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L76 071-720-11 BiomedEng F Fatimah Ismail Developing a Realistic Model of an Artificial Pancreas to Deal with Type 1 Diabetes				
	L76 071-720-11 Bi	omedEng F	Fatimah Ismail	Developing a Realistic Model of an Artificial Pancreas to Deal with Type 1 Diabetes

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Loc. Proj. Num. Team Field Gender Students	Title
L78 071-740-92 T BiomedEng F Anushka Rala & Pranathi Ravipati & Sanjana Ye	
L88 072-A10-G1 Chemistry F Sreya Sreenivasan	Effect of water temperature on the brightness of luminol
L89 072-A20-C1 Chemistry F Meera Misra	Acid and Algae
L90 072-A21-A1 Chemistry F Himani Manjunath	Natural Water Purifier: Using Banana Peels to Remove Lead From Water
L91 072-A30-81 Chemistry F Aziza Mohammed	Investigating Kombucha biofilm as an alternative for other flexible materials
L96 072-A80-42 T Chemistry F Claire Tsai & Aralyn Connolly	The effect of temperature and light exposure on pigments in picked leafy greens
K96 072-B20-41 CheEnvEng F Sharon Mathew	Reducing Global Warming Using Limestone
K93 072-B31-E2 T CheEnvEng F Vedavi Kavoori & Nithya Appannagaari	Engineering a Flood Proof Safety Crate
к90 072-в41-в1 CheEnvEng F Isabelle Shay	Comparing Plants' Ability to Block Phosphate
K89 072-B42-91 CheEnvEng F Kelly Winter	Car Exhaust Filter
K85 072-B51-71 CheEnvEng F Gael Neighbors	Which type of starch makes a stronger bioplastic?
K84 072-B52-51 CheEnvEng F Sangyani Sinha	AquaWise: An Intelligent Irrigation System
K83 072-B60-51 CheEnvEng F Anagha Badriprasad	Biofuel: Testing Alternative Sources for Sustainable Biodiesel Production
K68 072-C21-B1 EarEnvSci F Elaine Lee	Impact of disposable water bottles on our oceans
к67 072-C22-91 EarEnvSci F Josephine Kwok	Iodide Content in Salt
J67 072-C32-51 EarEnvSci F Ashwini Paramesh	Can Sphagnum Moss clean our fresh water lakes and ponds?
J68 072-C40-51 EarEnvSci F Dashmi Singh	Agrofuel: The Future
J69 072-C41-31 EarEnvSci F Madeline Schumann	BiNodegradable
J70 072-C42-11 EarEnvSci F Nicole Tsioutsioulikli	The effect of the material at the bottom of the desalination device on
	the amount of the water produced by condensation.
J78 072-C61-C1 EarEnvSci F Ava Hultquist	Do cities make rivers dirtier? Measuring the change of biotoxicity and
·	organic chemical content of my city's rivers
J80 072-C70-A1 EarEnvSci F Khadeejah Khan	Are green detergents safer for the environment compared to
·	conventional detergents?
J81 072-C71-72 T EarEnvSci F Ava Alexander & Ashukem Taku	Water on water?
J83 072-C72-61 EarEnvSci F Katrina Surprenant	Which easy water filter works best
J85 072-C90-21 EarEnvSci F Sonia Swamy	BioDeDye: An eco-friendly, low-cost, agro-waste biosorbent for the
•	reduction of dye contaminants in aqueous wastes
J89 072-D10-91 PhysAstr F Nazle Rohim	Effect of Magnetic Fields on Water Flow
J90 072-D11-71 PhysAstr F Sasha Wang	Wom Wom Wom: The Effect the Length a Rear Car Window is
, and an an g	Opened on the Loudness of Side Window Buffeting
J91 072-D20-51 PhysAstr F Hoshita Undella	Testing blade angles, number of blades and blade designs of a Wind
,	Turbine for Maximum Voltage Output
J92 072-D21-31 PhysAstr F Wyndia Ohm	Mystery Spot: Does Physics, mainly those used by aerospace
	scientists contradict the claim of gravitational anomaly?
J93 072-D30-11 PhysAstr F Paulina Xu	A New Way Of Travel
J94 072-D31-G1 PhysAstr F Amrit Kohli	The Effect of Height and Friction on a Car's Ability to Make it Through a Loop
H98 072-D80-F1 PhysAstr F Nandana Shankar	Wingardium Leviosa: Make me fly!
H97 072-D90-B1 PhysAstr F Rhea Ahuja	Impact of Temperature on Magnetic Strength
H96 072-E10-11 ElecEng F Sanika lyer	Creating a Smart Fridge Using RFID Sensors to Eliminate Food Wastage
H91 072-E30-A1 ElecEng F Rishita Shah	Comparing the Feasibility and Properties of Graphene and
1121 072 E30-A1 LIGOLING I MISHIKA SHAH	Companing the reasibility and Properties of Graphetie and

Page 2 of 30

Loc.	Proj. Num. Tea	am Field	Gend	er Students	Title
	•			-	Metal-based Capacitors as an Alternative to Batteries
Н90	072-E31-81	ElecEng	F	Sudiksha Das	A Smart Solution to Prevent Drunk-Driving Accidents
Н89	072-E40-61	ElecEng	F	Arushi Sharma	Energy Harnessing Lamp Fixure
Н84	072-E70-A2	Γ ElecEng	F	Tvisha Nepani & Saloni Shah	Sit Back and Chill, Epione's Got Your Pill
Н82	072-E80-62	Γ ElecEng	F	Anika Kulkarni & Mallika Ghante	No Wifi? No Problem!
н78	072-F11-81	MechEng	F	Noa Reyzblat	How will change the height of water dropping impact the amount of
					electricity created?
Н73	072-F21-41	MechEng		Rebecca Kapiloff	Creating a Step stool for Shopping Carts
Н72	072-F22-12			Karen Glenn & Zoe Adler	Organize? No Problem; a Modular Locker Organization System
	072-F31-H1	MechEng		Micaela Swift	Engineering a Solar Oven
Н67	072-F32-E2	Γ MechEng		Dylan Kutcher & Sophie Rothstein	Making it Rainbow: Making Exact RGB Color Value Frosting
G66	072-F40-E2			Caitlin Nguyen & Taylor Wong & Lauren Taffe	Smart Car Seat
	072-F41-D1	MechEng		Taylor Tam	What Effect Does the Angle of an Airplane Wing Have on Lift and Drag
	072-F50-A2			Romina Blanco-Sarmiento & Sarah Honer & Miranda Gutierrez	Operation Cut Free (OCF)
G71	072-F51-91	MechEng		Elodie Tam	A Simple Human-Like Robotic Leg
G72	072-F52-71	MechEng	F	Jennifer Dick-Peddie	Designing an Autogyro to Accurately Deliver a Payload to a
					Designated Landing Zone with the Slowest Descent Rate
	072-F60-62			Rosie Chen & Javeria Ahmed & Ynna Sophia Buriel	The Greenhouse of the future
	072-F62-22			Shelby Schuberg & Stephanie Vu & Chaela Zaide	O.R.C.A
	072-F91-92			Lilly Taback & Allison Gold	Dishwasher Safe Insulated Water bottle
G92	072-H11-91	SoftEng		Sumayyah Ismail	TRACK THAT CALORIE
G96	072-H30-31	SoftEng		Tanvi Chukka	A novel device to analyze stress levels in patients with immediate response
G97	072-H31-11	SoftEng	F	Sanskriti Singh	Detection of Pneumonia on CXR image using Convolutional Neural Networks
					with an emphasis on minimizing False Negatives
G98	072-H40-G1	SoftEng	F	Reshma Kosaraju	Application of Meteorological Data to Predict the Chances of a Forest
					Fire Using Machine Learning and Neural Networks
F99	072-H50-C1	SoftEng	F	Satvika lyer	Where There's Smoke, There May Be Fire: Applying and Extending
					Google's ANN to Detect Wildfires
	072-H90-D1	SoftEng		Ananya Jilla	Machine Learning (ML) Driven Diabetes Predictor
	081-140-82			Michelle Jin & Arissa Huda	The Effect of Fear on Spacial Perception
_	081-150-42			Ava Arasan & Laurie Jin	How Humour Affects the Learning Process
	081-180-92			Malak Dahbour & Mariem Cherif	Brain Power: Who has better memory? Who can decode it faster?
	081-190-61	BehavSci		Safaa Hussain	Reward, Praise, and Criticism: What Works Best?
F77	081-211-B1	PlantSci	F	Charlize Nishitoyo	The Comparative Effects of Container Size and Variable Light
					Intensities on the Growth Rates of Red Kidney Beans
	081-220-82			Smrithi Sambamurthy & Anika Muddu	Coral Reef Regneration
F73	081-230-42	PlantSci	F	Sara Bhowmick & Amrita Pasupathy	What is the Effect of Calcium on Wisconsin Fast Plants Watered with
	_				Fluoridated Tap Water for 15 Days
	081-240-H2			Sally Zhu & Eileen Ma	How Do Different Types of Bacteria Affect the Growth of Lepidium sativum?
	081-260-A1	PlantSci		Medha Bhattacharya	The effect of identifying tree health based on image analysis in the city of Sunnyvale
F68	081-270-61	PlantSci	F	Annmaria Antony	Does an increased concentration of silver nanoparticles affect plant growth rates?

Loc. Proj. Num. Team Field Gen	der Students	Title
F67 081-280-21 PlantSci F	Joyce Yang	What is the effect of food-waste on the growth rate of Allium fistulosum?
E66 081-310-51 AnimalSci F	Maria Grothe	Do Acute Bladder Snails Have Memory That Enables Them To Learn?
E69 081-330-E1 AnimalSci F	Ayana Wilmot	Chemotaxis of Daphnia major in Response to Amino Acids
E71 081-410-E1 BiocheMic F	Namrata Nair	The Effect of Different Metal Nanoparticles on the Growth of E. coli
E72 081-411-C1 BiocheMic F	Nikita Senthil	Feed the Diatoms: The Effect of Iron Filings on the Oxygen
		Production of Thalassiosira Diatoms
E76 081-420-92 T BiocheMic F	Connie Jiang & Riya Gupta	Problem-solving Capabilities of Physarum Polycephalum
	Alisa Grebin & Nika Lebedev	What is the effect of Ferric Salts and Clay on chlorella vulgaris?
E80 081-431-41 BiocheMic F	Akshara Taraniganty	Hunting For Electrolytes
	Tiffany Chang & Jessica Tang	The Effect of Aloe on Skin Bacteria
	Lena Wessel	What is the effect of spices on the population growth of Escherichia coli K-12?
E84 081-450-E2 T BiocheMic F	Annli Zhu & Sabrina Zhu	The Effect of Water on the Strength of Retted Fiber
	Ayah Fallah	Myth or Reality: Is Henna Antibacterial?
E92 081-620-A2 T MedHeaSci F		Effects of Probiotics on Enteric Bacteria
	Zeynep Tokuz	Effects of Hazardous Chemicals on pregnancy: Using planaria as a model
	Ashwika Agrawal	An App to Identify Skin Infections in Canines
E98 081-680-41 MedHeaSci F	Nidhya Shivakumar	A Machine Learning Approach to Evaluate the Long Term Health
		Effects Of Forest Fires
	Danica Kubota	Biodegradable Take - Out Sauce Containers.
D99 081-740-C1 BiomedEng F	Arya Srivastava	One More Shot at Hearing: Making Cost Efficient Bone Conduction
		Technology to Aid People with Conductive Hearing Loss
	Abhiritika Rala & Sofia Porras & Hannah Chen	The Nose Knows
	Ananya Bammi & Saavi Kumar	What is the Effect of Pool Water on Different Swimsuit Material Combinations
D88 082-A60-F1 Chemistry F	Caitlin Higuchi	Does the Strength of Tea Relate to the Temperature of the Water in
		Which It is Brewed?
	Sanjana Manikandan	A Solution to Pollution - Mycoremediation: Growing Mushrooms to Clean the Air
D82 082-B30-12 T CheEnvEng F		Shower Power: Designing a Shower for Third World Countries
D78 082-B60-71 CheEnvEng F	Eleanore Kirshner	No More Ocean Garbage: The Solution to Removing Microplastics
D77 082-B80-G1 CheEnvEng F		A Higher Breed of Hybrid Cars
D73 082-C10-12 T EarEnvSci F		Effect of Wax Worms on Plastic Decomposition
C68 082-C31-91 EarEnvSci F	Anushree Atmakuri	Effect of environmental change on songbird migration patterns
	Najia Maaz	More moisture, more movement!
	Allison Huang	Hydrophobic Substances
C81 082-D20-71 PhysAstr F	Arhana Aatresh	Over the Wing: investigating the effect of wind speed, wing angle,
		and propeller speed on a blown wing's lift force
	Namrata Karra	Observing Refractive Index
	Rithika Ramesh	Energy Conversions from Renewable Sources
	Hannah Haberstroh & Rosaleen Chang & Jodi Liu	Variation of Magnet Strength
C98 082-E20-F2 T ElecEng F	Aanya Virmani & Arti Gnanasekar	Memory Vision: Using Artificial Intelligence to Improve Symptoms of
		Dementia in Alzheimer's Patients
B99 082-E21-E1 ElecEng F	Swathi Badrinarayanan	A Renewable Energy Device Providing Rural Electrification to the Last Billion

Loc. Proj. Num. T	eam Field	Gend	er Students	Title
B95 082-E31-A1	ElecEng	F	Pramati Barath	Automatic volume adjuster based on ambient noise level
B94 082-E40-72	T ElecEng	F	Mokshitaa Dhamotharan & Naomi Jung	The Benevolent Body Blanket: A Thermoelectric Blanket
B90 082-E51-21	ElecEng	F	Aisha Kazi	Smart Signal - The most effective traffic signal using IoT with a Raspberry Pi circuit
B89 082-E60-H1	ElecEng	F	Ishani Das	An Arduino-based Wearable Device for the Visually Impaired to Guide and
	J			Receive Immediate Help Using GPS and GSM Service
B83 082-E80-91	ElecEng	F	Dhwani Kharidia	Power Line Fire Hazard Detection System
B82 082-E81-62	T ElecEng	F	Ria Deshpande & Lexxa D'Amico	Motion Activated Sensor and Servo to push Crosswalk Button and
	J		·	Eliminate Bacterial Spread
B79 082-E91-31	ElecEng	F	Anika Pandey	Designing an Environmentally Friendly and Efficient
			·	Supercapacitor/Battery with Nanoparticulate Graphene
B78 082-F10-B2	T MechEng	F	Kaitlyn Liu & Neha Agrawal	Simply Stretching
B76 082-F20-72		F	Tanisha Grover & Kimberly Maddox	So Many Houses, But Which One To Choose?
B73 082-F30-32	T MechEng	F	Saee Pole & Kaitlyn Venator & Adreema Ahsan	How to save a life " CPR dummy remodeled"
B67 082-H10-D1	SoftEng	F	Aaleesha Doshi	The design of an algorithm to detect road quality through vibrations,
	_			user input, and connection with Google Maps
A70 082-H20-91	SoftEng	F	Sumaswara Chinthalapati	Predictive analytics of innovative scientific trends from patent
	_			datasets using supervised machine learning algorithm
A73 082-H30-42	T SoftEng	F	Amiya Chokhawala & Carol Wininger	An Innovative Solution to Enhance Teenager Well-Being: A Mobile
	_		•	Application that Promotes Collaborative Problem-Solving
A82 082-H41-G1	SoftEng	F	Tasha Lera	Using Data Analysis to Build a Personalized Search Engine
A84 082-H50-D2	T SoftEng	F	Kavinaya Rajesh & Kaitlyn Nguyen & Sahana Moogi	In A HeartBeat: Heart Disease Detecting Device and App
A92 082-H62-61	SoftEng	F	Aditi Jain	G.G.F(Green Grocery Footprint)
A93 082-H70-52	T SoftEng	F	Hetal Kurani & Hemal Kurani	Smart Campus Security Shield: A Risk Based Real Time Crime Alert
	_			and Prevention System Using Student ID Card
A96 082-H80-21	SoftEng	F	Isha Jagadish	Identifying Polygenic Disease Risk Susceptibility Across Ethnic Super Populations
A98 082-H82-F1	SoftEng	F	Mridula Naikawadi	Facial Recognition Based Home Security
X97 082-H91-D1	SoftEng		Romina Jately	FitTreat
Y10 091-120-21	BehavSci	F	Shriya Anant	The Effect of Neem Extract on the Serotonin Receptors in Drosophila
				Melanogaster larvae
Y12 091-150-62	T BehavSci	F	Stephanie Samame & Kaitlyn Butcher & Aleena Bosky	Is watching television more beneficial to one's short-term memory
				than exercising for ten minutes?
Y24 091-160-31	BehavSci		Tara Pande	Optimizing Sleep and Wellbeing in Sleep-Deprived Teenagers
Y25 091-220-B1	PlantSci	F	Avyuktha Mattupalli	Effects of Tyrosine on the Rates of Photosynthesis of Pondweed
Y27 091-240-31	PlantSci	F	Nithika Karthikeyan	The Differential Fixation of Dissolved CO2 by Different Algal Species
Y28 091-310-71	AnimalSci	F	Anushka Kesavan	What is the effect of the Unpaired 2 cytokine on tumorigenesis in
				Drosophila melanogaster?
Y30 091-330-F2	T AnimalSci	F	Angela Gao & Ritika Rajamani	The Effect of Environmental and Chemical Conditions on the
				Biodegradation of Polyethylene by Galleria mellonella Larvae
Y40 091-340-C1	AnimalSci	F	Amanda Kay	The Effects of Pharmaceutical Pollution on Aquatic Environments
Y42 091-410-G1	BiocheMic	F	Anika Nagavara	The Effect of Green Tea on Drosophila Haemocytes and Their
				Ensuing Ability to Fight Infections In Order To Cure Allergy
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Page 5 of 30

