



UNDERGRADUATE CONFERENCE

April 17

For Research and Creative Practice

**HAMMOND HALL
8 AM – 12:10 PM**

Student presentations of creativity
and scholarship that proudly define
our campus community.

- Poster & Oral Presentations
- Creative Writing Showcase
- Roundtable Discussions
- Lightning Talks



fitchburgstate.edu/ug-conference



April 17, 2025

UNDERGRADUATE CONFERENCE

Breakfast & Student Presenter Registration

8:00 – 8:40 AM | Hammond Hall, Ground Level Lobby



Welcome Reception

8:20 – 8:40 AM | Hammond Hall, Ellis White Lecture Hall

Featured Performer: Autumn Hughes

Collaborative Pianist: Alanna Rantala

Songs: “Lullaby of Birdland” (George Shearing)

“Dream a Little Dream of Me” (Andre and Schwandt)

“Voi lo sapete, o mamma” (Mascagni)

Welcome: Provost and Vice-President for Academic Affairs, Patricia Marshall;
and Conference Co-chair, Jessica Alsup

SESSION 1 | 8:50 – 9:50 AM

Hammond Hall (various locations—see descriptions)

ORAL PRESENTATIONS

Hammond G01 — Analyses of Power in Historical and Literary Contexts

- Joenys Carrasquillo: *Personal Histories, Collective Struggles: The Latino Memoir and its Evolution*
- Vivienne Charpentier: *Defanged: The Loss of Political Messaging when Adapting for The Big Screen*
- Liam Lucas-Mullen: “The Dorr Party is for Polk and Dallas and the Polk and Dallas Party is for Dorr”: *Whig News Media, the Dorr Rebellion, and the 1844 Presidential Election*

Hammond G01B — Community Internships and Collaborations

- Christopher Black: *Townsend Police Department*
- Tyrian Hobbs: *Logical Pedagogy: In Minecraft*
- Savannah Caldbeck: *Turning the Page Toward Community-Oriented Design*

Ellis White Lecture Hall — Documentary Films

- Samantha Rozum: *Different Impacts Women Make In The Hockey Industry*
- Luke Donabedian: *Head in The Clouds - Documentary*

Hammond S06 Conference Room — Biology of Muscular Dystrophy

- Chakri Gudimella: *Histology Analysis of Dysferlinopathy Patterns in Mouse Muscle Models*
- Jocelyn Sok: *Dysferlinopathy: Exploring 4-PBA Therapeutics, Cellular Dynamics, and Immune Mechanisms*

LIGHTNING TALKS

Hammond G19 Meeting Room

- Landon Edwards: *Controversy of the Atomic Bombs*
- Caroline De Andrade Maciel: *Solar Energy Monitoring and Sun Tracking System*
- Alexis Desimone: *Massachusetts State Police Mounted Unit: A Different Side of Law Enforcement*
- Isabel Lemek: *Reflections on My Geographic Information Systems (GIS) for Criminal Justice Teaching Practicum*
- Ahna Gainey: *Feature-Length Screenwriting Project*
- Owen Barry: *Peace Through Terror*

ROUNDTABLE DISCUSSION

Hammond G11 Conference Room

- Kiera James, Alyssa Cyr, Konama Adusei, Caitlin Moriarty, Gianna Murray, Matthew Gill, Sydney Baumber, Paige Spurr; Vivienne Charpentier: *PreK-12 Education Experience in Italy*

SESSION 2 | 10:00 – 11:00 AM

Hammond Hall (various locations—see descriptions)

ORAL PRESENTATIONS

Hammond G01 Meeting Room — Addressing the Digital Divide with Digital Literacy

- Madison Ambrogi & Sara Beulac: *Navigating the Digital Equity Gap Using GIS and GPS*
- Stetson Daisy & Ronan Eaton: *Patching the Digital Divide in Fitchburg Through Programming Education*
- Ethan Chaco & Alexis Raymond: *Digital Navigators at the Armory Senior Center, Fitchburg, MA*
- Zachary Fischer & Asha Speller: *Empowering Fitchburg's Elders Through Digital Literacy*

Hammond G01B Meeting Room — The Lived Experiences of Indigenous Peoples and Immigrants

