Synopsys Championship 2016

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Part	Loc. Proj. Num. Team Field Gender Students	Title
Does playing Crossy Road affect the ability of 6th grade students to remember simple words? P56 611-150-H2 T BehavSci F Brianna Chavez & Maria Rojas Buatista Does Gender Affect Color Preference		Matching speaking voices to the photos of the people who possess them.
remember simple words? P55 061-150-H2 T BehavSci F Brianna Chavez & Maria Rojas Buatista Does Gender Affect Color Preference Color To Vision Rep\$ 061-160-21 BehavSci F Mattie Schoepe P5 061-170-92 T BehavSci F Daniela Zamoria & Yasmin Jlmenez Rep Calm And Chew Gum P56 061-230-H2 T Pish F Paniela Zamoria & Yasmin Jlmenez P56 061-230-H2 T Pish F Pis	P53 061-130-82 T BehavSci F Stephanie Popp & Gabby Farber	How do different types of music affect students' ability to type accurately and quickly
BehavSci F Mattie Schoepe Color To Vision	P55 061-140-42 T BehavSci F Rachelle Lang & Talia Litvin	
F5 p61-210-91 PlantSci F Daniela Zamora & Yasmin Jimenez Keep Calm And Chew Gum P61-210-91 PlantSci F Nithika Karthikeyan The Effect of Water Beads on Crop Yield of Bok Choy P64-661-230-412 T PlantSci F Sienna Stutzman & Mia Flores Fish, Fish, Everywhere: The Effects Of Aquaponics On Fish P66-61-230-412 T PlantSci F Annita Satapathy Agriculture that can solve global warming and food scarcity. P70-61-251-72 T PlantSci F Annita Satapathy Agriculture that can solve global warming and food scarcity. P70-72 T PlantSci F Yana Puri & Ayesha Ashraf From Trash to Gas: It's Blomass P70-73 061-261-31 T PlantSci F Yana Puri & Ayesha Ashraf From Trash to Gas: It's Blomass P70-73 061-271-H1 PlantSci F Varia Puri & Ayesha Ashraf From Trash to Gas: It's Blomass P70-74 PlantSci F Varia Puri & Ayesha Ashraf From Trash to Gas: It's Blomass P70-74 PlantSci F Varia Puri & Ayesha Ashraf From Trash to Gas: It's Blomass P70-74 PlantSci F Varia Puri & Ayesha Ashraf From Trash to Gas: It's Blomass P70-74 PlantSci F Varia Puri & Ayesha Ashraf From Trash to Gas: It's Blomass P70-74 PlantSci F Varia Puri & Ayesha Ashraf From Trash to Gas: It's Blomass P70-74 PlantSci F Varia Puri & Ayesha Ashraf From Trash to Gas: It's Blomass P70-74 PlantSci F Varia Puri & Ayesha Ashraf From Trash to Gas: It's Blomass P70-74 P10-74 P10	P56 061-150-H2 T BehavSci F Brianna Chavez & Maria Rojas Buatista	Does Gender Affect Color Preference
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Fish Fish Esternymere: The Effects Of Aquaponics On Fish Pisp 061-250-A1 PlantSci Familia Statpathy Agriculture that can solve global warming and food scarcity.	P59 061-170-92 T BehavSci F Daniela Zamora & Yasmin JImenez	
Post	P61 061-210-91 PlantSci F Nithika Karthikeyan	The Effect of Water Beads on Crop Yield of Bok Choy
P70 061-251-72 T PlantSci	P64 061-230-H2 T PlantSci F Sienna Stutzman & Mia Flores	Fish, Fish, Everywhere: The Effects Of Aquaponics On Fish
P73 061-260-52 T PlantSci F Yana Puri & Ayesha Ashraf From Trash to Gas: It's Biomass		
P73 061-251-32 PlantSci F Christria Montanez & Ruth Cuatepotzo Do Plants Have a Reaction to Aspirin?	P70 061-251-72 T PlantSci F Kayli Fernandez & Celeste Luna	Feeding Food Scraps to Plants
P75 061-271-H1 PlantSci F Diya Iqlas Electric Plants Pr7 061-281-D1 PlantSci F Katherine Saucedo Drought Tolerant Plants Pr8 061-290-B1 PlantSci F Katherine Saucedo Drought Tolerant Plants Pr8 061-290-B1 PlantSci F Aylin Salahifar What do we do to plants when we litter?	P72 061-260-52 T PlantSci F Yana Puri & Ayesha Ashraf	From Trash to Gas: It's Biomass
P77 061-281-D1 PlantSci F Katherine Saucedo Drought Tolerant Plants	P73 061-261-32 T PlantSci F Christina Montanez & Ruth Cuatepotzo	Do Plants Have a Reaction to Aspirin?
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P79 061-310-11 AnimalSci F Clara Hansen The effect of glyphosate on Dinoflagellate growth and bioluminescence P82 061-330-92 T AnimalSci F Geneviewe McKenzie & Paloma Winter This Ain'T So Sweet!	P77 061-281-D1 PlantSci F Katherine Saucedo	
P82 061-330-92 T AnimalSci F Genevieve McKenzie & Paloma Winter This AiN'T So Sweet! P84 061-411-81 BiocheMic F Alya Samsudin The Effect of Cooking methods on Vitamin C content of vegetables N86 061-450-81 BiocheMic F Impana Chimmalagi Metabolism and Magnetism N84 061-620-71 MedHeaSci F Yuval Mazor Does your ancestry affect your fingerprint pattern? N81 062-A11-B2 T Chemistry F Roxanne Madden & Rylie Paul Bubbliest Bath Bombs-The Effect of Cornstarch on the Time it takes to Dissolve Them N79 062-A20-A1 Chemistry F Pujita Tangirala Got Antioxidants? Using Chemiluminescence to Study the Effect of Adding Milk or Sugar on the Antioxidant Level of Tea N70 062-A20-61 Chemistry F Saanvi Jain The Effects of the Quantity of Base on the Volume of Gas Generated in an Acid Base Reaction. N73 062-A30-61 Chemistry F Mahima Agrawal How does change in temperature and liquids affect the speed at which the marble drops? N69 062-A50-F1 Chemistry F Arya Rajesh The Effect of Acids On The Rate Of Corrosion N69 062-A50-B1 Chemistry F Niesea R	P78 061-290-B1 PlantSci F Aylin Salahifar	What do we do to plants when we litter?
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N66062-A60-B1ChemistryFVictoria NguyenWhich Drink Has the Most Electrolytes?N65062-A61-91ChemistryFLilian ShenIdentification test and analysis for various fibers(vegetable fibers, animal fibers and artificial fibers)N64062-A62-71ChemistryFMaia JohnssonWhat Flour Makes a Fluffier Muffin?N61062-A81-H2TChemistryFJuliana Perez & Monica Iboa-TorresForever PlaydoughN58062-A91-D2TChemistryFYaara Bar & Samantha SteinbergHow do different liquids affect the growth of sugar crystals?N57062-B10-61CheEnvEngFHira SiddiqiHeavy Metals and Aquatic Environments		The Effect Of Acids On The Rate Of Corrosion
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N64062-A62-71ChemistryFMaia JohnssonWhat Flour Makes a Fluffier Muffin?N61062-A81-H2T ChemistryFJuliana Perez & Monica Iboa-TorresForever PlaydoughN58062-A91-D2T ChemistryFYaara Bar & Samantha SteinbergHow do different liquids affect the growth of sugar crystals?N57062-B10-61CheEnvEngFHira SiddiqiHeavy Metals and Aquatic Environments	N65 062-A61-91 Chemistry F Lilian Shen	Identification test and analysis for various fibers(vegetable fibers,
N61062-A81-H2T ChemistryFJuliana Perez & Monica Iboa-TorresForever PlaydoughN58062-A91-D2T ChemistryFYaara Bar & Samantha SteinbergHow do different liquids affect the growth of sugar crystals?N57062-B10-61CheEnvEngFHira SiddiqiHeavy Metals and Aquatic Environments		animal fibers and artificial fibers)
N58 062-A91-D2 T Chemistry F Yaara Bar & Samantha Steinberg How do different liquids affect the growth of sugar crystals? N57 062-B10-61 CheEnvEng F Hira Siddiqi Heavy Metals and Aquatic Environments	/	What Flour Makes a Fluffier Muffin?
N57 062-B10-61 CheEnvEng F Hira Siddiqi Heavy Metals and Aquatic Environments	,	
N55 062-B30-E2 T CheEnvEng F Eesha Palasamudrum & Carina Huang Human powered portable generator	N57 062-B10-61 CheEnvEng F Hira Siddiqi	Heavy Metals and Aquatic Environments
	N55 062-B30-E2 T CheEnvEng F Eesha Palasamudrum & Carina Huang	Human powered portable generator

Loc. Proj. Num. Team Field			Title
		Faye Neighbors	Solar Powered Water Desalination
		Christine Yang	It's Raining, It's Pouring, Acid!
N50 062-C20-B1 EarEnvS	ci F	Divya Sundar	The Effect of the Type of Material the Dew Trap Is Made of on the
			Amount of Water the Dew Trap Collects
M51 062-C30-71 EarEnvS	ci F	Priyanka Patel	What is the effect of the amount of carbon dioxide on the temperature
			in the atmosphere?
		Shinjan Ghosh	Toil for the Oil
M53 062-C40-31 EarEnvS		Sumaiyah Alamgir	Water Retention Capability of Soil
M54 062-C41-11 EarEnvS		Bhavjot Dhillon	Which material is the best to clean up oil spills in the ocean?
M55 062-C50-G1 EarEnvS		Alexandra Wong	Melting rate of ice
M59 062-C70-72 T EarEnvS		Alex Malone & Aspen Bain	Catching the Sun's Rays
M61 062-C81-21 EarEnvS		Sara Withers	How to Block a Landslide
M65 062-D11-51 PhysAstr		Anousha Athreya	The Effect of Organic Dye on Dye-sensitized Solar Cell Efficiency
M67 062-D20-31 PhysAstr		Anokhi Shah	Effects of Centripetal force on the movement of an object
M69 062-D22-G1 PhysAstr	· F	Isabella Hilton	What is the Effect of Weight on Gravitational Forces in Different
			Roller Coaster Elements?
M71 062-D30-F2 T PhysAstr		Jolee Aguilera & Isela Aguayo	Front Tuck 101
M72 062-D31-E1 PhysAstr	· F	Camilla Lindh	How many times higher can a 3.540 kg dumbbell be dropped on
			pykrete versus ice without breaking the subject?
M76 062-D42-81 PhysAstr		Xenia Torres	How Does the Type of Propeller Affect the Amount of Electricity Generated?
M77 062-D50-72 T PhysAstr		Elena Kennedy & Kate Behan	Liquid Viscosity vs. Splatter Diameter
M78 062-D51-61 PhysAstr		Cady Chen	What is the effect of viscosity on the strength of concrete?
M79 062-D52-41 PhysAstr		Mary Shen	How to Build A Musical Instrument Using Household Objects.
M80 062-D60-41 PhysAstr		Sahar Lalehparvar	How does temperature affect the bounciness of a ball?
M81 062-D61-21 PhysAstr	· F	Tavleen Kaur	Does the Surface Tension of Water Change When You Mix Different
			Substances in It?
м82 062-D62-H1 PhysAstr	· F	Shweta Arun	How does having a tunnel affect the determination of the speed of a
			(hypothetical) car based on pitch?
M86 062-D80-D1 PhysAstr		Nethra Srinivasan	Orbital Mechanics: Effects of Speed and Gravity on a Satellite's Orbit
L86 062-D90-91 PhysAstr		Allyson Chiu	Gaining Ultimate Power from the Right String Tension
L85 062-D91-71 PhysAstr		Anika Khandavalli	Heat Wave vs. Captain Cold: Insulation Resolves It All!
L84 062-D92-51 PhysAstr		, ,	Which surface makes a bigger crater?
L79 062-E31-61 ElecEng		Anisha Narurkar	The effect of dirt on the efficiency of Solar Panels
L78 062-E40-41 ElecEng		Ushoshi Basumallick	Optimizing Wireless Signal Strength for a (multilevel) Townhouse
L75 062-E50-H1 ElecEng		Simran Pravin	The Shocking Truth
L74 062-E60-D1 ElecEng		Iris Zhou	Soil Moisture Level Detector
L71 062-E80-42 T ElecEng		Lea Amram & Shelli Lewis	Scent Alarm Clock
L69 062-F10-81 MechEng		Joy Barsoum	Controlling the Temperature of a Solar Oven by Changing the Angle of the Reflector
L68 062-F11-61 MechEng		Natalie Perrochon	Loft Bed Elevator
L62 062-F41-B1 MechEng		ANNA JUN	Making The Most Earthquake Proof Structure
L61 062-F50-91 MechEng	<u>g</u> F	Mai Tien Tran	Stable Bases

Loc. Proj. Num. Te	am Field	Gend	er Students	Title
L59 062-F70-11	MechEng	F	Anna White	Stitches That Bind
L57 062-F90-A1	MechEng	F	Ipsita Jain	Impact of number of blades in wind turbine on amount of energy generated
L56 062-H10-91	SoftEng	F	Sanjana Jilla	Tempus Genie
L52 062-H40-E1	SoftEng	F	Sneha Revanur	Using Speech Recognition to Enhance Daily Life
K51 062-H80-F1	SoftEng	F	Herin Kang	IoT Weather Station
K52 062-H90-B1	SoftEng	F	Krupa Kannan	React Now or Forever Hold Your Peace
K53 071-120-F1	BehavSci	F	Sruthi Mikkilineni	Can Software Controlled Auditory Feedback- Such as Playing Music
				-Based on Brainwave Activity Address Insomnia?
K55 071-130-A2	T BehavSci		Christy Vu & Kristine Mondano & Michelle Ocegueda	Your Road To Recovery, Aids In Anxiety
K56 071-140-71	BehavSci	F	Jenna Houle	Techniques to help kids improve their memory, lower anxiety, and
				improve their attitude about school
K57 071-150-22		F	Sarah Kaufman & Viviann Luong	I Smile, You Smile.
K59 071-211-91	PlantSci		Mallika Hegde	Effect of Nitrogen-fixing Bacteria vs. Nitrogen Fertilizer on Clover Plants
K61 071-220-62			Jordan Allard & Isabella Bernhard	What is the effect of the amount of water your lawn gets on how green it stays?
K63 071-230-31	PlantSci		Ayah Ramahi	Do dark green veggies have a larger amount of vitamin c than light green veggies
K64 071-231-11	PlantSci		Elena Williams	Impact of Watering Depth on Root Development
K66 071-241-E1	PlantSci		Neeraja Sripada	Effects of acidity on the growth of new roots in plants
K67 071-250-C1	PlantSci		Tejal Patel	Botany Battle: Hydroponics vs Soil
K68 071-251-A1	PlantSci		Srinidhi Bala	Effect of soil nutrients on plant growth
K71 071-261-61	PlantSci		Japji Singh	Grow Algae, Save the Planet
K74 071-280-H1	PlantSci		Sarah Vogel	Fermentation Creation
K75 071-281-F1	PlantSci		Jaclyn Mar	What is the effect of Greywater on the Begonia's height?
K76 071-290-D1	PlantSci		Sriya Sridhar	Organic Fertilizers Tested On Plants
K77 071-291-B1	PlantSci		Anushka Wagle	Hydroponics vs. Soil Growth
K78 071-310-31	AnimalSci		Khushi Parikh	The Effect of the Timing of Light Exposure on the Circadian Cycles of Dinoflagellates
K79 071-330-C1	AnimalSci		Carolyn Nguyen	Are "Green" Dishwasher Detergents Really Eco-Friendly to Earthworms???
K80 071-411-A1	BiocheMic		Louiegail Nazareno	The Effects of Different Types of Soaps on DNA Extraction
K81 071-422-41	BiocheMic		Chloe Li	The Effect of Cooking on the Level of Vitamin C in Vegetables
K82 071-430-41	BiocheMic		Vaish Sankaran	The Effect of Different Cleaning Methods of Toothbrushes on Bacterial Count
K83 071-431-21	BiocheMic	F	Anokhi Shah	Investigating the Impacts of Ocean Acidification on Bloom-Forming
				Dinoflagellate Species
K84 071-432-H1	BiocheMic		Liah Nudell	Antacid Relief on Heartburn
K85 071-450-D1	BiocheMic		Rania Awad	The Effect of Vitamin E on Yeast Growth
K86 071-451-B1	BiocheMic		Shirlene John	Your Cell Phone and Mold- Does Cell Phone Radiation Affect Mold Growth?
K87 071-460-91	BiocheMic	F	Aditi Bharti	Saliva the Samurai-The Effect of Human Saliva on Bacterial/Fungal
				Skin Diseases-An Effective/Eco-Friendly Alternative!
J87 071-461-71	BiocheMic	F	Varsha Rammohan	Mighty Mitosis: The Effect of Natural vs. Synthetic Fertilizers on the
				Rates of Mitosis in Garlic and Onion
J86 071-470-51	BiocheMic		Allison Rabbani	Cleanliness of a Barbecue grill
J81 071-610-D1	MedHeaS			Is the rainbow on the wall an afterimage?
J78 071-631-22	T MedHeaS	ci F	Katelyn Wong & Minhthi Nguyen	Vast Blobs of Gluten