Loc. Proj. Num. T				Title
Y43 091-411-E1	BiocheMic	F	Saivee Shelke	The effect of Triclosan on RyR1 expression and subsequent muscle
				contraction in Drosophila melanogaster.
Y44 091-420-C1	BiocheMic	F	Rachel Chen	The effect of time and temperature on the LDPE digesting properties
				of Acidovorax delafieldii
Y45 091-421-A1			Rhea Rai	Effect of Potassium Nitrate on Growth of Escherichia Coli
Y55 091-441-21	BiocheMic	F	Jessica Wang	How can the Process of Bioluminescence be Altered to Generate
				More Light for Future Electric Services?
P59 091-450-H1			Riya Ravuri	Urokinase as a potential cancer biomarker using C. Elegans
P58 091-451-F1	BiocheMic	F	Kavita Murthy	The Amount of Heat-resistant Escherichia coli Found in Organically
				and Conventionally Grown Spinacia oleracea
P55 091-470-91			Aishwarya Manoj	The effects of propylene glycol on heart rate in Daphnia Magna
P53 091-480-51	BiocheMic	F	Myung Suh Choi	Comparing the photoprotection capabilities of the phytochemical
				anthocyanin to oxybenzone in commercial sunscreen
P52 091-481-31	BiocheMic	F	Mrudula Chodavarapu	What is the effect of aloe vera gel and carrot seed oil on the
				chlorophyll concentration of Eudorina californica algae?
P51 091-490-11	BiocheMic	F	Sachita Kashyap	Comparing the Efficiency of Fermented Milk and Probiotic Capsules
				in Repopulating the Microbiome Post Antibiotic Regimen
P43 091-550-91	BioInfo	F	Annika Viswesh	Classifying different types of cancer by applying machine learning
				techniques on epigenetic information
P38 091-630-91	MedHeaSci	F	Jocelyn Swift	The Effects of Natural and Artificial Sweeteners on Gut Bacteria as Modeled by E. coli
P36 091-660-D2	T MedHeaSci	F	Diana Kohr & Angela Jiao & Aarushi Mehrotra	The effect of different inflammatory pathway inhibitors on the
				symptoms of Alzheimer's in C. elegans
P29 091-740-E1			Shweta Arun	WristWatch: A Portable Raspberry Pi Device to Identify Harmful Wrist Posture
P28 092-A10-31	Chemistry	F	Sivagami Kenyan	The absorption of carbon dioxide in a bubble column absorber when
				the pH of calcium hydroxide solution is changed
P26 092-B10-C1	CheEnvEng	F	Samika Swamy	CogniGuard: A novel, herb-based treatment for protection against
				neurotoxicity from lead pollution.
P21 092-B40-H1			Shailee Nanavati	Modeling Quantum Levitation with Superconductors
P15 092-C30-D1	EarEnvSci	F	Danya Balagopal	The Effect of Bio-coagulants on the Adsorption of Waste Oil and the
				Reduction of Turbidity from Oil-Produced Waters
P13 092-C50-42	T EarEnvSci	F	Jennifer Song & Serena Pei	Effect of Mealworm's (larvae of Tenebrio molitor) Decomposition of
				Polystyrene on Palaemonetes Paludosus
P10 092-D11-B1	PhysAstr	F	Nethra Srinivasan	Biomechanics: The Effect of Flexibility of Quadriceps and Angle of
				Knee on Force Applied on the Patella During Squats
N12 092-D70-61	PhysAstr	F	Pujita Tangirala	Comparing Correlation between Color and Metallicity in Cluster vs
				Non-Cluster Galaxies
N13 092-D80-21	PhysAstr	F	Anousha Athreya	Investigating the Effect of Low-Cost Graphene on Different Kinds of Solar Cells
N14 092-E10-51	ElecEng	F	Leelavathi Srinivas	Can the Stirling Engine Outperform Pyroelectric Conversion in
				Converting Heat to Electricity for Laptops?
N15 092-E20-H2	T ElecEng		Aleeza Huraira & Suniska Patel	Are "green" detergents less toxic than conventional detergents?
N32 092-F30-52	T MechEng	F	Sindhu Saggeri & Neha Mandava & Aarushi Shah	HydroFin: A three in one aquarium maintenance system

Page 6 of 30

4 000 40 01	–		er Students	Title
N34 092-F40-21	MechEng		Akshita Ponnuru	Sustainable Affordable Housing for Homeless
N35 092-F50-E2			Tavleen Kaur & Impana Chimmalagi	ThumbsUp: Designing an Optimal Cryo-Brace to Treat Texting Thumb
N42 092-F80-22	T MechEng	F	Reina Pradhan & Ira Narang & Aashvi Rastogi	Device which uses proximity sensors and deep learning to sense obstacles and potential dangers for the visually impaired
N47 092-H12-B1	SoftEng	F	Sneha Revanur	A Novel Approach to Analyzing Neglected Tropical Diseases Using Deep Learning and Graph Networks
N49 092-H21-91	SoftEng	F	Divya Sundar	Home-based Infant Milestone Tracking Using Image Analysis
N55 092-H40-31	SoftEng	F	Alice Feng	DeepGuide: A Deep Learning Based Mobile System to Assist Visually Impaired Pedestrians To Cross Intersections
N57 092-H42-G1	SoftEng	F	Sheryl Hsu	Using Artificial Intelligence to Record Locations of Essential Items for Dementia Patients
M58 092-H52-C1	SoftEng	F	Iris Zhou	Sunlight Tracker: How Much Sunlight Do You Get?
M55 092-H62-81	SoftEng	F	Shreyaa Karan	Leveraging Machine Learning and Image Analysis to Detect Melanoma (Skin Cancer) and Develop a Prognosis For It
M51 092-H80-41	SoftEng	F	Veda Kamaraju	Mobile Urban Sensing System: A Novel, Smart City Approach to Detect, Analyze, and Prevent Air Pollutants
M48 092-H91-F1	SoftEng	F	Sanjana Jilla	ML/DNA Driven Disease Susceptibility Analyzer
M46 093-410-11	BiocheMic		Cara Burgess	Observing the Effects of Cancer Metastasis Promoting Gene, CD151, in E. coli
M45 093-420-E1	BiocheMic	F	Sinaya Joshi	Fluorescein or Green Fluorescent Protein: Is it possible to create a sensor for dehydration in athletes?
M44 101-110-91	BehavSci	F	Shreya Soma	What is the effect of background color on how long it takes for a bee to learn where food is stored
M43 101-120-42	T BehavSci	F	Kristine McLaughlin & Avani Karvat	What is the effect of music on the state dependent learning phenomenon in high school students?
M39 101-130-H2	T BehavSci	F	Consuelo Romero Martinez & Tuoyang Ye	Analyzing the Biological Signs of Presentation Anxiety
M37 101-140-E1	BehavSci		Anshika Agarwal	In Their Shoes: Using Virtual Reality to Foster Empathy
M36 101-160-61	BehavSci		Neeta Chethan	The Effects of Distracted Interferences on Reaction Time
M34 101-220-E1	PlantSci	F	Beatrice Mihalache	Effects of Polyethylene Microbeads on Lactuca sativa var. Longifolia
M33 101-230-A1	PlantSci	F	Charlotte Lara	Allelopathic Effects of California Native Trees on a California Native Grass, Festuca Californica
M32 101-240-61	PlantSci	F	Anya Chatterjee	Levels of Dissolved Oxygen Produced by Nonvascular Plants in Freshwater Ponds
M31 101-250-21	PlantSci		Gwyneth Wong	Role of photodegradation of water retaining polymer when applied to pea plants
M29 101-310-A1	AnimalSci	F	Aaina Dogra	Effects of Water pH on the Hippocampal Lobe Volume and Learning Ability of Flightless Drosophila melanogaster
M28 101-320-61	AnimalSci	F	Jordan Naddaf	Increased Airborne Zinc Concentration and the Onset of Anosmia using Drosophila melanogaster
M22 101-360-62	T AnimalSci		Atti Liu & Hanna Liu & Angela Wang	The Effects of Lowering pH on the Bioluminescence of Dinoflagellates
M20 101-410-12	T BiocheMic		Megha Yengoti & Ramya Chamkeri	Effect of Mixture with Varying Ratios of Manuka Honey to Silver Nanoparticles on Biofilm Formation of Micrococcus Luteus
M18 101-430-B1	BiocheMic		Mya Hammond Nikhita Arun	The 5 second rule: is it real?

Page 7 of 30 Generated on 2019/03/08 11:10:43

Loc. Proj. Nu	m. Team	Field G	end	er Students	Title
					Biomarkers and Subclinical Cardiovascular Disease
M11 101-520	-71 B	ioInfo	F	Julia Biswas	Automated Detection of Suicidal Ideation in Tweets Using A Machine
					Learning Algorithm
L10 101-530	-31 B	ioInfo	F	Arohee Bhoja	Identification of Acute Lymphoblastic Leukemia in Blood Samples
				•	Using Deep Learning
L11 101-540	-G1 B	ioInfo	F	Riya Chatterjee	Novel Early Detection of Neurodegenerative diseases using Cortical
					Gyrification and Deep Learning Methods
L13 101-560	-81 B	ioInfo	F	Shachi Prasad	Machine learning approach to cancer discovery and classification
					based on gene expression and gene marker identification
L15 101-610	-31 M	ledHeaSci	F	Kelly Ferguson	Testing for Abnormal Heart Rate as a Side Effect of Passiflora
				, -	incarnata in Wingless Drosophila melanogaster
L16 101-620	-G1 M	ledHeaSci	F	Nadia Miller	The Effect of Manuka Honey as a Neuroprotective Agent Against
					Neurodegneration Caused by Aspartame in C. elegans
L17 101-621	-E1 M	ledHeaSci	F	Anya Raju	Utilizing Olive Oil For Increasing Absorption of Turmeric for the Treatment of Cancer
L26 101-651				Vivian Trinh & Becky Duong	The Effect of Varying Concentrations of Oat and Barley Extract on
				, ,	Cholesterol Reduction
L28 101-660	-н1 М	ledHeaSci	F	Atreyi Mukherjee	The effect of electronic cigarette liquid on the viability of Lumbriculus variegatus
L35 101-730				Safaa Mouline	Application that Enhances Comprehension of Real Time Speech for
		9			People with Auditory Processing Disorder
L36 101-740	-н1 В	iomedEng	F	Seung Ah Choi	Increasing the Efficiency of the Topical Medication Triamcinolone
		9		3	Acetonide in the Oral Cavity
L38 102-A10	-61 C	hemistry	F	Kate Jackson	The Effect of Limestone in Removing Excess Fluoride from Water
L39 102-A20			F	Ivie Xue & Patricia Huang	The Impact of Alternative Fibrous Materials in Paper Construction
		,		3	and its Impact on Paper Strength and Writing Quality
L42 102-A30	-F1 C	hemistry	F	Anokhi Shah	Therapeutic Effect of Curcumin as a Metal Chelator against Alzheimer's Disease
L48 102-B10				Nicole Krockenberger	Creating a Renewable and Biodegradable Bioplastic from Bambusa multiplex
L49 102-B11				Sriya Sridhar	Water Footprint!
L50 102-B20				Dylan Chin	Ability of Ferrofluids to Remove Organophosphates from Ocean Water
L51 102-B21				Anne Pham & Kaylie Visitacion	Biodegradable Polystyrene made from Leucoplasts in Solanum
		9		,	Tuberosum in Littoral Atmospheres
L53 102-B50	-G1 C	heEnvEng	F	Roya Ahmadi	A Data Analysis Approach to Wildfire Prediction
L54 102-B70				Manjari Talasila	Microwave assisted alkaline pretreatment to optimize lignocellulose
		9		•	conversion to glucose from corn waste
K57 102-C20	-31 E	arEnvSci	F	Laasya Chukka	Predictive analytics to estimate the propagation of Sargassum and
				,	pinpoint critical areas of growth
K54 102-C40	-c1 E	arEnvSci	F	Elizabeth Szeto	The Effectiveness of Raw and Treated Cotton and Kapok Fibers for Oil Spill Cleanup
K53 102-C50				Tharika Thambidurai	Reducing Global Air Pollution Using A Self-Cleaning Photocatalyst
K52 102-C60				Sahana Rajmohan	The Effect of Laundering Polyester Fabric on the Dispersion of
3 = 2 = 3 0 0	·- -		-	2	Microfibers in Washing Machine Wastewater
K51 102-C90	-91 F :	arEnvSci	F	Colleen McKinley	Can the Bokashi Method Enhance Vermicomposting?
K50 102-D10		hysAstr		Maria Korolik	The Role of Fluid Elasticity on Droplet Rebound on Various Surfaces
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Loc. Proj. Num. Tea	am Field G	end	er Students	Title
K49 102-D20-C1	PhysAstr	F	Francine Estranero	The Effect Of Dark Matter Density On Simulated Galactic Rotation Curves
K44 102-E21-21	ElecEng	F	Srushti Adesara	Leaking Sensor Mechanism
K43 102-E40-D1	ElecEng	F	Supriya Lall	A novel approach to Gunshot Detection using Machine Learning
K42 102-E50-91	ElecEng	F	Pratibha Ramasamy	Circuit Smart Breaker
K38 102-E70-11	ElecEng	F	Emily Park	Wave Breaker System to Stop Tsunami Waves
K36 102-E90-A1	ElecEng	F	Sakshi Kumar	An Alternative to the Pitot Tube For Measuring Airspeed
K31 102-F30-91	MechEng	F	Caitlin Gorin	A Multi-Faceted Material Strength Testing Machine for 3D Printed Plastics
K30 102-F40-51	MechEng	F	Sneha Raj	Modular Robotic Configuration Inspired by Origami Engineering
K29 102-F50-H2	T MechEng	F	Harshini Manian & Mugdha Joshi	The Conservation of Water By Way of the Gaugeometer
K23 102-H11-G1	SoftEng	F	Nishita Belur	An Innovative APProach to Augment Mobile Hospital Care:
				Prescreening and Virtually Connecting Rural Patients to Doctors
K20 102-H14-A1	SoftEng	F	Jyoti Rani	Autonomous Robotic Medicine Sorter, A.R.M.S.
J14 102-H42-21	SoftEng	F	Nithila Poongovan	A Simulation Study of an Auction Based Ride-Sharing Platform
J21 102-H60-F1	SoftEng	F	Anjali Singh	Creating Adversarial Examples for Face Recognition Algorithms to
				Secure Privacy of Online Photographs
J22 102-H61-C2	T SoftEng	F	Janya Budaraju & Grace Kuo	Using Predictive Analytics to More Effectively Determine the Impact
				of Earthquakes on Mortality & Infrastructure
J28 102-H70-A2	T SoftEng	F	Fiona Luo & Claire Wen	Soil Contamination Detection and Identification through Soil
				Spectroscopy using Deep Convolutional Neural Networks
J32 102-H72-71	SoftEng	F	Shreya Manivel	Breaking News Aggregator built on highly resilient and scalable
				MongoDB datastore in public cloud
J33 102-H73-51	SoftEng	F	Arushi Patel	Use of Al Base Image Recognition for Delta Smelt Substrate Mapping
J34 102-H80-71	SoftEng	F	Iman Malik	Diagnosing Diseases by Creating a Machine Learning Based Nail Analysis Algorithm
J35 102-H81-51	SoftEng	F	Manasa Pooni	Building assistive technologies for the deaf using a deep learning
				shared representation multimodel across domains
J36 102-H82-31	SoftEng		anissa aribi	Cost Effective Slow Motion for Medical Diagnostics
J46 103-410-41	BiocheMic	F	Anushka Sanyal	Exploring the role of G-protein Signaling Pathway interactions with
				nAChR alpha-7 in D. melanogaster Alzheimer's models
J47 103-420-H1	BiocheMic	F	Ruchika Dixit	Comparing the Effects of Renilla to Firefly Luciferase When
				Genetically Inserted Into the Drosophila Melanogaster Genome
J48 103-430-D1	BiocheMic	F	Avantika Gokulnatha	Memory Retention of Learned Behavioral Traits through
				Metamorphosis and Subsequent Generations in Vanessa Cardui
J50 103-520-91	BioInfo	F	Sidra Xu	Determination of Genetic Factors Involved in Hypoplastic Left Heart
				Syndrome Using RNA-Seq
J53 103-610-51	MedHeaSci	F	Chetana Ganga	The Effect of the Human MeCP2 Gene on Drosophila Behavior and A
				Method of Inhibiting p53 as a Model for Rett Syndrome
J55 103-630-E1	MedHeaSci	F	Khushi Parikh	The Effect of Virtual Reality Application on the Pain Perception of
				Patients Undergoing Allergy Testing and Treatment
J56 103-640-A1	MedHeaSci	F	Alekhya Vadlakonda	The Effect of Resolvin D1 on Heart Rate and ROS Production in
				Daphnia magna: Implications for an Anti-Inflammatory Agent
J57 104-C10-91	EarEnvSci	F	Eshani Jha	The Effect of Mineral Doping on Enhancement of Contaminant Uptake by Biochar

