ASEE-GSW 2024

CANYON,TX

MARCH 10-12

LOCATION

WEST TEXAS A&M UNIVERSITY

PRESENTED BY

COLLEGE OF ENGINEERING

ASEE-GSW 2024

HELD ON THE CAMPUS OF WEST TEXAS A&M
UNIVERSITY IN CANYON, TEXAS

SCHEDULE

Day	Time	Details	Location
Sunday	**6:00 - 8:00pm**	**Registration, Welcome Reception, and Panhandle Plains Historical Museum Tour**	2503 4th Ave, Canyon, TX 79015
Monday	**9:00 - 10:00am**	**Breakfast and coffee**	College of Engineering Upstairs Foyer
	10:00am - 12:00pm	**Breakout Sessions**	
		Lunch	
	1:30 - 4:30pm	**Breakout Sessions**	
	6:00 - 8:00pm	**Banquet & Poster Display**	Fairly Club
Tuesday	**8:30 - 9:00am**	**Breakfast and coffee**	College of Engineering Upstairs Foyer
	9:00am - 12:30pm	**Breakout Sessions**	
	12:30 - 1:30pm	**Lunch and GSW Section Meeting**	
	1:30pm	**Hike Palo Duro Canyon (Optional)**	

MONDAY - ROOM 1

Time			Title	Speaker
10:00 - 10:20	ECEDU	44758	**Embedding Teamwork Skills in Mechanical Engineering Curriculum**	Shadi Balawi
10:20 - 10:40	ECEDU	44708	**iBMEntored Buddy Program for First-Year International BME Doctoral Students**	Huiliang Wang
10:40 -11:00	ECEDU	44709	**Welcome to the Evan & Eddie Show!: Conversations about career journeys**	Mia K Markey
11:00 - 11:20	ECEDU	44710	**The Impacts of Reflective Writing on Peer Evaluations in Engineering Design Courses**	Adam Weaver
11:20 - 11:40	ECEDU	44749	**Inclusive Assessment and SDGs**	Kendra Lee Wallis
11:40 - 12:00	ECEDU	44732	**The JUMP into STEM - The Second Experience**	Nelson Furno
12:00 - 12:20	ECEDU	44734	**Twenty Years and Beyond of Engineering at West Texas A&M University**	Kenneth R Leitch
12:30 - 1:30	**BREAK**		**LUNCH**	
1:30 - 1:50	ECEDU	44760	**From Conventional Wisdom to Evidence-Based Practice: Validation of Programmatic Design Decisions in Engineering Doctoral Education**	Jennifer A Cross
1:50 - 2:10	ECEDU	44559	**Community Cultural Wealth of Hispanic Engineering Students: A Study of Social Networks**	Benjamin C. Flores
2:10 - 2:30	ECEDU	44731	**Defining the Murky Middle for an Engineering Program**	Pam Lockwood-Cooke

2:30 - 2:50	ECEDU	44772	An Effective Heuristic to Reduce Total Flowtime for Randomly - Strutured Flowshop Problems	Arun John Abraham
2:50 - 3:10			**BREAK**	
3:10- 3:30	COLLAB	44578	**Global Experience in Undergraduate Engineering Programs at Texas Tech University**	Nurcan Bae
3:30 - 3:50	COLLAB	44712	Engaging Industry in a Chemical Engineering Program at a Hispanic-serving Institution	Matthew Lucian Alexander
3:50- 4:10	COLLAB	44717	Bridging the Gap: A Mixed-Methods Study of Engineering Internships Through Surveys and Interviews	Abigail Nichole Lehto
4:10 - 4:30	COLLAB	44747	How Can Managed Retreat Solutions be Just, Fair, Economical, and Environmentally Sustainable?	Maria Dalton