Loc. Proj. Num. Team Fie	ld Geno	der Students	Title
		Eman Akilah	Burning Calories
J75 071-651-C1 MedH	eaSci F	Malak Ashmawi	Got Gluten
J74 071-660-A1 MedH	eaSci F	Kanchan Krishna	What is the effect of different oils and lotions on dry skin?
J73 071-670-52 T MedH	eaSci F	Rotem Bar & Arielle Bertman	How do different types of nail polish affect nail growth?
J72 071-680-21 MedH	eaSci F	Alekhya Vadlakonda	Asthma treatment revisited- preventing oxidative stress with green tea
J71 071-690-F1 MedH	eaSci F	Lia Escober	Better,Faster,Stronger: Comparing Dissolve Rates of Tablet and Gel Pills
J68 071-730-E1 Biome	dEng F	Anahita Srinivasan	Using Nanotechnology to Kill Leukemia Cells
J64 072-A20-C1 Chem	stry F	Zahra Aziz	The Effects of High and Low pH Levels and Sodium Citrate on
			Spherification for Human Health
J62 072-A30-81 Chem	stry F	Aditi Hariharan	The Effect of Gelatin on the Stickiness of Glue.
J59 072-A41-12 T Chem	stry F	Lekhana Vankayala & Samhitha Hebbale	What commonly used combinations of natural substances can
			remove tan faster, over a period of time?
J58 072-A42-H1 Chem	stry F	Jillian Silva	Viscosity Vs. Shape
J57 072-A50-H1 Chem	stry F	Amana Kaddoura	The Effect of Gaseous Beverages on the Stomach
J56 072-A51-F1 Chem	stry F	Janani Sriram	Case-in Point?: Making Casein Plastic
J54 072-A70-91 Chem	stry F	Cailin Le	What method of cooking retains the most vitamin C in broccoli?
J53 072-A71-71 Chem		Emily Meng	Is the Glucose Content on Food Labels from Asian Countries Accurate?
J51 072-A81-22 T Chem	stry F	Sarah Winter & Leila Busch	What effect does dusting and fuming fingerprints have on the quality
			of the fingerprint?
н50 072-A91-G1 Chem	stry F	Shruthi Sriram	Effect of different ratios of fructose to glucose on the rate of aerobic
			respiration of yeast
н52 072-в30-g2 T CheEr	nvEng F	Sahana Rajmohan & Anika Bhatia & Sruthi Ramesh Kumar	SAS Self Watering System
н54 072-в40-с2 T CheEr	nvEng F	Ananya Sekharan & Kirthana Jeyasankarane	Effects of Storage on Water Quality
н55 072-C11-F1 EarEn	vSci F	Yumna Battisha	Shower Head Water Conservation
н56 072-C21-B1 EarEn		Kavya Khare	How Different Surfaces Influence The Urban Heat Island Effect
н57 072-C30-91 EarEn		Zainah Masood	Factors effecting oil spill clean up using Nanotechnology
н58 072-C40-51 EarEn		Nandita Jayanthi	The Effects of Various Compounds on the Filtration of Water
н62 072-C70-A1 EarEn	vSci F	Shachi Prasad	What is the effect of global warming (temperature and salinity) on the
			brine shrimp population?
н63 072-C80-61 EarEn	vSci F	Sophia Cha	Drought Buster: Kaolin Soil Amendments and Irriguous Earth
н66 072-D12-51 Phys A	str F	Angela Tsang	Supercooling Water: What is the effect of adding condiments and/or
			water to cooler ice on the rate water supercools?
н70 072-D30-11 PhysA		Masha Korolik	Solar Energy Concentrator Integrated into Windows: Smart Solar Energy Conversion
н76 072-D51-72 T PhysA	str F	Amanda Nguyen & Amy Li & Preeti Rajarathinam	Frisbee Frenzy
н77 072-D60-61 PhysA		Claire Luo	The Effect of a Toilet's Pipe Structure on the Flush
н81 072-D80-F1 PhysA	str F	Kate Jackson	Constructing Science: Comparing the Strength of Wooden Joints
			Made with Nails Screws and/or Glue
н86 072-E13-B2 T ElecE		Bhaswati Das Gupta & Fnu Subrahmanyam & Tanvi Siddhaye	Water Leak Detectors
G83 072-E30-A1 ElecE		Harbani Jaggi	How Smart is your Smart Phone Case?
G80 072-E40-61 ElecE	ng F	Ashwini Suriyaprakash	Intruder Alert!
G78 072-E42-21 ElecE	ng F	Mary Hemker	How Steady are Your Hands?

Loc. Proj. Num. Team	n Field (Gend		Title
G74 072-E60-F1	ElecEng	F	Manasa Bhimaraju	Interactive tool to explore EM Spectrum, including a wearable RFID
				based expiration dates detector for visually impaired
G71 072-E70-B1	ElecEng	F	Anjali Singh	IoT Device System for Tracking Hand Motions Of Senior Citizens in Morse Code
G69 072-E72-71	ElecEng	F	Claire Tang	Measuring Wi-Fi Signal Strength
G67 072-E82-31	ElecEng	F	Supriya Lall	Intelligent Gas Sensor
G64 072-F10-A1	MechEng	F	Nishita Belur	Detecting Metal Surface Defects Using Laser Light Reflection
G59 072-F31-H1	MechEng	F	Angelina Lue	How do heat sinks affect the amount of water condensing on a surface
G56 072-F51-82 T	MechEng	F	Diana Labonville & Gisele Inaba	We All Live in a Clear Submarine
G55 072-F60-71	MechEng		Isabella McLarney	Mag-lev Elevator
	MechEng		Jasleen Goraya	Water Down the Drain
G53 072-F71-11	MechEng		Caroline Bae	Remote Control Lighting
	MechEng		Melina Kritikopoulos	Suck It Up!
	MechEng		Caitlin Gorin	Which type of 3D Printed Plastic is the "Strongest"?
	Math		Malini Nair	A mathematical computation to build a robotic beetle
	SoftEng		Deepa Mahesh	Analyzing Images to Help with Obstacle Avoidance for the Blind
	BehavSci		Emma Le	An Investigation of Adult's Responses to Frustration
	BehavSci		Kanika Khemka	The Effect of the Presence of Music on Comprehension and Probelm Solving
	BehavSci		Rithika Vatturi	Is it possible to boost brain performance prior to a mental activity?
	BehavSci		Ioana Ana	Th Effect of Light Intensity on Peripheral Vision
	BehavSci		Emily Pember	Can People Taste The Difference Between Bottled, Filtered, and Tap Water?
	BehavSci		Sriya Prathuri	The Effect of Extracurriculars/Hobbies/Interests on Memory and Learning
	BehavSci		Jovanna Felix	Differences in Comprehension between Reading from an iPad vs. Printed Material
F70 081-150-42 T	BehavSci	F	Allison Jia & Jasmine Wiese	Delicious or Disgusting?: The Effects of Priming On A Taster's
				Reaction and Perception Of Food
	BehavSci		Camille Phares	The Correlation between Age and Types of Intelligence
	BehavSci		Grace Huang	The Effects of Music on Efficiency
	BehavSci		Sejal Krishnan & Vibha Arramreddy	Affects of Emotions on Test Takers
F80 081-211-A2 T	PlantSci	F	Arthi Vaidyanathan & Isabella Borkovic & Natalie Huang	The Effect of Electromagnetic Radiation on the Growth of Plants and
				E. col K12 Bacteria
F82 081-230-42 T	PlantSci	F	Larissa Tyagi & Anu Selvaraj	Biological analysis of organic vs. conventional fruit: effects on animal
				physiology, perishability, and perceived taste.
	PlantSci		Cynthia Chen	A Novel Method for Reducing Water Consumption in Germinating Seeds
	PlantSci	F	Margaret "Maggie" Bazurto	Aquaponics: The Next Generation of Farming
F86 081-260-92 T			Eileen Li & Catherine Zhao	Testing the Most Favorable Conditions For Plants In Hydroponic Systems
	PlantSci		Courtney Spisak & Alyssa Bruno	Freaky Fertlizers
	PlantSci		Ishanee Mitra	A simple way to reduce agricultural Nitrous Oxide emissions into the atmosphere.
	PlantSci		Sriya Jonnakuti	How high can you go? : The effect of auxin on plant growth
	AnimalSci		Kami Richardson	Broken Chain: The Effect of Ocean Acidification on Echinoids and Bivalves
	BiocheMic		Purnima Venkat	Do water pollutants inhibit stem cell mediated regeneration?
	BiocheMic		Natalie Orup	The 5 Second Rule
E75 081-432-21	BiocheMic	F	Antonia Quake	Statistical Properties of Microbial Genomes

Loc. Proj. Num. Team Field Gender Students	Title
E74 081-440-21 BiocheMic F Shresthi Viswanath	The effect of deodorant (gel, solid, and spray) on the amount of
	bacterial growth (common e.coli).
E73 081-442-F1 BiocheMic F Jessica Douglas	Bioluminescence Alternative
E67 081-461-91 BiocheMic F Taqwa Tofaha	Effect of pollutants on the survival rate of daphnia
E65 081-471-51 BiocheMic F Nikita Bilaskar	The effect of radiation on bacterial growth
E62 081-481-11 BiocheMic F Angele Yang	Testing Possible Carcinogens in Microwave Popcorn Using the Ames Test
E61 081-491-E1 BiocheMic F Shloka Janapaty	Repurposing Industrial Wastewater to enhance Algae growth
E60 081-610-F1 MedHeaSci F Divya Nair	The Effect of Types of Cooking on the Nutritional Value of Food.
E59 081-611-C2 T MedHeaSci F Aarzu Gupta & Maya Shukla	A Test of the Potential Mutagenic and Carcinogenic Properties of
· · ·	Nicotine Free E-Cigarette Additives
E58 081-620-B1 MedHeaSci F Gurmehr Klair	The Effect of Screen Usage before Bedtime on Sleep Efficiency
E57 081-621-91 MedHeaSci F Ananya Vadlakonda	The Effect of the Presence of Curcumin, Tyrosine, or MSG on
	Dopamine Stability: Implications for a Treatment for ADHD
E56 081-630-71 MedHeaSci F Bridget Berry	Cleaning our Most Precious Commodity; which method of
	decontamination works best in cleaning creek water
E52 081-650-F2 T MedHeaSci F Jackie Yang & Rachel Broweleit	The Effects of Carcinogenic Compounds from E-Cigarette Vapors on
· ·	the Health of Fruit Flies
D50 081-670-72 T MedHeaSci F Rashmi lyer & Lauren Fu	Listening Devices, Music Genres, and Hearing Damage
D51 081-690-G2 T MedHeaSci F Annie Ma & Amanda Cheung	Unveiling Red 40's Mutagenic and Carcinogenic Potential
D52 081-710-71 BiomedEng F Fionnuala LaTourrette	Which Cup Works Best To Prevent Hand Tremours?
D56 081-740-C1 BiomedEng F Anusha Ghosh	A Device to Detect Diabetic Retinopathy
D57 081-750-81 BiomedEng F Aryia Dattamajumdar	Hide 'n Seek: A smart home device to determine food salt content
D59 081-770-H1 BiomedEng F Tanshi Jain	Sweet Breath
D60 081-780-D1 BiomedEng F Shreya Sinha	Consumer Grade Brain State Analyzer
D62 082-A11-G1 Chemistry F Emily Munoz	Water Repellent Superhydrophobic Surfaces
D63 082-A20-E1 Chemistry F Krithika Satish	The effect of temperature on the saturated fat content of different types of cooking oils
D64 082-A30-A1 Chemistry F Cassandra Garate	Fizzy Bombs
D66 082-A40-61 Chemistry F Shannon Miranda	An Environmentally Effective Windshield Washer Solution
D67 082-A41-41 Chemistry F Elaine Chu	The Effect of Humidity and Pressure on Hot Ice Hand Warmers
D68 082-A50-21 Chemistry F Tasnim Saada	C6H12O6 Dextrose and Ascorbic Acid C6H8O6
D70 082-A60-F1 Chemistry F Maram Saada	Caffeina
D71 082-A70-B1 Chemistry F Sarah Young	How electricity affects the level of pH
D72 082-A80-71 Chemistry F Nina Isaka	Cleaning Your Kitchen Organically
D74 082-B11-81 CheEnvEng F Isabel Sperandio	The Effect of an Infrared and Ultraviolet Cut Filter on a Photovoltaic Cell
D75 082-B20-61 CheEnvEng F Saniya Patel	Water Purification
D77 082-B30-21 CheEnvEng F Shriya Jain	Effects of Reflection and Absorption on a Handmade Solar Water Desalination Device
D78 082-B31-H1 CheEnvEng F Athena Fung	A Bluer Ocean: Replacing Microplastics with Water-Soluble Bioplastics
D80 082-B41-C2 T CheEnvEng F Annabelle Ju & Kathy Fang & Gina Partridge	Fabrication of Efficacious Bio-Plastic Beverage Cups
D81 082-B50-A2 T CheEnvEng F Carolyn Lu & Vani Mohindra	Optimizing Biofuel Production Through the Employment of Differing
,	Bacterial Fungal Combinations
D83 082-B61-42 T CheEnvEng F Mayrene Huynh & Michelle Dao	Soil Saturation Detector

Loc. Proj. Num. Tea	ım Field G	end	er Students	Title
D84 082-B70-22 T	CheEnvEng	F	Simran Bhatia & Nandini Bangalore	How do commonly polluting chemicals affect Elodea, a freshwater
				plant, and the Shaving Brush, a seawater plant?
C87 082-C20-F1	EarEnvSci	F	Shreya Mani	Biofiltration Capabilities of the Water Hyacinth and the Fairy Moss Plants
C86 082-C21-D1	EarEnvSci	F	Shreya Srivastava	The effect of Different Watering Methods on Plant Growth
C85 082-C30-A2 T	FarEnvSci	F	Grace Hajjar & Jin Tuan	Effect of Climate Change on Dinoflagellates
C83 082-C40-62 T	FarEnvSci	F	Amla Rashingkar & Gloria Zhang	How Shady is the Shade Ball?
C82 082-C41-51	EarEnvSci	F	Vedha Santhosh	The Effect of Using Bioplastics as a Food Packaging and Storage
				Alternative Instead of a Petroleum Based Packaging
C81 082-C50-31	EarEnvSci	F	Ashley Yeh	Could nanotechnology increase the efficiency of removing oil from
				water in an oil spill?
C80 082-C51-11	EarEnvSci	F	Melanie Vargas-Ledesma	Sensored Shower
C78 082-C80-81	EarEnvSci		Priti Rangnekar	Ocean Acidification: the Chicken Little of the Sea for Clams?
C74 082-D11-91	PhysAstr	F	Allison Brand	Surface Tension Pepper Circles
C67 082-D60-81	PhysAstr	F	Niki Zeraati	The Effects of Angle of Impact on Liquid Spatter Patterns
C63 082-D90-D1	PhysAstr	F	Shannon Lin	How does the Type of Solution affect the Index of Refraction?
C62 082-E10-31	ElecEng		Shruti Sridhar	A Novel Sensor-Based Device to Detect Heatstroke and Dehydration
C61 082-E11-11	ElecEng		Simrithaa Karunakaran	Drowning Alert System IoT
C55 082-E41-61	ElecEng	F	Siya Sharma	Design and Development of an Electronic Device for Battery Regeneration in
				Communication Devices for Emergency Purposes
C53 082-E51-21	ElecEng	F	Michelle Parsons	The effect of elf electric fields on voltages induced into the body
B53 082-E80-82 T	「 ElecEng	F	Niki Ebrahimnejad & Shana Ebrahimnejad	Applying Wireless Technology to Monitor Plant Watering Systems:
				Create, Smart, Save
B54 082-E81-62 T			Anjali Mathi & Kalie Ching	Motion-Powered Safety Light
B61 082-F21-52 T			Jamie Florence Dy & Kylie Chang	Touchscreen Geometry Compass
B65 082-F40-G2 T			Elena Kong & Anna Phan & Jenny Pham	The Giving Machine
B66 082-F41-F1	MechEng		Talia Vaillancourt	Skyward Glow
B70 082-F51-A2 T			Sabrina Nielsen & Emma Bascomb & Emily Lai	Engineering Individual Self-Watering Pots
B71 082-F61-62 T			Emma Mustovic & Emily Uranga	Travel Power
B73 082-F71-31	MechEng	F	Manasa Malavathula	A Wearable Device for Rheumatoid Arthritis to increase Grip Strength
				and Hand Dexterity
B74 082-F80-11	MechEng		Kylee Nielsen	Automated Softball Tee Loader
B76 082-G10-41	Math		Anika Srivastava	Using Math and Physics to Improve Aim in Basketball Throws
B77 082-G20-H1	Math		Ananya Jeyappragash	Using Origami to Efficiently Fold Solar Panels on Spacecraft
B80 082-H11-B1	SoftEng		Swati Goel	The Optimal Scheduling Algorithm
B85 082-H30-51	SoftEng		Adishree Ghatare	A Learning Platform for Increasing Memory Retention of Definitions of Words
A86 082-H41-G1	SoftEng	F	Rashi Ranjan	Alleviating Food Waste Using Real-time Data Collection and Analysis
				Through Raspberry Pi and a USB Scale
A82 082-H52-A1	SoftEng		Letitia Aloysius	Sign Language Alphabets using Augmented Reality
A72 082-H90-F1	SoftEng		Emily Zhou	The Use of Mental Hash to Improve Password Security
P10 091-111-32 T	BehavSci		Samiksha Patil & Priya Ram	What is the effect of switching the order of math problems on your test performance?
P14 091-150-71	BehavSci	F	Heather Migdal	The effect of externally regulated extrinsic motivation on academic performance