- Nicholas Valdez-Bojorquez: *An Examination of Immigration and the Learned Values of Second Generation Children*
- Alexia Perez-Lucas: *United Nations Declaration on the Rights of Indigenous Peoples*

Hammond G11 Conference Room — Modern Business Challenges and Solutions

- Oliver Cookson: *Allostake : Private Investment For All*
- Cristal Crespo: *Women as Executives: How Deep is the Underrepresentation?*

Hammond G19 Meeting Room — Visual Art Creation and Analysis

- Alex Febbrile: *Treat Your Background as a Character: An Analysis of "The Grand Budapest Hotel"*
- Matthew Messina: *Quiet Hours*
- Owen Bonney: *The Grey World (a short film by Owen Bonney)*
- Benjamin Sweet: *The Institutionalization of Van Gogh's Work*

CREATIVE WRITING SHOWCASE

Hammond G02 Ellis White Lecture Hall

- Adriana Kruger: *I Am a Hollow Feminist and To Grammy*
- Matilda Goad: *Sea Sick / Reel 'er In*
- Gina Vilayphone: *MOTHER: A Poetic Journey of the Soul*
- Fred Auguste: *Music Makes You Lose Control*

SESSION 3 | 11:10 AM – 12:10 PM

Hammond Hall (various locations—see descriptions)

POSTER SESSION

Library First Floor & Tower Lobby (exit the Library and follow signs diagonally to the left)

- Aria DiCato: *Let's Talk Drugs: How Psilocybin Assisted Therapy is Making Headways in Alcohol Addiction Recovery*
- Luke Perron, Matthew Mendrella, and Caitlin Legvold: *MDMA and PTSD: Clinical Advances, Neurobiological Mechanisms, and the Regulatory Process*
- Mason Primrose: *Antimalarial Drugs and Hemozoin Formation*
- Daniel Munoz: *Synthesis and Characterization of Iridium Complexes of Nonsteroidal Anti-Inflammatory Drugs: Exploring Potential Biological Applications*
- Marisa Ferreira: *Analysis of Novel tRNA-dependent Riboswitches in *Bacillus cereus* and *Bacillus anthracis**
- Jocelyn Sok: *Exploring the Evolution of DNase II*
- Brooke Sullivan: *Neutrophil Effector Functions and Metabolic Activity*
- Alyssa Booker: *Observing Dysferlin Function Through Production in Immune Cells and Membrane Repair in Mouse Myoblasts*
- Jameson Dillon: *Teaching about Positive Parasites: Insect Parasites and Their Hosts*
- Shania Rodriguez Acevedo: *The Importance of History in Shaping The Early Childhood Educator*
- Emily Dwyer: *The Effects of Parent Training on Children's Use of Augmentative and Alternative Communication (AAC) Systems*
- Jorge Merino: *Aesthetics Research on Trump*
- Lauren Ruffing: *#TikTokMadeMeBuyIt: A Study of the Psychology Behind Manipulative Marketing and Capitalizing On Consumer Anxieties*
- Esther Maia: *How Target Market Shifts Revitalize Brands*
- Jarrod Bowser: *The Business of being an influencer on YouTube*
- Lina Kherallah: *The Role of Social Media Influencers on Consumer Behavior*
- Jayd Moreau: *Economic Recessions and the Accounting Profession: How Financial Reporting Contributes to Economic Downturns*
- Mackenzie Dodge and Emily Pryer: *Exploring Probabilities with Simulations and Yahtzee*
- Carolina Dykes: *Appellate Brief: 5th and 1st Amendment*
- Campbell Greeley: *College Admissions in DEI*
- Taylor Senecal: *The Impact of Athletic Season on Academic Performance: A Comparison of In-Season and Off-Season Academic Performance in Division III Collegiate Student-Athletes*
- Julia Arena: *Medial Tibial Stress Syndrome: A Review of Literature on Etiology, Treatment, and Related Conditions*
- Autumn Garceau: *Effects of Competition Order in Elite Gymnastics*
- Jessica Patel Grit: *Should we be treating it as a one-size-fits-all solution?*
- Alexandra Granchelli: *Relationship between mental toughness, life satisfaction, mental wellbeing, and academic performance*
- Cassandra Israelson: *More Than an Athlete*
- Skye Goba Student: *Athlete Documentary Film*
- Zachary Amidon: *The Feeling of Lofi Music Captured Through Art*
- Deacon Kelly: *Feminism in East Asia: A Book Report*
- Delaney Ponder: *Correlations between cyber victimization, empathy, and assertiveness*
- Avyah Gooding: *The Absence of Racial Diversity in Leadership Roles in U.S. Hospitals*