Loc. Proj. Num. Te	eam Field G	end	er Students	Title
J58 104-D10-11	PhysAstr	F	Betsy Tian	The Location of Fe II Emission in AGNs and the Response of Fe II
				Emission to Changes in the Continuum
H58 104-E10-A1	ElecEng	F	Anika Fuloria	Vibrotactile Rendering of Virtual Sculptures Using Wave Voxel Synthesis
H57 104-H10-22	T SoftEng	F	Avishi Agastwar & Arushi Agastwar	Toward Smart Hospitals: Deep Learning-Based Monitoring and
				Health Tracking of Mobility in Intensive Care Unit
H54 111-120-62	T BehavSci	F	Pratya Poosala & Purnima Venkat	Testing whether the use of simulated laboratory experiments
				correlates to increased understanding of concepts
H52 111-130-31	BehavSci	F	Adelaide Bao	The Effects of Academic Stress on Salivary Cortisol in Subpopulations of Students
H51 111-140-G1	BehavSci	F	Hien Bui	The Effects of Multitasking on Reading Comprehension
H50 111-210-31	PlantSci	F	Jaidyn Moodley	Effects of Bacillus Subtilis NCIB 3610, Rhizobium leguminosarum,
			•	and Anabaena sp. on Plant Growth
H44 111-260-H1	PlantSci	F	Erica Barandica	What is the Ideal Concentration of Biochar in Soil for Optimal Carbon Sequestration?
Н39 111-280-82	T PlantSci	F	Sally Ha & Uyen-Vy Le & Tracy Tran	Leaf Me Alone: Inhibition of Weed Growth Using Allelopathic
				Potential of Aromatic Plants
Н34 111-330-32	T AnimalSci	F	Kim Tran & Gillian Tran & Michelle Pham	Down to Earth: Evolutionary Tradeoffs Between Base Speed and
				Toxin Resistance in Terrestrial Decomposers
H32 111-410-32	T BiocheMic	F	Elena Mujica & Kylie Akiyama	Reducing Brevetoxin Production in Karenia brevis by Inhibition of
				Non-Photochemical Quenching (NPQ)
Н30 111-411-21	BiocheMic	F	Helene Luu	Effects of Microtubules and Actin on Euglena Photosynthesis
H29 111-412-G2	T BiocheMic	F	Preethi Edara & Christine Tran	Effect of Herbal Remedies on Bacteria
H26 111-421-F1	BiocheMic	F	Tina Nguyen	What is bacterial language that is used as communication between bacteria?
H23 111-422-D1	BiocheMic		Emily Row	Natural Versus Synthetic Antibiotics
H21 111-431-B1	BiocheMic		Nikki Nguyen	Investigating the effect of honey on the formation of the biofilms of Escherichia coli
H20 111-432-91	BiocheMic	F	Shloka Janapaty	A Novel, Fast, Low-Cost Approach to Achieve Near 100% LDPE
			• •	Degradation: Bioremedial Landfill Implementation
H16 111-450-51	BiocheMic	F	Supriya Mula	The Effects of TNF-beta on Harmful A1 Astrocyte Differentiation in Glial Scars
H15 111-451-31	BiocheMic	F	Christina Tran	The role of nutrients on the growth of Escherichia coli, Lactobacillus,
				Peptostreptococcus, and Candida Albicans
H11 111-461-G1	BiocheMic	F	MI Le	The effects of salicylic acid, tannins, and terpinen-4-ol on Staphylococcus epidermidis
H10 111-470-E1	BiocheMic	F	Shreya Garg	Determining the Roles of CuSB, Flagellin, and AcrAB-TolC in
				Bacterial Responses to Nonlethal Concentrations of AgNPs
G10 111-471-C1	BiocheMic	F	Adriana Marcelino	Boosted Bacteria: How do Bacteria Respond to Energy Stimulants?
G12 111-481-81	BiocheMic	F	Arthi Vaidyanathan	Testing the Effects of Iron Supplements on the Production of
			•	Siderophores in Antibiotic Resistant Bacteria
G13 111-490-52	T BiocheMic	F	Joyce Huang & Nikhita Sujan	The Effect of Antibiotics on Protein Properties of Calf Serum
G20 111-550-E1	BioInfo		Riya Deokar	Diagnosis & Prognosis for Multiple Stages of Trichotillomania Using
			•	Machine Learning with Kinetic Treatment Feasibility
G28 111-610-51	MedHeaSci	F	Ariana Yamouti	Testing the Antibiofilm Activity of Essential Oil on Biofilm Forming Bacteria
G29 111-611-31	MedHeaSci	F	Manasvi Gummadi	Efficacy of Different Autophagy Inhibitors on Glioblastoma Treated
				with Temozolomide
G30 111-620-11	MedHeaSci	F	Eleni Bauman	Examining the Effect of Cholesterol Starvation on Amyloid-Beta

Page 10 of 30

Loc.	Proj. Num. Te	am Field G	end	er Students	Title
	<u> </u>				Toxicity in Transgenic Caenorhabditis elegans.
G31	111-621-G1	MedHeaSci	F	Siyun Zuo	Shaping What We See: Mechanical Properties of the Cornea
G32	111-630-E1	MedHeaSci	F	Emerson Martin	Evaluating the Protective Effects of Cyanocobalamin and Methylcobalamin when C.elegans are exposed to Bisphenol-A
G34	111-640-A1			Sierra Howard	Implications of Inhibiting the Wnt Signaling Pathway in Tolerogenic Dendritic Cells using the Novel Antibody Omp-18R5
	111-650-61			Shrena Punj	Microbe Project: Mapping Human Symptoms to Gastrointestinal Microbial Deficiencies Using Computer Software
		J		Celina Ashby & Shresthi Viswanath	Evaluating the Effect of Ultraviolet Radiation on the DNA Repair Systems of UV-sensitive Saccharomyces cerevisiae Cells
G50	112-A20-32			Kreena Parikh & Keerthi Panguluri	The effects of heat with different concentrations of sodium alginate
G53	112-A50-91			Sulphine Odio	Mass of Different Foods vs Caloric Content and Energy Provision
G57	112-B20-D1	CheEnvEng	F	Ashley Dang	Removing Heavy Metals and Pathogens from Water Using Biosand Filters Containing Plant Biomass
	112-B30-91	J		Katherine Nasif	Development of an Electro-activated Dynamic-Resisting Polyaniline Sensor for use in Electronics Prototyping Applications
F51	112-C10-82			Charu Vijay & Neha Mannem	Bioremediation by Bacteria and Microalgae on the Lasting Impact of Ocean and Lake Eutrophication
F49	112-C30-11	EarEnvSci	F	Kami Richardson	Coral Collapse: Investigating and Reducing Environmental Stress Factors in LPS Corals with Delayed Release Substrate
F48	112-C40-E1	EarEnvSci	F	Nikitha Kalahasti	The effect of plant recolonisation on soil properties post fire exposure during drought stress
F47	112-C50-A1	EarEnvSci	F	Shannon Miranda	An Environmentally Friendly Wetland Nitrate Filtration Method with Reduced Global Warming Gases
F46	112-C60-61	EarEnvSci	F	Vanessa Fuentes	Worms, Decomposition, and Soil
F45	112-C80-F1	EarEnvSci	F	Karthyayani Sajeev	What is the effect of various nitrate concentrations on freshwater hydrophyte development?
F39	112-E11-81	ElecEng	F	Aryia Dattamajumdar	An early warning Al-powered portable system to reduce workload and inspect environmental damage after natural disasters
F27	112-F10-21	MechEng	F	Isabel Sperandio	Harnessing the Power of the Ocean: Designing an Efficient and Portable Wave Energy Converter Prototype
F21	112-F30-A2	T MechEng		Uyennhi Nguyen & Karyn Luu & Elena Coll	Mind Message: Using a EEG Headset To Send A Text Message To Call For Help
F19	112-F40-62	T MechEng		Patricia Cornejo & Tian Wells	ConcrHEAT
F17	112-F50-22	T MechEng	F	Thien-Kim Dang & Angelique Zoile	Prosthesis
F15	112-F60-G1	MechEng		Zara Shariff	Easily Acquired Sanitation Bin via a Wireless Arduino-Powered Robot with Mobile Connectivity and Audible Receiver
F14	112-F70-B2	T MechEng	F	Rithu Paramesh & Anika Adulla	ARCO-Bot: A Novel Approach to Automated Ocean Trash Cleanup Using Machine Learning
E12	112-Н10-31	SoftEng	F	Ada Peschanskiy	Reducing Radio Frequency Exposure to Mobile Phone Users by Disabling WiFi, Mobile Data and Bluetooth During Phone Calls
E13	112-Н11-11	SoftEng	F	Claire Lee	Review Analyzing System to Help Customers Choose Menu Items

Page 11 of 30

Loc.	Proj. Num. Te	am Field	Geno	der Students	Title
					from a Restaurant using NLP and Machine Learning
E14	112-H12-G1	SoftEng	F	Samhita Vasu	An Image Recognition System Inspired by the Human Visual
					Pathway to Recognize Images with Fewer Examples
E16	112-H20-G1	SoftEng	F	Margaret Radke	Determining the Most Effective and Cost Efficient Combinations for a
		J			Hybrid Renewable Energy System
E18	112-H22-C1	SoftEng	F	Anusha Ghosh	Detection and Translation of American Sign Language through Deep Learning
E31	112-H41-61	SoftEng	F	Adishree Ghatare	Identifying a Correlation Between Countries' Happiness Indices and
		J			the Language of Their Research Using Deep Learning
E36	112-H53-F1	SoftEng	F	Renee Su	Land Cover Change Detection From Semantic Segmentation Using
		J			Convolutional Neural Networks
E48	112-Н81-62	T SoftEng	F	Nivrithi Krishnan & Ashwini Suriyaprakash	An Al-Powered Voicebot to Improve Post-Operative Recovery
E50	112-Н82-51	SoftEng	F	Harleen Siddhu	Keeping It Private: Self-Made Future Proof Encryption Scheme
E51	112-Н90-51	SoftEng	F	Audrey Cui	From Pixels to Paragraph: A Deep Artwork Passage Generator
E53	112-Н92-Н2	T SoftEng	F	Isabella Borkovic & Natalie Huang	Creating an Al Trash Sorter Through Supervised Machine Learning
E55	113-110-C2	T BehavSci	F	Kathleen Spears & Stephanie Chen	Mind Control Motion Pareidolia
E58	113-410-61	BiocheMic	F	Allison Jia	Modeling Neurodegeneration in vitro: A Dynamic Study of Tau in a
					Microfluidic Chamber System Via Quantum Dot Labeling
D59	113-420-21	BiocheMic	F	Lauren Fu	Characterization of New Variants of ?-Glucosidase B Protein Using
					Kinetic and Thermal Analysis
D58	113-430-F1	BiocheMic	F	Anika Tiwari	Understanding the Mechanism of Interaction of Bacteriophage phi KZ
					with CRISPR-Cas Immune Systems
D57	113-431-D1	BiocheMic	F	Chaelee Park	Role of morphine in the microglial TLR4-mediated inflammatory response to ischemia
D56	113-440-B1	BiocheMic	F	Van-Khanh Tran	The Effect of Glia on Neural Excitability
D55	113-460-31	BiocheMic	F	Anushka Goel	Finding a Connection Between the Immune Response and
					Overproduction of Amyloid beta in Alzheimer's Disease
D54	113-480-C1	BiocheMic	F	Shreya Sinha	Analyzing the Role of Chromothripsis in Cancer via Telomere Modification
D53	113-511-D1	BioInfo		Divya Nair	Analyzing the Effect of Spaceflight on Mus musculus Retinas through
				•	Transcriptomic Analysis
D52	113-512-B1	BioInfo	F	Christina Wong	Visualizing Tumor Heterogeneity and Predicting Metastasis with Machine Learning
	113-520-B1	BioInfo		Cynthia Chen	Decoding Neural Networks: Novel Computational Methods to
				•	Discover Anti-Tumor B-Cell Receptor Binding Motifs
D49	113-530-71	BioInfo	F	Aarzu Gupta	Identification and Analysis of Sex Specific Gene Expression
				·	Signatures in Alzheimer's Disease
D48	113-531-51	BioInfo	F	Anuva Banwasi	Biomarker identification in the adipogenic pathway of tumor cells - a
					metabolomics approach
D47	113-540-31	BioInfo	F	Eileen Li	Head and Neck Cancer Prognosis Using Machine Learning Analysis
					of Pathology Images
D42	113-561-A1	BioInfo	F	Alice Yeh	Mining classification rules for HIV-1 protease cleavage sites using
		-			simplified swarm optimization
D38	113-571-61	BioInfo	F	Shruti Sridhar	Investigating Genetic Mechanisms of the Tumor Endothelium Using
			-		scRNA-Seq Analytics & Developmental Trajectory Mapping
					1 7::::::::::::::::::::::::::::::::::::

