study of a Three-Axis Electret Accelerometer to a Traditional Three-Axis Piezoelectric Accelerometer"
- Marianne Sciarrino (John Roth) - \$700  
"Isolating the Effects of DC Electrical Current on the Formability of Copper During Impression-Die Forging Operations"
- Jason Williams (Ron Krahe) - \$700  
"Broadcast Radio Song and Artist Capture from RBDS Signal using an 8051"

#### **SCHOOL OF ENGINEERING AND SCHOOL OF HUMANITIES AND SOCIAL SCIENCES**

- James Hodge, Jessica Schubert, Kaylee Curilla, Danielle Wilson, and Mike Horning (Dawn Blasko, Kathy Holliday-Darr, and Jennifer Trich Kremer) - \$3,500  
"Spatial Visualization Research and Assessment Project"

#### **SCHOOL OF HUMANITIES AND SOCIAL SCIENCES**

- Ashley Albeck, Chelsea Ehret, and Lauren Humes (Jennifer Trich Kremer) - \$495  
"Cyberbullying: The Effects of Ostracism and Social Dominance"
- David Baleno and LeAnna Haener (Charisse Nixon) - \$80  
"The Effect of Electronic Media on Sense of Belonging in College Students"
- Jason Crants and Lavon Thomas (Charisse Nixon) - \$200  
"The Influence of Parental Involvement and Rejection Sensitivity on College Students' Involvement with Relational Aggression"
- Alicia Dunbar and Bethany Hanus (Jennifer Trich Kremer) - \$1,250  
"The Effects of Background Music on Studying"
- Shelby Deutsch, Megan Hoffman, Jodi Kitchener, Katie Knight, and Steve Wize (Charisse Nixon) - \$2,824  
"Applied Developmental Psychology in the School Setting: Development of a Mentoring Program on Children's Reduction of Aggressive Behavior"
- Chelsea Fenush, Andrew Walker, Andrew Scheller, and Zack Goncz (Victoria Kazmerski and Dawn Blasko) - \$2,800  
"A Short-Term Auditory Lexical Training Task: Training Native Speakers of American English to Better Perceive Chinese-Accented English"
- Nicholas Goff and Ann Kozel (Charisse Nixon) - \$551  
"The Effect of Labeling on Trust"
- Christine Giuliano, Chris Brown, Ryan Watson, Brett Watson, AJ Kondash, Rose Skiba, Joni Taylor, Audrey Achonu, Alexandra Ley, Jessica Grimm, and Matt Shuster (John Gamble) - \$2,800  
"Comprehensive Statistical Database of Multilateral Treaties (CSDMT) Project"
- Kelly Kozirowski, Carrie Barr, Laura Plocido, and Amy Burns (Charisse Nixon) - \$295  
"How Different Genres of Music Affect Levels of Aggression and Prosocial Behavior"

- Kerry Lope and Briana Grimes (Victoria Kazmerski) - \$1,400  
"Individual Attitudes Related to Actors in Love Scenes"
- Anne Spring, Nancy Baker, and Jennifer LaRoche (Charisse Nixon) - \$535  
"The Relationship between Attachments, Connectedness, and College Students' Adjustment"
- Amanda Turner and Marika Sansone (Jennifer Trich Kremer and Dawn Blasko) - \$1,388  
"Art Therapy and the Effects it has on the Reduction of Stress in At-Risk Youth"

