SENIOR SHOWCASE PRESENTATION SCHEDULE
Friday, May 24, 2024

BLOCK ONE: 8:50-10:10

ROOM	STUDENT/SEMINAR	TITLE
Auditorium	**Music Composition and Recording**	
	Stel Beazley (Chesterfield); Jude Curran (Richmond); Jonah Neuwirth (Henrico); Avery Redmond (Chesterfield); Evan Solomon (Chesterfield); Ces Wells (Hanover); Declan Wise (Chesterfield)	
Blackbox	**Fashion and Style: The Implications of the Clothes on Your Back**	
	Elizabeth Adams (Henrico); Kristin Bishop (Chesterfield); Leland Bonkovsky (Richmond); Rachel Dai (Henrico); Mia Juarez (Chesterfield); Lina Khatcheressian (Chesterfield); Naina Kondragunta (Chesterfield); Mykayla Mann (Richmond); Mikaylah McCarthy (Chesterfield)	
230	**Gender & Culture in the Middle East and North Africa: Traversing the Alleyways of Oppression in MENA**	
	Connor Fabrie (Richmond); Zara Lenkowicz (Chesterfield); Taylor Saville (Chesterfield); Declan Wasnock (Chesterfield)	
231	**Gender & Culture in the Middle East and North Africa: Threats to Women in the MENA Region**	
	Milo Benedetti (Richmond); Jaliyah Hairston (Petersburg); William Sams (Chesterfield); Sandhu Amandeep (Chesterfield)	
232	**Gender & Culture in the Middle East and North Africa: An Eye for an Eye: Cracking the Code of Gender Norms in MENA**	
	Nina Broderick (Richmond); Parker Rowley (Richmond); Natalie Shannon (Richmond); Shabaz Wali (Chesterfield)	
106	**Moneyball: The History and Sabermetrics of Baseball**	
	Crash Ackerly (Richmond); Bryce Davitt (Chesterfield); Jakob Dean (Chesterfield); Eric Hu (Henrico); Liam Reed (Chesterfield); Will Richter (Henrico); Sam Wheeler (Chesterfield)	
126	Yash R Saxena (Henrico)	Neurostimulation and Neural Networks: Treating Neurological Conditions with Machine Learning
	Henley Mills (Goochland)	Spot the Robot: Comparing Differentiation Techniques Between AI and Human-Generated Essays
202	Kalliyan Eam (Chesterfield)	Harvesting Hope: Cultivating Solutions for Food Deserts
	Aimee Salazar Luna (Chest.)	Lack of Neurosurgical Care in Tanzania and Potential Solutions How to Increase it
204	Carleigh Brescia (Chesterfield)	Who Deserves Care? How Virginia's Behavioral Health System Cares for Its Most Vulnerable Populations
	Alice Bowman (Chesterfield)	The Impact of the Dobbs Decision on In-Vitro Fertilization, and How to Take Preventative Action
237	Arjun Azhagappan (Chesterfield)	Exploring the Risks of Biomaterials in Osteogenic Development
	Andrew Eaton (Chesterfield)	Solution electrospinning various polymers for industrial application
244	Waverly Tang (Chesterfield)	Occupational Safety in a Chemical Plant
	Anna Newell (Henrico)	Addressing Anxiety in Pediatric Dentistry
301	Katherine Streeter (Richmond)	Overuse Injuries in the Knee: Treating the Most Complex Joint in the Human Body
	Izzy List (Chesterfield)	Vector Borne Disease: How Tree Density can Influence Mosquito Populations
303	Matthew Favale (Chesterfield)	The Importance of Ukraine to the United States and a 21st Century Domino Theory
	Michael Lusk (Henrico)	Evaluation of Risk Factors Contributing to the Silicon Valley Banking Crisis
313	Ethan Choe (Goochland)	Economic Thought Behind Placing My Hotdog Stand
	Sadie Hall (Goochland)	A Sea of Possibilities: Algae-Based Biofuels in Aviation

