Synopsys Championship 2016
All Accepted Projects

Lower Division, Grades 6-8   **Upper Division, Grades 9-12**

This page is a large seating/placement grid map organizing project numbers into lettered rows (A through P) and numbered columns. The contents are arranged as dense tables of cell identifiers (e.g., P87, N87, M87, L87, K87, J87, H87, G87, F87, E87, D87, C87, B87, A87, etc.) for the Lower Division on the left and the Upper Division on the right.

Judges →

Synopsys Championship 2016
Master Project List

Loc.	Proj. Num.	Team	Field	Gender	Students	Title
P50	061-110-H1		BehavSci	M	Krish Prasad	The Effect of Different Distractions on Driving
P52	061-120-C2	T	BehavSci	F	Talia Bodner & Dana Toussieh	Matching speaking voices to the photos of the people who possess them.
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
P55	061-140-42	T	BehavSci	F	Rachelle Lang & Talia Litvin	Does playing Crossy Road affect the ability of 6th grade students to remember simple words?
P56	061-150-H2	T	BehavSci	F	Brianna Chavez & Maria Rojas Buatista	Does Gender Affect Color Preference
P57	061-160-E1		BehavSci	F	Mattie Schoepe	Color To Vision
P59	061-170-92	T	BehavSci	F	Daniela Zamora & Yasmin JImenez	Keep Calm And Chew Gum
P60	061-180-61		BehavSci	M	Jedd Joshua Miguel	Old School Music and Fitness
P61	061-210-91		PlantSci	F	Nithika Karthikeyan	The Effect of Water Beads on Crop Yield of Bok Choy
P62	061-220-51		PlantSci	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?
P64	061-230-H2	T	PlantSci	F	Sienna Stutzman & Mia Flores	Fish, Fish, Everywhere: The Effects Of Aquaponics On Fish
P65	061-231-G1		PlantSci	M	Tapish Singh	Water Conservation: Which mulch is the most effective one?
P66	061-240-E1		PlantSci	M	Haseeb Garfinkel	Tough Beans: Effects of cooking liquid on the hardness of beans
P68	061-241-B2	T	PlantSci	M	Abraham Garcia & Bryan Olvera	Do plants grow better with the seeds at the top or bottom of the pot?
P69	061-250-A1		PlantSci	F	Anwita Satapathy	Agriculture that can solve global warming and food scarcity.
P70	061-251-72	T	PlantSci	F	Kayli Fernandez & Celeste Luna	Feeding Food Scraps to Plants
P72	061-260-52	T	PlantSci	F	Yana Puri & Ayesha Ashraf	From Trash to Gas: It's Biomass
P73	061-261-32	T	PlantSci	F	Christina Montanez & Ruth Cuatepotzo	Do Plants Have a Reaction to Aspirin?
P74	061-270-21		PlantSci	M	Samrath Sandhu	Conductivity of different soils
P75	061-271-H1		PlantSci	F	Diya Iqlas	Electric Plants
P76	061-280-F1		PlantSci	M	Ashray Bangalore	Fertilizer Effects on Plant Growth
P77	061-281-D1		PlantSci	F	Katherine Saucedo	Drought Tolerant Plants
P78	061-290-B1		PlantSci	F	Aylin Salahifar	What do we do to plants when we litter?
P79	061-310-11		AnimalSci	F	Clara Hansen	The effect of glyphosate on Dinoflagellate growth and bioluminescence
P81	061-320-D2	T	AnimalSci	F/M	Cole Bregman & Eden Cohen	How does changing the chicken feed affect the egg
P82	061-330-92	T	AnimalSci	F	Genevieve McKenzie & Paloma Winter	This AiN'T So Sweet!
P83	061-340-61		AnimalSci	M	Roman Gavrilov	What food do ants like best?
P84	061-411-81		BiocheMic	F	Alya Samsudin	The Effect of Cooking methods on Vitamin C content of vegetables
P85	061-420-61		BiocheMic	M	Arhan Rout	Green and Blue fluorescent protein plasmid transformation
P86	061-421-41		BiocheMic	M	Nikhil Sathye	Effect of Reducing Oxidation on Vitamin C content in fruits and vegetables
P87	061-430-21		BiocheMic	M	Ahmad Ismail	Yeast Busters: Stopping Fungus in its Tracks with Antifungal Medicine
N87	061-440-F1		BiocheMic	M	Anshul Reddy	What is the most effective add-on to brushing your teeth?