- Maryam Ashraf: *Endurance in an Emergency: A Nurse's Role in a Disaster Event*
- Macey Bridge: *Nurse-led Triage in the Emergency Department — Challenges and Improvements: A Literature Review*
- Kris Olivero (L'Heureux): *Global Public Health in Costa Rica*
- Mecca Taylor-Robinson: *Synthesis of Resveratrol Analogues via Perkin Condensation*
- Isabel Lemek: *Making Waves: Glass Cullet as a Sand Alternative for Beach Renourishment*
- Emily Klein: *The Effects of Climate Change-Induced Wildfires on Soil*
- Alyssa Beaulieu: *The Role of Physics in Vestibular & Balance Therapy*
- Devin Connery: *Surface Water and Soil Analysis of a Central Massachusetts Watershed*
- Desmond Hart: *The Impact of Sampling*
- Aster Torres: *Xenoblade Chronicles: The Four Pillars of Game Immersion*
- Kyle Connell: *Fan-Games and ROM Hacks*
- Benjamin Adams: *Small Movements: Motion Capture Animators And Their Hidden Roles in Filmmaking*
- Vincent Hussey-Cerqueira: *Hungry for More*
- Aidan King: *Visualizing "The Thing" in Wells and Welles' War of the Worlds: Constructing Realities of Hysteria on Film*
- Nicholas Solimine: *Portrait Film (working title)*
- Maurice Dingle II: *The Beauty of Adaptation*
- Michaela Cullen: *"The Future's Bright ... Dazzling" The Battle Between Authenticity and Industry for Female Entertainers*
- Joshua Iacoboni: *Email Filter Powered By a Local Large Language Model*
- Ali Toprak: *Security Camera Control Board with Wi-Fi Module*
- Emily Thipphavong and Joseph Conlon: *Silicon Wafer Drybox Automated Reporting & Cost Saving*
- Michael Ouellet, Chris Mongiat, and Devin Brunelle: *Digital Date Type Converter/Calculator*
- Youssef Hassan, Michael Rainville, and Rashad Kidd Arduino: *Traffic Light*
- Corrin Cloutier and Jefferson James: *Lighting the Way to Sustainability: The Multifaceted Benefits of Light Shelves*
- Jacob Moody, Cameron Cunningham, Taylor Hanks and Jovanni Merced: *Building the Future: The Impact of Prefabrication on Modern Construction?*
- Elijah Boudreau: *Design of a Flexible, Low Cost Robotic System*
- Celia Dunmore, Ana Palacio, Diana Marquez Frias, and Kyler Santiago: *The Cherry On Top*
- Bhim Mishra, Ginneta Abaidoo, and Anthony Mahoney: *Food Delivery Package*
- Jack Johansen, Samuel Rennick, Zackery Diamont, and Jacob Balsamo: *Horizontal Construction, Evolution in Today's World*
- Caitlyn Curley, Anna Gauvin, and Celia Dunmore: *Sustainability in Building Design & Construction: The Earthship Concept*

Lunch for Conference Participants, Attendees, and Families



12:10 – 1:00 PM | Falcon Hub, Hammond Hall

12:30 PM — AWARDS / PRIZES

R.A. Salvatore Creative Writing Prizes presented by DeMisty Bellinger-Delfeld

- Creative Nonfiction
- Fiction
- Game Narrative
- Poetry
- Script / Play

Undergraduate Research Conference Awards presented by Conference Co-chair Jessica Alsup

- Outstanding Creative Writing Award
- Outstanding Visual Arts / Media Award
- Outstanding Lightning Talk Award
- Outstanding Oral Presentation Awards
- Outstanding Poster Presentation Award: Natural and Health Sciences
- Outstanding Poster Presentation Award: Humanities and Social Sciences