Loc. Proj. Num. Te	am Field G	<u>Send</u>	er Students	Title
D36 113-581-21	BioInfo	F	Mallika Parulekar	A Fast, Unsupervised Learning Method to Identify Novel and Diverse
				Signals in High-Throughput Genetic Data
D35 113-590-H1	BioInfo	F	Amirtha Maria	Do varying concentrations of nitrogen lead to varying production of
				chlorophyll among different algal communities?
D33 113-610-71	MedHeaSci	F	Rashi Ranjan	Examining the Mdivi-1-Induced Fusion-Independent Mechanism of
				a-KG Inhibition in Lung Cancer Cells
D32 113-620-31	MedHeaSci			The Effect of a High-Sugar Diet on Drosophila melanogaster
D31 113-640-C1	MedHeaSci	F	Sriya Jonnakuti	The Effect of Pulsed Focused Ultrasound Induced HSP20 on p-AKT
				Activation and Chronic Kidney Disease Progression
D30 113-650-81	MedHeaSci	F	Maya Nayak	Using Planaria as a Model Organism for Multiple Sclerosis - An
				Alternative Approach Using Anecdotal Cures
D29 113-660-41	MedHeaSci	F	Sangeeta Koilada	The effect of exogenous p53 from long-lived mammals on the
				longevity of human cells
D28 113-670-H1	MedHeaSci	F	Cordelia Yu	The Genome Stethoscope: Developing CRISPR for Live Diagnosis of
				Genome Abnormalities
D23 114-A20-61	Chemistry	F	Aditi Ghalsasi	A Novel Approach to Creating Ideal 3D-Printable Polymers via
				Functionalization of PCL
D22 114-A50-B1	Chemistry	F	Annie Ma	The effect of surface functionalization on the capacitance of graphene aerogels
D15 114-D10-31	PhysAstr	F	Nikita Salunke	Effect of Epitaxial Compression on Structural & Electrical Transport
	-			Properties of 3D Topological Dirac Semimetal Cd3As2
D12 114-D30-C1	PhysAstr	F	Emily Liu	Detecting Crystals in 3D Printed Metals Using Diffraction from X-ray
	•			Fluorescence Spectra
D10 114-G10-D1	Math	F	Maya Abiram	Can random walks on retinal connectome structure differentiate
			•	amacrine cell functionality in the retina
C13 121-210-51	PlantSci	F	Sawye Raygani	Silk Fibroin Seed Priming as a Method for Improving Drought
				Tolerance of Lactuca sativa
C14 121-220-11	PlantSci	F	Jayde Meng	Usage of Pseudomonas fluorescens to Enhance Iron Absorption of
			, -	Lactuca sativa in Aquaponic Systems
C15 121-230-E1	PlantSci	F	Natsumi Hayashi	Ability of Philodendron bipinnatifidum to Absorb Excess Ozone and
			•	its Survivability in Hazardous Atmospheric Conditions
C16 121-240-A1	PlantSci	F	Lauren Heron	Plants Affected by the Moon?: The growth rate of Fast Plants with
				regard to planting periods during the lunar cycle
C18 121-310-E1	AnimalSci	F	Mariapaula Sunzeri	Effect of Burnt Cigarette Ashes and Butts on the Growth of Gymnodinium Sp.
C19 121-320-A1	AnimalSci	F	Joshita Kamalakannan	Using Aronia melanocarpa Extract to Analyze the Effects of
				Antioxidant-Rich Foods on the Health Span of Drosophila
C20 121-330-61	AnimalSci	F	Annika Mittelhauser	Can Air Pollution Damage Memory? Impact of Varying NO2
				Exposure Times on Memory of Drosophila Melanogaster
C21 121-340-21	AnimalSci	F	Lubat Asadova	Testing the Effect of Heat Shock On the Behavior Response and on
				the Neuron Activity in C. Elegans
C26 121-411-32	T BiocheMic	F	Ann Bui & Annalis Chao	The Effects of Ultraviolet Radiation on Bacteria Growth
C31 121-440-B1			Elise Mayer	Effect on the Flow of Cytoplasm When the Slime mold Physarum
			•	

Page 13 of 30

Loc. Proj. Num. Team Field Ge	ender Students	Title
		polycephalum Makes More Difficult Decisions
	F Sreevidya Nibhanupudi & Yingjie Guo	The Effect of Lactation on Protein Concentration in Cow's Milk
C34 121-460-22 T BiocheMic	F Kyubin Lee & Vy Truong	The Effect of pH Levels and Temperature on the Growth Inhibition of Candida albicans
C38 121-480-C1 BiocheMic	F Angelynn Nguyen	Determining the contribution of Escherichia Coli K-12 biofilms'
		mechanisms to antibiotic resistance
C42 121-490-72 T BiocheMic	F Lily Huynh & Thao Le	Comparing the Effects of Various Exposure Times of Radiation on Oxygen Production of Spirulina Major
C44 121-520-B1 BioInfo	F Ana Cismaru	Parkinson's Disease Classification via Convolutional Neural Networks using DaTscans
C50 121-620-31 MedHeaSci	F Anna Castello	Testing the Efficacy of Coconut Oil and its Components in Protection Against Amyloid Toxicity in Transgenic C. elegans
C53 121-640-B2 T MedHeaSci	F Angelica Harlan & Lucy Chang	The Effects of Melatonin on Apoptotic Rates of 6-OHDA Neurotoxin
111 111 110 110 110 110 110 110 110 110		Induced SH-SY5Y Cells
C55 121-650-72 T MedHeaSci	F Nicole Pham & Zhanting Zhao	Effect of Phytoestrogens on Apoptosis rates of LNCaP Cells
C57 121-660-32 T MedHeaSci		The Effect of Andrographis Paniculata Extract on MDA-MB-231 Breast Cancer Cells
	F Evelyn Rubinchik	The Effect of Blue Light Exposure on the Retinal Degeneration of Light and Dark Eyes
	F Alice Martynova	An Affordable, Al-Enhanced Device to Diagnosis Strep Throat and
		Prevent Rheumatic Fever in Developing Countries
B58 121-720-B2 T BiomedEng	F Naomi Bennett & Aiushe Mishra	Machine Automated Replacement 3D Hand Aid (MARTHA 3.0)
	F Sandhini Agarwal	Tracking Parkinsonian Tremors: A Wearable Device Application
	E 12 B. J	Utilizing Smart Sensing for Real-Time Monitoring & Analysis
B52 122-A10-A1 Chemistry	F Lily Beck	Synthesizing Active Compounds of Zingiber Officinale and their Effectiveness on Eradicating Pseudomonas fluorescens
B51 122-A20-61 Chemistry	F Teagan Toomre	Synthesizing Derivatives of Coumarin to Downregulate Collagen III Expression in Cardiac Fibroblasts
B50 122-A30-21 Chemistry	F Romella Sagatelian	Synthesis of Pyrazolopyridine Derivatives as Potential NADPH Oxidase 5 (NOX5) Inhibitors
B45 122-B20-E2 T CheEnvEng	F Anjali Sinha & Samantha Yang	Fighting Flames: Heat-Activated Dispenser for Fire Retardant
	F Visala Tallavarjula	Water Use Optimization for Irrigation in Desert Sand Using Percolation Control Layer
	F Sophia Barwegen	The Effect of Light Pollution on Sky Brightness and the Calvin Cycle of Wildflowers in Yosemite National Park
B34 122-C30-31 EarEnvSci	F Shivani Deglurkar	Using Mathematical Models to Find the Hazard Factor of Gaseous Pollutants
	F Ananya Venkatraman	Near-Earth Asteroid 1994 LX: Modeling Position and Velocity Vectors
·	•	in order to Calculate Osculating Orbital Element
в31 122-D30-в2 T PhysAstr	F Nidhi Panchal & Pernelle Chan & Julie Park	The Effects of Gas Density and Temperature On Sound Intensity
	F Anhiti Dharmapuri & Katherine Mekechuk	Space Relation: The Relationship Between the Concentration of
B27 122-D50-32 T PhysAstr		Stars and Exoplanets in Corresponding Locations
•	·	Stars and Exoplanets in Corresponding Locations The Effects of Hair Fibers in Clay Brick Strength
B18 122-F11-12 T MechEng	F Milagros (Millie) Sotelo & Jennifer Chacon-Duran & Bianca Poblano F Karla Puentes	Stars and Exoplanets in Corresponding Locations The Effects of Hair Fibers in Clay Brick Strength College Chatbot
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Page 14 of 30

Loc. Proj. Num	. Team F	ield <u>Ge</u>	ender Students	Title
				Pyrogen Detection Method Through Luciferase Expression
A28 123-450-			F Nikhita Gopisetty	Effects of Sox9 on Beta Cell Function
A30 123-510-	H1 Bioli	nfo	F Katherine Tian	Interpretable Deep Learning to Uncover The Sequence Determinants
				of Cell-Type-Specific TF Binding
A32 123-530-	91 Biol ı	nfo	F Katherine Zhang	Multiple Disease Prediction with Machine Learning on Large
				Microbiome Metagenomic Datasets
A35 123-560-	D2 T Biol ı	nfo	F Sonia Sharapova & Saloni Shah	Immune Cell Profiling and Clustering in Adult Melanoma Cancer
A37 123-610-	91 Med	lHeaSci	F Ruhi Sayana	Precision Care for Cancer: Discovery of Novel Therapeutics for
				High-Risk ALL via Epigenetic and Computational Profiling
A38 123-620-	51 Med	lHeaSci	F Aishwarya Atmakuri	Effect of vitamin D3 on ER stress in multiple myeloma and cervical
				cancer to augment chemotherapy
A39 124-A10-			F Ananya Karthik	Ultrasound-activated Nanoparticles for Targeted Drug Delivery to the Brain
X14 124-F30-	F1 Mec	hEng	F Ishani Narwankar	Engineering an Unmanned Autonomous Vehicle for Use in Search
				and Rescue Missions Post Natural Disasters
х10 124-н30-	G1 Soft		F Jocelin Su	Computionally Efficient Measures of Neuron Importance in Deep Neural Networks
М93 062-Н30-			√M Micah Nassi & Anna Suvorova	Sound Adventure: An audio and touch-based game for people with limited vision
			^F / _M Aasees Sandhu & Nadine Paula Ngo	The Smart Socket?
J71 072-C50-			√Nikhil Ramkrishnan & Marisa Malto & Sanjay Selvakumar	The Wildfire Drone and Fire Detection System
H94 072-E20-			^F / _M Severin Spagnola & Allison Nguyen	The WEB (Wheeled Electric Backpack)
E67 081-320-			F/ _M Sophia Shan & Aniket Singh	A Crabby Situation: How Alcohol Impacts the Behavior of Red Rock Crabs
Х99 082-Н90-			√ Nidhi Mathihalli & Nikhil Mathihalli	Helping the Blind count Money using Machine Learning
P45 091-540-			F/ _M Aneesh Bhat & Anoop Bhat & Amulya Bhattaram	Diagnosis of Nystagmus Using Deep Learning
P34 091-670-	92 T Med	lHeaSci	√Nathan Chiu & Swasti Jain & Joe Lin	The Design and Construction of a patch with an application for
				people that alerts the user when they are slouching
P32 091-680-	52 T Med	lHeaSci	^F / _M Luke Zhao & Yajat Ambati & Anindya Narayanan	Measuring the Therapeutic Supplementation of Ubidecarenone
				against SOD-1 Mediated Paralysis in ALS C. elegans
N18 092-E40-	92 T Elec	:Eng	√ June Kim & Chris Lee	The Design and Construction of a Wireless Body Heat Based
				Charging Phone Case for Phones with QI Technology
N20 092-E50-		Eng	√ Tiffany Tran & Scott Dang	A Bot That Cleans Up Your Act
N22 092-E60-	12 T Elec	:Eng	F/ _M Srikar Nimmagadda & Belinda Chen & Bennie Chang	The design and construction of a system to automatically transcribe
				music for musicians to create sheet music instantly
N27 092-E80-			√ Lorenzo Beronilla & Princess Bergado & Ryan Liu	Creating an Inexpensive Marine Dropcam to Aid in Citizen Science
N58 092-H50-	F2 T Soft	Eng	√ Mukund Krishnakumar & Rucha Deo	Implementing Deep Learning and Convolutional Neural Networks in Python
				to Detect Malign Moles as Symptoms of Skin Cancer
M54 092-H70-	72 T Soft	Eng	√ Xinglin Li & Yashwant Rajana & Shreya Agrawal	The design and construction of an app for musicians that flips pages
				and analyzes notes to help with practice
M14 101-460-			F/ _M Vincent Chen & Madison Doan	Bacterial Infestation
L20 101-641-	52 T Med	lHeaSci	√ Kaushal Raghu & Aditi Poddar	Investigating the Effects of Various Interactions with Caffeine on the
				Heart Rate of Daphnia Magna
			F/ _M Krishna Ajjarapu & Amodh Anand & Harini Pootheri	Measuring the effects of the ratio of berberine to water on the permeation of skin.
L46 102-A50-	62 T Che	mistry	√ Michelle Lu & Omar Sancen & Hong-An Tran	The Optimal Pill Shape for Rapid Dissolving Under Various Conditions
				0