N86	061-450-B1		BiocheMic	F	Impana Chimmalagi	Metabolism and Magnetism
N85	061-610-B1		MedHeaSci	M	Richard Colgrove	Relationship Between the Dominant Eye and Cognitive Function
N84	061-620-71		MedHeaSci	F	Yuval Mazor	Does your ancestry affect your fingerprint pattern?
N83	062-A10-E1		Chemistry	M	Nimai Talur	Faster, Cleaner Composting
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
N80	062-A12-A1		Chemistry	M	Eoin O'Brien	Study of Motor Oil Viscosity

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Loc.	Proj. Num.	Team	Field	Gender	Students	Title
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
N78	062-A21-72	T	Chemistry	M	Ramy Nijmeh & Moses Wagner	Minty Militia: The Fight for Cool. Do Mints Really Frost Your Face?
N77	062-A22-61		Chemistry	F	Lydia Cheng	Home Made Plastic
N76	062-A30-61		Chemistry	F	Saanvi Jain	The Effects of the Quantity of Base on the Volume of Gas Generated in an Acid Base Reaction.
N74	062-A31-32	T	Chemistry	M	Leonardo Zhao & Eric Zhu	Air Activated Iron
N73	062-A32-21		Chemistry	F	Mahima Agrawal	How does change in temperature and liquids affect the speed at which the marble drops?
N72	062-A40-21		Chemistry	M	Arham Farooqui	Purified Water?
N71	062-A41-H1		Chemistry	M	Chris Lee	What's with pills and water?
N70	062-A42-F1		Chemistry	M	Dashiell Park Warren	How does temperature affect the viscosity of liquid
N69	062-A50-F1		Chemistry	F	Arya Rajesh	The Effect of the Layout of Piezoelectric Crystals on the Amount of Electrical Energy Generated
N68	062-A51-D1		Chemistry	F	Nireesa Rajan	The Effect Of Acids On The Rate Of Corrosion
N67	062-A52-B1		Chemistry	F	Jeevet Kaur	Food For Thought
N66	062-A60-B1		Chemistry	F	Victoria Nguyen	Which Drink Has the Most Electrolytes?
N65	062-A61-91		Chemistry	F	Lilian Shen	Identification test and analysis for various fibers(vegetable fibers, animal fibers and artificial fibers)
N64	062-A62-71		Chemistry	F	Maia Johnsson	What Flour Makes a Fluffier Muffin?
N63	062-A70-71		Chemistry	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?
N61	062-A81-H2	T	Chemistry	F	Juliana Perez & Monica Iboa-Torres	Forever Playdough
N60	062-A90-G1		Chemistry	M	Nicolas Garcia	How Do the Different Types of Pots Affect the Safety of Food
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
N56	062-B20-21		CheEnvEng	M	Diptanshu Sikdar	Effect of shapes of solar panels on the generation of electricity
N55	062-B30-E2	T	CheEnvEng	F	Eesha Palasamudrum & Carina Huang	Human powered portable generator
N54	062-B40-B1		CheEnvEng	F	Faye Neighbors	Solar Powered Water Desalination
N53	062-C11-D1		EarEnvSci	F	Christine Yang	It's Raining, It's Pouring, Acid!
N51	062-C12-A2	T	EarEnvSci	M	Taiki Yamamoto & Minoo Kim	Erosion Simulation
N50	062-C20-B1		EarEnvSci	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
M50	062-C21-91		EarEnvSci	M	Adarsh Ambati	A Smart, Low Cost, Social Network Connected, Community Sprinkler System (IOT)
M51	062-C30-71		EarEnvSci	F	Priyanka Patel	What is the effect of the amount of carbon dioxide on the temperature in the atmosphere?
M52	062-C31-51		EarEnvSci	F	Shinjan Ghosh	Toil for the Oil
M53	062-C40-31		EarEnvSci	F	Sumaiyah Alamgir	Water Retention Capability of Soil
M54	062-C41-11		EarEnvSci	F	Bhavjot Dhillon	Which material is the best to clean up oil spills in the ocean ?