P16 091-170-G1 BehavSci F Nisha Shankar P18 091-190-81 BehavSci F Tanvi Narvekar P19 091-220-B1 PlantSci F Harshita Mattapalli P21 091-230-62 T PlantSci F Karen Nakamura & Emily Lo	Risk Perception and Health Behaviors Among Teens with a Family History of Diabetes and Coronary Artery Disease Music and The Brain: How Different Genres of Music Affect Typing Output Can Plants Grow In a Martian Environment?
P19 091-220-B1 PlantSci F Harshita Mattapalli	Music and The Brain: How Different Genres of Music Affect Typing Output Can Plants Grow In a Martian Environment?
P19 091-220-B1 PlantSci F Harshita Mattapalli	Can Plants Grow In a Martian Environment?
· · · · · · · · · · · · · · · · · · ·	
P21 091-230-62 T PlantSci F Karen Nakamura & Emily Lo	The Effect of Agricia and Jeograpia said on Chan Dean Dianta When
	The Effect of Aspirin and Jasmonic acid on Snap Bean Plants When
	Faced with Environmental Stress.
P23 091-250-G1 PlantSci F Shannon Ding	The effect of UV light wavelength on rgb pigments of Brassica juncea
P24 091-260-B2 T PlantSci F Rebecca Chu & Ravleen Sohi	Plants vs Allelopathy
P27 091-320-31 AnimalSci F Hira Ali	The Effects of Toxins on Daphnia: E-Cigarettes vs. Traditional Cigarettes
P29 091-350-81 AnimalSci F Reha Shah	Can organisms be habituated to epinephrine, rendering epinephrine
	less effective over time?
P31 091-380-D1 AnimalSci F Sanjana Borle	Pool Disinfectants and Our Respiratory Health: The Safety of
	Sodium-Hypochlorite, -Bromate, and Potassium Iodide
P32 091-411-E1 BiocheMic F Anusha Fatehpuria	The Effect of Exposure to the Pyrethroid Pesticide Deltamethrin on
·	the Activity of Dopaminergic Neurons
P33 091-420-C1 BiocheMic F Ananya Saxena	The Effect of Melaleuca Alternifolia Oil on Bacterial Growth in Cosmetic Foundation
P35 091-430-81 BiocheMic F Kamya Krishnan	The effect of sucralose on the growth of gut microbiota
P40 091-460-D1 BiocheMic F Alexandria Sochocki	Quality of the Surface Water in the Almaden Valley
P41 091-470-91 BiocheMic F Vennela Chukka	The Effect of Flavonoids on β Amyloid Plaque Formation in C.
	elegans for Neurodegenerative Disease, Alzheimers.
P42 091-480-51 BiocheMic F Danielle Jung	Effect of Caffeine Concentration on Amyloid-Beta Levels in Caenorhabditis Elegans
P43 091-490-11 BiocheMic F Ysabel Li	Effect of Dangerous Chemicals on Vibrio fischeri
P45 091-530-H1 BioInfo F Suchita Joshi	Is there any genetic similarity between neurodegenerative disorders
	and neuropsychiatric disorders?
P46 091-540-D1 BioInfo F Shirley Qi	Agent-based Program for Bee Pollination
P47 091-550-91 BioInfo F Katherine Tian	Identifying conserved binding sites on the influenza virus for potential
	broadly neutralizing antibodies (bNAbs)
N47 091-560-51 BioInfo F Prerita Pandya	Study of over-expressed Genes type and Lung cancer
N44 091-620-D1 MedHeaSci F Rujuta Sathe	Diagnosing neurodegenerative diseases: Using Levamisole
	(hydrochloride) to test for neurodegeneration in C.elegans.
N42 091-640-51 MedHeaSci F Jessica Li	Antioxidants and Parkinson's Disease
N41 091-650-11 MedHeaSci F Megan Gu	Fat Growth in PPAR gamma from Dust
N38 091-720-51 BiomedEng F Aishwarya Suresh	An application using heart rate variability as a catalyst for regaining attention
N36 091-760-61 BiomedEng F Shivani Deglurkar	Modeling of Artificial Pancreas for various diabetic symtoms
N34 091-780-F1 BiomedEng F Ishani Narwankar	Heart Track
N33 092-A30-C1 Chemistry F Irene Chu	Most effective combination of Zinc Oxide and Titanium Dioxide at blocking UV
N32 092-A60-H1 Chemistry F Ananya Karthik	Investigating a Green Chemistry Approach to Water Remediation
N29 092-B50-D1 CheEnvEng F Sanjana Shah	Smart Flood Sensor: detect, analyze, and predict water accumulation
	in city's drainage system
N24 092-C20-H1 EarEnvSci F Hsin-Pei Lee	The effect of soil types on ants ability to influence rainfall infiltration
N19 092-C60-11 EarEnvSci F Laura Powers	Investigation of Desalination Waste Disposal Methods

Loc. Proj. Num. Tea	am Field G	end	er Students	Title
N18 092-C70-E1	EarEnvSci	F	Visala Tallavarjula	Methods based on Statistical Analysis To Improve Water Retention in
				Sub-surface Irrigation
M13 092-E90-71	ElecEng	F	Yusra Arub	Instructor-less Driving Lessons Using Simulated Connected Car
M24 092-H11-D1	SoftEng	F	Eesha Deepak	Using Java to Create a Program that Serves as an Information
				Tracker and Reminder Assistant
M29 092-H40-22	T SoftEng	F	Cindy Wang & Katherine Zhang	Drone Flight Path Charting with DJI Phantom 3 Professional and
				Google Maps Using Cubic Spline Interpolation
M42 093-430-A1	BiocheMic	F	Ruhi Sayana	Investigating Alloreactivity: A Flow Cytometric Analysis of CD4+ and
			•	CD8+ Thymocytes in MHC Class I Restricted Models
M43 093-510-A1	BioInfo	F	Anika Cheerla	Automated Prediction of Breast Cancer Occurrence from
				Pre-Cancerous Mammograms
M47 093-630-B1	MedHeaSci	F	Anika Sanyal	A Practical Approach To Treating and Regulating Cholesterol Levels
			•	for Patients with Chronic LDL-Cholesterol and Plaque
L47 093-640-71	MedHeaSci	F	Isha Savant	Does resolvin alter apoE in Drosophila melanogaster with Alzheimer's disease?
L46 093-650-31			Aishwarya Atmakuri	Effect of MiR34 on cell cycle regulators
L40 101-120-51	BehavSci		Rhea Modi	The Effects of Task Switching on Bilingual Students Compared to
				Monolingual Students
L36 101-150-A1	BehavSci	F	Saumya Nimmagadda	The Effect of Support and Knowledge from Coaches and Family on
	201.0100	•	- Caaniya i iiiniagaaaa	an Athlete's Return to Sport from an ACL injury
L35 101-210-11	PlantSci	F	Caitlin Huang	The Effects of Drought Stress on the Growth and Nutrient Contents
		•	Calani Fraang	of Brassica Oleracea Convar. Capitata Var. Alba
L34 101-220-E1	PlantSci	F	Daria Syskine	The Price of Predation: The Effects of Low-light Stress on the
201 101 220 21	. iaino		Dana Cyclano	Electrical Short-Term Memory of Dionaea muscipula
L30 101-250-12	T PlantSci	F	Tiffany Shou & Meena Gudapati	Determining What Parts of Skim-Milk are Successful Preventatives of
230 101 230 12	· · · · · · · · · · · · · · · · · · · ·		Tillarly Shou a Moona Saaapaa	Tobacco Mosaic Virus (TMV) in Tomato Crop
L29 101-260-F1	PlantSci	F	Isabel Jaffer	Water Stress Effect on Competing C3 and C4 Plants
L28 101-310-A1	AnimalSci		Gina Yang	Effects of tau-Fluvalinate on Mortality and Olfactory Associative
110 101 310 111	7 11 11 11 11 11 11 11	•	Sind rang	Learning and Memory of Honeybees (Apis mellifera L.)
L25 101-410-21	BiocheMic	F	Claire Zhang	Fighting Antibiotic Resistance: An Evaluation of Menthol as a Curing
110 21	Biodriowiio	•	Sidil o Zhang	Agent of Low Copy Resistance Plasmids in E.coli
L23 101-420-F1	BiocheMic	F	Sanjana Avula	The effects of cancer treatment on depletion of iron
L22 101-421-D1	BiocheMic		Jena Tran	A Natural and Affordable Contact Lens Solution Using Raw Honey
1122 101 421 DI	Diocriciviic	٠	ocha fran	And/Or Lemon Juice
L21 101-430-A2	T RiocheMic	F	Jacqueline He & Jacqueline Gao	Impact of isolated cinnamaldehyde on the longevity of c.elegans
L20 101-460-G1			Manaswini Gopalakrishnan	Gleaming Demise :The effect of silver nanoparticles on the
L20 101-400-G1	DIOCHEMIC	'	Mariaswirii Gopalakiisiiriari	ventricular contraction of invertebrate species
L19 101-470-C1	PiochoMic	_	Anastasiya Grebin	The effect of a controlled environment on fitness and cellulolytic
штэ тот-4/0-СТ	PIOCUEIMIC	Г	Aliasiasiya Glebili	efficiency on Cellulomonas flavigena?
T 1 7 1 0 1 4 0 0 4 1	Piochal //ic	_	Shrova Thiogaraian	
L17 101-490-41	DIOCHEIVIIC	Г	Shreya Thiagarajan	Synergism Between Organic Compounds and Bacteria-Derived Nisin
T14 101 F00 F1	Dialafa	_	Emily Chan	as an Alternative to Antibiotics Against Food Pathogens
L14 101-520-71	BioInfo	Г	Emily Chen	Analyzing genetic relationships and linked treatment targets of

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Loc.	Proj. Num. Te	am Field G	end	er Students	Title
					obsessive-compulsive disorder and generalized anxiety
K11	101-550-C1	BioInfo	F	Mythri Ambatipudi	Using Circadian Rhythm Gene SNPs, Sleep-Wake Phenotypes and MRI
					Morphometrics to Diagnose Cognitive Impairment Diseases
K14	101-570-41	BioInfo	F	Nikhita Shanker	Predicting the Oral Toxicity of a Molecule Using a Decision Tree Approach
K15	101-580-Н1	BioInfo	F	Catherine Huang	Identification of gene signature profiles of HPV induced oncogenesis
				•	through analysis of gene expression data
K17	101-610-31	MedHeaSci	F	Priyanka Reddy	Are Your Dietary Supplements Safe? A Study on the Effects of
				·	Dietary Supplements on Dugesia dorotocephala
K18	101-620-G1	MedHeaSci	F	Aparna Manoj	The Effect of Capsaicin on the Reduction of Oxidized Low-Density
				•	Lipoproteins in Atherosclerotic Plaque
K19	101-630-C1	MedHeaSci	F	Serena Yoo	Effect of Jasmonates on the Speed of Cell Differentiation through the
					Maturation Rate of Drosophila
K21	101-650-32	T MedHeaSci	F	Aditi Gnanasekar & Sydney Ty	A Study of Precocious Puberty Resulting from Obesity on the
					Likelihood of Suffering from Dysthymia and Using Ketoconazol
K22	101-660-Н1	MedHeaSci	F	Jagruti Kolla	The Effects of Tumeric and Withania Somnifera on a C.elegans Alzheimer's Model
К33	102-B20-B1	CheEnvEng	F	Estelle Yoo	Comparison of aqueous ammonia pretreatment to untreated biomass of
		_			macroalgae Ulva Lactuca regarding bioethanol producti
K36	102-B80-41	CheEnvEng	F	Aratrika Ghatak	A Low-Cost Solution to fight California's Drought: Controlling Water
		_			Usage with Mobile Applications and IOT technology
K43	102-C50-81	EarEnvSci	F	Saba Sharfuddin	The Effect of Escherichia coli and Micrococcus luteus on Polyvinyl Chloride
J47	102-D30-72	T PhysAstr	F	Thi Nguyen & Trinity Pham	Factors Affecting Magnetic Coil Field Strength
J46	102-D40-41	PhysAstr	F	Labanya Mukhopadhyay	Study of Micro-robotic Motions in Low Reynolds Number Liquids
J44	102-D60-D1	PhysAstr	F	Shannon Du	Pendulum - Effects on Gravity and Positions of the Moon.
J41	102-E10-81	ElecEng	F	Ruchika Saswade	Medical Measurement Unit Enhancement: An Efficient Approach to
					Automatic Measurement of BMI in a Medical Environment
J38	102-E30-H1	ElecEng	F	Vivian Du	An Affordable Approach to Determining an Object's Type of Material
		_			Using an Ultrasonic Sensor.
J33	102-E60-51	ElecEng	F	Nikita Goyal	Wearable Posture Correction Device for the Cervical Vertebrae
J27	102-F20-D1	MechEng	F	Lara Kupke	An Application of Ultrasonic Noise on Wind Turbines to Prevent Bat Fatalities
J25	102-F21-A2		F	Anooshree Sengupta & Maya Kumar	A location-aware sensor-rich mobile robot for human interaction and guidance
J20	102-F60-E1	MechEng	F	Priscilla Siow	Thermoelectric Powered Heart Rate Monitor
J18	102-F80-61	MechEng	F	Magdalena Mendoza	How does sandbag shape affect the efficacy of water blockage?
J16	102-H10-11	SoftEng	F	Sanika Sahasrabudhe	Ocular Sensors: Detecting Drowsy Drivers and Saving Lives
J15	102-H11-G1	SoftEng		Jenny Wang	Using Sound Sensors to Better Manage Traffic
J13	102-Н13-В2	T SoftEng	F	Kelly Ho & Kimberly Zhu	Volatile Organic Compound and Air Quality Detector
J12	102-H20-E1	SoftEng	F	Chandana Bhimarao	InterSensorNet for Pedestrian Safety
Н15	102-H41-41	SoftEng	F	Ashmita Rajkumar	A Novel Approach to an Intrusion Detection System: Detecting
		-			intrusions within a Home Network
Н17	102-H50-21	SoftEng	F	Anushka Jogalekar	Using Machine Learning to Detect Computer Network Security Threats
H22	102-H61-D1	SoftEng		Vivian Chiang	Motion Detection in Video Surveillance
	102-H71-91	SoftEng		Hrishika Basava	Preventative Technology to Avoid the Dangers of Texting While Driving
					-

Loc. Proj. Num. Team Field Ge		Title
н26 102-н80-62 T SoftEng	F Prachi Bhagavatha & Jasmine Ngo	Improved Cane for the Visually-Impaired
	F Dipashreya Sur	Investigating the Kinematics of Canids and Felids
н35 103-440-91 BiocheMic	F Chengzi Guo	Determine how the opportunistic pathogen Candida glabrata is
		resistant to antifungal agents when other yeast are not
н37 103-520-91 BioInfo	F Susan Zhou	The Effect of Glycine Substitution on BIV TAR-TAT Flexibility and
		Ligand Docking Using an Integrated Modeling and Bindin
	F Rachel New	Do Common Pharmaceuticals Induce Oxidative Stress in Drosophilia?
н40 103-630-E1 MedHeaSci	F Angela Chau	C. elegans as a Model System for Diabetes: Effect of Albuterol on
		Fat Accumulation and the Dauer Pathway in C. elegans
H44 103-710-E1 BiomedEng	F Divija Bhimaraju	Development of a mobile platform for training high-performance
		spatiomotor capability in the blind and visually impaire
н45 104-A10-81 Chemistry	F Amy Dunphy	Preventing Urushiol (Poison Oak)-Induced Dermatitis by Deactivating the Allergen
	F Samritha Nagesh	Electronic Drop Checker for Measuring Dissolved Carbon Dioxide
н47 104-D10-11 PhysAstr	F Holly Jackson	CUBOCTimization: Topological Optimization of a Cuboct Truss
		Bridge Using a Genetic Algorithm
G47 111-110-A2 T BehavSci	F Kamya Venkatesan & Lea Stith	How does Color Affect Memory?
G46 111-120-71 BehavSci	F Neelufar Raja	The Effect of Rock and Classical Music on Cortisol Levels, Heart
		Rate, and Perceived Stress in Adolescents
G43 111-210-31 PlantSci	F Elina Yon	The Effects of Silicate Applications on Drought Tolerance and Growth
		of Lolium perenne and Lactuca sativa var Longifolia
G42 111-220-F2 T PlantSci	F Vyvyan Nguyen & Eileen Thio	Purifying Qualities of Duckweed
G41 111-230-C1 PlantSci	F Cathy Vo	The Effects of Cytokinin on Cotton Seedlings
G39 111-240-72 T PlantSci	F Asritha Tubati & Anmolpreet Mavi	What are the Effects of Copper Sulfate and Aluminum Sulfate on the
		Growth of Underwater Algae Such as Spirulina?
G38 111-250-41 PlantSci	F Samantha Cheung	The Effect of Allelopathy on Pea Plant Growth
G37 111-270-D1 PlantSci	F Samika Kikkeri	What is the effect of the sounds of different groupings of animal from
		different ecosystems on the growth of peas?
G36 111-310-B2 T AnimalSci	F Joyce Zhao & Winnie Li	The Effects of Genetically Modified Food Supply on White Cabbage Butterfly Larvae
G33 111-420-G2 T BiocheMic	F Elizabeth Shen & Megan Li	The Effects of SS-31 on Neuronal Cells Subjected to an Ischemic Environment
	F Preethi Kandappan	Effects of Various Beta Blockers on the Heart Rate of Daphnia Magna
G31 111-431-B1 BiocheMic	F Swathi Ramprasad	What is the effect of different concentrations of Ibuprofen on the
		functionality of amylase?
G29 111-440-82 T BiocheMic	F Lekha Yaramada & Kirthi Nandi	The effect of ultraviolet light on the longevity of two different bacterial strains.
G26 111-460-н2 Т BiocheMic	F Anika Khunchandani & Shivani Patel	The Effect of Allium Sativum on GLUT-4 production in adipocytes
G23 111-490-61 BiocheMic	F Cassandra Overney	Effect of Hypergravity on the Growth of Garlic Root Bioassays
		Obtained by a Genotoxicity Investigation
G22 111-510-D1 BioInfo	F Ankita Chatterjee	Detection of Alzheimer's and Parkinson's Disease Utilizing the
		Morphometry of Cortical Gyrification
G17 111-531-31 BioInfo	F Tanisha Joshi	A Self-Learning, Predictive Model for HER2 Inhibitors with Virtual
		In-Vitro Biochemical Assays.
G16 111-540-11 BioInfo	F Mohini Banerjee	Modelling and Estimating the Spread of Influenza Like Illnesses and