Loc. Proj. Num. Team Field G	ender Students	Title
	F/ _M Katrina Bui & Lakshmi Eleswarapu & jasper Nguyen	PDMS and Hexane: The Answer to Oil Spills
K59 102-C11-42 T EarEnvSci	^F / _M Kyler Thai & Trisha Samineni	The Use of UV Rays to Kill Bacteria in Water
K56 102-C30-F2 T EarEnvSci	F/ _M Loriann Ho & Oliver Sanchez Castillo	The Impact of Chemicals and pH on Aquatic Life
K35 102-F10-G2 T MechEng	√ Kelly Vo & Michael Nguyen	Self-Driving Robot using Machine Learning
К14 102-H30-92 T SoftEng	^F / _M Michael Zhao & Heidi Lin	An Intelligent Parking System for Driverless Vehicles
J12 102-H41-32 T SoftEng	^F / _M Jadelynn Dao & Advit Deepak	Using Reinforcement Learning in Detection Systems to Modernize
		Traffic Control Algorithms
н37 111-310-в2 T AnimalSci	F/ _M Nicholas Chiang & Austin Chiang & Natalie Hong	What is the effect of a coral reef biome on the behavior of various
		types of domesticated fish?
н19 111-441-62 Т BiocheMic	F/ _M Richard Ho & Elizabeth Do & Christina Ngo	Analyzing the side effects of derived glyphosate from agricultural
		products on the functions of Escherichia Coli
н14 111-452-н2 Т BiocheMic	√ Loveleen Randhawa & Hasan Syed	The Effect of Toxic Chemicals on Bacteria
	F/ _M Katelyn Stone & Wesley Liao	Comparison of Beta Amyloid Production by BACE1 and BACE2 Enzymes
F35 112-E40-E2 T ElecEng	F/ _M Eddie Wang & Cindy Wang	Smart Irrigation Systems
F33 112-E60-62 T ElecEng	F/ _M Siddarth Ramkrishnan & Anjali Mathi & Matthew Malto	Shower Water Conserver
E22 112-H31-92 T SoftEng	F/ _M Kyle Pu & Tiffany Nguyen	GuessLess
E34 112-H52-G2 T SoftEng	√M Tom Zhang & Grace Kwak	Real Time Prediction of Vehicle Steering Angles using Convolutional
		Networks and Computer Vision on Dashcam Video
D46 113-541-н2 Т BioInfo	F/ _M Tanaya Nawathe & Ria Nawathe & Keshav Gurushankar	Investigating the Role of Oxidative Phosphorylation in Myofiber Type
		Under Microgravity Conditions
D20 114-A70-22 T Chemistry	^F / _M Ellen Guo & Sonny Young	The Effect of Charged Spheres on CPE Conformations: The Creation
		of an Artificial Light-Harvesting Complex
D17 114-C10-A2 T EarEnvSci	F/ _M Iris Xia & Justin Cai	The Effects of Burrowing Animals and Mass Extinctions on Marine
		Ecosystems Through Earth History
D14 114-D20-F2 T PhysAstr	√ Jin Tuan & Andrew Lu & Tanshi Jain	Star-Galaxy Separation and Discovery of Rare Halo Stars through
		Spectroscopic and Photometric Analysis of the Milky Way
C36 121-470-F2 T BiocheMic	F/ _M Helen Nguyen & Sophia Tran & Ezequiel Ponce	Targeting susceptibility to mutations in the cell cycle
C45 121-530-62 T BioInfo	√ Krithika Nathamuni & Siddharth Iyer	Mathematical Model for the Pathfinding Abilities of Physarum
		polycephalum: Potential Application to Real Traffic Network
C47 121-540-22 T BioInfo	^F / _M Divya Rao & Aditya Rao	Machine Learning - Investigative Study of Classifiers in Melanoma
		Depth Estimation using 3D Reconstruction of 2D Images
	F/ _M Jackson Conte & Josephine Mantik	The Effects of Vitamin C on Kras G12D-mutant Adenocarcinoma Cells
B38 122-B70-B2 T CheEnvEng	√ Vittal Thirumalai & Abida Diep	Keeping the Ocean Clean: A Novel Self-Sustaining Boat that Collects
		and Sorts Trash in the Ocean
B29 122-D40-72 T PhysAstr	F/ _M Matthew Dai & Jaylene Baltazar & Vincent Pham	Space Exploration: Creating a Robotic Control System in Microgravity
B20 122-E20-72 T ElecEng	F/ _M Cadence Boronkay & Vikasni Kalahasthi & Rushabh Shah	Blind Pedestrian Crossing Safety Device
B16 122-F20-G2 T MechEng	F/ _M Cyril Bhoomagoud & Jessica Valdez & Jacob Buettner	DroneTastic Corp.
B12 122-F40-82 T MechEng	F/ _M Oskar Attar & Jenna Young & Nathan Yacovetta	Converting car exhaust into electricity
A10 122-F70-D2 T MechEng	F/ _M Albert Zhao & Yanwen Ding & Erik Mitchell	Guitar Tuner (Gtuner)
A12 122-F80-92 T MechEng	F/ _M Kassandra Nguyen & Auguste Bruno & Martin Liu	Robotic Reduction & Removal of Algae Blooms
A20 122-H30-D2 T SoftEng	√M Akshay Attaluri & Nithya Attaluri	Using Deep Learning for Classification/Segmentation and Contrast Agent

Loc. Proj. Num. To	eam Field G	Gender	Students	Title
				Development for Multimodal Brain Tumor MR Images
X24 124-D20-H2	T PhysAstr	√ Cindy Wang & R	yan Hsu	Analyzing Gamma-ray Emissions of High-energy Blazars to Probe
				the Extragalactic Background Light
X17 124-D40-92	T PhysAstr	^F / _M Arya Maheshwa	ri & Alexandra Masegian	Automated Classification of a Mysterious Population of "Weak CN"
				Stars in the Andromeda Galaxy
Y91 061-240-D2	T PlantSci	M Lane Redondo 8	Magdiel Venegas	What helps soil?
Y96 061-260-61	PlantSci	M Praneel Shah		Investigating the Effect of Excess Carbon Dioxide on Plant Growth through Dry Ice
P99 061-290-B1	PlantSci	M Krish Maheshwa	ri	Effect of Wi-Fi signals on the growth of pea shoot plants.
P98 061-310-11	AnimalSci	M Abbubakar Ansa	ri	Compost Compost What is the effect of specific food sources on worm livelihood?
P97 061-320-E1	AnimalSci	M Julian Aguirre		Dog Medics
P93 061-610-B1	MedHeaSci	M Rishab Perati		Evaluating the Protective Effects of Commercially Available
				Nutritional Supplements on Genetically Induced Cancer Models
P92 061-620-71	MedHeaSci	M Samarjit Deshm	ukh	The Anticoagulant Properties of Garlic, Ginger, Turmeric and Fish Oil
P90 061-640-G1		M Aarush Goginen		The Effect of Different Foods on the Concentration of Glucose based
		-		on Glycemic Index after Digestion
P89 062-A11-C1	Chemistry	M Vir Bhutani		Which Natural Fat is the Most Unsaturated?
P88 062-A20-A1	Chemistry	M Aidan Miranda		A Greener Environmentally Friendly De-icing Solution
P84 062-A30-61	Chemistry	M Mamoon Khan		Effect of Concentrations of Ammonium Nitrate on the Temperature of a Cold Pack
P83 062-A50-F1	Chemistry	M Jared Saal		How Particle Size Affects Viscocity In Chocolate
P80 062-A80-31	Chemistry	M Rohit Mekkoth		Fuel Cells to the Rescue
P77 062-B10-61	CheEnvEng	M Rithvik Desaraju		Bio-degradable Lemon Battery
P76 062-B20-21		M Rohan Wilmot		The Effect of Various Substances on Water Evaporation Suppression
P73 062-B30-F1	CheEnvEng	M Kyle Morley		Differences between the amount of volts created by a solar cell with
	J			different materials protecting it
P72 062-C10-F1	EarEnvSci	M Anvit Mishra		Harvesting The Rain Water
P71 062-C11-D1	EarEnvSci	M Rishi Prasad		What is the effect of acid rain (low pH/acidic precipitation) on plant life?
P70 062-C21-91	EarEnvSci	M Paulo Cho		What is the effect of air pollution and weather on solar cell output?
P69 062-C30-71	EarEnvSci	M Vaibhav Rau		Suppressing Evaporation
P68 062-C40-22	T EarEnvSci	M Arin Kathapurka	r & Harsha Manamala	Duck Cover Hold
N68 062-C80-41	EarEnvSci	M Jason Tsioutsiou		The effect of the distance and the types of the mobile devices on the
				amount of radiation measured.
N69 062-C90-H1	EarEnvSci	M Ayush Ghosh		Reducing Ocean Acidification Using Aquatic Plants
N70 062-D10-71	PhysAstr	M Ian Widjaja		Optimal Fingering Position for Fortissimo Piano Playing.
N71 062-D11-51	PhysAstr	M James Tsaggaris	<u> </u>	The Effect of Heat on the Strength of Ferrite Magnets
N76 062-D30-G1	PhysAstr	M Wilson Petersen		Super Fastener
N77 062-D31-E1	PhysAstr	M Shawnuk Ballal		What is the effect of common household materials on volume dampening?
N81 062-D60-41	PhysAstr	M Ishan Juluri		The Effect of Tuned Mass Dampers on Oscillating Buildings
N82 062-D70-G2		M Jerry Wang & Et	han Leung	Project Testing: Finding the Best Golf Ball
N84 062-D80-D1	PhysAstr	M Aahan Shah	3	Effect of Mass and Thrust on the Speed of Propeller Zipline Cable Car
N85 062-D90-91	PhysAstr	M Aambhi Patel		The effect of force on distance traveled by an object.
N88 062-E10-G1	ElecEng	M Hamza Ali		Measuring radiation from my phone
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Loc. Proj. Num. Team Field	Gend	er Students	Title
N89 062-E20-C1 ElecEng	М	Daniel Rohim	Effect of Battery Performance at Different Temperatures
N90 062-E30-81 ElecEng	М	Krish Kalra	Electromagnetic Induction
N91 062-E40-32 T ElecEng	М	Neel Jagdish & Siddharth Phatak	Blue Light Exposed
N93 062-E50-G2 T ElecEng	М	Anish Bhethanabotla & Aadtiya Mahajan	An elegant and cost effective way of measuring air quality using Arduino
N95 062-E60-C2 T ElecEng	М	Samuel Fong & Stephen Jeyakumar	What materials can block a wifi signal?
N97 062-E70-91 ElecEng		Ayush Sodani	What is the effect of more turns in the coil on the amount of electricity created?
N98 062-F20-32 T MechEng	М	Isaac Zucker & Doron Bentov & Ori Gillai	The WASP (wearable aerosol spray protection)
м99 062-F30-H1 MechEng	М	Sean Gustavson	How to Cheat at Clash of Clans: Engineering a Machine to
			Repeatedly Tap on an iPad
M98 062-F40-D1 MechEng	М	Hrishikesh Ankireddi	Impact of Ice on Aircraft Engines
м97 062-F50-82 T MechEng	М	Elijah Cedar & Mason Golub & Benjamin Zukin	Maglev Train
м95 062-н10-91 SoftEng	М	Aaryan Doshi	Fight the Fire: An Innovative Software-Based Approach to Fire
			Prevention and Protection using Android Development
м94 062-н20-51 SoftEng	М	Brandon Do	The Self-driving Car
м89 071-130-в1 BehavSci	М	Noah Fond	Tempo Master: Testing Human Sensitivity to Tempo Changes
M81 071-230-31 PlantSci		Rohit Khorana	Which Plant is the Least Flammable
M80 071-240-G1 PlantSci		Jon Gleixner	The Effect of Color on the pH of Carrot Juice.
M79 071-260-72 T PlantSci		Francisco Martin & Jorge Guhe	Sideways Plants vs Right Side Up Plants
м77 071-280-н1 PlantSci		Christian Degnan	The Power of EMF
M76 071-310-31 AnimalSci		Adam Feldman	Technologically advanced humane rodent trap
M71 071-420-81 BiocheMic		Austin Hu	Is Mouthwash as Effective as It Claims?
M67 071-460-91 BiocheMic		Rithvik Chavali	Do UV rays affect enzymatic concentration in certain fungi?
L66 071-480-11 BiocheMic		Shreyas Kapavarapu	Do oils with high MCT digest faster?
		Sadik Aref	Investigating effects of decongestant and coenzymeQ-10 on the heart rate of Daphnia
		Abdullah Anwar	Developing an Artificial Pancreas
L77 071-730-E1 BiomedEn	g M	Yashnil Saha	A Novel Approach to Measure Human Emotions Electronically Using
			Arduino Pulse Sensor
		Andrew Nguyen	Electroactive Polymer (EAP) Prosthetic Hand
		Abhinav Harikrishna & Tanish Swarnapuri	Need A Hand
L85 071-790-62 T BiomedEn	g M	Ben Freda-Eskenazi & Navon Soussan & Dov Morris	Medkit AI: developing a CNN (Convolutional Neural Network) to
			diagnose skin level injuries, and conditions
L92 072-A40-41 Chemistry		Albert Yu	What is the effect of acetone solutions on the removal of spray paint on surfaces?
L93 072-A50-H1 Chemistry	M	Henry Yao	From Food Waste to Food Guard: Creating Chitosan-Based
			Bioplastic, and Its Effect on Food Packaging and Preservation
L94 072-A60-D1 Chemistry		Joshua Lang	How well do different types of sponges absorb water?
L95 072-A70-91 Chemistry		Harrison Wilmot	Which Bubble Solution is Best?
		Jonathan Yu	A Simple Way to Save Oceans
		Ryan Raphael & Devin Wong & Sean Tsui	Sustainable Plant Growth Anywhere, Anytime
		Rayan SenGupta	Clean Water Transportation
		Adhav Saravanan	Harnessing Wind Power Using Household Items
к94 072-в30-н1 CheEnvEn	g M	Sahas Goli	Filter of the Future

Loc. Proj. Num. Team Field Gender Students	Title
K91 072-B32-D1 CheEnvEng M Rohan Lingam	UVPro: Increasing Oxygen Levels in Spacecrafts by Recycling O2
	from the CO2 Molecule using Simulated UV Light
K88 072-B50-91 CheEnvEng M Neel Sudhakaran	A New Fuel Cell Design
кв2 072-в70-н2 T CheEnvEng M Ashar Siddiqui & Neel Sharma & Kabir Sahni	Improving Oil Cleanup Equipment To Help Clean Up Oil Spills
K80 072-B71-F2 T CheEnvEng M Muntazir Mohamed & Tanish Kumar	PICO-Green Energy
к78 072-в81-с1 CheEnvEng M Sidharth Kalje	Water-Efficient Sprinkler System
к77 072-в90-92 Т CheEnvEng M Jeremy Flint & Ryan Co & Noah Barlahan	Making Hydropower More Environmentally Friendly
к73 072-в91-72 Т CheEnvEng M Ari Katsav & Elan Smyla	Capturing Carbon Dioxide
к71 072-С10-Н1 EarEnvSci M Eshan Rachapudi	Extracting Water from Humidity
K70 072-C11-F1 EarEnvSci M Keith Maben	What is the Effect of Nontoxic Surfactants on Dispersing Oil Spills?
K69 072-C20-D1 EarEnvSci M Cameron Nguyen	A Stethoscope for Geysers: Can variations in nozzle pressure predict eruption?
K66 072-C30-91 EarEnvSci M Rushil Saraf	Green Cooling
J66 072-C31-71 EarEnvSci M Brandon Tsai	The Moisture Trap
J73 072-C51-G1 EarEnvSci M Julian Schultz	Can Your Sweatshirt Save You? How effective are fabrics at
	lowering the particulate concentration of polluted air?
J76 072-C52-E1 EarEnvSci M Nilansh Ghosh	Search for a Low-Cost Material to Improve Air Quality.
J77 072-C60-E1 EarEnvSci M Rohit Vakkalagadda	Benevolent Bioplastics: What is the effect of the materials used to
	make a bioplastic bag on the mass it can hold?
J79 072-C62-A1 EarEnvSci M Vedant Janapaty	Water conservation - Drastically reducing surface water evaporation
	with improved water delivery techniques
J84 072-C80-61 EarEnvSci M Ameen Elshareif	Which Fabric is Most Biodegradable?
J88 072-С91-H1 EarEnvSci M Andrew Chandra	How Does Acid Rain Affect Plants?
J95 072-D40-E1 PhysAstr M Ishwar Suriyaprakash	Factors affecting the amplitude of sound propagating through a tube
J96 072-D41-C1 PhysAstr M Abhishek Rao	The effect of the shape of the front of a Hyperloop on its speed
J97 072-D50-A1 PhysAstr M Joseph Vazhaeparampil	Exploring Photochromics
J98 072-D51-81 PhysAstr M Justin Kim	The effect of the type of vertical stabilizer on the directional stability of an airplane.
J99 072-D60-61 PhysAstr M Michael Varnava	How to cool a bottle of water the fastest.
H99 072-D70-21 PhysAstr M Beckett Lyons	The Aerodynamic Of Truck Platooning
H95 072-E11-G1 ElecEng M Sameer Tangirala	Design of a efficient indoor solar charger
H92 072-E21-C1 ElecEng M Abhinandan Singh	Electricity Generating Roller Backpack
H88 072-E50-21 ElecEng M Adhip Raghunathan	Novel Electrochromic System to Regulate Internal Lighting
H85 072-E60-F1 ElecEng M Nicolas Quijano	Probing Haptic Glove for the Visually Impaired
H80 072-E90-31 ElecEng M Patrick Thai	Solar Glass Building
H79 072-F10-A1 MechEng M Aadit Golwala	Making an Offshore Wind Turbine Where the Entire Structure Turns into the Wind
H77 072-F12-61 MechEng M Terry Hsu	Robotic Control On Puppets- a First Study On Bionics
H76 072-F20-61 MechEng M Swastik Purathepparambil	The Ergonomic Lunch Box
H70 072-F30-12 T MechEng M Ethan Louie & Kyle Ogino	A Squishy Speed Bump
G78 072-F61-51 MechEng M Charles Huang	Dual-Purpose Boba Straw
G81 072-F70-31 MechEng M Victor Dang	Gas on Bike Tires
G82 072-F71-H2 T MechEng M Anay Takkallapalli & Rishab Pala & Darrell Li	Whoa Watch Out
G84 072-F81-E1 MechEng M Atharvaa Jogalekar	Get a Grip: Robotic Arm to Help with Physical Impairment