M55	062-C50-G1		EarEnvSci	F	Alexandra Wong	Melting rate of ice
M56	062-C51-E1		EarEnvSci	M	Harsha Kancharla	Arsenic in Grains

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M57	062-C60-C1		EarEnvSci	M	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	M	Ekaum Soni		Dissolved Oxygen at Various Qualities and Temperatures
M59	062-C70-72	T	EarEnvSci	F	Alex Malone & Aspen Bain		Catching the Sun's Rays
M60	062-C80-41		EarEnvSci	M	Kai Vostermans		Water on the Run: The effects of material covers on water evaporation.
M61	062-C81-21		EarEnvSci	F	Sara Withers		How to Block a Landslide
M62	062-C90-H1		EarEnvSci	M	Pierre Carcione		Effect of Pump Rate on Sediment Collected from Well Water
M63	062-C91-F1		EarEnvSci	M	Parker Wang		Tsunami Waves
M64	062-D10-71		PhysAstr	M	Colin Pereira		Boat Velocity
M65	062-D11-51		PhysAstr	F	Anousha Athreya		The Effect of Organic Dye on Dye-sensitized Solar Cell Efficiency
M66	062-D12-31		PhysAstr	M	Mihir Gupta		The LacraPult - Testing Accuracy and Range of Different Lacrosse Heads
M67	062-D20-31		PhysAstr	F	Anokhi Shah		Effects of Centripetal force on the movement of an object
M68	062-D21-11		PhysAstr	M	Yash Tipirneni		Color Power; based on Einstein's Quantum Theory of Light
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	F	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?
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	M	Michael Tapia		The Effect of Temperature on Magnetic Strength.
M75	062-D41-A1		PhysAstr	M	Deven Iyer		What is the Effect of Added Weight on the Revolutions Per Minute of a Helicopter?
M76	062-D42-81		PhysAstr	F	Xenia Torres		How Does the Type of Propeller Affect the Amount of Electricity Generated?
M77	062-D50-72	T	PhysAstr	F	Elena Kennedy & Kate Behan		Liquid Viscosity vs. Splatter Diameter
M78	062-D51-61		PhysAstr	F	Cady Chen		What is the effect of viscosity on the strength of concrete?
M79	062-D52-41		PhysAstr	F	Mary Shen		How to Build A Musical Instrument Using Household Objects.
M80	062-D60-41		PhysAstr	F	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?
M82	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?
M83	062-D70-H1		PhysAstr	M	Enzo Teddy		What is the Effect of Air Cannon Tension on the Smoke Ring Dissipation Time
M84	062-D71-F1		PhysAstr	M	Adheet Ganesh		Determining Disaccharide Content of a Fluid Using Laser Refraction
M85	062-D72-D1		PhysAstr	M	Shreyas Basu		Can a liquid be made to behave like a solid?
M86	062-D80-D1		PhysAstr	F	Nethra Srinivasan		Orbital Mechanics: Effects of Speed and Gravity on a Satellite's Orbit
M87	062-D81-B1		PhysAstr	M	Krishna Mani		Wing Efficiency Testing
L87	062-D82-91		PhysAstr	M	Will Hames		"What Material Keeps You Warmest"
L86	062-D90-91		PhysAstr	F	Allyson Chiu		Gaining Ultimate Power from the Right String Tension
L85	062-D91-71		PhysAstr	F	Anika Khandavalli		Heat Wave vs. Captain Cold: Insulation Resolves It All!
L84	062-D92-51		PhysAstr	F	Raeeun (Irene) Kim		Which surface makes a bigger crater?
L83	062-E10-G1		ElecEng	M	Farzan Hashmi		To draw a comparison between a home made intrusion detection

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						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	M	Hamza Said	Optimal Amount of Electricity In a Generator
L80	062-E21-A1		ElecEng	M	Arnav Bharadwaj	Movie night...dim the light: Effect of Variable Resistor on the Luminance of light bulb
L79	062-E31-61		ElecEng	F	Anisha Narurkar	The effect of dirt on the efficiency of Solar Panels
L78	062-E40-41		ElecEng	F	Ushoshi Basumallick	Optimizing Wireless Signal Strength for a (multilevel) Townhouse
L76	062-E41-12	T	ElecEng	M	Bruno Inzunza & Toby Choudry	Has your Wifi been slow lately?