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Loc. F	Proj. Num. Tea	ım Field	Geno	er Students	Title
	-				Their Mitigations Using Computation Modelling Tools
G12 11	11-561-81	BioInfo	F	Tiffany Tsang	Identification of signature genes associated with prognosis of glioblastomas
F11 11	11-610-42 T	MedHeaS	ci F	Trisha Dwivedi & Kshithija Mulam	A Study of Calcium Channel Blockers and Zinc and Magnesium
				·	Supplements in Inhibiting Epileptic Conditions in C. Elegans
F12 11	11-630-D2 T	MedHeaS	ci F	Haripriya (Priya) Govind & Pallavi Narayanan	The Most Efficient and Healthiest Substitution For Eggs in Baking
F21 11	12-A20-32 T	Chemistry	F	Riana Karim & Sharon Truong	Effect of Different Tea Varieties on Iron Absorption
F25 11	12-B30-91	CheEnvEr	ng F	Sophia Lau	Effect of Ultraviolet Radiation on the Photoelectrochemical
			Ū	·	Conversion System of Organic, Dye-Sensitized Voltaic Cells
F27 11	12-C10-82 T	EarEnvSc	i F	Jennifer Nguyen & Aleisa Quach	The Effects of Phosphate Enrichment on the Growth Rate of Marine
					Phytoplankton and Domoic Acid Production
F29 11	12-C20-42 T	「EarEnvSc	i F	Lily Lim & Angel Tran	Disinfecting Oil Spills
F30 11	12-C30-11	EarEnvSc	i F	Vianna Vo	The Effectiveness of Eggshells as a Method of Recovering Potable Water for Plants
F37 11	12-D20-D2 T	PhysAstr	F	Jazmen Castaneda & Jamie Trevino & Lehana Quintero	Assessing the Effects of Sample Position on Heat Distribution in a Microwave Oven
F38 11	12-D30-A1	PhysAstr	F	Jonelle Pascual	Paper Clips and Surface Tension
F39 11	12-D40-61	PhysAstr	F	Milan Williams	What is the effect of changing the evaporation, type, and volume of
					liquid on the time to reach zero degrees Celsius?
F40 11	12-D50-21	PhysAstr	F	Carleen Markey	The effects of the width of a tidal stream on its inner rim's orbital
		-			period versus its outer rim's orbital period
F47 11	12-F10-12 T	MechEng	F	Pragna Upputuri & Prapurna Upputuri	The Application of Electromagnets to Elevators
E43 11	12-F60-G1	MechEng	F	Trishla Pokharna	High Efficiency solar tracking array driven thermoelectric modules to
					harvest water to alleviate draught
E42 11	12-F70-C1	MechEng	F	Nidhi Jain	Charging Low Powered Devices by Mountain Biking
E37 11	12-H20-F2 Т	SoftEng	F	Swethasree Bhattaram & Samiksha Pal	A Machine Learning Approach to Recognition of Early Stages of Carcinoma
E32 11	12-H40-81	SoftEng	F	Sneha Kurella	Enabling the hearing-impaired to perceive audible alarms: An
					application of Internet of Things (IoT) techniques
E28 11	12-Н60-Н1	SoftEng	F	Saumya Baswant	Virtual Water Usage Assistant and Guard
E24 11	12-H71-A2 Т	SoftEng	F	Anita Ilango & Megha Ilango	Modeling of EEG Signals and Corresponding Hand Movements for
					Applications in Brain Controlled Prosthetics
E20 11	13-411-41	BiocheMic	F	Sachi Shirali	Antibacterial Effects of Essential Oils on Escherichia Coli
E18 11	13-450-71	BiocheMic		,	The Effects of Phytonutrients on Oxidative Stress in the Context of Cancer
E17 11	13-460-31	BiocheMic		Laura Cao	Molecular Cloning of an shRNA plasmid to knock down a novel protein
E16 11	13-470-G1	BiocheMic	F	Marilyn Zhang	Exploring Extracellular Vesicle-mediated Breast Tumor
					Communication with Macrophages in Tumor Progression
E15 11	13-480-C1	BiocheMic	; F	Shivani Bhandarkar	RNA Sequencing of Human Blastocoel Fluid to Determine Embryo Development
D10 11	13-521-91	BioInfo		Avanika Narayan	Computational genetics uncovers potential new biomarkers for heart failure
D18 11	13-610-71			Maya Kalbag	The Effects of Antihistamines on the Sleep Patterns of Juvenile and Aged Drosophila
D19 11	13-620-31	MedHeaS	ci F	Zunera Ghalib	Effects of Altering Polyphosphate in Rotenone-induced Drosophila
					Models of Parkinson's Disease
D20 11	13-630-G1	MedHeaS	ci F	Shriya Perati	The Ras/MAPK Pathway in Autism: Study of Synapse Formation in
					Patient Derived Neurons
D22 11	13-650-81	MedHeaS	ci F	Jessie Zhao	In Vitro Study of Desethylhydroxychloroquine's Anti-inflammation

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Loc. Proj. Num.	Team Field (<u> Senc</u>	ler Students	Title
				Efficacy in Human Macrophages
D25 113-740-43			Amulya Vadlakonda	A Non-Invasive LDL Cholesterol Monitor
D26 114-C10-B	1 EarEnvSci	F	Angelica Nemani	Evaluating outdoor water conservation in the San Francisco Bay
				Area across socio-economic groups during a drought.
D29 114-D20-G			Sneha Bhetanabhotla	Reducing Noise Level in High Temperature Superconducting SQUIDs
D31 114-D40-83			Annabel Marks	V1149 Observations
D36 114-H50-52	2 T SoftEng	F	Mythili Bhethanabotla & Christine Cho	A Study on Routing Protocols in DTN Scenarios to Determine an
				Effective Way of Communication in Extreme Conditions
D43 121-220-13	1 PlantSci	F	Natalie Chau	How do treated inorganic seeds affect the quality of soil in
				comparison to grown organic seeds?
D44 121-230-E			Diana Trinh	Effects of Pesticide Exposure on Plant Growth
D45 121-310-E3		F		The Effect of Resveratrol on the Lifespan of Nutritionally Stressed Drosophila
D46 121-320-A		F	Gabriella Abaci	The Effects of Cupric Ions on the Regeneration of Dugesia dorotocephala
C44 121-350-E2		F	, , , , , , , , , , , , , , , , , , ,	Effects of Cigarette Litter on the Urban Ecology of Armadillidium vulgare
C43 121-360-B3		F		Why and how jumping galls hop?
C42 121-410-52		F	,	The Effects of Chitosan on a Model of the Blood-Brain Barrier in Alzheimer's Disease
C41 121-420-23		F		Restoring Extinct Genes via CRISPR/Cas9 Technology
C40 121-430-F3		F		The Effect of Essential Oils an as Antibacterial Agent
C39 121-440-B3		F	Cindy Pham	GFP Expression under Varying Conditions
C37 121-450-62	T BiocheMic	F	Mary Gagni & Vanessa Alvarez & Crystal Gonzalez-Madrigal	BPA on Living Cells
C31 122-A10-A	1 Chemistry	F	- · · · · · · · · · · · · · · · · · · ·	Derivatized starch-based bioplastics
C27 122-C10-A2	2 T EarEnvSci	F	Sandhya Kannan & Rachel Tham & Sunaya Krishnapura	Novel Industrial Wastewater Filtration Through Denitrification By
				Arthrospira Platensis In Ammonium Hydroxide Solutions
C26 122-C20-62	2 T EarEnvSci	F	Josephine Chu & Purnima Seshadri	The effects of the toxicity of cigarette butts and their chemical
				components on marine life
C23 122-C40-F2			Aditi Mittal & Aashia Bajwa	Effect of Various Desalination Techniques on the Growth of Mung Beans
C21 122-C50-B2			Daniela Velazquez & Melissa Gutierrez & Daena Valencia Samora	Wire Mesh Adobe
C20 122-D10-33	<i>j</i>		Jocelyne Luna	Can silk from a silkworm cocoon reduce the impact force of a falling object?
C13 122-D50-32		F	,	POP! Goes the Balloon
C12 122-E20-83	1 ElecEng	F	Erin Kim	Body Heat Powered LED Vest
C11 122-E30-43	1 ElecEng	F	Maya Varma	Autonomous Smartphone-Controlled Robotic Wheelchair with
				iBeacon-Assisted Navigation
B10 122-E50-D	1 ElecEng		Jenna Huynh	Drones
B20 122-H20-13	1 SoftEng		Kim Ngo	Mobile Application Monitor of Areas Inducing Plant-Derived Respiratory Allergies
В29 122-Н70-Е			Arianna Groetsema & Allison Zhang	The Expansion of Mobile Healthcare through the Development of HeMoClo
В31 122-Н90-71	SoftEng	F	Manogna Vemulapati	A Numerically Stable Scaling Method for Hidden Markov Model
				Trained in MapReduce
B33 123-410-83	BiocheMic	F	Natalie Simonian	The Role of Vcam1+ Sinusoidal Endothelial Cells in Hematopoietic
				Stem Cell Trafficking
В34 123-430-Н			Shivani Gohil	Building a Reporter Assay to Detect EDCs, Endocrine Disrupting Compounds
B35 123-440-D3	1 BiocheMic	F	Julia Cho	Genetically encoded bioluminescence resonance energy transfer

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Loc.	Proj. Num. Te	am Field (Geno	der Students	Title
					(BRET)-based Ca2+ indicator for in vivo imaging
В36	123-460-51	BiocheMic	F	Durga Ganesh	Angiopoietin-2 Induces Myeloid Cell Adhesion via G Protein-Coupled Receptor X
В37	123-510-Н1	BioInfo	F	Sadhika Malladi	Application of EMDomics to Identify Age-Associated Expression and Treatments in Cancer
	123-530-91	BioInfo		Swetha Revanur	Machine Learning Framework for Multi-Omics Discovery and Characterization of Gene-Gene Interactions Impacting Disease
B43	123-610-91			Emily Pettitt	The Effects of CoQ10 on Parkinson's Disease
В46	123-720-E1	BiomedEng	j F	Sherry Zhou	Rapid, Low Cost, On-Chip Isolation and Enrichment of Exosomes for Cancer Early Detection
В47	124-A10-C1	Chemistry		Audrey Cheng	Enhancing the Efficiency of Self-Assembled Organic Solar Cells with the Addition of a Second Electron Donor and Graphene
A47	124-A20-81	Chemistry		Anjini Karthik	Rapid and Selective Detection of Viruses Using Virus Imprinted Polymer Films
A46	124-A30-41	Chemistry	F	Kristine Zhang	Sensitive and Low-Cost Glucose Detection Using Nanostructured
					Copper Oxide Electrodes for Diabetes Monitoring
	061-320-D2			√ Cole Bregman & Eden Cohen	How does changing the chicken feed affect the egg
	072-C60-D2			A Leilani Medina & Marcelino Calvillo & Simone Pond	What Is The Effect of Fresh Water and Salt Water On Oil Spills?
	081-210-C2			Grant Miner & Michelle Kwan	Eliminating Dinoflagellates Without Harming Marine Biology
	081-411-B2			₁ Henry Wiese & Anika Tiwari	Cleaning Kitchen Cleaners
E78	081-420-92	T BiocheMic	F/N	Michelle Nazareth & Andrew Nazareth	Bacteria Battles: Effects of antimicrobial efficacy using antibiotics and an essential oil to combat anti-bacterial resistance using E.coli and S. epidermidis biofilm formations
C70	082-D31-H2	T PhysAstr	F/ _N	₁ Ilina Gupta & Eric Hartman & Ashley Pang	Ready, Set, Soap!
	082-F11-92			Bryan Tang & Trina Dao & Jeffrey Lam	Spot On Spray Mop
				Leo Rassieur & Eun seo (Katie) Kang	Division of Corn Stover Material to Increase Efficiency of Conversion to Cellulosic Ethanol
N1 1	092-D60-92	T PhysAstr	F/	Priya Goel & Saarthak Sharma	The Effect of Color on the Absorption of Radiant Energy
				Isha Mehrotra & Rohan Mehrotra	Novel interactions between Parkinson's genes and alpha-synuclein reveal new disease pathways and genetic therapies
K38	102-C10-62	T EarEnvSci	F/ _N	△ Samantha Lu & Victoria Doan & Khiem Nguyen	Lead Concentration in Mytilidae (mussels)
K40	102-C20-22	T EarEnvSci		Ujjaini Mukhopadhyay & Justin Callahan	California Drought and Él Nino: A study of the effects of drought and El Nino on fertility of the topsoil (Physical Scie
J22	102-F40-42	T MechEna	F/N	Ramon Duran & Isabel Suizo & Nathaniel Nguyen	A Robotic Approach to Pipeline Disasters
	102-Н40-52			Karena Kong & Linus Li	Visual-Based Cognitive Facial Expression Recognition Software with the Application of an Al Learning Algorithm
H42	103-640-92	T MedHeaSc	i F/N	Amy Jin & Jerry Chen	Combating the Obesity Epidemic: Computational Analysis to Identify Driver Genes and Virtual Screening to Discover Novel
G34	111-410-32	T BiocheMic	F/N	₁ Erica Chiu & Andrew Rao	The Effect of Designer Peptides on Huntington's Disease
F17	111-750-E2	T BiomedEng		Allison Cong & Wilson Chung	Engineering a Novel Usage of Microneedles to Efficiently Diagnose Birth Asphyxia in Neonates
F19	112-A10-72	T Chemistry	F/ _N	ո Hellen Truong & Akaash Mosi	Testing the Effect of Variant Electrolytes Upon Hydrogen Production through Water Electrolysis
E10	113-520-A2	T BioInfo	F/N	ո Evani Radiya-Dixit & David Zhu	Automated Classification of Benign and Malignant Proliferative Breast Cancer Lesions

Loc. Proj. Num. Team	n Field Ge	ender Students	Title
D12 113-530-62 T		√ Joyce Huang & Peter Wu	Analyzing Networks Conducive to Synchronization of Neural Populations
D15 113-560-B2 T	BioInfo	F/ _M Steven Cao & Neymika Jain	Using Feature Extraction for Automated Scoring of HER2 Immunohistochemistry Images
D28 114-D10-22 T	PhysAstr	F/ _M Jimmy Lin & Margaret Wang	Studying the Structure and Dynamics of the Subcomponents of the Milky Way and Andromeda Galaxies
C46 121-340-12 T	AnimalSci	F/M Jenny Tran & Jack Shannon	Dare to Fly: Implications of Linked Phenotypes in Captive Populations
C33 121-620-22 T	MedHeaSci	F/M Austin Le & Aline Hoang & Deanne Micaela Cruz	Medicine Distribution
C24 122-C30-22 T	EarEnvSci	F/M Yovani Hernandez & Isela Medina	The Effect of Perforated Pipes on Liquefaction
C17 122-D30-B2 T	PhysAstr	F/M Jennifer Guise & Enrique Munguia	Telescope Using Mirrors and Sunshields
C15 122-D40-72 T	PhysAstr	F/M Missy Thompson & Tara Sharifi & Cesar Moncada	Blood Splatter Experiment
B15 122-F50-42 T	MechEng	F/ _M Amber Vo & Chris Aboujudom	Engineering a Space-Efficient Storage of Deployable Photovoltaic Cells for Nanosatellite Applications
B17 122-G10-C2 T	Math	F/M Arpita Singhal & Shivam Singhal	Health and Wealth: Developing Novel Algorithms in Java for
		· · · · · ·	Advanced Data Analysis and Statistical Predictions
B28 122-H60-12 T	SoftEng	F/ _M Pransu Dash & Isa Dash	Applying Swarming and Clustering Algorithms to Vehicles for Real
			Time, Data-Driven Traffic Management
P50 061-110-H1		M Krish Prasad	The Effect of Different Distractions on Driving
P60 061-180-61	BehavSci	M Jedd Joshua Miguel	Old School Music and Fitness
		M Rishi Pankhaniya	Nitrogen-Fixing Bacteria a Cheaper, More Efficient Method To Aid Plant Growth
P63 061-221-31	PlantSci	M Ronan Ellerby	Does Wheatgrass Grow in a High Carbon Dioxide Environment
			Representing a Martian Habitat?
		M Tapish Singh	Water Conservation: Which mulch is the most effective one?
		M Haseeb Garfinkel	Tough Beans: Effects of cooking liquid on the hardness of beans
		M Abraham Garcia & Bryan Olvera	Do plants grow better with the seeds at the top or bottom of the pot?
		M Samrath Sandhu	Conductivity of different soils
		M Ashray Bangalore	Fertilizer Effects on Plant Growth
		M Roman Gavrilov	What food do ants like best?
		M Arhan Rout	Green and Blue fluorescent protein plasmid transformation
		M Nikhil Sathye	Effect of Reducing Oxidation on Vitamin C content in fruits and vegetables
		M Ahmad Ismail	Yeast Busters: Stopping Fungus in its Tracks with Antifungal Medicine
		M Anshul Reddy	What is the most effective add-on to brushing your teeth?
		M Richard Colgrove	Relationship Between the Dominant Eye and Cognitive Function
		M Nimai Talur	Faster, Cleaner Composting
		M Eoin O'Brien	Study of Motor Oil Viscosity
N78 062-A21-72 T		M Ramy Nijmeh & Moses Wagner	Minty Militia: The Fight for Cool. Do Mints Really Frost Your Face?
N74 062-A31-32 T		M Leonardo Zhao & Eric Zhu	Air Activated Iron
		M Arham Farooqui	Purified Water?
		M Chris Lee	What's with pills and water?
		M Dashiell Park Warren	How does temperature affect the viscosity of liquid
		M Vince Agudelo	Does the electrical conductivity of water change based on what's in it?
N62 062-A80-31	Chemistry	M Iyanu Olukotun	Toxic Teflon: Is Teflon Safe to Use in Modern Kitchens?