12:40 PM — CLOSING REMARKS

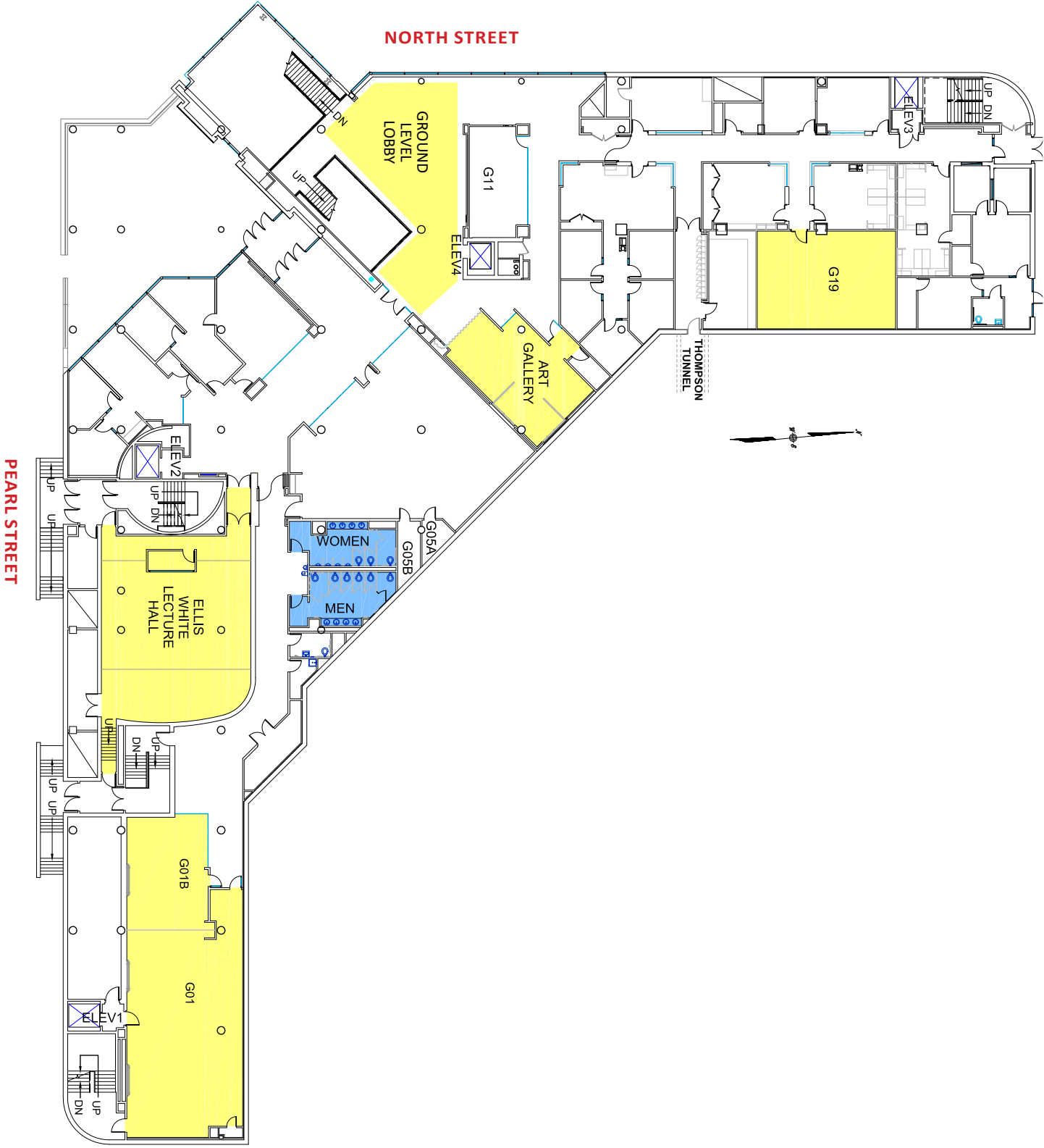
Conference Co-chair Jessica Alsup

Arteries Gallery Exhibit

Hammond Art Gallery | Ground Level Lobby, Hammond Hall (Last Day of the Exhibit)