L75	062-E50-H1		ElecEng	F	Simran Pravin	The Shocking Truth
L74	062-E60-D1		ElecEng	F	Iris Zhou	Soil Moisture Level Detector
L73	062-E70-82	T	ElecEng	M	Matan Sandhaus & Jacob Gans	Turn Signals for Bicycles
L71	062-E80-42	T	ElecEng	F	Lea Amram & Shelli Lewis	Scent Alarm Clock
L70	062-E90-11		ElecEng	M	Roy Neumann	The design and construction of a shoe dryer for toddler shoes
L69	062-F10-81		MechEng	F	Joy Barsoum	Controlling the Temperature of a Solar Oven by Changing the Angle of the Reflector
L68	062-F11-61		MechEng	F	Natalie Perrochon	Loft Bed Elevator
L67	062-F20-41		MechEng	M	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	M	Dhruv Patel	Spread My Wings n' Fly
L64	062-F31-F1		MechEng	M	Nathaniel Hahn	The design and construction of a toy drone with a longer flight time for kids.
L63	062-F40-D1		MechEng	M	Martin Grbic	Solar Panels in the Shade
L62	062-F41-B1		MechEng	F	ANNA JUN	Making The Most Earthquake Proof Structure
L61	062-F50-91		MechEng	F	Mai Tien Tran	Stable Bases
L60	062-F60-51		MechEng	M	Joshua Wong	Earthquake Structures
L59	062-F70-11		MechEng	F	Anna White	Stitches That Bind
L58	062-F80-E1		MechEng	M	Aditya Gupta	Solar panel's optimum tilt to produce maximum electrical energy
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
L55	062-H11-71		SoftEng	M	Krithi Koodli	Computer Simulation of Intersecting Orbits of Celestial Bodies
L54	062-H20-51		SoftEng	M	Jayanth Pennathur	An "i" for an Eye
L53	062-H30-11		SoftEng	M	Eli Hsu	The Offsides Rule.
L52	062-H40-E1		SoftEng	F	Sneha Revanur	Using Speech Recognition to Enhance Daily Life
L51	062-H50-A1		SoftEng	M	Vivek Bharati	A Simple Yet Effective Football Concussion Detector
L50	062-H60-61		SoftEng	M	Yoav Rafalin	Order of Operation Game for Teaching
K50	062-H70-21		SoftEng	M	Guy Knaan	Crowd-sourced audio study guide
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	F	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

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						improve their attitude about school
K57	071-150-22	T	BehavSci	F	Sarah Kaufman & Viviann Luong	I Smile, You Smile.
K58	071-210-B1		PlantSci	M	Avinash Upadhyayula	The Effect of Salt and Calcium on a Plant's Height
K59	071-211-91		PlantSci	F	Mallika Hegde	Effect of Nitrogen-fixing Bacteria vs. Nitrogen Fertilizer on Clover Plants
K61	071-220-62	T	PlantSci	F	Jordan Allard & Isabella Bernhard	What is the effect of the amount of water your lawn gets on how green it stays?
K62	071-221-51		PlantSci	M	Nikhil Murthy	Electroluminescent Farming: The Effect of the Color of LED Lights on the Growth of Vigna radiata
K63	071-230-31		PlantSci	F	Ayah Ramahi	Do dark green veggies have a larger amount of vitamin c than light green veggies
K64	071-231-11		PlantSci	F	Elena Williams	Impact of Watering Depth on Root Development
K65	071-240-G1		PlantSci	M	Rahul Ganesh	Can you grow algae to reduce Global Warming?
K66	071-241-E1		PlantSci	F	Neeraja Sripada	Effects of acidity on the growth of new roots in plants
K67	071-250-C1		PlantSci	F	Tejal Patel	Botany Battle: Hydroponics vs Soil
K68	071-251-A1		PlantSci	F	Srinidhi Bala	Effect of soil nutrients on plant growth
K70	071-260-72	T	PlantSci	M	Duncan Milllrad & Mark Shamis & Brayden Fergason	How does time spent on the ground affect mold growth on different food?