Loc. Proj. Num. Team Fi			Title
G85 072-F90-C1 Mech		Sanjit Borle	Automated Sun-Visor with photon detection
G90 072-G10-21 Math	M	Keshav Narang	Generalizing a Solution to the Tower of Hanoi with Varying Number
			of Pegs and Rings
G91 072-H10-B1 SoftE	ing M	Rayyan Hussain	An application that helps students improve speech delivery using
			speech recognition and machine learning techniques
G93 072-H20-62 T SoftE	ing M	Aidan Liu & Yul Han & Selim Gurkas	Pedestrian Safety in a Driverless Automobile World
G95 072-H21-51 SoftE	ing M	Alon Knaan	Bionic Xylophone Arm
G99 072-H41-E1 SoftE	ing M	Vishnu Potharaju	Help Save the Planet - TrashRight
F98 072-H51-A1 SoftE	ing M	Aneesh Bairagi	Coding Traffic
F97 072-H60-72 T SoftE	ing M	William Zhang & Ethan Liu	Modelling Wildfires with an Android App
F95 072-H70-32 T SoftE	ing M	Ben Zeitzer & Dan Honigstein	E-Sort: An electronic trash-sorting device
F92 081-130-C2 T Beha	vSci M	Stephen Xia & Jeremy Ko	The Effect of Fast-Paced Video Games on Short-Term Concentration
F85 081-160-н2 T Beha	vSci M	Rupert Chen & Mir Bahri	The High-Risk Decision Making Process
F83 081-170-D2 T Beha	vSci M	Emmett Chung & Aspen Shen	The Effect of Level of Interest in a Product on Reading a Privacy Policy/Agreement
F78 081-210-D1 Plant	Sci M	Brian Chen	Validating Novel Algorithm-Generated Crop Rotations: A Second Year Study
F66 081-290-E2 T Plant	Sci M	Nicholas Wei & Jai Mehta	Shorter Days: The Effect of the Day/Night Cycle on Plant Growth in Indoor Farming
E70 081-350-61 Anim	alSci M	Nicolas Soto	Beetle maze runner- what is the effect of maze complexity on completion time?
E88 081-460-A2 T Bioch	neMic M	Johnny Kuehnis & Harper Brada	The potency of mold growth on different types of bread
E90 081-480-31 Bioch	neMic M	Iyaad Ahammed	Magical Microbes:Producing clean energy using microbial fuel cells
E96 081-660-C1 Med	HeaSci M	Milan Del Buono	The effects of sugar alcohols on the common fruit fly
E97 081-670-81 Med	HeaSci M	Abhinav Nagabhirava	What is the Effect of Microwaving on the Vitamin C Content of Different Vegetables
D98 081-750-81 Biom	edEng M	Felix Liu	The Natural Spring
D93 082-A20-E1 Chen	nistry M	Pranav Amarnath	Effect of acid on activity of salivary amylase enzyme in digesting starch
D92 082-A30-A1 Chen	nistry M	Neil Pendyala	What is the most effective way of removing detergent from water?
D91 082-A40-52 T Chen	nistry M	Gordon Chen & Jacob Huang	Inhibiting Rabies at the Molecular Level
D89 082-A50-21 Chen	nistry M	Dario Quintero	Measuring the Capillary Action of Various Kinds of Paper
D84 082-B20-61 CheE	nvEng M	Siddhesh Dash	The Design and Construction of Ember-Proof Tiles for Use by Those
			Living in Wildfire Prone Areas.
D83 082-B21-41 CheE	nvEng M	Matthew Lei	Variables that Affect AQI
		Aryo Nabyzadeh & James Thornton	Creating a more efficient storm drain design
		Harsha Rohan Rajkumar	Naturogenic Cloud
		Vasily Ermolenko & Jonathan Dimas	Emergency gas mask for smoke from forest fires
		Rahul Herrero & Ethan Joseph	Freshwater Pollution and its Effects on the Growth of Plants
D67 082-C21-C2 T EarE	nvSci M	Krish Kumar & Anvay Deshpande	The Design of an Indoor Air Purifier
C66 082-C30-A2 T EarE	nvSci M	Alexander Lan & Krish Maniar	Investigating CO2 absorption in Chlorella to find the best
			environment to mitigate global warming
C69 082-C40-71 EarE		Rayyan Talukdar	"Compost at Work: Bioremediation of Pesticide/Herbicide Contaminated Soil".
		Ben Hayes	Creek Stew
		Muhammad Hashir Tahir	Can Nanotechnology help clean up ocean oil spills?
		Ateef Mahmud	Eutrophication: The De-oxygenating Epidemic in Water Bodies
C77 082-C90-32 T EarE	nvSci M	Kinjal Govil & Uday Chaudhary	What is the effect of using compound wood boards on the overall

Page 20 of 30

Loc.	Proj. Num. Te	am Field	Gend	er Students	Title
					flammability, durability and strength of the wood board?
C79 0	082-D10-B1	PhysAstr	М	Sritej Ponna	What is the Effect of Different Frequencies, Amplitudes, and
					Distances of Sound Waves on Fire
C80 0	082-D11-91	PhysAstr		Reese Byers	French Fire
C82 0	082-D30-22	T PhysAstr	М	Rahul Santhanam & Brandon Wang	The Range of Velocities Required For Acceptable Kendama Makes
		•		· ·	When Factoring Different Measurements and Models
C85 0	082-D50-C1	PhysAstr	М	Kavin Saravanan	What is the effect of different helmet materials on the tensile strength of the material?
C91 0	082-D80-H1	PhysAstr	М	Etienne Vizian	How are the flow rates of different powders affected by the
		•			introduction of pressurized air?
C92 0	082-D90-C2	T PhysAstr	М	Chris Wong & David Kipp	The Effect of Rotor Shape on Lift
	082-E10-22			Saahil Thoppay & Rahul Mulpuri	Harnessing Waves to Further Renewability of Electricity
	082-E11-11	ElecEng		Anirudh Venkatraman	Tremor Monitor
C97 0	082-E12-G1	ElecEng	М	Ishaan Agrawal	A Wireless Piezoelectric Auto-Charging Backpack for Mobile Devices
B98 0)82-E22-B2			Xavier Cairel & Avaneesh Aruva & Avishai D'Souza	Car Power Generator
	082-E30-C1	ElecEng		Kaushik Salem	A target acquisition system for landing aircrafts in constrained spaces
		3			using modified Hough Transform
B92 0	082-E50-32	T ElecEna	М	Austin Wu & Sherif Abdou	Building a rescue robot
	082-E61-F1	ElecEng		Daniel Siegel	Surround3: The Design and Construction of a Sensor-Enhanced
200 0	.02 201 11	2.002.19		Zamor Clogor	Probing Cane to Help the Visually Impaired
B85 0	082-E70-C2	T ElecEna	М	Nico Patron & Sebastien Maes	Bike Power Generator
	082-E90-51	ElecEng		Adeeb Syed	How safe is your wallet? Blocking RFID readers from reading your ID cards
	082-F40-H1	MechEng		Alexander Nguyen	Exoskeleton Actuation
	082-F50-D1	MechEng		Christian Moran	Maximizing Golf Ball Performance by Studying the Effect of the
2.00	.02 100 21	oog		omotan moran	Deepness of Its Dimples
B69 0)82-F60-91	MechEng	М	Roy Gross	Autonomous Ocean Robot
	082-F70-51	MechEng		Matthew Homan	Humidity to Infinity
	082-H11-A2			Rohan Bhowmik & Arjun Barrett	Using Machine Learning and Infrared Imagery to Detect Drunk Individuals
	082-H12-82			Saurish Srivastava & Shuhul Mujoo	Leveraging Machine Learning to Compute the Progression of Parkinson's Disease
	082-H21-71	SoftEng		Om Chhaya	Wearable Personalized Health Information System
	082-H23-31	SoftEng		Alan Lee	Machine Learning for Distinguishing Benign from Malignant Liver Tumors
	082-H31-22			Justin Hou & Juno Kim	Analyzing Images and Text Found Online with AI in Order to
A// 0	702 1131 22	1 Contains	171	Sustin Flou & Suno Kim	Determine if a Website is Educational
⊼ 79 ∩	082-H32-11	SoftEng	LΛ	Sharad Parulekar	Dr.One: A Flying Angel to Keep an Eye on Seniors
	082-H32-II 082-H40-H2			Andrew Fox & Max Blennemann	BrAIn Storm
	082-H40-H2 082-H42-E1	SoftEng		Joseph Thomas	Transfer Learning from Deep ImageNet Models to Simpler Models for
A03 U	107-U47-FI	SoliLing	IVI	υσ ο ρη τησιμασ	Rapid Binary Classification
7.00 0)82-H51-B2	T SoftEng	NΛ	Matthew Lee & Yong Won Choi	How the public's perception of Donald Trump changed over 10 years
		SoftEng		Yu-Ting Chang	Greedy, Yet Intelligent, Algorithms for the Game 2048 Using Python
	082-H52-A1				
A91 0)82-Н61-81	SoftEng		Neel Gajare Stanley Shen	Deep Neural Network and Image Recognition using Raspberry Pi Using Recurrent Neural Networks to Predict the Trajectory of
3 O F O					- Deing Recorded Neural Networks to Predict the Trajectory of
A95 0	082-H72-21	SoftEng	IVI	Startley Stierr	Symmetrical and Asymmetrical Objects

A97 082-H81-H1 SoftEng M Rohan Siva The Bane of Vulcan Y11 091-130-F1 BehavSci M Sai Bhujangari The effects of alanine increase in C. Elegans diet or detect NaCl from further distances Y26 091-230-71 PlantSci M Rahil Kapadia The Germination of Rice Using Hydroponics Y29 091-320-31 AnimalSci M Jonah Tien Measuring the Effect of Varying Electrical Current Fig. 1. The Bane of Vulcan The Bane of Vulcan The Bane of Vulcan The Germination of Rice Using Hydroponics M Sai Bhujangari The Germination of Rice Using Hydroponics M Sai Bhujangari M Rahil Kapadia The Germination of Rice Using Hydroponics	the ability to
detect NaCl from further distances Y26 091-230-71 PlantSci M Rahil Kapadia The Germination of Rice Using Hydroponics	the ability to
Y26 091-230-71 PlantSci M Rahil Kapadia The Germination of Rice Using Hydroponics	-
V29 091-320-31 AnimalSci M Ionah Tien Measuring the Effect of Varying Electrical Current Fi	
	equencies on
Controlled Stimulation of Cephalopod Chromatophores	
Y41 091-360-41 AnimalSci M Tejas Rao What are the effects of the cGMP dosage in C. Elegans on its	
Y52 091-430-81 BiocheMic M Zechen Liu The effect of salinity on the nitrogen-fixation effects of Azospirillum Br	asilense
Y53 091-431-61 BiocheMic M Shailesh Senthil Kumar The Effect of Quorum Sensing Molecules on Extra	cellular Matrix
Production in the S. Epidermidis Biofilm	
Y54 091-440-41 BiocheMic M Tejas Bharadwaj Effect of Glufosinate on the Ability of Microcystis Aerugi	nosa to Inhibit
Aspergillus Flavus Growth	
P57 091-460-D1 BiocheMic M Varchas Bharadwaj Effect of Carbon Dioxide on the death count of Es	cherichia Coli
infected with Bacteriophage T4.	
P56 091-461-B1 BiocheMic M Ahmad Ismail Exploring a Treatment for Candidiasis by Investigatin	g Interactions
Between Candida and Bacteria	5
P54 091-471-71 BiocheMic M Sasvath Ramachandran The Effects of UVA Radiation on Hypsibius dujardini Reproduction Ca	pabilities
P50 091-510-81 BioInfo M William Huang Identification of Gene Signature Profiles of Asthma using Mac	
P49 091-520-32 T BioInfo M Rishab Parthasarathy & William Zhao SkinSight: A Novel Implementation of a Convolu	
Network to Recognize Skin Diseases	
P47 091-530-G2 T BioInfo M Harsh Deep & Kailash Ranganathan Developing a Convolutional Neural Network to Process Images of Liv	er Cirrhosis
P42 091-610-H1 MedHeaSci M Anant Chaudhary The Effect of Hyaluronic Acid on Collagen Production in	
P39 091-621-B1 MedHeaSci M Deepesh Aggarwal Effects of Different Spices on Yeast Production	
P37 091-650-11 MedHeaSci M Timothy Shao The Increase of Food Allergies in Modern Society	
P30 091-720-51 BiomedEng M Jason Co The Multipurpose Prosthetic: Using 3D printing to o	reate various
attachments for amputees	
P27 092-A20-G1 Chemistry M James Pham Cheaper Smiles	
P23 092-B20-81 CheEnvEng M Devin Gupta The Effects of Cellulose/Polypyrrole Composite on English	ray Retention
Rates in Specialized Paper Thin Batteries	ngy reconden
P22 092-B30-41 CheEnvEng M Ryan Shen Using the Plastron Properties of a Super-hydrophologous CheenvEng M Ryan Shen	ic Surface to
create an Underwater Shelter	io Gariade to
P20 092-B60-91 CheEnvEng M Rishab Gupta Utilizing a network of sensors to predict the likeliness of	a wildfire
P19 092-B70-51 CheEnvEng M Diptanshu Sikdar Novel Hybrid Thermal Management Solution for Photovoltaic	
P18 092-C10-41 EarEnvSci M Abhay Kopardekar The Use of Mealworms to Break Down Styrofoam	2,3001110
P17 092-C20-G2 T EarEnvSci M Aryan Dwivedi & Tanush Goel & Kevin Li Measuring the effect of different categories of comp	ostable waste
materials on the pH level of the compost produced	Jolabic Wasie
P14 092-C40-91 EarEnvSci M Surya Tallavarjula Evaporative Cooling Optimization Study With Capillary Action Driven	Water Transport
P11 092-D10-D1 PhysAstr M Reese Wiitala Multilayered Thermal Shield Control for Small Satellites	
N10 092-D20-91 PhysAstr M Krithi Koodli A Novel Method of Distinguishing Habitable Rocky	
	rianets nom
Uninhabitable Gas Giants using Machine Learning N11 092-D30-51 PhysAstr M Rakesh Mehta How does the size of nozzle affect ion engine's speed?	
N11 092-D30-51 PhysAstr M Rakesh Mehta How does the size of nozzle affect ion engine's speed?	

