

SENIOR DESIGN CONFERENCE – May 3, 2019

LIST OF PROJECTS

No.	Project Title	Team Members	Faculty/Mentor
Architectural Engineering			
AE1	College of Business Administration Building-Renovation	Katy Bendele Destinee Harris Casandra Ornelas Haley Wagner	Dr. Xiaoyu Liu
AE2	Kingsville Mall	Haleigh Gonzales Martin Puente Farrah Rawashdeh Raul Gonzalez	Dr. Xiaoyu Liu
AE3	Renovation of John E. Conner Museum	Miranda Gonzalez Alejandra Roldan Hefzi Gabriel Mauricio Vega Ernest Perez	Dr. Xiaoyu Liu
AE4	SUB Building Renovation	Robert Correa Allison Aldana Hannah Walters Omar Elmekabaty	Dr. Xiaoyu Liu
AE5	New Engineering Complex Building	Aaron Espericueta Vanessa Marquez Daniel Gracia Marisol Castillo	Dr. Xiaoyu Liu
AE6	Javelina Student Improvement Center	Andrea Martinez Karla Gonzalez Sally Romero Rodrigo De La Pascua	Dr. Xiaoyu Liu
AE7	Expansion of Javelina Stadium	Cristian Barriossalas Ernest Pérez Joshua Bailey Nicholas Vasquez	Dr. Xiaoyu Liu
Civil Engineering			
CE1	Rehabilitation of the West Ave A	Salem Alazimi Yaqoub Alazmi Yousef Alenezi. Zainab Alherz Marzouq Alhourri	Dr. Pat Leelani
CE2	Project Proposal for West Ave B	Mbark Alhourri Sukina Alismail Nawaf Alrashidi Nathaniel Alvarado Andrew Bujanos	Dr. Pat Leelani
CE3	Renovation of Baseball Fields 4,5,6 of Dick Kleberg Park	Isaiah Cano John Dabbs Grecia Diaz Richard Dogbey Chimenum Elenwo	Dr. Pat Leelani

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CE4	Improvement of Kingsville J.K. Northway Exposition Center	Jose Fernandez Eduardo Fortuny Cynthia Garcia Fernando Garza Roberto Garza	Dr. Pat Leelani
CE5	Verni & Blanche Hubert Field Restoration	Brittney Gonzales Alexei Gonzalez Gerardo Gonzalez Jonathan Hinshaw Kyle Kendrick	Dr. Pat Leelani
CE6	New Harbor Bridge Report	Victor Manzano Marcus Nino Isaac Ochoa Salma Pachicano	Dr. Pat Leelani
CE7	Design Rental Apartments in Corpus Christi	Vito Recio Zaira Resendez Jaime Salas David Stevenson	Dr. Pat Leelani
CE8	Reconstruction of West Corral Ave. in Kingsville TX	Roel Tovar Crystal Vela Hannah Vigil Armando Zendejas Saleh Alyami	Dr. Pat Leelani
CE9	Renovation of Kingsville Mosque	Ali Albaqshi Ahmad Almutairi Raja Almutairi Hassan Alnemer Baeijan Alotaibi	Dr. Pat Leelani
CE10	Design of New Restaurant with Sump Analysis	Hunter Kutach Frank Oranday Michael Reyes Abdallah Alenezi	Dr. Pat Leelani
CE11	The Improvement of Kingsville Hospital Facilities	Donaldo Rodriguez Kevin Saenz Ruben Singleterry Justin Buchen	Dr. Pat Leelani
CE12	Rehabilitation of Wafrah Road in Kuwait	Khaled Alaazmy Alhaylam Alajmi Zeyad Alanezi Abdulaziz Alazemi Hamad Alazemi	Dr. Pat Leelani
CE13	Rehabilitation of Al-Jahra Road in Kuwait	Mohammad Alazemi Ebraheem Albawardi Salim Albwardi Abdulaziz Aldaway Ahmad Alenezi	Dr. Pat Leelani
CE14	Restore Al Ataba Street in Baghdad	Abdullah Alghamdi Abdullah Alhusayni Israa Alkazraji Bader Almohanna Abdullah Almutairi	Dr. Pat Leelani