K71	071-261-61		PlantSci	F	Japji Singh	Grow Algae, Save the Planet
K72	071-270-41		PlantSci	M	Ronith Ganjigunta	Potash vs. Gypsum- Best Nutrient for the Common Bean Plant in Drought Conditions
K73	071-271-21		PlantSci	M	John Kipp	The Effect of Different Light Spectra on the Growth of Nannochloropsis
K74	071-280-H1		PlantSci	F	Sarah Vogel	Fermentation Creation
K75	071-281-F1		PlantSci	F	Jaclyn Mar	What is the effect of Greywater on the Begonia's height?
K76	071-290-D1		PlantSci	F	Sriya Sridhar	Organic Fertilizers Tested On Plants
K77	071-291-B1		PlantSci	F	Anushka Wagle	Hydroponics vs. Soil Growth
K78	071-310-31		AnimalSci	F	Khushi Parikh	The Effect of the Timing of Light Exposure on the Circadian Cycles of Dinoflagellates
K79	071-330-C1		AnimalSci	F	Carolyn Nguyen	Are "Green" Dishwasher Detergents Really Eco-Friendly to Earthworms???
K80	071-411-A1		BiocheMic	F	Louiegail Nazareno	The Effects of Different Types of Soaps on DNA Extraction
K81	071-422-41		BiocheMic	F	Chloe Li	The Effect of Cooking on the Level of Vitamin C in Vegetables
K82	071-430-41		BiocheMic	F	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	F	Liah Nudell	Antacid Relief on Heartburn
K85	071-450-D1		BiocheMic	F	Rania Awad	The Effect of Vitamin E on Yeast Growth
K86	071-451-B1		BiocheMic	F	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	F	Allison Rabbani	Cleanliness of a Barbecue grill
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	M	Shivek Narang	The Effect of Salt on Saccharomyces cerevisiae
J83	071-481-G1		BiocheMic	M	Nicholas Csubak	Shooting Fungi
J82	071-490-E1		BiocheMic	M	Mithil Chakraborty	Evaluation of the Antibiotic Properties of Tomatine using Daphnia Magna

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J81	071-610-D1		MedHeaSci	F	Pauline Rogers	Is the rainbow on the wall an afterimage?
J80	071-630-42	T	MedHeaSci	M	Aditya Udgaonkar & Prathik Kakarlamudi	Does measured glucose correlate with tear glucose ?
J78	071-631-22	T	MedHeaSci	F	Katelyn Wong & Minhthi Nguyen	Vast Blobs of Gluten
J77	071-641-G1		MedHeaSci	M	Mwinso Denkabe	Does temperature affect the rate of enzymes
J76	071-650-E1		MedHeaSci	F	Eman Akilah	Burning Calories
J75	071-651-C1		MedHeaSci	F	Malak Ashmawi	Got Gluten
J74	071-660-A1		MedHeaSci	F	Kanchan Krishna	What is the effect of different oils and lotions on dry skin?
J73	071-670-52	T	MedHeaSci	F	Rotem Bar & Arielle Bertman	How do different types of nail polish affect nail growth?
J72	071-680-21		MedHeaSci	F	Alekhya Vadlakonda	Asthma treatment revisited- preventing oxidative stress with green tea
J71	071-690-F1		MedHeaSci	F	Lia Escober	Better,Faster,Stronger: Comparing Dissolve Rates of Tablet and Gel Pills
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		BiomedEng	M	Munir Bshara	The Portable Death Ray Device
J68	071-730-E1		BiomedEng	F	Anahita Srinivasan	Using Nanotechnology to Kill Leukemia Cells
J67	072-A10-G1		Chemistry	M	Ishir Vaidyanath	Sonic Extinguisher (The effect of Sound on Fire)
J66	072-A11-E1		Chemistry	M	Wali Khalid	The effects of hardness of water because of the amount of soap suds
J65	072-A12-C1		Chemistry	M	Samarth Jayadev	How separating oxygen from water could help infinite breathing time under water.