MONDAY - ROOM 2

Time			Title	Speaker
10:00 - 10:20	INNOV	44774	**Undergraduate Research at a Regional PUI**	**Kenneth Leitch**
10:20 - 10:40	INNOV	44746	**Development and Optimization of a JD-Printed Microfluidic Device with Enhanced Transparency for Bioimaging Applications**	**Ana Aviles Vargas**
10:40 -11:00	INNOV	44759	**Development of a Battery Powered Vehicle Model for Integration into Elementary School Science Curricula**	**David Yu**
11:00 -11:20	INNOV	44762	**Inferring the Relative Location of Assets utilizing Received Signal Strength Indicator Value of Existing Network Architecture**	**Daniel Garza**
11:20 -11:40	INNOV	44770	**Effects of Pores on 3D Printed Polymer in Tension**	**Ryan McGuire**
11:40 - 12:00	INNOV	44773	**Utilizing Fundamental Concepts of Engineering Design and Theory to Teach Thermo-fluid Applications**	**Saman Aria**
12:30 - 1:30	**BREAK**		**LUNCH**	
1:30 - 1:50	ECEDU	44598	**Projects for Waste Reduction in an Intro to Engineering Course**	**Raj Desai**
1:50 - 2:10	ECEDU	44735	**Improving students' ability to generate solutions to engineering problems through observing nature**	**John Carrell**
2:10 - 2:30	ECEDU	44756	**Teaching concepts in STEM to two generations through senior capstone projects**	**Shadi Balawi**

MONDAY - ROOM 2

Time				Author
2:30 - 2:50	ECEDU	44761	**Experiential Learning Utilizing Class and Lab Demos in a Material Science and Manufacturing Course**	Shadi Balawi
2:50 -3:10			**BREAK**	