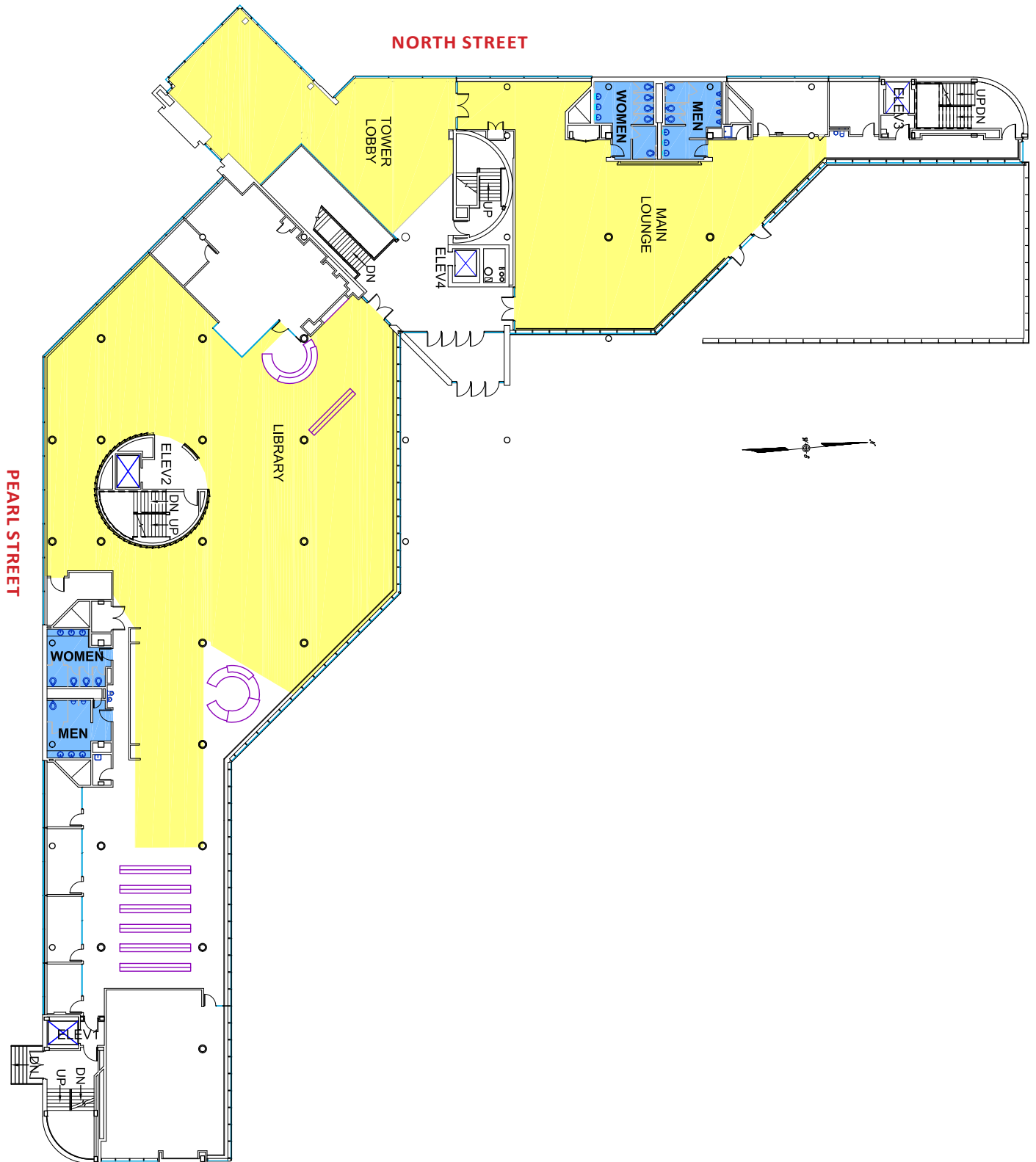
ARTeries is an annual student art exhibition organized by the art faculty that showcases work in a wide range of artistic media, including drawing, painting, sculpture, and mixed-media artworks. These students

Hammond Hall
GROUND LEVEL



Hammond Hall

FIRST FLOOR

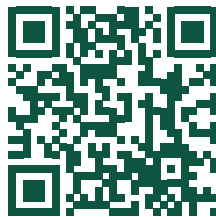




**We want to hear from YOU
about your Conference experience!**

At the end of the event, please scan this QR code
and take our very short survey about what you
liked, and what could be improved.

We would especially like to hear from undergrad-
uate students. This is your conference, so please
tell us what you do and don't like about it, so we
can make it even better next year!



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