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CE15	Restore Alkharafi Road in Kuwait	Mohammad Alotaibi Saleh Alotaibi Naser Alqahtani Nassar Alsaeedi Mohammad Alshalahi	Dr. Pat Leelani
CE16	Desalination Water Plants in Kuwait	Saif Alshammari Thamer Alshammari Mohammad Alsuraikh Ahmed Alsuwaillem Saad Alwasmi	Dr. Pat Leelani
CE17	Design Shopping Mall in Kingsville	Yousef Alwazzan Danielle Arenas Naser Bughdadi Martin Covarrubias Bader Hashbal Mohammad Hussain	Dr. Pat Leelani
CE18	Improving Kingsville with Multi-Facilities	Pedro Moreno Oscar Ramos Farrah Rawashdeh Dahlia Reyes Hannah Walters Michael Yocum	Dr. Pat Leelani
Mechanical Engineering			
ME1	Desalination System	Alfred Aparicio Monica Nevarez Kelsie Ray	Mr. Grady Isensee
ME2	Residential Steam Heating System	Huzifa Abu-Jarad Othman Algarni Ali Alhulily Ahmad Basawad Abdullah Jumah Marwan Alharbi	Mr. Grady Isensee
ME3	Feedwater Heat Exchanger	Abdullah Aldawsari Mohammad Almutairi Abdulaziz Alqurashi	Mr. Grady Isensee
ME4	Roof Mounted Cooling Tower	Fahad Alajmi Ahmad Alazemi Mubarak Alazemi Mohammed Alheela Abdulaziz Alzamanan	Mr. Grady Isensee
ME5	TAMUK Chilled Water Loop 1 Redesign	Jose Alvarez Jerod Brunick Roberto Cordova Zachary Cruz Michael Nunez	Mr. Grady Isensee
ME6	TSGC Project: Human-Tended Inflatable Outpost	Mosa Almosbahi Jorge Banuelos Israel Flores Jared Garcia Victor Vega	Mr. Grady Isensee

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ME7	TAMUK Campus Thermal Energy Storage Tank System	Cooper Engel Gilbert Hinojosa Ashley Salinas Hayden Webel Landon Whintont	Mr. Grady Isensee
ME8	Solar Salt Steam Boiler	Colton Dobias Dominic Escobar Taylor Hamilton Noe Martinez Abraham Rodriguez	Mr. Grady Isensee
ME9	Dynamic Locking Glove	Omar Garcia Hayden McKelroy Matthew Thonsgaard Nathanael Vickery Jose Ramos	Mr. Grady Isensee
ME10	Geothermal Heat Pump	Nestor Flores Miguel Hanze Dario Leal	Mr. Grady Isensee
Multi-Disciplinary			
MD1	Solar Powered Fuel Injection System for Lawnmowers	Alejandro Barrera John Harney Alexander Rubio Robert Trevino Jonathan Silva	Dr. Shah Alam
MD2	TSGC Project: Hi Efficiency Thermal Cooling Garment	Hannah Beaty Alexia Bustamante Matthew Randolph Bianca Silerio Isaiah Wilson David Gutierrez	Dr. Choongbae Park
MD3	Central Heating and Cooling System for Cousins Hall	Melody Alfaro Daniel Guerrero Jacob Martinez Ryan Hinojosa	Dr. Hui Shen
MD4	Silent Drone	Cesar Roque Katrina Sanchez Adrian Rodriguez Francisco Gaona	Dr. Selahattin Ozcelik
Computer Science			
CS1	KingTech	Justin Contreras Alfredo Garza Francisco Geyne Kevin Reyes	Dr. David Hicks
CS2	SpaceCodets	Nicholas Bishop Micah McHugh Mitchell Weston	Dr. David Hicks
CS3	Vital Recycling	Juan Gonzalez Dangelo Hernandez Jesus Quesada	Dr. David Hicks
CS4	Garden Heroes	Dagoberto Garza Stephanie Garza Oscar Reyes Nathan Zelaya	Dr. David Hicks

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CS5	CheckUp	Joe Hernandez Thomas Jones Saul Munoz Twinklekumari Thakor	Dr. David Hicks
Electrical Engineering			
EE1	Autonomous Steering	Gabriel Rodriguez Luis Coronado Jesus De Luna	Dr. Lifford McLauchlan
EE2	Fingerprint Vehicle Starter Project	Abiodun Bello Abdullah Alzaaqi Saleh Aldawsari	Dr. Lifford McLauchlan
EE3	SMART Ignition System	Oscar Garza Baldemar Delgado Jesus Salinas Borrego Daniel Cervantes	Dr. Lifford McLauchlan
EE4	Smartcane	Firas Alhamdan Lloyd Pierre Grace Noyola Alwaleed Alhejazi	Dr. Lifford McLauchlan
EE5	Microgrid Sensor System	Luke Bernal Addison Gernhard James Henke Jason Phillips	Dr. Lifford McLauchlan
EE6	Karenia Brevis Early Detection System	Deanne Start Garrett Bragg Agustin De La Rosa Sarah Sepulveda	Dr. Lifford McLauchlan
EE7	Fool-Proof Alarm Clock	Kevin Alegria-Valenzuela Ruben Cantu Brian Williams	Dr. Lifford McLauchlan
EE8	SPOT The Smarter Outlet	Sangel Chapa Mitchell Weston Karen Oliva	Dr. Lifford McLauchlan
EE9	Voice-Activated Vehicle Control	Karla Rivera Pedro Villarreal Nicole McMillin	Dr. Lifford McLauchlan
Environmental Engineering			
EV1	Bohl's WWTP Type I Reuse Permit and Plant Expansion	Samantha Ronk Monica Guerrero Miranda De La Garza Francisco Haces Garcia Fatima Martinez	Dr. Lucy Camacho
EV2	Bohl's WWTP Type I Reuse Permit and Plant Expansion	Esperanza Aguilar Erika Hernandez Ibrahim Elkashlan Ricardo Torres	Dr. Lucy Camacho
EV3	Bohl's WWTP Type I Reuse Permit and Plant Expansion	Nicolas Ramos Jon Taliaferro Jacob Gore Juan Marin	Dr. Lucy Camacho
Chemical Engineering			