BLOCK TWO: 10:20-11:40

ROOM	STUDENT/SEMINAR	TITLE
Auditorium	**Music Composition and Recording**	
	Lucia Gambacini (Chesterfield); Gabriel Harding (Richmond); Briana Lawson (Goochland); Yamato Motai (Chesterfield); Jo Vinson (Richmond); Henry Walworth (Hanover)	
Blackbox	**Fashion and Style: The Implications of the Clothes on Your Back**	
	Jackson Baese (Richmond); Lucie Bouton (Richmond); Eli Deane (Hanover); Emiley Griffin (Hopewell); Heather Lang (New Kent); Luke Mauzy (Chesterfield); Sophia Pareti (Chesterfield);	
302	**Wilderness and the American Mind: De-Extinction**	
	Jane Clare Bosher (Richmond); Max Economy (Chesterfield); Charlie Haacke-Golden (Richmond); Preston Huyard (Richmond); Kate Lindley (Hanover); Zinnia Nygren (Richmond)	
106	**Moneyball: The History and Sabermetrics of Baseball**	
	Pooshan Chaudhuri (Henrico); Alyssa Jones (New Kent); Nayan Mehta (Henrico); Alex Percey (Henrico); Nihal Pothunoori (Henrico); Nate Stewart (Chesterfield); Joia Weinstein (Richmond)	
126	Samuel Choi (Hanover)	Piezoelectric Materials in Engineering
	Nate Winters (Richmond)	Splash: Investigating the Physics of Bouncing Water Droplets
202	Bharathi Kancharla (Henrico)	Locking In: Enhancing Attention Span in Elementary Students
	Kamna Kalkunte (Chesterfield)	Little Arms, Big Decisions: Investigating Vaccine Hesitancy in Pediatrics
204	Keira Kim (Hanover)	Using Anti-solvent Crystallization and Slug Flow to Improve the Quality of a Tuberculosis Antibiotic
	Franklin Heyming (Richmond)	Intravascular Lithotripsy: Shockwave Treatment for Arterial Calcification
237	Lambrini Phillos (Richmond)	Media Medley: Navigating Content Selection in Journalism
	Nina McGinnis (Henrico)	Why Should I Care? Unlocking the Heart of Climate Action
244	Isabella Kenney (Henrico)	Expansion & Evolution: Bridging Generational Divides in Business
	Sibi Sundar (Chesterfield)	How to Build Your Brand
301	Phoenix Unzueta (Chesterfield)	Freedom of Information in Virginia: Is it really that free?
	Phu Vo (Henrico)	America's Indian Immigration Crisis and Systematic Reform
303	Rowan Mueller (Chesterfield)	Harnessing Light: Exploring Nonlinearities in Optics and Photonics
	Sandor Preda (Henrico)	Great Graphene: The Future of Electronics
313	Elaina Shifflett (Chesterfield)	Lost in Translation: Evaluating Language Interpretation Services in Pediatric Emergency Medicine
	Diya Patel (Chesterfield)	Beyond the Filter: Comparing Hemodialysis and Peritoneal Dialysis on Patients' Quality of Life
334	Leah Winder (Chesterfield)	Exercise and Physical Therapy: Are they Effective Treatments for Osteoarthritis?
	Caitlyn Smith (Powhatan)	Postpartum Depression Screening: Effectively Identifying Depression After Childbirth

LUNCH: 11:40-12:20

BLOCK THREE: 12:20-1:40

ROOM	STUDENT/SEMINAR	TITLE
Auditorium	**Digital Video** Christine Datovech (Hanover); Patrick Doherty (Chesterfield); Oliver Frankel (Richmond); Blake Gilman (Goochland); Virginia Griffin (Richmond); Saxon Kelleher (Hanover); Chloe Larimer (Chesterfield); Jalaiya Moore (King & Queen); Tobias Moore (Richmond); Aiden Vick (Richmond)	
302	**Wilderness and the American Mind: Electric Vehicles** Daphne Bobb (Chesterfield); Timothy Porter (Henrico); Jason Pringle (Chesterfield); Hugo Seehaver (Chesterfield); Caden Van Valkenburg (Richmond); Ryan Weickert (Chesterfield)	
120	**Evolution of London: The Making of a Metropolis** Sydney Brewer (Chesterfield); Lauren Briggs (Richmond); Caroline DeGuenther (Richmond); Jason Elkins (Chesterfield); Darby French (Chesterfield) Christopher Langford (Chesterfield); Sam McNamee (Chesterfield); Emmalia Notarnicola (Richmond); Catherine Pinar (Chesterfield); Marshall Winneberger (Chesterfield)	
238	**Slavic Folklore** Hunnewell (Henrico); Ben Lashley (Chesterfield); Matilde Quilici (Richmond)	
126	Skylar Schuetze (Henrico) Lauren Blake (Richmond)	Empowering Diversity: Assessing the Role of Ranked Choice Voting in Inclusive Democracy Rolling the Dice on Democracy: Unveiling the Role of Referenda through Richmond's Casino Debacle
202	Shreesh Kalagi (Henrico) Aashka Shah (Henrico)	Myoblast Injection Therapy: A Look into Novel Muscular Regeneration Techniques The Impact of Historical Discriminatory Practices on Current Cancer Outcomes
204	Hareem Mubashar (Chesterfield) Yuna Chen (Henrico)	All the Things that Divide Us: Immigration Law and the Implications of Gentrified Eugenics Hold!: An Exploration of the Visual and Auditory World in Theater
237	Natalie Xie (Henrico) Sruthi Vegunta (Henrico)	Applying the Hippocratic Oath Outside the OR: Methods for Managing and Mitigating Medical Waste Intellectual Property and the Rise of AI
244	Risshi Naavaal (Henrico) Devesh Kumar (Henrico)	Optimizing Generative AI Output by Varying Model Settings for Improved Performance An Ensemble Approach for Improving Model-Based Reinforcement Learning in Robotic Control
301	Rachael Sharon-Gupta (Chest.) Prisha Shah (Hanover)	Mother Knows Best? Contrasting Perceptions of Neuromuscular Disorder by Patient vs. Patient's Mother Sugar, Yes Please: Comparing Fabrication Methods for Low-Cost Continuous Glucose Monitors
303	Jenna Minor (Prince George) Bridget Plank (Richmond)	Building up Bambinos: Sensory and Motor Development in Infants Botox or Botoxic: The Effect of Botox Injections on Overall Well-Being
313	Emily Rucker (Chesterfield) Grace Yoo (Chesterfield)	Behind the Strain: Patterns, Origins, and Preventative Measures for Lower Back Injuries in Young Athletes A Survival Guide to Diagnosing Pediatric Skin Conditions
334	Aliya Ather (Chesterfield) Lucy Holmstrom (Chesterfield)	Closing Healthcare Disparities to Minimize SUDEP (Sudden Unexpected Death In Epilepsy) The Fentanyl Crisis and Drugs in America: An Assessment of Drug Programs in Henrico Country
201	Imran Aly M. Rassiwalla (Hen.) Jackson DeHaven (Hanover)	"A Hidden War": Iran's Sanction Evasion and the future of America's Economic Dominance How Underpaid Can a Public Defender Be: Evaluating the Constitutionality of Modern Indigent Defense

