

Schedule of Events

9:30 am	Dean's Welcome
10:00 am - noon	Concurrent Design Presentations
Noon - 1:00 pm	Lunch Break
1:00 - 3:00 pm	Concurrent Design Presentations



SENIOR DESIGN CONFERENCE

FRIDAY, MAY 2, 2025

Discipline Abbreviations

AE = Architectural Engineering	EE = Electrical Engineering
CH = Chemical Engineering	EV = Environmental Engineering
CE = Civil Engineering	ME = Mechanical Engineering
CS = Computer Science	MD = Multi-Disciplinary Projects

FRANK H. DOTTERWEICH COLLEGE OF ENGINEERING

Room	ENGC 113	ENGC 109	ENGC 107	ENGC 275	ENGC 136	ENGC 138
Session	Chemical	Mechanical	Electrical	Civil	Architectural	Computer Science
Moderator	Dr. Joseph Amaya	Dr. Selahattin Ozcelik	Dr. Sung-Won Park	Dr. Fouzieh Rouzmehr	Dr. Amir Hessami	Dr. Dunren Che
Staff	Elizabeth True-Hill	Tony Ramirez	Ida Enz	Natalynn Luera	Chrissy Reyes	Theresa Walker
10:00 am	CH1 - Vinyl Chloride Production	ME1 - Design and Analysis of a SCARA Robotic Mechanism	EE1 - Smart Garage Control & Monitoring System	CE1 - Porky's Arcade	AE1 - Design of TAMUK New Growth Center	CS1 - The Pet Place
10:30 am	CH2 - Renewable Ethanol Synthesis from Corn	ME2 - Closed Loop Cooling System for EV Batteries	EE2 - The Hive	CE2 - Javelina Corral	AE2 - Design of TAMUK College of Nursing	CS2 - FPGA Accelerated ML Phishing Detection
11:00 am	CH3 - Bioethanol from Corn Stover	ME3 - Design of Dust Mitigation Device for Extraterrestrial Conditions	EE3 - Tech Met	CE3 - Pillar Point Dormitories	AE3 - Javelina Den	CS3 - Auto Crash Detection
11:30 am	CH4 - Liquefied Natural Gas Plant Design	ME4 - Microturbine Exhaust Heat Reclamation System	EE4 - Facial Recognition Door Lock System	CE4 - Cattleman's Catch	AE4 - Design of L.O.G.X. Center	CS4 - Squadron
Noon LUNCH BREAK						
Session	Multi-Disciplinary	Mechanical	Multi-Disciplinary	Environmental	Architectural	Computer Science
Moderator	Dr. Joseph Amaya	Dr. Selahattin Ozcelik	Dr. Sung-Won Park	Dr. Fouzieh Rouzmehr	Dr. Amir Hessami	Dr. Dunren Che
Staff	Elizabeth True-Hill	Tony Ramirez	Ida Enz	Natalynn Luera	Chrissy Reyes	Theresa Walker
1:00 pm	MD2 - Transmission Pipeline and LNG Plant Design	ME5 - Design of a Hydraulic Arm for Industrial Applications	MD1 - TAMUK Smart Parking Lot System - IoT: Internet of Things Approach	EV1 - Sustainable Coastal Flood Prevention Solutions for Rockport, Texas	AE5 - Design of Buc-ee's Gas Station	CS5 - Captured Garden
1:30 pm	-	ME6 - Design of an Extraterrestrial Human Powered Rover	-	-	AE6 - Design of Kingsville County Fire Station	CS6 - BioWare
2:00 pm	-	ME7 - Mechanical Infrastructure for a Cumene Chemical Process	-	-	-	CS7 - Step Saga
2:30 pm	-	-	-	-	-	CS8 - Student Housing App
3:00 pm CONFERENCE END						