Loc. Proj. Num. Tea	am Field	Gend	er Students	Title
N17 092-E30-E1	ElecEng		Saurav Gandhi	A Hand Dynamometer Controlled Computer Vision based Al Robotic
				Navigation System for the Visually Impaired and Elderly
N26 092-E70-F1	ElecEng	М	Anav Mehta	A Cheap Braille Literacy Assistant
N29 092-E90-71	ElecEng	М	Tejas Prabhune	Developing a Reusable LED Notifier for Consumers Using Expired Pills
N30 092-F20-92	T MechEng	М	Ethan Buriel & Tyler Louie & Thomas Mathew	Making a more comfortable cooling mask that filters polluted air
N37 092-F60-B1	MechEng	М	Jordan Giang	Factors in Effective Fire Maintenance
N38 092-F70-71	MechEng	М	Erick Chevez	Pest Control with Electric Fields
N44 092-F90-G1	MechEng	М	Ethan Zuo	The Effect of Thermal Transfer Rate on Laptop Performance
N45 092-G10-61	Math	М	Alexander Zhang	The Effects of a Random Configuration of a Master Pyraminx on its Solveableness
N46 092-H11-D1	SoftEng	М	Aditya Indla	Intelligent Wildfire Early Warning System
N48 092-H20-B1	SoftEng	М	Rishi Pankhaniya	A Portable Pollen Counter
N50 092-H22-71	SoftEng	М	Vivek Bharati	Portendo: An inertial measurement-based device that predicts
				concussions in athletes playing football.
N51 092-H30-71	SoftEng	М	David Dai	Spanish and English-speaking Tweet Sentiment Analysis &
				Prediction of 2018 US Senate & Gubernatorial Election in Florida
N52 092-H31-51	SoftEng	М	Aeshon Balasubramanian	Improving the Safety of Self-Driving Cars with Deep Learning and Audio
N53 092-H32-22	T SoftEng		Atreya Ghatak & Rohan Khubchandani	Developing Mobile Application: Traffic Law Advisory
N56 092-H41-11	SoftEng	М	Veer Doshi	Aiding Wildfire Rescue Operations through Mobile Geolocation
				Tracking, Geofencing and Data-Driven Prediction Modeling
M59 092-H51-E1	SoftEng	М	Shlok Shah	Creating a Non-intrusive Elder Care System
M57 092-H60-C1	SoftEng	М	Mahit Tanikella	Human Protein Atlas Image Classification
M56 092-H61-A1	SoftEng	М	Sohan Nannra	A system for tracking the distribution of tax-based revenues
M52 092-H71-61	SoftEng	M	Anish Iyyavoo	A novel approach to find optimal scheduling for doctors in hospitals
				using genetic algorithms
M50 092-H90-G2	T SoftEng	M	Sumedh Shenoy & Arhan Mulay & Elliu Huang	The design and construction of a program to assess foot deformities
				to detect flat feet via MMS
M47 093-310-91	AnimalSci	M	Adarsh Ambati	An In-Field Diagnostic to Detect a Chytrid Fungal Amphibian
				Pathogen Using Ribosome Display and Lateral Flow Assays
M35 101-210-11	PlantSci	M	Robert Stanley	Testing Pontederia Cordata with Turbulence in Water for Pollutant
				Absorption Capability
M30 101-260-F1	PlantSci	M	Srikar Kolluru	Modeling the Effect of pH Changes on Digestive Enzyme Activity: An
				Application to Cancer
M27 101-330-12	T AnimalSci	M	Prakrit Jain & Harper Forbes	Investigation of Compounds responsible for scorpion fluorescence
				and cuticle light sensitivity
M23 101-350-B1	AnimalSci		Chehan Wijayaratne	Do Ants need a GPS?
M17 101-440-71	BiocheMic		Nicholas Manuto	Expressing Alkane Degradation and Measuring the Biodegradation Efficiency
M16 101-450-22	T BiocheMic	M	Andrew Dang & Joshua Park	The Effect of Materials and Their Properties on The Effectiveness of
				Solar Water Disinfection
M10 101-521-51	BioInfo	M	Shivek Narang	Predicting the Effect of Novel Missense Mutations in Neurological
				Disorders on Protein Structure and Function, in silico
L12 101-550-C1	BioInfo	M	Vardhan Agrawal	A Novel System for Cuff-Less Blood Pressure Monitoring
				0

BioInfo		
טווווטוכ	M Andre Mai	Ductal and Lobular Breast Carcinoma miRNA Expression
ViedHeaSci	M Logan Morley	The effects of N-Methylglycine on the pgp-3"F508 mutation in C.
		Elegans, modeling Cystic Fibrosis
MedHeaSci	M Nishan Reddy	Testing the effects of the herbicide, Glyphosate, on motor neurons within C. elegans
MedHeaSci	M James Ouyang	The Healing Abilities of Antioxidants on Drosophila with Blue Light
	, ,	Induced Photoreceptor Degeneration
//dedHeaSci	M Ruchir Kodihalli	A Novel Way to Determine if Organophosphates Cause Neurological Disorders
3iomedEng	M Arnav Jhingran	HeartSense: Detecting cardiac abnormalities using a simple
	-	stethoscope recorder and analysis using a deep learning model
3iomedEng	M Shashank Venkatramani & Pranav Eranki	Asthma diagnosis and progression tracking through the use of
J		non-intrusive wearable technology and respiratory analysis
3iomedEng	M Samarth Girish	Ortho-Analyzer: A Deep Learning Based Tool for Malocclusion Detection
Chemistry	M William Huang & Dawson Le	Water Resistant Swimming
		The Effects of Different Aquatic Environments on the Rate of
•	•	Polyethylene Biodegradation by Bacillus subtilis
arEnvSci	M Akshanth Srivatsa & iain jung & Jason Lo	The effect of C4H6O4Ca and Ca(OH)2 on the growth of algae
	, ,	cyanobacteria Anabaena sp. when added to fertilizer
hysAstr	M Raj Sheth	Safe Cars? Not yet
		Sequential Monte Carlo Based Localization Robot
ElecEng	M Andrew Chiang	3D LED Volumetric Display with Eccentric Rotating Blades
ElecEng	M Sohom Roy	Gyroscopic Based System to provide Camera Stabilization and
J	•	Object Detection/Tracking in Real Time
ElecEng	M Aashish Kamidi	Automated Car Parking Assistant
	M Joshua Lee	A Novel Method of Energy Harvesting Via RF-DC Rectifying Circuits
J		for Use in Low-Power, Low-Profile Computing Systems
MechEng	M Hung Nguyen & Steve Nguyen & Kyle Fabia	The Effect of Foam Material Properties on Impact Noise Generation
		Go Kart Karzyness
SoftEng	M Nicholas Hotelling	Estimating Volleyball Speed Real-time Using an Apple iPhone
	M Aalok Patwa	Computationally Efficient, Accurate and Real-Time Detection of
J		Colon Polyps Using Deep Neural Networks
SoftEng	M Nikhil Chandra	Automated Diagnosis of Cardiovascular Disease through Deep Learning
	M Maciej Buszko	Swarm Navigation Control Systems for Connecting Tetrahedral
J	-	Linear Actuator Robots
SoftEng	M Rohit Malhotra & Vivek Verma	Navigation for the Blind using Deep Learning and Image Processing
		EcoBot: A Chatbot for Educating Users on Environmentalism and Climate Change
	M Siddharth Sharma	DermaDetect: A computer vision and machine learning approach for
Ŭ		an accurate diagnosis of skin conditions and rashes
SoftEng	M Sohan Talluri & Anant Bhatia	Machine-Learning based ASL Video Translation Glasses to simplify
5		conversation with the deaf or dumb
		conversation with the dear of dumb
SoftEng	M Akul Datta	Can we prevent automotive accidents with pedestrians by creating
	MedHeaSci MedHeaSci MedHeaSci BiomedEng BiomedEng BiomedEng Chemistry CheEnvEng EarEnvSci PhysAstr ElecEng ElecEng ElecEng MechEng MechEng SoftEng	MedHeaSci M Nishan Reddy MedHeaSci M James Ouyang MedHeaSci M Ruchir Kodihalli BiomedEng M Arnav Jhingran BiomedEng M Shashank Venkatramani & Pranav Eranki BiomedEng M Samarth Girish Chemistry M William Huang & Dawson Le CheEnvEng M Aditya Tadimeti EarEnvSci M Akshanth Srivatsa & iain jung & Jason Lo PhysAstr M Raj Sheth ElecEng M Michael Yuan ElecEng M Andrew Chiang ElecEng M Sohom Roy ElecEng M Aashish Kamidi ElecEng M Joshua Lee MechEng M Hung Nguyen & Steve Nguyen & Kyle Fabia MechEng M Muhammed Shah BoftEng M Nicholas Hotelling BoftEng M Nicholas Hotelling BoftEng M Nikhil Chandra BoftEng M Rohit Malhotra & Vivek Verma BoftEng M Kaushik Tota BoftEng M Kaushik Tota BoftEng M Kaushik Tota BoftEng M Siddharth Sharma

Loc. Proj. Num.	Team Field	Gend	ler Students	Title
J10 102-H33-4	1 SoftEng		Sivaramakalyan Suvarna	A Deep Learning Based Music Judge for Music Learners and Competitions
J11 102-H40-6	1 SoftEng	M	Rohan Viswanathan	Advancing Social Interaction for the Visually Impaired Using Machine
				Learning Methodologies
J15 102-H43-H	1 SoftEng	M	Avi Goel	A new means of analysis of chaotic systems via supervised learning,
				with respect to the stock market
J16 102-H50-2	1 SoftEng	M	Shray Alag	Applying Natural Language Processing to Mine Clinical Trials Data to
				Extract Unique Insights about Diseases, Drugs, SNPs
J17 102-H51-G			William Nguyen & Allen Vu	Vertical Indoor Garden Automated by Arduino
J19 102-H52-F			Munir Bshara	Protecting Digital Information in Post Quantum Computing Era
J20 102-H53-D			Aadit Trivedi	Third Eye: A Smart Braille Assistant for the Visually Impaired
J26 102-H62-B			Arvind Ramachandran	SafeRetro: A Secure Emulator for 8080 apps
Ј27 102-Н63-9			Mehrzad Gandhi	Text Analysis with Computer Science
Ј30 102-Н71-8	2 T SoftEng		Srivishnu Pyda & Krishay Mukhija	Using Deep Learning Techniques to Develop Novel Inhibitors of Tyrosine Kinase
Ј37 102-Н83-1	1 SoftEng		Nikhil Gargeya	Visualizing Endangered African Elephant Habitat Maps for Anti-Poaching Efforts
Ј38 102-Н90-3	1 SoftEng	M	Nikhil Pitta	Accurate Triage System Using Machine Learning Algorithm Based
				On Vital Signs and Symptoms to Sort Patients by Severity
Ј39 102-Н91-1	1 SoftEng	M	Sriteja Vijapurapu	Musical Navigation System for the Visually Impaired
J42 102-H92-G	1 SoftEng	M	Bharat Kathi	Mapping Interent Topology Using Open Source Tools
J43 102-H93-D	2 T SoftEng	M	Ashwin Rajesh & Eric Hu	An Image-Based Archaeological Classification System using
				Computer Vision and a Convolutional Neural Network
J45 103-110-B	1 BehavSci	M	Jason Lin	The Role of Relational Reasoning in College Student Learning
J49 103-510-D	1 BioInfo	М	Josh Sanyal	Fully Automated Image Analysis Pipeline for Assessing the
				Aggressiveness of Prostate Cancer in Multiparametric MRI Scans
J51 103-530-4	2 T BioInfo	М	Srinath Somasundaram & Andrew Lee	A Novel Design and Evaluation of a Machine Learning Approach to Stage
				and Prognose Lung Cancer through a Preliminary CT
J54 103-620-1	1 MedHeaSo	i M	Michael Eng	Role of Host Cell Receptors in the Uptake of the Fungus Candida Albicans
J59 104-D20-E	1 PhysAstr	М	Akash Dasgupta	Low-temperature Methods for Creating Stable, Optimal Efficiency
				Dye-Sensitized Solar Cells and Perovskite Solar Cells
H59 104-D30-A	1 PhysAstr	М	Akhilesh Balasingam	The Search for a Better Synapse for Neurocomputing: A KMC Study of
				Defect-Modulated Non-Filamentary RRAMS Under Pulsing
H55 104-H20-G	1 SoftEng	М	Arya More	Passwordless Authentication
H49 111-220-G	1 PlantSci	М	Billy Nguyen	What is the effect of plant fertilizer nutrients on plant growth and nutrition?
H48 111-230-C	1 PlantSci	М	Jerricho Habon	Effects of Caffeine on Plant Development
H47 111-240-7	2 T PlantSci	М	Caleb Kim & Jonathan Ta	The Effect of Acidic Solution on Plants
H45 111-250-4	1 PlantSci	М	Yuvraj Gill	Companion Planting
H43 111-270-D	1 PlantSci	M	Royal Huey III	Effects of Simulated Microgravity through Perpetual Falling on
				Raphanus raphanistrum Root Network Development
Н35 111-320-8	1 AnimalSci		Timmy Pham	The Effects of Fertilizers and Pesticides on Invertebrates and Aquatic Plants
Н27 111-420-Н	1 BiocheMic	M	Franklin Ruan	The Symbiotic Effects of Panax notoginseng (Ginseng) Extracted
				Steroid Glycosides on Kanamycin Resistant E-Coli
H22 111-430-D	1 BiocheMic	М	Alexander Wu	In vitro models of meningeal lymphatic clearance on diffusion across

Page 25 of 30

Loc. Proj. Num. Te	am Field G	Sender Students	Title
200. 110j. 140111. 101	um mora c	orda or no	the blood cerebrospinal fluid barrier
H17 111-442-51	BiocheMic	M Hoang Tang	Effects of silver-chitin mixture on prostate cancer-cells
H12 111-460-11	BiocheMic	M Ethan Kim	The Effects Of Vitamins A,B and D on colon cancer cell line LoVo
G11 111-480-A1	BiocheMic	M Brayden Chipman	The Interactions of Synphilin-1 Proteins and SH-SY5Y Cells in
		,	Varying Insulin Environments
G15 111-510-D1	BioInfo	M Chinmay Lalgudi	Investigating biomarkers in Parkinson's Disease for prodromal
		J	diagnosis and prediction of disease progression
G16 111-520-91	BioInfo	M Pranav Kakhandiki	Automated Diagnosis of Aortitis using Machine Learning
G17 111-530-42		M Carter Bian & Bhargav Hadya & Parth Pawar	Encephalitis Detection via Random Forest Algorithm of MRI and
			Electroencephalography (EEG)
G19 111-540-11	BioInfo	M William Bai	A Novel Algorithm for Protein Structure Comparison
G21 111-560-A1	BioInfo	M Tarun Chiruvolu	Toward Automated Pathology: Deep Learning for Breast Cancer
			Classification and Genomic Characterization
G22 111-570-61	BioInfo	M Benjamin Lipman	Accurate Identification of Cardiac Anomalies Through Deep Learning
G26 111-580-12		M Anish Somani & Sina Nakhkoob Niasari	A Novel Technique in Drug Design: Applying Dynamic Undocking to
			Modify Cdk-2 Inhibitors to Treat Deafness
G33 111-631-C1	MedHeaSci	M Devin Shah	Using Amazon Alexa and AWS CloudWatch as an Analytical Tool to
			Assess Cognitive Function
G36 111-660-12	T MedHeaSci	M Hunter Liu & Saneel Khairnar	What is the effect of different components of sebum on the growth
			and reproduction of Propionibacterium acnes (P. acnes)
G38 111-670-F1	MedHeaSci	M Ashvin Irrinki	A Novel Biomarker for Detecting CTE Utilizing TDP-43 Aggregated
			Deposits in Relation to Elevated Tau Concentration
G39 111-680-A2	T MedHeaSci	M Raymond Kuan & Derek Tan	Effects of phycocyanin in spirulina platensis on planarian tumor growth
G44 111-710-E1	BiomedEng	M William Yang	Separating and counting red blood cells using microfluidic
		-	magnetophoresis, phone imaging, and machine learning analysis
G45 111-730-61	BiomedEng	M Darshan Chahal	Validating the Efficacy of the Peanut Allergen Sensor, TestNut
G46 111-740-21	BiomedEng	M Edward Ross	Designing a Better Waterproof Bandage
G49 112-A10-81	Chemistry	M Alexander Guh-Siesel	Synthesizing Analogs of ?2-gliadin proteins to bind with HLA-DQ2
			Receptors to eliminate Inflammation in Celiac Disease
G52 112-A30-H1	Chemistry	M Hrushikesha Athreya	Using silicon to dope Titanium dioxide films to enhance the
	_	•	photocatalytic abilities of Titanium dioxide
G54 112-A70-H2	T Chemistry	M Timothy Nguyen & Alexandro Rivapalacio	Temperature as a lead abatement process
G56 112-B10-H1	CheEnvEng	M Liam McHugh	Engineering Magnetorheological Fluid for Optimal Performance in a
			Variable Compression Damper
G58 112-B21-B1	CheEnvEng	M William Chung Chung	Manipulating concentrations of plant-based starches to optimize
			durability for use in biodegradable plastics
F59 112-B40-51	CheEnvEng	M Anderson Wang	Engineering an Efficient Super-capacitor with Inexpensive
			Electrolytes Derived from Organic Heterocyclic Cations
F58 112-B50-11	CheEnvEng	M Jason Chen	Optimizing Simultaneous Saccharification and Fermentation of
			Invasive Undaria Pinnatifida to Create Bioethanol
F57 112-B60-E1	CheEnvEng	M An Le	The Dependency of Voltage and Electric Current on Citric Acid