3:10 - 3:30	ECEDU	44601	**Implementation of non-linear oscillators using analog computers for the study of chaotic oscillators**	Hector Erives
3:30 - 3:50	ECEDU	44736	**Engage to Retain: Active Learning at the Conclusion of Traditional Lectures**	Amir Karimi
3:50 - 4:10	ECEDU	44745	**Using Projects to Improve Student Engagement and Retention in a First-Year Engineering Course**	Matthew Kuester
4:10 -4:30	ECEDU	44773	**Revolutionizing Engineering Education: Bridging Theory with Practice through Microfluidics and Material Characterization**	Saman Aria

MONDAY - FAIRLY CLUB

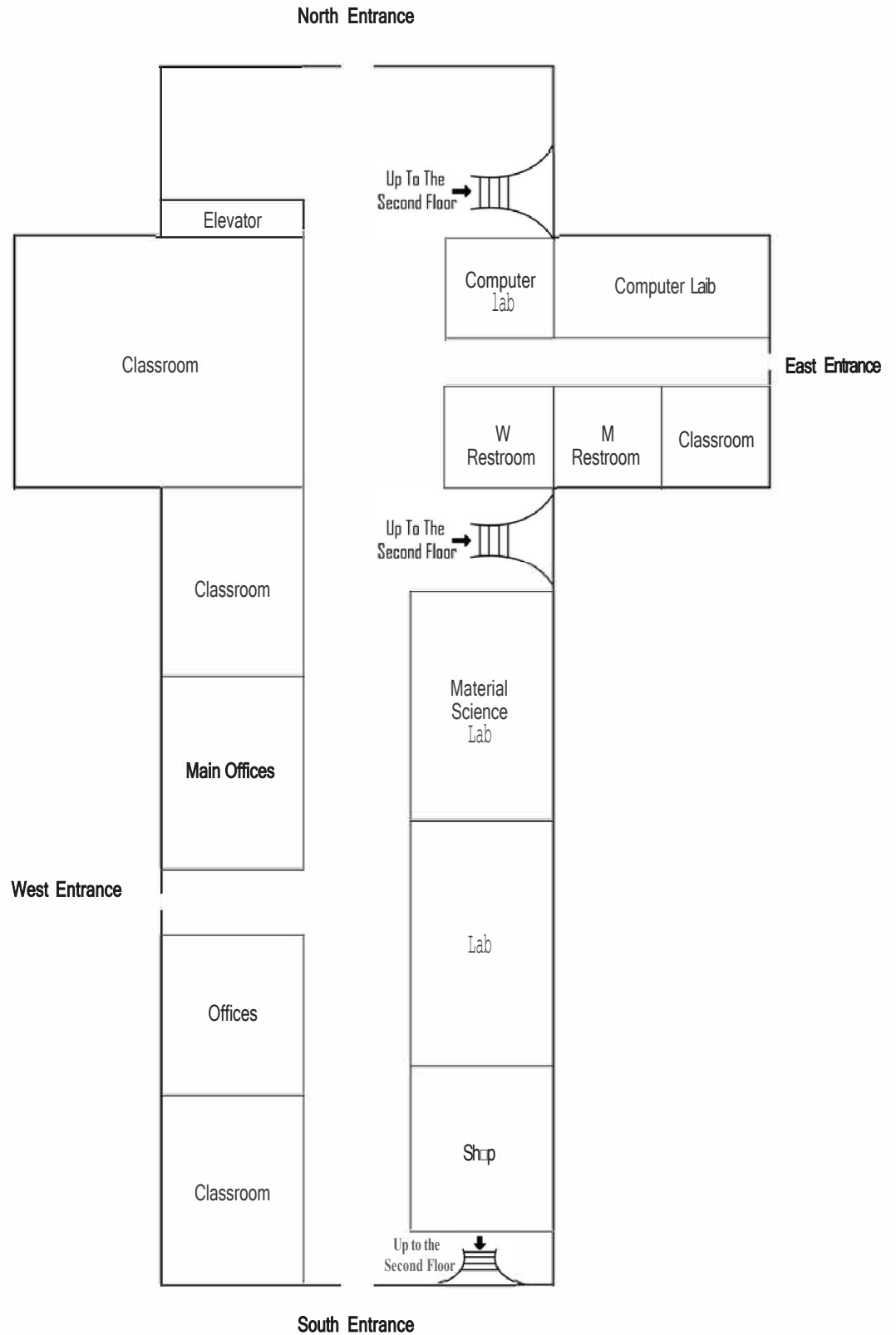| Time			Title	Speaker
6:00 - 8:00pm				
	POSTER	44741	**Mitigating Energy Inefficiency: A Cost-Effective Approach to Cool Attic Spaces in Lower-Income Households in the Southeastern United States**	Md Irfan Khan
	POSTER	44742	**Incorporating Non-Destructive Inspection Technologies into Engineering Technology Curricula to Meet Industry Needs**	Mathew Kuttolamadom
	POSTER	44743	**Enhancing Engineering Education through Mentorship**	Helen Elizabeth Geller
	POSTER	44775	**Application of Engineering Design Principles to Design and Build Solid Propellant Analysis Machine**	Saman Aria
	POSTER	44778	**The Feasibility of Using WBE and GIS to Monitor COVID-19 in a Small Town or Rural Setting**	Colin M. Voiles
	POSTER	44757	**Portable Hugs: A Wearable Deep Pressure Application Device for Sensory Overstimulation**	Varsha Thomas
	POSTER	44744	**Characterization of Physiochemical Surface Properties in Neural Cell Fates**	Denise Emily Pahang