Loc. Proj. Num. Te	am Field G	end	er Students	Title
N60 062-A90-G1	Chemistry		Nicolas Garcia	How Do the Different Types of Pots Affect the Safety of Food
N56 062-B20-21	CheEnvEng	М	Diptanshu Sikdar	Effect of shapes of solar panels on the generation of electricity
N51 062-C12-A2	T EarEnvSci	М	Taiki Yamamoto & Minoo Kim	Erosion Simulation
M50 062-C21-91	EarEnvSci	М	Adarsh Ambati	A Smart, Low Cost, Social Network Connected, Community Sprinkler System (IOT)
M56 062-C51-E1	EarEnvSci	М	Harsha Kancharla	Arsenic in Grains
M57 062-C60-C1	EarEnvSci	М	Surya Tallavarjula	To characterize the energy loss for different types of light bulbs, and
				ways to recover and reuse some of the energy loss.
M58 062-C61-A1	EarEnvSci	М	Ekaum Soni	Dissolved Oxygen at Various Qualities and Temperatures
M60 062-C80-41	EarEnvSci	М	Kai Vostermans	Water on the Run: The effects of material covers on water evaporation.
M62 062-C90-H1	EarEnvSci		Pierre Carcione	Effect of Pump Rate on Sediment Collected from Well Water
M63 062-C91-F1	EarEnvSci		Parker Wang	Tsunami Waves
M64 062-D10-71	PhysAstr		Colin Pereira	Boat Velocity
M66 062-D12-31	PhysAstr		Mihir Gupta	The LacraPult - Testing Accuracy and Range of Different Lacrosse Heads
M68 062-D21-11	PhysAstr		Yash Tipirneni	Color Power; based on Einstein's Quantum Theory of Light
M73 062-D32-C1	PhysAstr	M	Arijit Ghoshal	How does the amount and density of soup in a lunch container affect
				the temperature of the soup 4 hours later?
M74 062-D40-C1	PhysAstr		Michael Tapia	The Effect of Temperature on Magnetic Strength.
M75 062-D41-A1	PhysAstr		Deven lyer	What is the Effect of Added Weight on the Revolutions Per Minute of a Helicopter?
M83 062-D70-H1	PhysAstr		Enzo Teddy	What is the Effect of Air Cannon Tension on the Smoke Ring Dissipation Time
M84 062-D71-F1	PhysAstr		Adheet Ganesh	Determining Disaccharide Content of a Fluid Using Laser Refraction
M85 062-D72-D1	PhysAstr		Shreyas Basu	Can a liquid be made to behave like a solid?
M87 062-D81-B1	PhysAstr		Krishna Mani	Wing Efficiency Testing
L87 062-D82-91	PhysAstr		Will Hames	"What Material Keeps You Warmest"
L83 062-E10-G1	ElecEng	M	Farzan Hashmi	To draw a comparison between a home made intrusion detection
				system and a commercial home security system
L82 062-E11-E1	ElecEng	M	Eric Cohan	The design and construction of a four digit lock for middle schoolers
				to access a locker more efficiently.
L81 062-E20-C1	ElecEng		Hamza Said	Optimal Amount of Electricity In a Generator
L80 062-E21-A1	ElecEng		Arnav Bharadwaj	Movie nightdim the light: Effect of Variable Resistor on the Luminance of light bulb
L76 062-E41-12	T ElecEng		Bruno Inzunza & Toby Choudry	Has your Wifi been slow lately?
L73 062-E70-82			Matan Sandhaus & Jacob Gans	Turn Signals for Bicycles
L70 062-E90-11	ElecEng		Roy Neumann	The design and construction of a shoe dryer for toddler shoes
L67 062-F20-41	MechEng		John Broussard	Solar Car Speedway
L66 062-F21-21	MechEng	M	Yahli Einav	The design/construction of a soccer helmet that reduces the force of
				impact when a soccer player gets hit in the head.
L65 062-F30-H1	MechEng		Dhruv Patel	Spread My Wings n' Fly
L64 062-F31-F1	MechEng		Nathaniel Hahn	The design and construction of a toy drone with a longer flight time for kids.
L63 062-F40-D1	MechEng		Martin Grbic	Solar Panels in the Shade
L60 062-F60-51	MechEng		Joshua Wong	Earthquake Structures
L58 062-F80-E1	MechEng		Aditya Gupta	Solar panel's optimum tilt to produce maximum electrical energy
L55 062-H11-71	SoftEng	M	Krithi Koodli	Computer Simulation of Intersecting Orbits of Celestial Bodies

Loc. Proj. Num. Te	am Field G	end	er Students	Title
L54 062-H20-51	SoftEng	M	Jayanth Pennathur	An "i" for an Eye
L53 062-H30-11	SoftEng	М	Eli Hsu	The Offsides Rule.
L51 062-H50-A1	SoftEng	М	Vivek Bharati	A Simple Yet Effective Football Concussion Detector
L50 062-H60-61	SoftEng	М	Yoav Rafalin	Order of Operation Game for Teaching
K50 062-H70-21	SoftEng	М	Guy Knaan	Crowd-sourced audio study guide
K58 071-210-B1	PlantSci	М	Avinash Upadhyayula	The Effect of Salt and Calcium on a Plant's Height
K62 071-221-51	PlantSci	М	Nikhil Murthy	Electroluminescent Farming: The Effect of the Color of LED Lights on
				the Growth of Vigna radiata
K65 071-240-G1	PlantSci		Rahul Ganesh	Can you grow algae to reduce Global Warming?
K70 071-260-72	T PlantSci		Duncan MillIrad & Mark Shamis & Brayden Fergason	How does time spent on the ground affect mold growth on different food?
K72 071-270-41	PlantSci		Ronith Ganjigunta	Potash vs. Gypsum- Best Nutrient for the Common Bean Plant in Drought Conditions
K73 071-271-21	PlantSci		John Kipp	The Effect of Different Light Spectra on the Growth of Nannochloropsis
J85 071-471-31	BiocheMic	M	Kanav Mittal	Natur-o-Med: Do oils from spices and herbs impact the growth of
				bacteria in milk as measured by the Kirby-Bauer test
J84 071-480-11	BiocheMic		Shivek Narang	The Effect of Salt on Saccharomyces cerevisiae
J83 071-481-G1	BiocheMic		Nicholas Csubak	Shooting Fungi
J82 071-490-E1	BiocheMic		Mithil Chakraborty	Evaluation of the Antibiotic Properties of Tomatine using Daphnia Magna
J80 071-630-42			Aditya Udgaonkar & Prathik Kakarlamudi	Does measured glucose correlate with tear glucose ?
J77 071-641-G1			Mwinso Denkabe	Does temperature affect the rate of enzymes
J70 071-710-51	BiomedEng	M	Aalok Patwa	Do I Grind? A Wearable System That Detects Teeth Grinding Ahead
				of Its Effect on Teeth
J69 071-720-11			Munir Bshara	The Portable Death Ray Device
J67 072-A10-G1	Chemistry		Ishir Vaidyanath	Sonic Extinguisher (The effect of Sound on Fire)
J66 072-A11-E1	Chemistry		Wali Khalid	The effects of hardness of water because of the amount of soap suds
J65 072-A12-C1	Chemistry		Samarth Jayadev	How separating oxygen from water could help infinite breathing time under water.
J63 072-A21-A1	Chemistry	M	Nikhil Gargeya	The Effect of Cooking/Cooling Methods on the Calorie Content of
				Starch Heavy Foods
J61 072-A32-41	Chemistry		Shivaditya Gohil	Can we stop the corrosion and rusting of steel with different type of paints?
J55 072-A52-D1	Chemistry		Justin Wong	How does the purity of the gases affect the deflation or inflation rate of a balloon?
J52 072-A80-51	Chemistry		Aadit Trivedi	Fueling the Future: The Effect of Different Electrolytes on Water Electrolysis
J50 072-A90-11	Chemistry		Austin Yang	The Efficiency of Different Salt Separating Methods
H59 072-C50-11	EarEnvSci		Jakob Lelong	Earthquake Simulator
H64 072-C90-21	EarEnvSci		Abhishek Saxena	Increasing electric output of solar panels using lenses
H65 072-D11-71	PhysAstr		Anas Mohamed Sulthan	The Effect of Wind on a Quadcopter
H67 072-D20-42			Daniel Ries & Hudson Cockroft	Nothing But Net
H68 072-D21-31	PhysAstr	M	Akhilesh Balasingam	Galloping Prisms: Using Vortex Shedding to Optimize the Performance of a
				Novel Flow Energy Harvester for Remote Sensing
H69 072-D22-11	PhysAstr		Zaid Yousef	EMF Radiation
H71 072-D31-G1	PhysAstr		Tyler Madden	Fishing for Answers - static breaking strength of fishing line
H72 072-D40-E1	PhysAstr		Joshua Bang	What is the effect of follow through on the distance of the ball?
H73 072-D41-C1	PhysAstr	M	Vikram lyer	Musical Liquid Waves

Loc. Proj. Num. Tea	m Field	Gender Studen	ats Title
H74 072-D50-A1	PhysAstr	M Satwik Vakada	Electric Waterfall (Kelvin Electrostatic Generator)
H78 072-D61-41	PhysAstr	M Mehrzad Gandhi	Gauss Rifle
H79 072-D70-21	PhysAstr	M Nikhil Chandra	Noise level reduction using bent tubes embedded in sound proofing materials
H80 072-D71-H1	PhysAstr	M Ernest Zmrzli	WIFI Attenuators
H82 072-D91-91	PhysAstr	M Ricardo Perez, Jr.	Shocking! Static Electricity
H83 072-E10-11	ElecEng	M Aasish Virjala	Smart Plate: Healthy Diet
H84 072-E12-E1	ElecEng	M Srivishnu Pyda	The Effect of Different Temperatures on the Power Output of Different Solar Cells
H87 072-E20-E1	ElecEng	M Samarth Girish	Engineering a Mobile Helio Tracker to Enhance Solar Efficiency for
			Rural and Urban Areas to Provide Eco Friendly Energy
G87 072-E21-C1	ElecEng	M Avi Goel	A Novel Mechanism to Prevent Drowning in Young Children
G85 072-E22-92 T	ΓElecEng	M Arush Chhatrapati & Akul	Datta Effect of obstructions on Wifi signal strength
G84 072-E23-81	ElecEng	M Kaushik Tota	Developing Magnesium-Air Fuel Cells
G82 072-E31-81	ElecEng	M Johan Vonk	Pitch Detection on Arduino using Autocorrelation
G81 072-E32-61	ElecEng	M Michael Gladstone	The Point of a Parabola: Focusing Signals for a Better Wireless Network
G79 072-E41-41	ElecEng	M Ravi Gadgil	Controller for Smart Suburbs
G77 072-E50-21	ElecEng	M Arnav Garg	Textual help for the visually impaired
G76 072-E51-H1	ElecEng	M Sasmit Agarwal	The Epipen Drone
G75 072-E52-F1	ElecEng	M Bharat Kathi	The Solar Tracker
G73 072-E61-D1	ElecEng	M Zakariya Syed	Self-Massaging Shoe
G72 072-E62-B1	ElecEng	M Francis Tang	Measuring cell phone radiation
G70 072-E71-91	ElecEng	M Vineet Ranade	The Dielectric Effect
G68 072-E80-71	ElecEng	M Andrew Chiang	Force Sensing Techniques for Robotic Arms
G66 072-E90-31	ElecEng	M Srikar Kolluru	The Effect of Drones Use in Advanced Warning Systems
G65 072-E91-11	ElecEng	M Rijul Jain	Automatic Bus Detecting and Reporting System
G63 072-F11-81	MechEng	M Puneet Khanna	Riding on Air - Building and Testing a Hovercraft
G62 072-F20-61	MechEng	M Abdullah Naveed	The Effect of Attached and Detached Cars on the Environment
G61 072-F21-41	MechEng	M Alexander Thaik	Effect of slope, distance, and loop diameter on the performance of a roller coaster.
G60 072-F30-21	MechEng	M Arnav Jhingran	A clean green flying machine: A bike-wheel mounted multi-rotor
			drone that uses wind energy to increase flying time
G58 072-F40-F1	MechEng	M Luka Micevic	Which surface makes a hovercraft go the fastest?
G57 072-F41-D1	MechEng	M Alex Asay	How Does Passive Solar Design Save Energy
G50 072-F81-D2 7	Γ MechEng	M Gabriel Ticau & Krish Pra	,
			impaired people to surf the web
F51 072-G10-21	Math	M Andrew Varghese	Differences of Primes and Whole Squares
F53 072-H10-B1	SoftEng	M Arvind Ramachandran	TrackBar: Tracking Food Expiration Dates to Reduce Wastage
F54 072-H20-71	SoftEng	M Prithu Kachare	A Device for Water Conservation during Showers
F55 072-H30-31	SoftEng	M Eric Tang	Self Driving Robotic Car
F57 072-H50-C1	SoftEng	M Ian Ezzo	Method for Designing an Automated Irrigation System
F58 072-H60-81	SoftEng	M Vivek Sunkam	Detection of Fatigue in automobile drivers
F59 072-H70-41	SoftEng	M Amar Singh	Creating a Safe Way to Encrypt, Send, and Decrypt Files
F60 072-H80-G2 1	「SoftEng	M Talin Ray & Sean Do	Using hand gestures to operate mechanisms.

Loc. Proj. Num. Team Field Gender Students	Title
F62 081-111-21 BehavSci M Dylan Hwang	Eye Fatigue During TV Watching: An Infrared Oculography Study
F72 081-160-н2 Т BehavSci M Rohan Sonecha & Naveen Mirapuri	Sports Psychology: The Effects of Expectations and Bias on Athletic Performance
F75 081-171-B2 T BehavSci M Bryan Reyes & Dauntae Vivas	The Effect of Music on Human Moods
F81 081-220-91 PlantSci M Daniel Maceda	Catching Evapotranspiration, Saving Water
E83 081-320-H2 T AnimalSci M Jason Pan & Jeffrey Yang	Effects of pH level on Daphnia Magna Health
E79 081-412-92 T BiocheMic M Matthew Jin & Sahil Gosain	Hair Dye Potential Mutagen Test
E76 081-422-61 BiocheMic M Ekdatha Arramreddy	Effects of Protein A on Antibody and Antigen Binding
E72 081-450-F1 BiocheMic M Aditya Hariharan	The Effect of B. subtilis bacteria on reducing the salinity of salt water
E71 081-451-D1 BiocheMic M Kai Baird	UV Clean!
E70 081-452-B1 BiocheMic M Ayinde Olukotun	Killer Kefir: Does Kefir Inhibit the Growth of Harmful Bacteria?
E68 081-460-A2 T BiocheMic M Nakul Bajaj & Kyle Li	The Effect of Soil Type and Content on Biodegredation Rate
E66 081-470-62 T BiocheMic M Nathan Wang & Ronit Gagneja	What are the effects of applying various antimicrobial substances on
	common school surfaces to reduce bacterial growth?
E63 081-480-22 T BiocheMic M Jeffrey Liu & Mihir Sharma	Bacteriophages kill E. Coli - With a twist!
E55 081-631-51 MedHeaSci M Aditya Behal	A Novel Study of the Inhibitory Effects of Plant-Based Hypoglycemic
	Agents on Enzyme Catalyzed Starch Hydrolysis
E54 081-640-31 MedHeaSci M Oriel Zagazeta	Antioxidant Power! Quenching Free Radicals
E51 081-660-B2 T MedHeaSci M Avi Gulati & Sachin Shah	Finding a Treatment: Testing the Abilities of Momordica charantia to
	Inhibit Alpha Amylase by Utilizing a Glucometer
D54 081-720-22 T BiomedEng M Jaimin Bhagat & Jai Bahri	Cavities Denied - A Cavity Detection Device.
D55 081-730-G1 BiomedEng M Tarun Chiruvolu	A Novel Method for Ketosis Detection Using Breath Gas Analysis
D58 081-760-41 BiomedEng M Sriram Sundararajan	Saving The World One Heat Stroke At A Time
D61 082-A10-11 Chemistry M Rithik Jain	The Effect of Different Flavonoids on the Inhibition of Alpha Amylase
D65 082-A31-81 Chemistry M Jacob Forbes	Energy Maximization in Batteries
D69 082-A51-H1 Chemistry M Jeremy Dinh	What Affect Does Salt Have on a Makeshift Solar Panel?
D73 082-B10-A1 CheEnvEng M Phillip Han	The Effect of Different Grade Gasoline on the Amount of CO2
	produced in the Emissions
D76 082-B21-41 CheEnvEng M Pranav Vadali	On-Demand Watering of a Plant
D86 082-B90-B2 T CheEnvEng M Alex Wang & Felix Chen	Collecting Dew to Help California's Drought
D87 082-C11-H1 EarEnvSci M Mihir Godbole	Making Bioplastics
C79 082-C60-G1 EarEnvSci M Srinivas Balagopal	Desert Island: The Effect of Mesh Designs on the amount of water
	collected from fog harvesters
C77 082-C81-61 EarEnvSci M Kobi Johnsson	Angled Panels - The Study of Whether Angled Solar Panels Affect
	the Amount of Sunlight Measured
C76 082-C90-41 EarEnvSci M Amanuddin Syed	Effect Of Airflow On Solar Energy
C75 082-D10-B1 PhysAstr M Kevin Bao	Electric Field Detector
C73 082-D20-62 T PhysAstr M Aniket Tyagi & Max Jones	Magnetic Motors
C72 082-D30-31 PhysAstr M Joseph Caruso	Pellets in Gel
C68 082-D40-F2 T PhysAstr M Montek Kalsi & Rakesh Nori	Soundproof Recyclables
C66 082-D61-61 PhysAstr M Dan Tran	What Affect Does the Size of a Magnet Have on its Ability to Serve
	as a Frictionless Bearing?