BLOCK FOUR: 1:50-3:10

ROOM	STUDENT/SEMINAR	TITLE
Auditorium	**Digital Video** Christine Datovech (Hanover); Patrick Doherty (Chesterfield); Oliver Frankel (Richmond); Blake Gilman (Goochland); Virginia Griffin (Richmond); Saxon Kelleher (Hanover); Chloe Larimer (Chesterfield); Jalaiya Moore (King & Queen); Tobias Moore (Richmond); Aiden Vick (Richmond)	
Blackbox	**Black Literature/Black Lives: African American History and Culture** Lillian Claiborne (Richmond); Olivia Elliott (Chesterfield); Chelsea Hagan (Chesterfield); Chae Jones (Charles City); Ansa Kanwal (Chesterfield); Cory Wagaman-Eure (Richmond)	
238	**Slavic Folklore** Ryder Bray (Richmond); Grace Crislip (Richmond); Lily Postma (Chesterfield);	
126	Aarav Kalluri (Chesterfield) Bilal Ahmad (Henrico)	A Comparison of Superficial Siderosis and Alzheimer's Disease Circulating Tumor DNA: A Predictor of Colorectal Cancer Recurrence
202	James Sneddon (Richmond) Milind Murthy (Richmond)	Punching Above Your Weight: How Data Analytics allow Soccer Teams to Level the Playing Field How to have that Dogg in you: A Deep Dive Into Culturally Impactful Advertising
204	Yeeva Chunnanond (Hanover) Gavin Hoyt (Henrico)	"Dang, That's Really Far Away": Comparing Linear, Atmospheric, Focus, And Isometric Perspectives The Music of Marketing: an Exploration of Business
237	Sivani Nemani (Henrico) Natalie Koehn-Wu (Hanover)	Where's My Vape!? The Role of Parents and Community in Youth Tobacco Use Brain Basics: A Year in Neuroscience
Forum	Nithya Ravula (Henrico) Sowmya Narra (Henrico)	Nanotechnology in our Environment Fostering Learning Equality and Enhancing Accessibility for Blind/Visually Impaired Children with a 3D Scratch Interface
201	Shorya Malani (Henrico) Lydia Woodall (New Kent)	Examining localization in robotics Fault Injection Testing in Quadcopter Drone Systems
301	Nishka Patel (Chesterfield) Ishaan Dave (Chesterfield)	Exoplanets: Which One's Our Best Chance at Life? Cobotics: The Art and Application of Human-Robot Collaboration
303	Nitya Goyal (Henrico) Sania Jain (Henrico)	Cyclic Voltammetry and Its Applications The Dish on Dining: Starting a Restaurant
313	Rohini Mudinur (Henrico) Kasia- Esmeralda Wasiak (Henrico)	The Dictionary of Bioethics Death and Birth: Why Are American Mothers Still Dying?
334	Owen Miller (Chesterfield) Rehaan Jain (Chesterfield)	Modern Impacts of Primary Care Orthopedic Surgery: ACLs and 3D Printing
244	Parth Tornekar (Henrico)	The Fault in Our Chairs: The Fusion of Material Science, Accessible Design, and Psychology in Furniture