Page 26 of 30

Loc.	Proj. Num. Te	am Field	Gend	er Students	Title
	.,				Concentration and Different Types of Metals in Batteries
F56	112-B70-A1	CheEnvEr	ng M	Srinivas Balagopal	Bio-wall:Retooling walls into Carbon and VOC sinks
F55	112-B80-52	T CheEnvEr	ng M	Ganesh Pimpale & Timothy Nguyen & Jyotaaver Nirula	Marine Autonomous Litter Collector (M.A.L.C.)
F53	112-B90-12 T CheEnvEng M Rahul Shenoy & Yash Rao & Joshua Thomas				Water from air particles
F44	112-D10-11	PhysAstr	M	Milan Ganai	A Novel Segregation of Lorentz-boosted Higgs Bosons from the
					Biggest QCD Background with High Efficiency and Precision
F43	112-D30-A1	PhysAstr	M	Jeremiah Manning	Discrepancies Between the Simultaneous Localization and Orthodox Interpretation of Quantum Mechanics on Measurement
F42	112-E10-A1	ElecEng	М	Tyler Adams	Testing the Electrical Generation Possibility of a Multi-electrode
					Microbial Fuel Cell in a River System
F38	112-E20-52			Ojas Mor & Aayush Bhat	OmniVision: A wearable device to aid the visually impaired using echolocation.
F36	112-E30-21	ElecEng	М	Matthew Cho	A novel device for detecting objects using artificial intelligence and
					sound localization for the visually impaired
F31	112-E70-22			Terrence Te & Ethan Pang	Developing an application utilizing sound localization for the hearing impaired
F29	112-E80-G1	ElecEng	М	Ajosh Antony	Optimization of Figure-of-Merits of a Linear Permanent Magnet
					Brushless Synchronous Motor for a Cable-less Elevator
	112-E90-C1	ElecEng		Siddharth Das	An Intelligent Mechanism to Prevent Vehicle-Ramming Tragedies
F23	112-F20-E2	T MechEng	М	Bogdan Kovtun & Steven Long	The Future of Unmanned Aircraft Systems: A Novel, Cost-Effective,
					Modular UAS Concept
F12	112-F80-81	MechEng	М	Ansel Austin	Clean Water For All: a Novel Filtration and Maintenance Mechanism
					for Improving India Mark II Water Pump Performance
F11	112-F90-32	T MechEng		Luis Alcaraz & Jose Talon	The Role of Grain Size in Arch & Pillar Strength
E10	112-G10-A2	T Math	М	Suhas Prasad & Raj Palleti	What Dimensional Isomorphisms Extend the Eulerian Sequence? A
					Computer-Inspired Analysis
E15	112-H13-E1	SoftEng	М	Tejaswi Vemulapati	Text Prediction For Mobile Devices Using Character-Level Recurrent
					Neural Networks
E17	112-H21-E1	SoftEng		Kunal Sheth	Modeling Type-Level Integers in Kotlin via Metaprogramming
E19	112-H23-A1	SoftEng	М	Jashan Pabla	Virtual Classroom
E20	112-Н30-С1	SoftEng	М	Dadmehr Ghasemfar	Detection of Forest Fires through the use of Convolutional Neural
					Networks and other Algorithmic Techniques
E26	112-Н32-72			Ashish Rao & Tejas Narayanan & Bidipta Sarkar	Novel Reinforcement Learning Methods in Collaborative Environments
E28	112-Н33-61	SoftEng	М	Ashvin Maheshwar	Music To Your Eyes: Experience Music Through Emotion Extraction
					and Visual Transformation
E29	112-Н40-72	T SoftEng	М	Nikhil Satheesh Pillai & Aditya Sharma & Pranava Parasa	Virtual Voyage: Using 3D Sound Spatialization to Help Cortical
					Visually Impaired Patients through Machine Learning
E32	112-Н43-21	SoftEng	M	Jonathan Park	Choose the Correct Products! Smart Speaking Glasses App to Find
					Food and Drug Allergens for Seniors
E33	112-Н50-41	SoftEng	М	Nirmit Ashar	Smartsign, a translating tool for the verbally impaired using machine learning
E37	112-Н60-Н1	SoftEng	М	Raghav Ganesh	Developing a novel, accurate, and rapid machine learning based skin
					disease classification algorithm
E38	112-H61-F1	SoftEng	M	Lakshay Maharana	A novel machine learning algorithm to detect an arrhythmia using

Page 27 of 30

Loc.	Proj. Num. Te	eam Field (Gend	er Students	Title
					electrocardiogram images and data
E39	112-H62-D1	SoftEng	M	Truc Ho	A Machine Learning Approach to the Static Analysis of Malware
					Using Extracted Features
E42	112-H70-C2	T SoftEng	М	Anshul Rao & Allen Chang	Predicting the Recurrence of Breast Cancer using Machine Learning Techniques
E44	112-Н71-В1	SoftEng	М	Anthony Zhu	Predicting Areas of Increased Roadkill using a K-nearest neighbor
					Algorithm and Neural Network.
E45	112-Н72-91	SoftEng	М	Robert Walker	Comparing Runtimes Across Software Implementations of Maze Solving Algorithms
E46	112-Н80-82	T SoftEng	М	Rehaan Ahmad & Brian Yang	Forecasting Vegetation Health Maps of Sub-Saharan Africa Using an
					Innovative Long Short Term Memory Based Algorithm
E52	112-Н91-31	SoftEng	М	Rushil Saha	A Novel Approach to Image Registration with Fourier Transforms for
					Improved Accuracy and Efficiency
E57	113-310-E1	AnimalSci	М	Brendan Lin	Effects of MAPK Inhibitors/Stimulators on Planarian Regeneration
E59	113-411-41	BiocheMic	М	Aditya Behal	Novel Drug Development To Inhibit Nipah Virus Glycoprotein G
					Binding to Human Ephrin-B2 and Ephrin-B3 Receptors
D50	113-521-91	BioInfo	М	Jessie Wang	Using Single Cell Analysis to Identify Drug Resistance Mechanisms
					in Mixed Lineage Leukemia
D44	113-550-G1	BioInfo	М	Rohit Tanikella	Diagnosing Mental Disorders in 9-10 year olds using MRI scans and Deep Learning
D43	113-551-E1	BioInfo	М	Neil Kapoor	Effects of tumor suppressor gene alterations on lung
					adenocarcinoma using Tuba-seq pipeline
D39	113-570-81	BioInfo		Richard Hu	Using Voice Recognition Technology to Translate the Speech of the Vocally Impaired
D37	113-580-41	BioInfo		George Weale	How does the human microbiome impact immune cells?
D34	113-591-F1	BioInfo		Rushil Srivastava	Standardizing and Optimizing Skin Allergy Testing using Computer Vision
D27	113-710-G1	BiomedEng	M	Daniel Portillo	Make prosthetic bird beak better: improving the geometric design and
					looking for the right material
D26	114-A10-A1	Chemistry		Dean Tran	3D Printing of Silica Embedded Chitosan Aerogels for Supercapacitors
D21	114-A60-71	Chemistry	M	Aryan Goyal	An Automated Tool to Determine the Stability of CH4 and CO2 Clathrates
					using Molecular Dynamics and MLP Neural Networks
D18	114-B10-21			Daniel Kim	Characterizing Triple-Junction Silicon Solar Cells For Solar Fuel Production
D11	114-D40-81	PhysAstr	M	Bryan Wang	Studying Metals in the Circumgalactic Medium by Post-Processing
					Cosmological Galaxy Simulations
C10	114-H10-51	SoftEng	M	Sahil Jain	Binary Classification for Entity Linking Disambiguation with TFIDF
					Vectorization and SVM Linear Models
C11	114-H20-11	SoftEng	M	Gautham Raghupathi	Tracking Clathrin-Mediated Endocytosis in Stem Cells via
					Segmentation with Deep 4D Convolutional Neural Networks
C12	114-H30-E1	SoftEng	M	Patrick Yu	LEASGD: an Efficient and Privacy-Preserving Decentralized
-					Algorithm for Distributed Learning
C17	121-250-61	PlantSci	M	Alexander Noriega	The Absorption and Relative Efficiency of Antifungal Properties of
					Allium sativum Powder With Phaseolus vulgaris.
C22	121-350-F1	AnimalSci		Joshua De Leon	Effects on New Hosts for Symbiotic Mites
C23	121-410-61	BiocheMic	M	Zeeshaan Chunawala	Magnetization of Incorporated Iron Oxide Nanoparticles as a Method
					for Combatting Candida albicans Biofilm Growth
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Loc. Proj. Num. Tea	am Field G	end	er Students	Title
C28 121-420-21	BiocheMic	М	Greg Santangeli	Effect of Dissolved Urea on the Reproductive Rate and ROS
				Production of Dinoflagellates Under Thermal Stress
C29 121-430-E2	T BiocheMic	М	Prithvi Saravanan & Tylee Bao & Noah Bae	What are the effects of positive/negative probiotics on cholesterol uptake?
C49 121-610-71	MedHeaSci	М	Ryan Judy	Determining the effect of ascorbic acid on viability of drosophila
			•	melanogaster with developmental nicotine exposure
B56 121-730-81	BiomedEng	М	Shivam Singhal	A Non-Invasive Tool for Cancer Diagnosis through the Optimization
	· ·		· ·	of Cell-free RNA and DNA
В54 121-750-Н1	BiomedEng	М	Dulati Aideli	Optimizing The Coronary Stent By Designing Vibration Dampeners
	9			And A New Deployment Method
B53 121-760-D1	BiomedEng	М	Andy Carranza-Ochoa	A New Approach To Pressure Dressings For Wounds
B49 122-A40-F1	Chemistry		Payton Feldman	Antioxidant Activity of Melatonin Derivates in Alzheimer's Disease
B48 122-A50-B1	Chemistry		Viboll Thach	Comparing the Efficacy of Different Solvents in CO2 Absorption
B47 122-A60-71	Chemistry		Emilio Cantu-Cervini	Mars Likes it Hot: The Effect of Dust Storms and Temperature on the
	•			Clay Bicarbonate Reaction
B46 122-B10-21	CheEnvEng	М	Prabhat Jandhyala	Creating a rechargeable battery by manipulating equilibrium
	3		,	constants or redox reactions
B43 122-B40-71	CheEnvEng	М	Duc Tran	Bandage Made from Brassica oleracea Used to Monitor Wound pH Levels
B42 122-B50-31	CheEnvEng			Sustainable Materials from Biofilms
B39 122-B60-G1			Vishal Menon	Effect of Temperature on the Efficiency of a Fuel Cell
B33 122-D10-31	PhysAstr		Avi Patel	Using HIFLUCGS Galaxy Clusters to Examine Systematic Elemental
	,			Abundance Differences between Chandra and XMM-Newton
B23 122-D60-H1	PhysAstr	М	Philip Kabranov	Accretion Analysis through Profile Decomposition of T-Tauri Stellar
	,		·	Spectra using Non-linear Least Square Minimization
B22 122-D70-D1	PhysAstr	М	Rustam Gandhi	Using Schlieren Imaging to Determine Refractive Indices
B21 122-E10-C1	ElecEng	М	Justin Quan	Network of Checkpoints and RFID-Equipped Apparel for Campus
	Ü			Security and Nonintrusive Tracking in Schools
B14 122-F21-E2	T MechEng	М	Richard Le & Dan Tran	Open Says A Me
B10 122-F60-11	MechEng	М	Akash Vig	A Blue Light Filter Compatible With Any Mobile Device
A14 122-F90-52	T MechEng	М	Minh Phan & Dien Nguyen	Shutter-Gutter
A16 122-G10-D1	Math		Pranav Atreya	Determining Expressions for Parameter Derivatives of an object with
			•	unknown Parameterization
A18 122-H20-H2	T SoftEng	М	Govind Pimpale & Nitish Reuben & Marek Pinto	GPU Based Scalable Plant Architecture Simulation
A23 123-420-41	BiocheMic		Bennett Rosenberg	Analyzing Growth & Survivability of T. Molitor Gut Microbial
			•	Community when Carbon Source is Limited to Various PS Forms
A26 123-430-H1	BiocheMic	М	Jason Dong	Grape skin extract improves muscle function / lifespan of a
				Drosophila model of Parkinson's through mitophagy
A27 123-440-D1	BiocheMic	М	Vivek Kamarshi	Cellular Pathways for Increasing Fusion and Decreasing Replication
	- -			of Varicella Zoster Virus
A29 123-470-11	BiocheMic	М	Kiran Rachamallu	Training a New Bacterial Model for Arsenic Treatment
A31 123-520-D1	BioInfo		Keval Shah	Quantitative Analysis of Breast Cancer Detection by B7-H3 Targeted
		-		Ultrasound Molecular Imaging

Loc. Proj. Num. Te	am Field	Gender Stude	nts Title
A33 123-540-51	BioInfo	M Charles Huang	Characterization of NADPH Binding Patterns for the Rational Design
			of a Photoactivatable NADPH Analog
A34 123-550-11	BioInfo	M Tarun Amarnath	Creating a Pipeline to Evaluate the Effects of anti-miRNA
			Oligonucleotides on Pancreatic Cancer Cells
X25 124-D10-51	PhysAstr	M Tamur Asar	Calculating The Dynamic Range Resolution of Transition Edge
			Sensors Down to One Electron Volt to Investigate Dark Matter
X22 124-D30-E1	PhysAstr	M Cameron Jones	Automated Identification of Organic Molecular Structure and Relative
			Concentrations from Telescopic IR Spectral Data
X15 124-E10-D2	T ElecEng	M Kavish Trivedi & Phillip C	Chau Deposition and Characterization of Ultra Thin Zinc Oxide Films
X13 124-G10-F1	Math	M Stanley Wang	Connectedness of the Moduli Space of Genus 1 Planar Tropical Curves
X12 124-G20-B1	Math	M Shiva Balachander	Analysis of Long Short-Term Memory Neural Network Structures on
			the Accuracy of Stock Price Predictions
X11 124-H10-71	SoftEng	M Ashwin Reddy	Can Demonstrations with Reverse-Curriculum Generation Reduce
		*	Robot Path-Planning Time?