J64	072-A20-C1		Chemistry	F	Zahra Aziz	The Effects of High and Low pH Levels and Sodium Citrate on Spherification for Human Health
J63	072-A21-A1		Chemistry	M	Nikhil Gargeya	The Effect of Cooking/Cooling Methods on the Calorie Content of Starch Heavy Foods
J62	072-A30-81		Chemistry	F	Aditi Hariharan	The Effect of Gelatin on the Stickiness of Glue.
J61	072-A32-41		Chemistry	M	Shivaditya Gohil	Can we stop the corrosion and rusting of steel with different type of paints?
J59	072-A41-12	T	Chemistry	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		Chemistry	F	Jillian Silva	Viscosity Vs. Shape
J57	072-A50-H1		Chemistry	F	Amana Kaddoura	The Effect of Gaseous Beverages on the Stomach
J56	072-A51-F1		Chemistry	F	Janani Sriram	Case-in Point?: Making Casein Plastic
J55	072-A52-D1		Chemistry	M	Justin Wong	How does the purity of the gases affect the deflation or inflation rate of a balloon?
J54	072-A70-91		Chemistry	F	Cailin Le	What method of cooking retains the most vitamin C in broccoli?
J53	072-A71-71		Chemistry	F	Emily Meng	Is the Glucose Content on Food Labels from Asian Countries Accurate?
J52	072-A80-51		Chemistry	M	Aadit Trivedi	Fueling the Future: The Effect of Different Electrolytes on Water Electrolysis
J51	072-A81-22	T	Chemistry	F	Sarah Winter & Leila Busch	What effect does dusting and fuming fingerprints have on the quality of the fingerprint?
J50	072-A90-11		Chemistry	M	Austin Yang	The Efficiency of Different Salt Separating Methods
H50	072-A91-G1		Chemistry	F	Shruthi Sriram	Effect of different ratios of fructose to glucose on the rate of aerobic respiration of yeast
H52	072-B30-G2	T	CheEnvEng	F	Sahana Rajmohan & Anika Bhatia & Sruthi Ramesh Kumar	SAS Self Watering System
H54	072-B40-C2	T	CheEnvEng	F	Ananya Sekharan & Kirthana Jeyasankarane	Effects of Storage on Water Quality
H55	072-C11-F1		EarEnvSci	F	Yumna Battisha	Shower Head Water Conservation
H56	072-C21-B1		EarEnvSci	F	Kavya Khare	How Different Surfaces Influence The Urban Heat Island Effect

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Loc.	Proj. Num.	Team	Field	Gender	Students	Title
H57	072-C30-91		EarEnvSci	F	Zainah Masood	Factors effecting oil spill clean up using Nanotechnology
H58	072-C40-51		EarEnvSci	F	Nandita Jayanthi	The Effects of Various Compounds on the Filtration of Water
H59	072-C50-11		EarEnvSci	M	Jakob Lelong	Earthquake Simulator
H61	072-C60-D2	T	EarEnvSci	F/M	Leilani Medina & Marcelino Calvillo & Simone Pond	What Is The Effect of Fresh Water and Salt Water On Oil Spills?
H62	072-C70-A1		EarEnvSci	F	Shachi Prasad	What is the effect of global warming (temperature and salinity) on the brine shrimp population?
H63	072-C80-61		EarEnvSci	F	Sophia Cha	Drought Buster: Kaolin Soil Amendments and Irriguous Earth
H64	072-C90-21		EarEnvSci	M	Abhishek Saxena	Increasing electric output of solar panels using lenses
H65	072-D11-71		PhysAstr	M	Anas Mohamed Sulthan	The Effect of Wind on a Quadcopter
H66	072-D12-51		PhysAstr	F	Angela Tsang	Supercooling Water: What is the effect of adding condiments and/or water to cooler ice on the rate water supercools?
H67	072-D20-42	T	PhysAstr	M	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	M	Zaid Yousef	EMF Radiation
H70	072-D30-11		PhysAstr	F	Masha Korolik	Solar Energy Concentrator Integrated into Windows: Smart Solar Energy Conversion
H71	072-D31-G1		PhysAstr	M	Tyler Madden	Fishing for Answers - static breaking strength of fishing line
H72	072-D40-E1		PhysAstr	M	Joshua Bang	What is the effect of follow through on the distance of the ball?