## SCHOOL OF SCIENCE

- Danielle Chung (Alan Jircitano) - \$700  
"Synthesis and Structural Characterization of Photochromic Platinum (II) Complexes"
- Cody Filges (Sarah Ewing) - \$663  
"C/EBP $\beta$  Regulation of JunD Gene Expression to Mediate Cell Survival"
- R. Wesley Flynn (James Warren Jr.) - \$700  
"Analysis of Folate Metabolism and its Effects on Neural Tube Development in the Early Zebrafish (*Danio rerio*) Embryo"
- John Fullwood (Danielle Goodwin) - \$700  
"Examining the Relationship between New York Public K-12 School Teachers' Images of Mathematics and Their Mathematics History Knowledge"
- Brandon Garzel, Anthony Moore, and William Peterson (Mehmet Malcok and Danielle Goodwin) - \$2,100  
"Online Course Management System"
- Bennett Giardina (Michael Campbell) - \$700  
"Creation of an Acetolactate Synthase-YFP Fusion Gene"
- Tom Hazlett, Derek Mulder, and Jasmin Tufek (Gary Walker and Mehmet Malcok) - \$2,100  
"Biometric Authentication"
- Luke Joseph (Martin Kocielek) - \$700  
"Methods for the Synthesis of Benzo-Fused Heterocycles"
- Alicia Klinvex (Ronald McCarty, Blair Tuttle, and Gary Walker) - \$700  
"Amorphous System Modeling"
- Andrew Hua Law (Martin Kocielek) - \$700  
"Investigation into the Synthesis of Flavanone and Anthocyanin Antioxidants"
- David Machuga (James Warren Jr.) - \$700  
"An *in vivo* Analysis of the Role of the Glycine Cleavage System in Early Zebrafish Development"

- Andrew Makepeace (Bruce Wittmershaus) - \$693  
"Plasmonic Enhancement of the Photostability of Organic Dyes for Use in Luminescent Solar Concentrators"
- Daryl Nowacki, Chris Mosebach, Abe Kibbey, Amy Sahlmann, and Angelica Jones (Yi-Hong Wang) - \$3,500  
"Evaluation of *Arabidopsis* Mutants Generated by Expressing Genes from Tomato Fruits"
- Kellie O'Rourke (Heather Jones) - \$695  
"Effects of Epidermal Growth Factor on hIK1 Expression and Function"
- Dennis Paskorz (Bruce Wittmershaus) - \$693  
"Modeling the Benefit of a White Background/Luminescent Solar Concentrator Combination"
- Michael Piscitelli (Beth Potter) - \$700  
"Characterization of the N-Glycan Dependent Apical Sorting Mechanism Used by Endolyn"
- Joseph Pleso (Paul Becker and Paul Olson) - \$700  
"Surreal Analysis of Go"
- Vincent Povirk (Meng Su and Gary Walker) - \$700  
"A Simple Tiling Window Manager"
- Daniel Ranayhossaini (Margaret Voss and Michael Campbell) - \$700  
"An Investigation of the Hemotoxicity of the Secretion of the Duvernoy's Gland of the Northern Water Snake (*Nerodia sipedon*)"
- Casey Robinson (Joseph Previte) - \$700  
"Automation and Testing of a Coupled Oscillator Model Describing the Swimming of a Sea Lamprey"
- Natalie Romano (Jay Amicangelo) - \$700  
"Characterization of Methanol Complexes with Benzene and Hexafluorobenzene in Nitrogen and Argon Matrices Using Matrix-Isolation Infrared Spectroscopy"
- Damon Schersten (Alan Jircitano) - \$700  
"Synthesis of 3-aminobiphenyl-4-carboxaldehyde to Examine the Mechanism of Novel Photochromic Platinum(II) Complexes"
- Lara Trozzo (Margaret Voss) - \$700  
"Effects of Thermoregulation on Foraging in *Anolis carolinensis*"
- Heather Wager and Jason Reed (Danielle Goodwin, Jonathan Hall, and Paul Ashcraft) - \$1,400  
"Examining Student Interactions within an Active Learning Environment in a Calculus-Based Introductory Physics Course"
- Kate Warner (Bruce Wittmershaus) - \$700  
"Analysis of Forster Transfer and Photo-Protection in BODIPY Dyes"

- Kyle White (Michael Rutter) - \$700  
"Adding a Random Walk Component to a Surplus Production Fisheries Model"
- Mike Wilson and Gary Taylor (Michael Campbell) - \$1,400  
"Analysis of Putative NDP1 Mutant Knockout Gene in *Arabidopsis thaliana*"

### [Research & Outreach](#)

### [Undergraduate Research](#)