Loc. Proj. Num	Team Field	Gender	Students	Title
C65 082-D70-		M Jeff	frey Kwan	The Performance of a Ping-Pong Ball
C64 082-D80-1	11 PhysAstr	M Abh	hiraam Arun	What's up with the WiFi strength?
C60 082-E20-0	ElecEng	M Sho	ounak Ranabhor	Angel's Eye - The Heat Battalion
C59 082-E21-	ElecEng	M Chi	inmay Lalgudi	The Development of a Thermoelectric Generator Integrated Laptop
	J		, ,	Case to Charge Computers using their own Heat
C58 082-E30-0	ElecEng	M Mic	chael Raymund Vicente	The Effect of B.O.S.S (Bracelet Of Safety and Security) and Program
	J		•	on Its Success Rate of Its Many Parts.
C57 082-E31-	1 ElecEng	M And	drew Ton That	A System Using Cheap Disposable Robots to Clear Landmines
C56 082-E40-	ElecEng	M Siva	ra Sambasivam	Arduino Powered SmartPillow
C54 082-E50-	11 ElecEng	M Mat	tthew Cho	Smart Shoes: An innovative method to analyze and correct improper gait
C52 082-E60-I	ElecEng	M Kav	vish Trivedi	Preventing Crime using a Smart Doorbell
C51 082-E61-	2 T ElecEng	M Bra	andon Lee & Arav Chheda	Wireless Phone Case Charger
C50 082-E70-1	1 ElecEng	M Mila	an Ganai	Wearable Therapeutic Device with Bluetooth for Sarcopenia Patients and Caregivers
B51 082-E71-2	12 T ElecEng	M Hav	wk Azordegan & Nicholas Rumley & John Pham	Charge It!
B55 082-E90-	51 ElecEng		shil Saha	Wearable Device for Dementia Patients to Log Activity and Location,
	_			and R Analysis of Data to Find Trends in Movements
B56 082-F10-0	1 MechEng	M Ane	eesh Virjala	Green Printer - Save Trees !!!
B60 082-F20-	72 T MechEng	M Kas	shov Sharma & Arjun Akkiraju	A novel flotation technology for flight data & cockpit voice recorders
				in the event of aircraft failures
B62 082-F30-	11 MechEng	M Jac	cob Cardenas	How does input energy affect the weight which can be supported by a hovercraft
B63 082-F31-	MechEng	M Ans	sel Austin	Impact of Applying Structural Features of an Owl's Feather on
				Reducing Noise Output of Rotor Blades
B68 082-F50-0	22 T MechEng	M Cha	andan Aggarwal & Noah Salisbury	Sit Up Straight: Posture Sensor and Corrector
B72 082-F70-	MechEng		stin Wang	Studying the effect of winglets on drag reduction with a wind tunnel
B75 082-F90-1	MechEng	M Rus	shil Srivastava	A Cheaper Keyboard for the Blind
B78 082-G30-1	o1 Math		has Prasad	Do Hamiltonian Bugs Always Converge? A Computer-Inspired Proof
B79 082-H10-I	o1 SoftEng		trick Yu	A Novel Approach to Leaf and Image Recognition
B81 082-H12-	SoftEng		jaswi Vemulapati	Predictive Text Input Using Multiple N-Gram Language Models
B82 082-H20-	91 SoftEng	M Shi	ivam Verma	Controlling Wheelchair Motion Using a Computer Vision System that
				Detects Head Movement
B83 082-H21-			nan Choudhary	Precision Notes - Compares two different pieces of music
B84 082-H22-			than Ng	Accident Prevention
В87 082-Н31-			anjan Joshi & Arnav Doshi	Using Machine Learning to Predict Future Traffic Jams
A87 082-H40-			ghav Ganesh	Characterizing Brain Activity using Facial Feature Recognition and Gaze Tracking
A85 082-H42-1			ldarth Ramkrishnan & Ryan Ramirez	BlindNav
A84 082-H50-1			gan Macias	Open-Source Gaming
A83 082-H51-0			shul Pal	Remote Controlled animation iOS App using CoreBluetooth
А81 082-Н60-2			ivaansh Kapoor	Scientific Calculator from Scratch
A80 082-H61-			tan Shah	Image Compression: Which algorithm performs the best?
A78 082-H62-			andon Yan & Isaac Lo & Brendan Su	Eunomy: Pharmaceutical App
А77 082-Н70-	SoftEng	M Jos	seph Hernandez Jr.	Become The Smarty

Loc. Proj. Num. Team	Field Ge	nder Students	Title
	SoftEng	M Mihir Kasmalkar	Keyboard Code: A Software Development Environment for the Blind
A75 082-H72-21 S	SoftEng	M Rohan Kolappa	Security for Internet Users: URL Detection
A74 082-H80-21 S	SoftEng	M Agneesh Kumar	Using RFID cards to make the departure process more efficient
А73 082-Н81-Н1	SoftEng	M Anuj Kathail	Virtual Reality Gloves
A71 082-H91-D1 S	SoftEng	M Mubashir Hussain	Software solution to improve prescription of medication to senior
			citizens and monitoring intake
P11 091-120-21 E	BehavSci	M Ryan Dang	The effects of different stimulus images on the Delboeuf illusion
P12 091-130-F1 E	3ehavSci	M Vishnu Palaniappan	Effects of Synchronous Music on Anaerobic Endurance
P13 091-140-B1 E	3ehavSci	M Kevin Mathew	False Preconception and the Brain's Perception of Time
P15 091-160-31 E	3ehavSci	M Gautham Dasari	The Affects of outside psychological stress on running speed
P17 091-180-C1 E	3ehavSci	M Anish Gupta	How Does Age Affect Sleep Patterns?
		M Derick Cutinha	The effect of Electromagnetic Fields (EMF) on cell structure and growth of Fenugreek
P26 091-280-32 T F	PlantSci	M Ian Tai & Amol Singh	Making Drought Resistant Plants: The Effect of Abscisic Acid on Fast
			Plants for Reducing Water Loss
P28 091-340-C1 A		M Vivek Kamarshi	Effect of Heat-Sensing Mutations on Voluntary Fevering in Drosophila melanogaster
Р30 091-370-Н1		M Frederick Nitta	Will Planarians Develop Tumors by UV Light?
P34 091-421-A1 E	BiocheMic	M Nishant Ravi	Determining the Efficacy of Ciprofloxacin Against E.Coli Alongside
			Microwave Radiation
		M Nathan Zhang	Effects of antibiotics on beneficial gut bacteria
P37 091-440-41 E	BiocheMic	M Shreyas Bharadwaj	The Effect of Varying Salinity on the Rate of Growth of Antibiotic
			Resistant E. Coli versus Non-Resistant E Coli.
Р38 091-450-Н1	BiocheMic	M Kevin Chandran	Effect of marshes or terresterial habitats on the percentage of insects
			that carry wolbachia bacteria in the bay area.
		M Michael Mao	The effect of acidity and antibiotics on E. coli.
P44 091-520-41 E	BioInfo	M Shriniketh Narayana	Effect of different pairings of prediction algorithms on accuracy of
			predicting the pathogenicity in missense mutations
		M Jaydev Bhateja	SCOMTzophrenia: Gene Expression and Schizophrenia
N45 091-590-A1 E	BioInfo	M Rohin Tangirala	The Effect of Ocean Temperature and Nutrients on Pseudo-nitzschia
			Harmful Algal Blooms and Domoic Acid
N43 091-630-91	∕ledHeaSci	M Ashwin Rammohan	Studying the Effects of Skin Puncture Level on Improving Steel
			Micro-needle Transdermal Drug Delivery
		M Jason Dong	Effect of Vagus Nerve Therapy on Treatment-Resistant Depression Patients
N39 091-680-61 N	∕ledHeaSci	M Aadithya Anumala	What is the Effect of Increasing CSF Flow, Adding Saline, and
			Removing Blood on Intracranial Pressure during an SAH?
N37 091-750-A1 E	BiomedEng	M Charlie Huang	Crystallization of Calcium Carbonate into Chitin in Penicillium
			Chrysogenum Cell Walls for Bone Repair and Prosthetics
N35 091-770-21 E	BiomedEng	M Sohil Pokharna	Affordable incubator leveraging thermal energy storage and Peltier
			devices for thermoregulation of neonatal preemies
		M Vishal Menon	The Effect of Chemicals on the Rate of Rusting
		M Rishi Parikh	Creating a Platform to Monitor and Improve the Air Quality in our Environment
N26 092-B70-42 T (CheEnvEng	M Justin Nguyen & Andrew Bykov & Kevin Tran	H.A.N.D Dispelling Acidity Through Ionic Neutralization

Note	Loc. Proj. Num. Tea	am Field G	Gender Students	Title
Reference Refe	N25 092-C11-21	EarEnvSci	M William Guo	Shade Balls: Conserving Caliornia's Water
Data and GIS Analysis Watch That Water! Investigating Daphnia Magna as a Biomarker to Monitor Water Toxicity N20 092-C50-51 EarEnvSci M Kevin Yang Does pore size affect the filtration of salts from the water? N27 092-C950-61 EarEnvSci M Kevin Yang Does pore size affect the filtration of salts from the water? N20 092-D20-91 PhysAstr M Krishnakumar Bhattaram The Use of Brospone Size affect the filtration of salts from the water? N20 092-D20-91 PhysAstr M Krishnakumar Bhattaram Mathematical Designing and Modelling of Cascadable NAND Gate for Surface Designing and Modelling of Cascadable NAND Gate of Surface Designing and Modelling of Cascadable NAND Gate of Surface Designing and Modelling of Cascadable NaND Gate Designing of Cascadable NanD Gate Designing Gate Designing Of Gate Designing Of Gate Designing Of Gate Designing Designing Designing Designing Designing Of Gate Designing Designing D	N23 092-C21-F1	EarEnvSci	M Edward Ross	Not Just for Shade: A New Look at Using Retractable Awnings for Thermal Control
Monitor Water Toxicity Monitor Water Toxicity Does pore size affect the filtration of salts from the water?	N22 092-C30-D1	EarEnvSci	M Ethan Jean	
No. 10 10 10 10 10 10 10 1	N21 092-C40-91	EarEnvSci	M Neeraj Senthil	
Mathematical Designing and Modelling of Cascadable NAND Gate for Surface Plasmon Polariton (SPP) Computing	N20 092-C50-51	EarEnvSci	M Kevin Yang	Does pore size affect the filtration of salts from the water?
for Surface Plasmon Polarition (SPP) Computing for Surface Plasmon Polarition (Pacification Polarition Polari	N17 092-C90-61	EarEnvSci	M Arjun Prabhakar	The Use of Biopolymers to Mitigate Soil Erosion
Note				for Surface Plasmon Polariton (SPP) Computing
N12 092-D50-B1	N14 092-D30-42	T PhysAstr	M Ayush Pancholy & Rithvik Panchapakesan	
Laser Etching of Graphene Oxide to Create High Energy Density Micro-Supercapacitors	N13 092-D40-11	PhysAstr	M Rustam Gandhi	The Effect of Temperature on the Junction Potential Difference of a Thermocouple
Micro-Supercapacitors Micro-Supercapacitor Micro-Supercapaci	N12 092-D50-E1	PhysAstr	M Joseph Shen	How to measure 3D objects in non-contacting and most efficient way?
that Detects for Pulse M11 092-E60-21 ElecEng M Naqib Khan Smart Shoes M12 092-E80-B1 ElecEng M Zade Lobo "Boddy-Guard" M14 092-F11-C1 MechEng M Victor Chen Robot Car Controlled Over Wifi As Home Anti-Theft System M15 092-F20-A1 MechEng M Kireeti Devarakonda NexGen Fire Sprinkler M16 092-F30-61 MechEng M Rick Bhattacharyya Shoes that motivate motion in people M17 092-F40-21 MechEng M Shiva Balachander Touchdown: Determining Ground Contact Using Changes in Aircraft Wheel Pressure M18 092-F50-F1 MechEng M Shiven Gupta R. I. P - Replace Infrared with an iPhone M20 092-F60-A2 T MechEng M Tzu Jui Wang & Ishaan Kavoori How the voltage correlates to the propulsion of an Aluminum Rod due to Electromagnetism M21 092-F70-71 MechEng M Avinash Subramanian The Flying Battery M22 092-G20-21 Math M Ameya Gaitonde Mixed Strategy Equilibrium in US Open Tennis Championships M23 092-G30-F1 Math M Vinayak Kumar What is the effect of UCL reconstruction surgery on a Major League Baseball pitcher's performance? M25 092-H20-B1 SoffEng M Ravi Bhatt Improved GPS Navigation By Learning Drivers' Routes and Preferences M26 092-H21-91 SoffEng M Marc Bacvanski CloudCard: Mobile Learning Tool with Open Cloud Back-End M27 092-H30-71 SoffEng M Adity Shah M Shashank Mahesh Event Based Programming Model for Raspberry Pi Applications M30 092-H31-51 SoffEng M Anik Gupta Hydroit: Smart water usage monitoring system using Image Processing and Pattern Recognition M31 092-H50-G1 SoffEng M Kaushik Hariharan IADS (Inflight Automatic Dispensing System) M32 092-H51-E1 SoffEng M Tarun Amarnath Hello Criminals! Meet Big Data: Applying Predictive Analytics and Machine Learning to Thwart Crime in San Francisco	N10 092-E40-A1	ElecEng	M Cameron Jones	
M12 092-E80-B1 ElecEng M Zade Lobo "Body-Guard" M14 092-F11-C1 MechEng M Victor Chen Robot Car Controlled Over Wifi As Home Anti-Theft System	M10 092-E50-61	ElecEng	,	that Detects for Pulse
M14 092-F11-C1 MechEng M Victor Chen Robot Car Controlled Over Wifi As Home Anti-Theft System M15 092-F20-A1 MechEng M Kireeti Devarakonda NexGen Fire Sprinkler M16 092-F30-61 MechEng M Rick Bhattacharyya Shoes that motivate motion in people M17 092-F40-21 MechEng M Shiva Balachander Touchdown: Determining Ground Contact Using Changes in Aircraft Wheel Pressure M18 092-F50-F1 MechEng M Shiven Gupta R. I. P - Replace Infrared with an iPhone M20 092-F60-A2 T MechEng M Tzu Jui Wang & Ishaan Kavoori How the voltage correlates to the propulsion of an Aluminum Rod due to Electromagnetism M21 092-F70-71 MechEng M Avinash Subramanian The Flying Battery M22 092-G20-21 Math M Ameya Gaitonde Mixed Strategy Equilibrium in US Open Tennis Championships M23 092-G30-F1 Math M Vinayak Kumar What is the effect of UCL reconstruction surgery on a Major League Baseball pitcher's performance? M25 092-H20-B1 SoftEng M Ravi Bhatt Improved GPS Navigation By Learning Drivers' Routes and Preferences M26 092-H31-91 SoftEng M Aditya Shah A Novel Machine Learning Classification/Predictive Algorithm Tool to Identify Attention Issues in Teenagers M28 092-H31-51 SoftEng M Anik Gupta Hydroit: Smart water usage monitoring system using Image Processing and Pattern Recognition Hello Criminals! Meet Big Data: Applying Predictive Analytics and Machine Learning to Thwart Crime in San Francisco	M11 092-E60-21	ElecEng	M Naqib Khan	Smart Shoes
Misco	M12 092-E80-B1	ElecEng	M Zade Lobo	"Body-Guard"
M16092-F30-61MechEngM Rick Bhattacharyyashoes that motivate motion in peopleM17092-F40-21MechEngM Shiva BalachanderTouchdown: Determining Ground Contact Using Changes in Aircraft Wheel PressureM18092-F50-F1MechEngM Shiven GuptaR. I. P - Replace Infrared with an iPhoneM20092-F60-A2 T MechEngM Tzu Jui Wang & Ishaan KavooriHow the voltage correlates to the propulsion of an Aluminum Rod due to ElectromagnetismM21092-F70-71MechEngM Avinash SubramanianThe Flying BatteryM22092-G20-21MathM Ameya GaitondeMixed Strategy Equilibrium in US Open Tennis ChampionshipsM23092-G30-F1MathM Vinayak KumarWhat is the effect of UCL reconstruction surgery on a Major League Baseball pitcher's performance?M25092-H20-B1SoftEngM Ravi BhattImproved GPS Navigation By Learning Drivers' Routes and PreferencesM26092-H21-91SoftEngM Marc BacvanskiCloudCard: Mobile Learning Tool with Open Cloud Back-EndM27092-H30-71SoftEngM Aditya ShahA Novel Machine Learning Classification/Predictive Algorithm Tool to Identify Attention Issues in TeenagersM28092-H31-51SoftEngM Shashank MaheshEvent Based Programming Model for Raspberry Pi ApplicationsM31092-H50-G1SoftEngM Kaushik HariharanHydroit: Smart water usage monitoring system using Image Processing and Pattern RecognitionM31092-H50-G1SoftEngM Kaushik HariharanIADS (Inflight Automatic Dispensing System)M32<	M14 092-F11-C1	MechEng	M Victor Chen	Robot Car Controlled Over Wifi As Home Anti-Theft System
M17092-F40-21MechEng M20M Shiva BalachanderTouchdown: Determining Ground Contact Using Changes in Aircraft Wheel PressureM18092-F50-F1MechEng M20M Shiven GuptaR. I. P - Replace Infrared with an iPhoneM20092-F60-A2T MechEng M Tzu Jui Wang & Ishaan KavooriHow the voltage correlates to the propulsion of an Aluminum Rod due to ElectromagnetismM21092-F70-71MechEng M Avinash SubramanianM Awinash SubramanianThe Flying BatteryM22092-G20-21Math M Ameya GaitondeMixed Strategy Equilibrium in US Open Tennis ChampionshipsM23092-G30-F1MathM Vinayak KumarWhat is the effect of UCL reconstruction surgery on a Major League Baseball pitcher's performance?M25092-H20-B1SoftEngM Ravi BhattImproved GPS Navigation By Learning Drivers' Routes and PreferencesM26092-H21-91SoftEngM Marc BacvanskiCloudCard: Mobile Learning Tool with Open Cloud Back-EndM27092-H30-71SoftEngM Aditya ShahA Novel Machine Learning Classification/Predictive Algorithm Tool to Identify Attention Issues in TeenagersM28092-H31-51SoftEngM Shashank MaheshEvent Based Programming Model for Raspberry Pi ApplicationsM30092-H41-11SoftEngM Anik GuptaHydroit: Smart water usage monitoring system using Image Processing and Pattern RecognitionM31092-H50-G1SoftEngM Kaushik HariharanIADS (Inflight Automatic Dispensing System)M32092-H51-E1SoftEngM Tarun AmarnathHello Criminals!	M15 092-F20-A1	MechEng	M Kireeti Devarakonda	NexGen Fire Sprinkler
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M20092-F60-A2T MechEngM Tzu Jui Wang & Ishaan KavooriHow the voltage correlates to the propulsion of an Aluminum Rod due to ElectromagnetismM21092-F70-71MechEngM Avinash SubramanianThe Flying BatteryM22092-G20-21MathM Ameya GaitondeMixed Strategy Equilibrium in US Open Tennis ChampionshipsM23092-G30-F1MathM Vinayak KumarWhat is the effect of UCL reconstruction surgery on a Major League Baseball pitcher's performance?M25092-H20-B1SoftEngM Ravi BhattImproved GPS Navigation By Learning Drivers' Routes and PreferencesM26092-H21-91SoftEngM Marc BacvanskiCloudCard: Mobile Learning Tool with Open Cloud Back-EndM27092-H30-71SoftEngM Aditya ShahA Novel Machine Learning Classification/Predictive Algorithm Tool to Identify Attention Issues in TeenagersM28092-H31-51SoftEngM Shashank MaheshEvent Based Programming Model for Raspberry Pi ApplicationsM30092-H41-11SoftEngM Anik GuptaHydroit: Smart water usage monitoring system using Image Processing and Pattern RecognitionM31092-H50-G1SoftEngM Kaushik HariharanIADS (Inflight Automatic Dispensing System)M32092-H51-E1SoftEngM Tarun AmarnathHello Criminals! Meet Big Data: Applying Predictive Analytics and Machine Learning to Thwart Crime in San Francisco	M17 092-F40-21	MechEng	M Shiva Balachander	Touchdown: Determining Ground Contact Using Changes in Aircraft Wheel Pressure
due to ElectromagnetismM21 092-F70-71MechEngM Avinash SubramanianThe Flying BatteryM22 092-G20-21MathM Ameya GaitondeMixed Strategy Equilibrium in US Open Tennis ChampionshipsM23 092-G30-F1MathM Vinayak KumarWhat is the effect of UCL reconstruction surgery on a Major League Baseball pitcher's performance?M25 092-H20-B1SoftEngM Ravi BhattImproved GPS Navigation By Learning Drivers' Routes and PreferencesM26 092-H21-91SoftEngM Marc BacvanskiCloudCard: Mobile Learning Tool with Open Cloud Back-EndM27 092-H30-71SoftEngM Aditya ShahA Novel Machine Learning Classification/Predictive Algorithm Tool to Identify Attention Issues in TeenagersM28 092-H31-51SoftEngM Shashank MaheshEvent Based Programming Model for Raspberry Pi ApplicationsM30 092-H41-11SoftEngM Anik GuptaHydroit: Smart water usage monitoring system using Image Processing and Pattern RecognitionM31 092-H50-G1SoftEngM Kaushik HariharanIADS (Inflight Automatic Dispensing System)M32 092-H51-E1SoftEngM Tarun AmarnathHello Criminals! Meet Big Data: Applying Predictive Analytics and Machine Learning to Thwart Crime in San Francisco	M18 092-F50-F1	MechEng	M Shiven Gupta	R. I. P - Replace Infrared with an iPhone
M21092-F70-71MechEngM Avinash SubramanianThe Flying BatteryM22092-G20-21MathM Ameya GaitondeMixed Strategy Equilibrium in US Open Tennis ChampionshipsM23092-G30-F1MathM Vinayak KumarWhat is the effect of UCL reconstruction surgery on a Major League Baseball pitcher's performance?M25092-H20-B1SoftEngM Ravi BhattImproved GPS Navigation By Learning Drivers' Routes and PreferencesM26092-H21-91SoftEngM Marc BacvanskiCloudCard: Mobile Learning Tool with Open Cloud Back-EndM27092-H30-71SoftEngM Aditya ShahA Novel Machine Learning Classification/Predictive Algorithm Tool to Identify Attention Issues in TeenagersM28092-H31-51SoftEngM Shashank MaheshEvent Based Programming Model for Raspberry Pi ApplicationsM30092-H41-11SoftEngM Anik GuptaHydroit: Smart water usage monitoring system using Image Processing and Pattern RecognitionM31092-H50-G1SoftEngM Kaushik HariharanIADS (Inflight Automatic Dispensing System)M32092-H51-E1SoftEngM Tarun AmarnathHello Criminals! Meet Big Data: Applying Predictive Analytics and Machine Learning to Thwart Crime in San Francisco	M20 092-F60-A2	T MechEng	M Tzu Jui Wang & Ishaan Kavoori	
M22092-G20-21MathM Ameya GaitondeMixed Strategy Equilibrium in US Open Tennis ChampionshipsM23092-G30-F1MathM Vinayak KumarWhat is the effect of UCL reconstruction surgery on a Major League Baseball pitcher's performance?M25092-H20-B1SoftEngM Ravi BhattImproved GPS Navigation By Learning Drivers' Routes and PreferencesM26092-H21-91SoftEngM Marc BacvanskiCloudCard: Mobile Learning Tool with Open Cloud Back-EndM27092-H30-71SoftEngM Aditya ShahA Novel Machine Learning Classification/Predictive Algorithm Tool to Identify Attention Issues in TeenagersM28092-H31-51SoftEngM Shashank MaheshEvent Based Programming Model for Raspberry Pi ApplicationsM30092-H41-11SoftEngM Anik GuptaHydroit: Smart water usage monitoring system using Image Processing and Pattern RecognitionM31092-H50-G1SoftEngM Kaushik HariharanIADS (Inflight Automatic Dispensing System)M32092-H51-E1SoftEngM Tarun AmarnathHello Criminals! Meet Big Data: Applying Predictive Analytics and Machine Learning to Thwart Crime in San Francisco	M21 092-F70-71	MechEng	M Avinash Subramanian	
M23 092-G30-F1 Math M Vinayak Kumar What is the effect of UCL reconstruction surgery on a Major League Baseball pitcher's performance? M25 092-H20-B1 SoftEng M Ravi Bhatt Improved GPS Navigation By Learning Drivers' Routes and Preferences M26 092-H21-91 SoftEng M Marc Bacvanski CloudCard: Mobile Learning Tool with Open Cloud Back-End M27 092-H30-71 SoftEng M Aditya Shah A Novel Machine Learning Classification/Predictive Algorithm Tool to Identify Attention Issues in Teenagers M28 092-H31-51 SoftEng M Shashank Mahesh Event Based Programming Model for Raspberry Pi Applications M30 092-H41-11 SoftEng M Anik Gupta Hydroit: Smart water usage monitoring system using Image Processing and Pattern Recognition M31 092-H50-G1 SoftEng M Kaushik Hariharan IADS (Inflight Automatic Dispensing System) M32 092-H51-E1 SoftEng M Tarun Amarnath Hello Criminals! Meet Big Data: Applying Predictive Analytics and Machine Learning to Thwart Crime in San Francisco	M22 092-G20-21	Math		
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M26 092-H21-91 SoftEng M Marc Bacvanski CloudCard: Mobile Learning Tool with Open Cloud Back-End M27 092-H30-71 SoftEng M Aditya Shah A Novel Machine Learning Classification/Predictive Algorithm Tool to Identify Attention Issues in Teenagers M28 092-H31-51 SoftEng M Shashank Mahesh Event Based Programming Model for Raspberry Pi Applications M30 092-H41-11 SoftEng M Anik Gupta Hydroit: Smart water usage monitoring system using Image Processing and Pattern Recognition M31 092-H50-G1 SoftEng M Kaushik Hariharan IADS (Inflight Automatic Dispensing System) M32 092-H51-E1 SoftEng M Tarun Amarnath Hello Criminals! Meet Big Data: Applying Predictive Analytics and Machine Learning to Thwart Crime in San Francisco	M25 092-H20-B1	SoftEna	M Ravi Bhatt	
M27 092-H30-71 SoftEng M Aditya Shah M28 092-H31-51 SoftEng M Shashank Mahesh M30 092-H41-11 SoftEng M Anik Gupta M31 092-H50-G1 SoftEng M Kaushik Hariharan M32 092-H51-E1 SoftEng M Tarun Amarnath M Tarun Amarnath A Novel Machine Learning Classification/Predictive Algorithm Tool to Identify Attention Issues in Teenagers Event Based Programming Model for Raspberry Pi Applications Hydroit: Smart water usage monitoring system using Image Processing and Pattern Recognition IADS (Inflight Automatic Dispensing System) Hello Criminals! Meet Big Data: Applying Predictive Analytics and Machine Learning to Thwart Crime in San Francisco				
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M30 092-H41-11 SoftEng M Anik Gupta Hydroit: Smart water usage monitoring system using Image Processing and Pattern Recognition M31 092-H50-G1 SoftEng M Kaushik Hariharan IADS (Inflight Automatic Dispensing System) M32 092-H51-E1 SoftEng M Tarun Amarnath Hello Criminals! Meet Big Data: Applying Predictive Analytics and Machine Learning to Thwart Crime in San Francisco	M28 092-H31-51	SoftEng	M. Shashank Mahesh	
Processing and Pattern Recognition M31 092-H50-G1 SoftEng M Kaushik Hariharan M32 092-H51-E1 SoftEng M Tarun Amarnath Hello Criminals! Meet Big Data: Applying Predictive Analytics and Machine Learning to Thwart Crime in San Francisco				
M32 092-H51-E1 SoftEng M Tarun Amarnath Hello Criminals! Meet Big Data: Applying Predictive Analytics and Machine Learning to Thwart Crime in San Francisco				Processing and Pattern Recognition
Machine Learning to Thwart Crime in San Francisco				
M33 092-H60-C1 SoftEng M Ranesh Prasad High School Organizer App for Students	M32 092-H51-E1	SoftEng	M Tarun Amarnath	
	M33 092-H60-C1	SoftEng	M Ranesh Prasad	High School Organizer App for Students