H73	072-D41-C1		PhysAstr	M	Vikram Iyer	Musical Liquid Waves
H74	072-D50-A1		PhysAstr	M	Satwik Vakada	Electric Waterfall (Kelvin Electrostatic Generator)
H76	072-D51-72	T	PhysAstr	F	Amanda Nguyen & Amy Li & Preeti Rajarathinam	Frisbee Frenzy
H77	072-D60-61		PhysAstr	F	Claire Luo	The Effect of a Toilet's Pipe Structure on the Flush
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
H81	072-D80-F1		PhysAstr	F	Kate Jackson	Constructing Science: Comparing the Strength of Wooden Joints Made with Nails Screws and/or Glue
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
H86	072-E13-B2	T	ElecEng	F	Bhaswati Das Gupta & Fnu Subrahmanyam & Tanvi Siddhaye	Water Leak Detectors
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	ElecEng	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
G83	072-E30-A1		ElecEng	F	Harbani Jaggi	How Smart is your Smart Phone Case?
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
G80	072-E40-61		ElecEng	F	Ashwini Suriyaprakash	Intruder Alert!
G79	072-E41-41		ElecEng	M	Ravi Gadgil	Controller for Smart Suburbs

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Loc.	Proj. Num.	Team	Field	Gender	Students	Title
G78	072-E42-21		ElecEng	F	Mary Hemker	How Steady are Your Hands?
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
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
G73	072-E61-D1		ElecEng	M	Zakariya Syed	Self-Massaging Shoe
G72	072-E62-B1		ElecEng	M	Francis Tang	Measuring cell phone radiation
G71	072-E70-B1		ElecEng	F	Anjali Singh	IoT Device System for Tracking Hand Motions Of Senior Citizens in Morse Code
G70	072-E71-91		ElecEng	M	Vineet Ranade	The Dielectric Effect
G69	072-E72-71		ElecEng	F	Claire Tang	Measuring Wi-Fi Signal Strength
G68	072-E80-71		ElecEng	M	Andrew Chiang	Force Sensing Techniques for Robotic Arms
G67	072-E82-31		ElecEng	F	Supriya Lall	Intelligent Gas Sensor
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
G64	072-F10-A1		MechEng	F	Nishita Belur	Detecting Metal Surface Defects Using Laser Light Reflection
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
G59	072-F31-H1		MechEng	F	Angelina Lue	How do heat sinks affect the amount of water condensing on a surface
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
G56	072-F51-82	T	MechEng	F	Diana Labonville & Gisele Inaba	We All Live in a Clear Submarine
G55	072-F60-71		MechEng	F	Isabella McLarney	Mag-lev Elevator
G54	072-F70-31		MechEng	F	Jasleen Goraya	Water Down the Drain
G53	072-F71-11		MechEng	F	Caroline Bae	Remote Control Lighting
G52	072-F80-G1		MechEng	F	Melina Kritikopoulos	Suck It Up!
G50	072-F81-D2	T	MechEng	M	Gabriel Ticau & Krish Praseeth	The design and construction of a Braille emulator for visually impaired people to surf the web
F50	072-F90-C1		MechEng	F	Caitlin Gorin	Which type of 3D Printed Plastic is the "Strongest"?
F51	072-G10-21		Math	M	Andrew Varghese	Differences of Primes and Whole Squares
F52	072-G20-F1		Math	F	Malini Nair	A mathematical computation to build a robotic beetle
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
F56	072-H40-G1		SoftEng	F	Deepa Mahesh	Analyzing Images to Help with Obstacle Avoidance for the Blind
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

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Loc.	Proj. Num.	Team	Field	Gender	Students	Title
F60	072-H80-G2	T	SoftEng	M	Talin Ray & Sean Do	Using hand gestures to operate mechanisms.
F61	081-110-41		BehavSci	F	Emma Le	An Investigation of Adult's Responses to Frustration
F62	081-111-21		BehavSci	M	Dylan Hwang	Eye Fatigue During TV Watching: An Infrared Oculography Study
F63	081-120-H1		BehavSci	F	Kanika Khemka	The Effect of the Presence of Music on Comprehension and Probelm Solving
F64	081-121-F1		BehavSci	F	Rithika Vatturi	Is it possible to boost brain performance prior to a mental activity?
