Fall 2015 Awards

Art and Art History Department
Faculty Sponsor: Carole Garmon
Student: Taylor White – On Amplitude

Faculty Sponsor: Joe DiBella
Student: Courtney Greathouse – Exploring Portraiture: Senior Portfolio

Faculty Sponsor: Rosemary Jesionowski
Student: Tyler Duenas – Gathering Mass

Biological Sciences Department
Faculty Sponsor: Dianne Baker
Students: Erica Falvey, Laura Mangano– Development of the stress hormone axis in two model fish species

Faculty Sponsor: Rosemary Barra
Student: Samuel Clark – Complementary & Alternative Medicine in the Treatment of Ewing’s Sarcoma

Faculty Sponsor: Steve Gallik
Students: Kristina Krumpos, Rachel Thomas, Kristin Jones– Engineering a Plasmid Expression Vector for Nuclear Localization Studies
Students: Viraj Munshi, Aaron Sawyer - A Study of Protein Diffusion Across the Nuclear Envelope

Faculty Sponsor: Alan Griffith
Student: Kevin Speray– Exploring the relationship between shade and incidence of seeding death, Aeschynomene virginica

Faculty Sponsor: Lynn Lewis
Student: Sara Murphy - A Study of the Antiviral Effects of Chloroquine & Rapamycin on Mouse Mammary Tumor Virus
Student: Alexander Priest - Identification of inhibitors of Fatty Acid Synthesis Enzymes in Mycobacterium smegmatis
Students: Sara Murphy, Alexander Priest, Dana Baragh, Habiba Noor, Crystal Cauley, Julie Arnold, Amy Jayas– Virginia Branch of the American Society for Microbiology Meeting

Faculty Sponsor: Deborah O’Dell
Student: Tyrrell Graham– Tau and Beta-Amyloid Interactions in Alzheimer’s Disease
Student: Brittany Hylander– Relationship between S100B protein and RAGE expression in Vertebrates
Student: Virginia King– Cell phone Radiation Induced Mitotic Rate and Apoptosis levels in Human Glioblastoma Cells

Faculty Sponsor: Abbie Tomba
Students: Teresa Nguyen, Margaret Magliato– Molecular Identification of Digenetic Trematodes in the Rappahannock River
Faculty Sponsor: Parrish Waters
Students: Hannah Belski, Meagan Darling – A novel environment to examine social stress and hierarchy in mice
Student: Emily Ferguson - Developing a novel technological tool to assess cognition in laboratory mice

Chemistry Department
Faculty Sponsor: Davis Oldham
Students: Kelly McDaniel, Lonnie Harris – Synthesis of the stereoisomers of DEHP and its metabolites

Faculty Sponsor: Randall Reif
Student: Samuel Clark – Optimization of SELEX Parameters for RNA Aptamer Selection
Faculty Sponsor: Randall Reif
Student: Sean Morris - Temporal Dynamics of Caspase Activity on Jurkat Cells

Faculty Sponsor: Kelli Slunt
Student: David Nunez – Development of Biochemical Assays for Phthalate Ester Ligand

Earth and Environmental Sciences Department
Faculty Sponsor: Ben Kisila
Students: Taylor Coxon, Rachel Hensen - Modeling the Distribution of Trace Metals within the James River
Student: Lauren Mosesso, Lillian Johnson - Phosphorus Dynamics in Wetlands of the Rappahannock River Basin
Student: Taylor Coxon- The temporal and spatial distribution of trace metals in the fluvial and lacustrine environments of the southern Chesapeake Bay basin

Faculty Sponsor: Melanie Szulczewski
Students: Maura Slocum, Taylor McConnell - Initial Investigation into the Use of Phytoremediation to Address Legacy Pollution at a Virginia Site Affected by Acid Mine Drainage

Faculty Sponsor: Neil Tibert
Student: Tammy Prescott, Megan Clevenger, Miles Neilson- Sea Level Change in Tidal Marshes

Economics Department
Faculty Sponsor: Shawn Humphrey
Students: Ana Hector, Aashna Jain, Alex Rodriguez, Sepehr Sobhani, Nicole Scotti, Caitlin Turner-Lafving, Stephanie Loftus, Sam Fortier, Pete Shammas, Kelly Mason - La Ceiba Microfinance

Faculty Sponsor: Margaret Ray
Student: 4 Students- Economic Scholars Program at the Federal Reserve Bank of Dallas

Geography Department
Faculty Sponsor: Caitie Finlayson
Students: Colin Cate, Steven Fernando - Making Space Sacred in a Nontraditional Setting
Student: Phillip Devine - Visualizing Sacredness using Mental Maps and GIS
Student: Christine Mackrell - Gendered Experiences in Mosques: The Utilization of Sacred Space as a Tool for Marginalization
Faculty Sponsor: Steve Hanna
Students: Ian Spangler, Xavier Griffin - Searching for the enslaved in the "Cradle of Democracy": Virginia's James River plantation websites and the reproduction of local social memories

Faculty Sponsor: Joe Nicholas
Students: 3 Students - Team Virginia in the World Geography Bowl Competition

**Historic Preservation Department**
Faculty Sponsor: Michael Spencer
Student: Mary Fesak - Gender and early-20th Century Equine Architecture

**History and American Studies Department**
Faculty Sponsor: Claudine Ferrell
Student: Phillip Buterbaugh - Harris & Janie Porter Barrett: Early Civil Rights Powerhouse Couple
Student: Nathaniel Levine - Law and Risk in nineteenth-century America: The Farwell Case
Faculty Sponsor: Claudine Ferrell
Student: Christopher Noebels - Shel Silverstein: Interpreting America

**Mathematics Department**
Faculty Sponsor: Randall Helmstutler
Student: Christopher Lloyd - Cryptology with Generalizes Dihedral Groups

**Music Department**
Faculty Sponsor: Mark Snyder
Student: Austin O'Rourke - West Fork New Music Festival
Student: Mary Paige Rodgers - West Fork New Music Festival
Student: Daniel Shea – Private Composition
Student: Michael Prime - West Fork New Music Festival

**Political Science and International Affairs Department**
Faculty Sponsor: John Kramer
Student: Girard Bucello - The European Security Community: A Case Study of European Policy towards the Baltic States

Faculty Sponsor: Chad Murphy
Student: Emily Lowrie – Data Analysis and Politics
Student: Alexander Obolensky - Data Analysis and Politics

**Psychology Department**
Faculty Sponsor: David Stahlman
Students: Robyn Ellis, Antonio Nazario-Bortz - The control of navigational variability in invertebrates

Faculty Sponsor: Laura Wilson
Students: Robyn Ellis, Shawn Fraine, Jennifer Freud, Hannah Walker – Meta-analysis of sexual victimization
Theatre and Dance Department
Faculty Sponsor: Gregg Stull
Student: Julia Wells - Directing EURYDICE