Loc. Proj. Num. Te	am Field G	end	er Students	Title
M34 092-H70-81	SoftEng	М	Karl Goeltner	Wearable Fitness Tracker to Improve Exercise Patterns
M35 092-H71-61	SoftEng	М	Mihir Borkar	What Is The Best Algorithm To Solve A Sudoku Puzzle?
M36 092-H80-41	SoftEng	М	Gaurav Vipat	Improving the detection of facial key points to improve facial recognition software.
M37 092-H81-21	SoftEng	М	Tejes Srivastava	Adaptive Traffic Lights to Reduce Traffic Congestion
М38 092-Н90-Н1	SoftEng	M	Siddharth Mahesh	Devising a Parallel Maze-solving Algorithm
M40 093-330-H2	T AnimalSci	М	Kaushik Shivakumar & Alexander Young	The Effects of Simulated Microgravity on Planarian Regeneration and
			_	the Use of Resolvin to Negate Them
M41 093-420-E1	BiocheMic	М	Kiran Rachamallu	The Effect of Increasing Voltage on Vapor from e-Cigarettes.
M44 093-520-52	T BioInfo	М	Ayush Alag & Shray Alag	Identifying the Genetic Mutations Associated with Food Allergy
M46 093-620-E2	T MedHeaSci	М	Anjay Saklecha & Krish Kapadia	The Use of Salivary Lactic Acid Levels as a Noninvasive Biomarker for Sepsis
L45 093-720-71	BiomedEng	М	Keval Shah	Developing a Bionic Pancreas
L44 093-730-31	BiomedEng	М	Rishab Yeddula	X-Porta: A Novel Low-Cost, Portable Radiologic Diagnostics Suite
L43 093-740-F2	T BiomedEng	М	Joseph Li & Michael Zhang	Nanoparticle DNA selection in preparation for DNA sequencing
L42 094-E20-31	ElecEng		Brian Ng	Autonomous Stress Detection using Electromyography
L41 101-110-91	BehavSci	М	Jackson Verheyden	Does Lighting Effect Student Focus?
L38 101-130-H2	T BehavSci	М	Justin Xie & Michael Kwan	Analyzing the result of the network effect on the similarities of product reviews
L37 101-140-E1	BehavSci	M	Shreyas Chandrashekaran	The effect of age on human thinking processes
L33 101-230-92	T PlantSci	M	Aalaap Patel & Philllip Ta	Effects of Varying lengths of Microwave Radiation on Radishes
L32 101-240-61	PlantSci	M	Naren Yenuganti	Improving Plant Cell Efficiency via Usage of Abscisic Acid
L27 101-320-61	AnimalSci	М	Hubert Le	AntMAZING
L26 101-330-21	AnimalSci	М	David Wen	How to apply slime mold's movements to solve real world problems
L24 101-411-H1	BiocheMic		Jonathan Tang	The use of a repressor enzyme as an antibacterial treatment
L18 101-480-81	BiocheMic	М	Manav Shah	IBD and Colorectal Cancer: Limiting E. Coli Colon Dominance During
				Intestinal Dysbiosis with a Human Gut Inflamed Model
L16 101-510-B1	BioInfo	М	Adrian Chu	Evaluate how FOXP3 and other T regulatory cell marker expression
				in tumors correlates with survival via cBioportal.org
L15 101-511-91	BioInfo	М	Rohan Koodli	Applying Machine Learning to Study Influenza Virus Behavior
L13 101-521-51	BioInfo	М	Vikranth Srivatsa	Data Driven Analytics for Healthcare in the Third World
L12 101-530-31	BioInfo	М	Utkarsh Tandon	Diabetic Retinopathy Prognosis via Hypertensive Modeling:ML-based
				Morphological Computer Vision for Rapid Ophthalmology
L11 101-540-G1	BioInfo	М	Sushant Thyagaraj	Analysis of Microarray-Based Expression Profiling for Duchenne Muscular Dystrophy
K10 101-541-D2	T BioInfo	M	Christopher He & Michael Wan & William Hsu	Predicting Influenza A Virulence from Phenotypic Marker
				Combinations Using Machine Learning
K12 101-551-A1	BioInfo	М	Advith Gopinath	The Voice of Alzheimer's: An App That Can Diagnose Alzheimer's Disease
K13 101-560-81	BioInfo	М	Neeraj Aggarwal	Using Exploratory Data Analysis to Identify Single Nucleotide
				Polymorphism in Syndromic Genes Correlated to Autism
K16 101-590-D1	BioInfo	M	Shaya Zarkesh	A Novel Distance Measure for Gene Sequence Clustering with
				Applications in Tree Construction and HIV-1 Classification
K24 101-690-51	MedHeaSci	M	Brian Chen	A Novel Framework for Assessing Alzheimer's Risk from Genes and
				Lifestyle Using Adaptive Multilayer Neural Networks
K25 101-710-C1	BiomedEng	М	Vinay Senthil	A Robotic Prosthetic with Touch and Temperature Feedback
				

Loc. Proj. Num. Tea	am Field Go	ender	Students	Title
K26 101-720-81	BiomedEng	M F	Rajiv Movva	Concussion Detection: A Deep Learning-Assisted System to Detect
				Mild Traumatic Brain Injuries in Sports
K27 101-730-41	BiomedEng	M N	Maxwell Chen	On the Exploration of Ultrasound as a Nerve Block
K28 101-740-H1	BiomedEng	M I	Ishaan Das	BestBandage
K30 102-A10-52	T Chemistry	M N	Neelesh Ramachandran & Sumer Kohli	Towards Quicker Rehabilitation for Smokers: Determining a
				Mechanism By Which Menthol increases Addiction to Nicotine
K31 102-A20-12	T Chemistry	M \	Vivek Naveen & Jwalin Joshi	Biofuel Emissions-Water Used and GHG's
K32 102-B10-F1	CheEnvEng	M S	Shomil Jain	Developing an Artificial Turf Field with Embedded Thermoelectric
				Generators for Heat Absorption & Electricity Generation
K34 102-B21-91	CheEnvEng	MJ	Jonathan Li	What is the most cost effective and practical method of dissolving
				active oxygen in unsafe drinking water.
K35 102-B30-71	CheEnvEng	М	Derek Yen	Comparing the viability of different plant materials for the creation of
				cellulose-derived biofuel
K42 102-C40-B2	T EarEnvSci	M A	Andrew Li & Robert Yang & Matthew Zhou	The effects of different transition metal ions on carbon fixation and
				silica content of Thalassiosira Pseudonana Diatom
K45 102-C60-32	T EarEnvSci	M E	Eashant Thusoo & Arnav Jain & Rubalpreet Mavi	How do Salinity and Temperature gradients affect the spreading rate
				of an Oleic Acid Solution via Langmuir's technique?
K46 102-D10-G1	PhysAstr	M E	Eduardo Perez	Micrometeorites: Using Household Tools to Construct a Collection Device
K47 102-D20-C1	PhysAstr	M A	Angel Medina	What is the effect of changing the shape and structure of a heat sink
				on its ability to cool parts of a computer?
J45 102-D50-H1	PhysAstr		Vikram Miryala	Optimizing Piezo-Electric Energy Harvesting on a Cantilever
J42 102-D70-82			Francis Indaheng & Leighton Pu	How Does Sugar Concentration Affect Laser Refraction
J40 102-E11-61	ElecEng	M A	Atul Raghunathan	Recovering and recycling excess thermal energy to improve the net
				efficiency of common lighting sources.
J39 102-E21-12			Allen Cheung & David Hoang	Gravity Wheel Electric Generator: Harnessing Free Energy from Ocean Waves
J37 102-E31-F1	ElecEng		Gautham Reddy Gujjula	Cooking Fire Prevention System
J35 102-E40-C2			Sahith Arikati & Aditya Mehta & Ankur Chadha	Personal Energy Assistant
J34 102-E50-91	ElecEng		Yash Lala	Electroactive Polymer Based Braille Display
J32 102-E70-11	ElecEng	M N	Mark Shacker	EchoView: A Device to Supplement the Visually Impaired's Ability to
				Detect Incoming Objects
J30 102-E80-D2	T ElecEng	ΜN	Mokshith Voodarla & Venkata Raja Sriharsha Guduguntla	Improving Body Posture through a Light, Flexible Back-Strap System
				with Real-Time Smartphone Microcontroller Monitoring
J29 102-F10-H1	MechEng		Luke Stewart	Acoustic Resonance in Aqueous Contaminant Removal
J28 102-F11-E2	T MechEng	M /	Adiyan Kaul & Sohan Vichare	Hawkeye:Unmanned Search and Rescue Missions through Intelligent
				Drones Guided by Computer Vision and Dynamic Pathfinding
J24 102-F30-91	MechEng	M S	Scott Bout	Novel Wing Design That Creates Proverse Yaw Without The Use Of
				Rudders Or A Vertical Stabilizer
J21 102-F50-11	MechEng		Kyle Ettinger	Multiroter Disabling Technology
J19 102-F70-A1	MechEng		Victor Zhu	Use of Conjugated Organic Dyes in DSSCs
J17 102-F90-21	MechEng		Abhinav Naikawadi	Developing a Self-Sustainable Aircraft Propelled by the Magnus Effect
J14 102-H12-E1	SoftEng	M N	Nikhil Ajjarapu	A Novel Algorithm to Predict the Expenses of a Natural Disaster