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CH1	MTBE from MeOH	Daniella Soto Elizabeth Holden Destiny Russell Sagrario Villalobos	Dr. Matthew Alexander
CH2	Cumene from Benzene	Lauren Rodriguez Samuel Wilson Chance Goodman Joseph Martinez Joe Crawford	Dr. Matthew Alexander
CH3	Methanol from Synthesis Gas	James Gallagher Kurtis Kuypers Nolan Ladewig Logan Muehlstein	Dr. Matthew Alexander
CH4	T-Butanol from Isobutane	Luis Ramirez Kenia Chapa Rolando Morin Adrian Arredondo	Dr. Matthew Alexander
CH5	Ammonia from Nitrogen and Hydrogen	Luis De La Fuente Jacorey Bingley Robert Palacios Michelle Rendon	Dr. Matthew Alexander
CH6	Aniline from Benzene	Alejandro Juarez-Navarro Jesus Iniguez Gladden Chukwu Chidubem Chukwudi	Dr. Matthew Alexander
CH7	Hydrazine from Ammonia	Alberto Hernandez Rodolfo Lara Paola Cuellar Andy Garcia Yulissa Robles	Dr. Matthew Alexander
CH8	Ethylene Glycol from Ethylene Oxide	Andrew Shows Skyler Blinka Katie Becker Belize Escobar-Ellison	Dr. Matthew Alexander
CH9	Hexene & Octene from Ethylene	Melanie Barrera Kelsey Fuchs Divina Ortiz Nicolas Recio	Dr. Matthew Alexander
CH10	Pyrolysis Oils	Laura Dame Gabriela Diaz Alexa Cano James Constante	Dr. Matthew Alexander
CH11	Ethanol from Ethylene	Derrick Bruce Alvan Chen Jordan Cole Ronald Williams	Dr. Joseph Amaya
CH12	Acetaldehyde from Acetic Acid	Jared Medina Brandon Mourer Gerardo Rodriguez Jorge Rodriguez	Dr. Joseph Amaya
CH13	Isobutylene from Isobutane	Zhehaoran Wang Walter Scott Jorge Salazar	Dr. Joseph Amaya

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CH14	Isopropanol from Propylene	Kasi Yannamani Ali Alghamdi Ian Lauer Pablo Gonzalez	Dr. Joseph Amaya
CH15	Methyl Formate from Methanol	Veronica Fisher Christina Garza Nancy Nandha Sendy Sosa Sunday Sokle	Dr. Joseph Amaya
CH16	Olefins from Methanol	Audrey Alegre Jasmine Briant Shae Smith Chelsea Robinson	Dr. Joseph Amaya
CH17	Phenol from Cumene	Derek Flores Jay-U Kamara Thomas Rogers Alex Vimolseng	Dr. Joseph Amaya
CH18	Syngas from Natural Gas	Ahmed Al Yasin Abdullah Alhajri Paul Griffith Balta Ramirez	Dr. Joseph Amaya
Natural Gas Engineering			
NG1	Oil Well Performance Analysis and Optimization	Itohan Agbonkina Sergio Arciniega Rebecca Adkins Oscar Layton Gonzalez	Dr. Jose Cabezas
NG2	Directional Drilling: Well Planning and Design	Cole Liendo Carlos Beltran Frank Thompson Raul Rojas	Dr. Jose Cabezas
NG3	Estimation of Hydrocarbons in Place and Recovery using Geological and Fluid Property Data	Ares Benitez Jacob Perez Marco Cortez Nicolas Munoz	Dr. Jose Cabezas