TUESDAY - ROOM 1

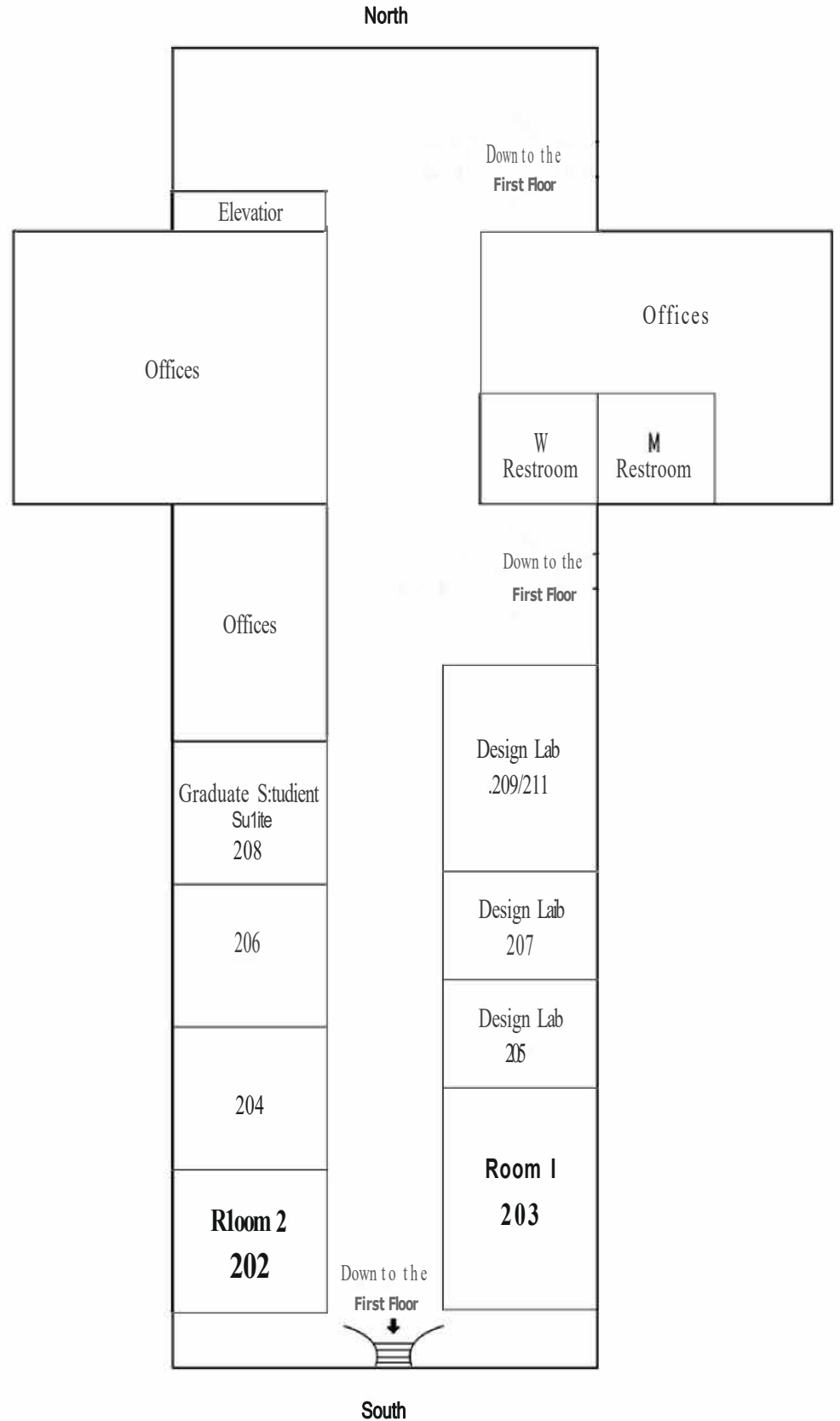| Time			Title	Speaker
9:00 - 9:20	ECEDU	44752	**A Design Framework for Screenless User Interfaces**	**Christian Saeed Daftarian**
9:20 - 9:40	ECEDU	44730	**Uses and Misuses of AI-assisted writing in Engineering Reports**	**Randall D. Manteufel**
9:40 -10:00	ECEDU	44733	**Enhancing Educational Experiences: Integrating Unreal Engine Simulations in Laboratory Learning**	**Oscar Delgado**
10:00 - 10:20	ECEDU	44748	**Predictive Learning Models Based on Student Engagement on Engineering Education**	**Logan Michael Heck**
10:20 - 10:40	ECEDU	44754	**Demystifying Cybersecurity Experiential Learning for Operational Technologies (OT) and Industrial Control Systems (ICS)**	**Eman Hammad**
10:40 -11:00			**BREAK**	
11:00 -11:20	ECEDU	44737	**Understanding Faculty and Student perceptions of ChatGPT**	**Lance Leon Allen White**
11:20 -11:40	ECEDU	44750	**Towards Models for Cybersecurity Summer Research Institutes for Undergraduate Engagement and Education**	**Eman Hammad**
11:40 - 12:00	ECEDU	44755	**3D Shakespeare: A Transdisciplinary Activity to Enhance Real-World Learning Experience in Engineering and Humanities Education**	**Gongchen Sun**
12:00 - 12:20	INNOV	44767	**Enhancing Education Through Thoughtful Integration of Large Language Models in Assigned Work**	**Tonia Haikal**
1:30			**Hike Palo Duro Canyon (Optional)**	