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Loc.	Proj. Num. Tea	am Field (Gend	er Students	Title
					based on Geographic Features
J11	102-H21-C1	SoftEng	М	Ryan Lee	Testing the randomness of computer-generated random numbers
J10	102-H22-A1	SoftEng	М	Jasper Huang	Auditory Analysis of Gait and Footstep Patterns as a Novel Method of Biometrics
H11	102-н31-72	Γ SoftEng	М	Kevin Palani & Matthew Pham & Abdul-Basit Ali	Remote Traffic Notifier
H12	102-Н32-61	SoftEng	М	Tejasvi Kothapalli	Home Energy Conservation Using The Internet of Things and a
		_			Machine Learning Algorithm Based on a Clustering Model
Н16	102-H42-21	SoftEng	М	Surya Auroprem	Designing and implementing a software for reliable authentication
					using public password scheme with customizable obfusc
H18	102-Н51-Н1	SoftEng	М	Nikash Khanna	Are you in Pain? Detecting pain from facial images using different
					machine learning classification algorithms.
H19	102-H52-F1	SoftEng	М	Shadaj Laddad	A Machine Learning Algorithm for Classification of Discrete Series
					through Markov Chain Models
H21	102-H60-E2			Jonathan Yu & Dylan Tran & Kevin Keechempallil	20-20-20 Eye Relaxer
H23	102-Н62-В1	SoftEng		Avinash Jain	Crimson - A Service Revolutionizing Online Reading through Audio and Voice Control
Н25	102-Н72-71	SoftEng		Druv Pai	A Pragmatic, Zero Knowledge E-Commerce Payment Framework
H27	102-Н81-51	SoftEng	М	Karthik Ramachandran	Overdose Watch: Tracking Medicine Consumption and Drug
					Interactions using NFC tags and NIH databases
H28	102-Н82-31	SoftEng	М	Abhinav Nimbalkar	Can an application change the usage of water?
H29	102-Н90-31	SoftEng		Arjun Subramonian	A New Software Approach to Music Transposition through Image Processing
Н30	102-Н91-11	SoftEng	М	Ashwin Nathan	Evaluating Which Heuristic Algorithm (Genetic vs. Monte Carlo
					Simulation) Is Better At Predicting Stock Performance
Н31	102-H92-G1	SoftEng	М	Aaron Lopes	How Does Crowdsourcing and Social Media Influence a Targeted Audience?
Н33	103-410-41	BiocheMic	М	Eric Hooton	A Study on the Effects of Papaya Extract on Breast Cancer
Н34	103-430-D1	BiocheMic	М	Advait Patil	Towards Self-Assembled Artificial Cells: Design of a
					Self-Reproducing Phospholipid Vesicle System
Н36	103-450-51	BiocheMic	М	Paarth Sharma	Does the flask matter to Viable cell density, Incubation time for cell
					growth and Antibody production in CHO cells?
Н38	103-530-51	BioInfo	М	Aayush Gupta	A Novel Machine Learning Method to Model Prescription Drugs via
					Proteomic Signatures for Minimal Polydrug Toxicity
Н43	103-660-21	MedHeaSc		Usok (Joseph) Cho	Targeting Angiogenesis with Moringa oleifera Extract to Treat CRC Adenocarcinoma
	111-140-F2			Blair Chen & Eric Chen	Iterated Prisoner's Dilemma System
	111-450-42			Benjamin Huynh & Dong Nghi Nguyen	What is the effect of the protein digestion activity on GMO foods?
G25	111-470-D2 -			James Qin & Henry Zhang	The Effects of Exercise Hormone(s) on Telomerase Activity
G24	111-480-A1	BiocheMic	М	Jay Paranjpe	The Identification of Epigenetic Factors that Influence Hydrogenase
					Synthesis in the Alga Chlamydomonas Reinhardtii
G21	111-520-91	BioInfo	M	Gautam Prabhu	Predicting Evolution of Resistance Mutations to NRTI Drugs in HIV-1
					Using Computational and Statistical Methods
G20	111-521-71	BioInfo	M	Varun Venkatesh	Improving the Performance of Sequence-Based Machine Learning
					Prediction of Catalytic Residues in Protein Families
G18	111-530-42	ΓBioInfo	M	Nathan Wong & Mahesh Murag	NGSomics (Next Generation Sequencing Gen-omics): Parallelized,
					Intuitive Automated NGS Pipeline and Drug Correlations

Loc. Proj. Num. Te	am Field G	ende	er Students	Title
G15 111-541-G1	BioInfo	М	Soham Pardeshi	A Machine-Learning Approach to Computational Genomics
G14 111-550-D2	T BioInfo	М	Raymond Xu & Shasvat Jawahar	Using Deep Learning Techniques to Evaluate the Effectiveness of Drug Combinations.
G13 111-551-C1	BioInfo	М	Rahul Uppuluri	Relationship Between Mutations in the PDK Butyrate-Regulated Genes and Human Gut Illnesses
G11 111-570-61	BioInfo	М	Pravin Ravishanker	ALZCan 2.0: Further Uncovering Genetic Hallmarks of Alzheimer's Using Structural, Functional, and Molecular Neuroimaging
G10 111-580-21	BioInfo	М	Nikhil Manglik	Developing a Predictive Model of Varicella Zoster Virus Spread for the Near Future
F13 111-710-E1	BiomedEng		Vardhaan Ambati	Therapeutic Using Quantum Dots, Aptamers, and Endonucleases: Applicable to Tumor Heterogeneity and Mutating Viruses
F14 111-730-61	BiomedEng	М	Anish Seshadri	Wearable Diagnostic Instrument for AGE Correlated Degenerative Diseases
F15 111-740-21	BiomedEng	М	Thomas Thach	The Ace of Hearts: Engineering an Artificial Tricuspid Valve to Minimize Regurgitation
F18 111-760-B1	BiomedEng	М	Ganesh Valliappan	CFID: A Novel Machine Learning Algorithm Tool to Identify Cystic Fibrosis
F22 112-A30-H1	Chemistry	М	Sam Vuong	Solubility of 3-Pentadecylphenol in Different Solvents
F23 112-B10-H1	CheEnvEng	М	Talal Sohail	Manipulating Solar Panels to Accumulate and Supply Rainwater in a Green Roof System
F24 112-B20-D1	CheEnvEng	М	Bennett Ngan	A Solar Thermoelectric Generator Utilizing a Phase Change Thermal Battery
F26 112-B50-11			Akaash Tawade	Using Electromagnetism to Reduce the Viscosity of Crude Oil for Increased Velocity During Transport
F31 112-C40-E1	EarEnvSci	М	Hoaian Dang	What is the Optimal Ratio of Sand and Chalk for Producing a Stable Arch?
F32 112-C50-A1	EarEnvSci	М	Neelay Junnarkar	Mathematical Model and Computer Simulation of Plant Distribution in Response to Water Level Change in Baylands Ecosystem
F33 112-C60-52	T EarEnvSci	М	Bradley Seamons & Jinwoo Park	Mission: Save California
F34 112-C70-21	EarEnvSci	М	Gajan Nagaraj	Water: Drought or Deluge
F35 112-D10-11	PhysAstr	М	Matthew Hase-Liu	Improving the Efficiency of a Mass Driver with the Use of Nonuniform Coil Density and Current Reversal via H-bridges
F41 112-D60-F1	PhysAstr	М	Avinash Rao	The Effects of the Composition of Emission Nebulae on their Level of Star Formation
F42 112-E10-A1	ElecEng	М	Zohair Ahmed	Creating a Pest Control Device for Plants using Electromagnetic Fields
F43 112-E20-61	ElecEng	М	Anish Krishnan	Gasping Grizzly: An Innovative Cost-Efficient System to Detect the Scent of Lung Cancer and Diabetes.
F45 112-E30-12	T ElecEng	М	Klemen Kotar & Omeed Askary	The Implementation of Graphene Based RFID Chips Into Clothing
F46 112-E40-F1	ElecEng	М	Ali Boubezari	A Smart Diagnosis and Self-Repairing Method for PV Systems Using Cloud Monitoring
E47 112-F20-F1	MechEng	М	Eric Wang	An Ungrounded Handheld Kinesthetic Haptic Device Utilizing Gyroscopic Precession
E46 112-F30-B1	MechEng		Eric Fu	Kite Runner for Improving Vehicle Fuel Efficiency
E45 112-F40-71	MechEng	М	Shaunak Modak	A Novel Method for Diagnosing Mechanical Component Failure using Sound
E44 112-F50-31	MechEng	М	Louis Nguyen	Alternating-scale like structure
E40 112-G10-A2	T Math	М	Steven Liu & Andrew Yeh	The Mathematical Modeling of Conformational, Vibrational, and Configurational Entropy from Protein Side Chain Folding
E39 112-G20-71	Math	М	Aditya Dhar	Predicting and Identifying Forced Human Displacement Hotspots Using Multiple Linear Regression and Neural Networks

Loc.	Proj. Num. Tea	ım Field G	end	er Students	Title
	12-H11-11	SoftEng	M	Biswadeep Chatterjee	Optimizing a Decision Tree to Build a Classification Model in Apache Spark
E36 1	12-H21-E1	SoftEng	М	Sritam Mishra	Effectively Preventing Seizures Triggered by Photosensitive Epilepsy
					through an Efficient Computer Algorithm
E34 1	12-н30-в2 Т	SoftEng	М	Akul Gupta & Himanshu Gautam	An Al system that integrates facial recognition with social networking platforms
E33 1	12-H31-A1	SoftEng	М	Kaushik Tandon	H.A.W.K. Machine Learning Algorithm for Hate Speech Detection
E31 1	12-H41-61	SoftEng	М	Ritwik Dixit	Designing a Secure 3D Graphical Password Scheme
E30 1	12-H50-41	SoftEng	М	Chaitanya Manchikanti	A different approach for detecting early onsets of Parkinson's Disease.
E29 1	12-Н51-21	SoftEng		Alan Chen	Uniquely Determining Identity Using Computer-based Analysis Of Human Speech
E27 1	.12-н61-Е2 Т	SoftEng	М	Thomas Tromp & Wesley Chen	Sixth Sense
E26 1	12-H70-D1	SoftEng		Rishi Desai	Using Bluetooth Trilateration for Robot Navigation
E23 1	.12-H80-82 Т	SoftEng	М	Nilay Sawant & Anirudh Balasubramaniam	Parking Genie: A computer vision application that expedites the
					parking experience through dynamic image differentiation
E22 1	12-Н90-51	SoftEng	М	Anurag Singh	Wearable Device to Enable Independent Living for Senior Citizens
E21 1	.13-310-E1	AnimalSci	М	Vikram Venkatram	Sexual dimorphism in craniodental morphology of southern sea otters
					(Enhydra lutris nereis)
E19 1	.13-440-B1	BiocheMic	М	Venkat Sankar	Efficient Generation of Induced Neuronal Cells from Fibroblasts:
					Towards a Cure for Neurodegenerative Diseases
E14 1	13-490-81	BiocheMic		Pranav Lalgudi	Identification of Transdifferentiation Regulating Genes in Caenorhabditis elegans
E12 1	.13-510-E2 T	BioInfo	М	Parth Pendurkar & Aashish Jain	Optimizing Existing Models of RNA Sequence Data Analysis: A Novel
					Infrastructure to Advance the Timeline of Current Meth
E11 1	.13-511-D1	BioInfo		Antony Sagayaraj	Investigating Thermal Adaptations Through Protein Stability in Sea Urchins
D13 1	.13-540-31	BioInfo		Suresh Talapaneni	Discovering novel gene expressions in noncoding regions of DNA using RNA-seq
D14 1	.13-550-G1	BioInfo	М	Nikhil Cheerla	MicroRNA based Pan-Cancer Diagnosis and Treatment Recommendation
D16 1	.13-570-81	BioInfo	M	Aman Navani	Global Health Challenge: A Statistical Machine Learning Method for
					Health Risk Assessment
D17 1	.13-580-41	BioInfo		Sajeev Saluja	Computational analysis of Als3 amyloid-like aggregation in Candida albicans
D21 1	.13-640-C1			Krishna Sunder	The effect of ARHGAP28 on human airway smooth muscle contraction
D23 1	.13-710-G1	BiomedEng	M	Arvind Sridhar	Engineering Low-Cost Scaffolds Doped with Nano Graphene Oxide: A Novel
					Approach to Cancer Therapy and Tissue Engineering
	.13-730-81	BiomedEng			Development of a Novel Microfluidic System to Study Neurodegenerative Disorders
D30 1	.14-D30-B2 Т	PhysAstr	M	Shishir Dholakia & Shashank Dholakia	A Search and Exploration of Multi-Exoplanet Systems Using Novel
					Photometric and TTV Algorithms for the K2 Mission
D33 1	14-H10-42 T			Vedaad Shakib & Andrew Tierno	Computer Simulation of Free-Surface Fluid Flow using MPS
D34 1	14-H30-E1	SoftEng		Allen Chen	A Novel Method of Paraphrase Identification in Natural Language Processing
D35 1	14-H40-A1	SoftEng		Kushagro Bhattacharjee	SensePoint: Helping Blind and Visually Impaired Students Learn
	14-Н60-21	SoftEng		Kartik Chandra	Verification of Type Systems with Symbolic Execution
D39 1	.14-H70-E2 Т	SoftEng	M	Rishab Gargeya & Manan Shah	Automated Diagnosis of Diabetic Retinopathy in Fundus Images: A Novel
					Synthesis of Biological and Data Driven Approaches
D40 1	.21-110-C2 T	BehavSci	M	Luke Hong & Ali-Asghar Heera	The Race to Finish: An Inquiry on how the Human Mind Perceives
					Merging versus Splitting
D41 1	21-120-91	BehavSci	M	Ryan Le	The Effect of Variable Schedules of Reinforcement on Response

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Loc.	Proj. Num. Te	am Field (end	er Students	Title
	-				Rate in Video Games
D42	121-210-51	PlantSci		Kevin Ly	The Bacterial Resistance of Elicited Phytoalexins in Arabidopsis
C47	121-330-52	T AnimalSci	M	Joshua Bevis & Nathan Chang	The effect of Titanium Dioxide and Humic acid on the embryonic
					development of zebrafish
C35	121-520-A2			Homza Hireed & Luis Gaitan	Factors in the Epidemiology of Airborne Transmission
C32	121-710-G1	BiomedEng	М	Mason Julian	Fabricating an LED Based Phototherapy Device for Treatment of
					Neonatal Hyperbilirubinemia
C30	122-A30-21	Chemistry	M	Mikhail Boulgakov	The Effect of Metal Ions and Carbon Derivatives in the Titanium
					Dioxide Layer of Dye-Sensitized Solar Cells
C29	122-B10-21			Reid Barton	Perovskite Crystals: A Bright Future in Solar Cell Technology
C19	122-D20-G1	PhysAstr		John Browne	Durable Paint
C10	122-E40-H1	ElecEng	M	Paul Dennig	Utilizing Supercapacitors in Improving State-of-Health of Batteries
					over Time in Electric Vehicles
	122-F10-41	MechEng		Adesh Kumar	Can we make 3D prints stronger?
В13	122-F20-G2	T MechEng	M	Ken Ma & David Chau & James Nguyen	"Watt's Up" with Watt Balances: Engineering the Redefinition of the
					International Prototype Kilogram
B14	122-F30-D1	MechEng		Kevin Sanchez	How much force is needed to run on water?
B18	122-H10-51	SoftEng	M	Shomik Jain	WaterMind: An Algorithm-Based iOS Application That Determines
					and Monitors Your Daily Water Intake
B19	122-H11-31	SoftEng	M	Justin Yang	Generating Efficiency Models of Energy Consumption with Machine
					Learning Algorithms
	122-H21-F2			Kevin Guillen & Issac Sebastian	Wireless Ad Hoc Communication Algorithm
	122-H30-E1	SoftEng		Sanjay Mohan	Application of Artificial Neural Networks in Handwritten Text Processing
	122-Н31-В2			Kenneth Doan & Arman Amjad & Garrett Davies	Improving the white cane for the blind
	122-H41-72			Sammy Khadder & Tony Jojan & Luis Gallegos	Water Displacement App
	122-H80-B1	SoftEng		Nathaniel Stearns	Money Laundering Detection and Analysis (MLDA)
	123-210-71	PlantSci		Nathan Mallipeddi	Investigating the Role of the Circadian Clock in Heliotropism
	123-520-D1	BioInfo		Jonathan Ma	Genomics-Based Cancer Drug Response Prediction through the Adaptive Elastic Net
B41	123-540-42	T BioInfo	M	Rishi Veerapaneni & Arjun Subramaniam	AdaptSet: A Novel Synthesis of Deep Learning and Level Set for
					Segmentation of Cancer Lesions
	123-550-11	BioInfo		Daniel Guo	Analysis of Heterochiasmy and Recombination Rates in Gibbons
B44	123-620-51	MedHeaSci	M	Anin Sayana	Accelerating Cancer Immunotherapy: Optimization of an EGFRvIII-based
					Cancer Vaccine via Computationally-aided Analysis o
	123-710-11			Shreyan Jain	Feedback of Respiratory Patterns to Improve Non-Sedated Pediatric MRI
	124-G10-F1	Math		Timothy Varghese	The Growth of Lowest Goldbach Primes
A44	124-Н10-62	T SoftEng	M	Xavier Loinaz & Antoine Nguyen	The Design/Utilization of Visual Recognition Software to Analyze Neurosurgery Video