FIRST FLOOR

BUILDING MAP

WEST TEXAS A&M UNIVERSITY · COLLEGE OF ENGINEERING

North Entrance

Up To The Second Floor →

Elevator

Computer lab

Computer Laib

Classroom

East Entrance

W Restroom

M Restroom

Classroom

Classroom

Up To The Second Floor →

Main Offices

Material Science Lab

West Entrance

Offices

Lab

Classroom

Shop

Up to the Second Floor ↓

South Entrance

SECOND FLOOR

North

Elevatior

Offices

Offices

W Restroom

M Restroom

Offices

Offices

Design Lab
.209/211

Graduate S:tudient
Su1ite
208

206

Design Laib
207

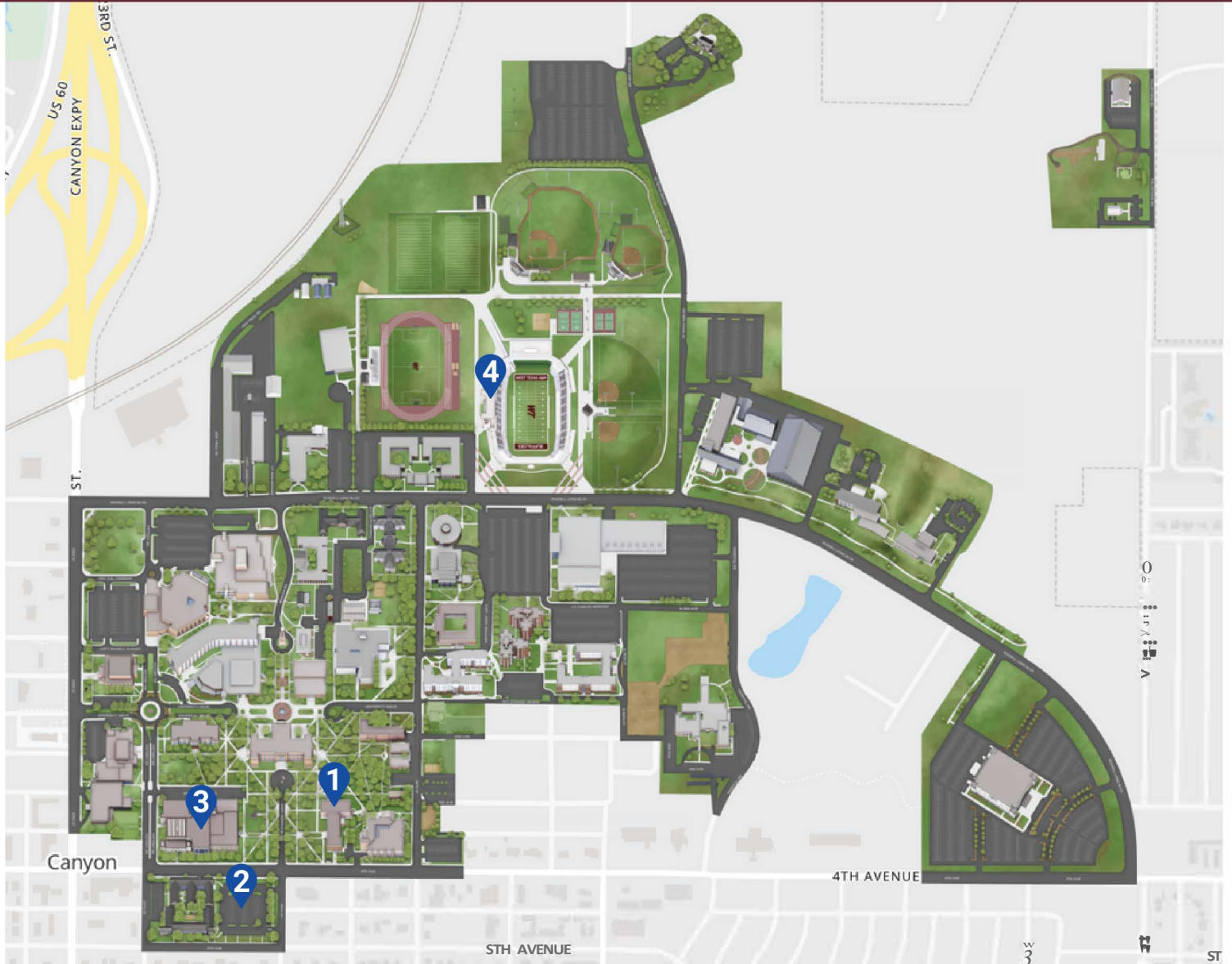Design Lab
205

204

Room I

203

Rloom 2

202

South

CAMPUS MAP

1 - **College of Engineering- 2513 4th Ave, Canyon, TX 79015**

2 - **Parking - 2400 4th Ave, Canyon, TX 79015**

3 - **Panhandle-Plains Historical Museum - 2503 4th Ave, Canyon, TX 79015**

4 - **Fairly Club - 2609 Russell Long Blvd, Canyon, TX 79015**