F65	081-130-D1		BehavSci	F	Ioana Ana	Th Effect of Light Intensity on Peripheral Vision
F66	081-131-B1		BehavSci	F	Emily Pember	Can People Taste The Difference Between Bottled, Filtered, and Tap Water?
F67	081-140-91		BehavSci	F	Sriya Prathuri	The Effect of Extracurriculars/Hobbies/Interests on Memory and Learning
F68	081-141-71		BehavSci	F	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
F71	081-151-31		BehavSci	F	Camille Phares	The Correlation between Age and Types of Intelligence
F72	081-160-H2	T	BehavSci	M	Rohan Sonecha & Naveen Mirapuri	Sports Psychology: The Effects of Expectations and Bias on Athletic Performance
F73	081-170-E1		BehavSci	F	Grace Huang	The Effects of Music on Efficiency
F75	081-171-B2	T	BehavSci	M	Bryan Reyes & Dauntae Vivas	The Effect of Music on Human Moods
F76	081-190-52	T	BehavSci	F	Sejal Krishnan & Vibha Arramreddy	Affects of Emotions on Test Takers
F78	081-210-C2	T	PlantSci	F/M	Grant Miner & Michelle Kwan	Eliminating Dinoflagellates Without Harming Marine Biology
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
F81	081-220-91		PlantSci	M	Daniel Maceda	Catching Evapotranspiration, Saving Water
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.
F83	081-240-11		PlantSci	F	Cynthia Chen	A Novel Method for Reducing Water Consumption in Germinating Seeds
F84	081-250-E1		PlantSci	F	Margaret "Maggie" Bazurto	Aquaponics: The Next Generation of Farming
F86	081-260-92	T	PlantSci	F	Eileen Li & Catherine Zhao	Testing the Most Favorable Conditions For Plants In Hydroponic Systems
F87	081-270-52	T	PlantSci	F	Courtney Spisak & Alyssa Bruno	Freaky Fertlizers
E87	081-280-21		PlantSci	F	Ishanee Mitra	A simple way to reduce agricultural Nitrous Oxide emissions into the atmosphere.
E86	081-290-F1		PlantSci	F	Sriya Jonnakuti	How high can you go? : The effect of auxin on plant growth
E85	081-310-51		AnimalSci	F	Kami Richardson	Broken Chain: The Effect of Ocean Acidification on Echinoids and Bivalves
E83	081-320-H2	T	AnimalSci	M	Jason Pan & Jeffrey Yang	Effects of pH level on Daphnia Magna Health
E82	081-410-E1		BiocheMic	F	Purnima Venkat	Do water pollutants inhibit stem cell mediated regeneration?
E81	081-411-B2	T	BiocheMic	F/M	Henry Wiese & Anika Tiwari	Cleaning Kitchen Cleaners
E79	081-412-92	T	BiocheMic	M	Matthew Jin & Sahil Gosain	Hair Dye Potential Mutagen Test
E78	081-420-92	T	BiocheMic	F/M	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
E77	081-421-81		BiocheMic	F	Natalie Orup	The 5 Second Rule
E76	081-422-61		BiocheMic	M	Ekdatha Arramreddy	Effects of Protein A on Antibody and Antigen Binding
E75	081-432-21		BiocheMic	F	Antonia Quake	Statistical Properties of Microbial Genomes
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

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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
E67	081-461-91		BiocheMic	F	Taqwa Tofaha	Effect of pollutants on the survival rate of daphnia
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?
E65	081-471-51		BiocheMic	F	Nikita Bilaskar	The effect of radiation on bacterial growth
E63	081-480-22	T	BiocheMic	M	Jeffrey Liu & Mihir Sharma	Bacteriophages kill E. Coli - With a twist!
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
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
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
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
D50	081-670-72	T	MedHeaSci	F	Rashmi Iyer & 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?
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
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
D58	081-760-41		BiomedEng	M	Sriram Sundararajan	Saving The World One Heat Stroke At A Time
D59	081-770-H1		BiomedEng	F	Tanshi Jain	Sweet Breath
D60	081-780-D1		BiomedEng	F	Shreya Sinha	Consumer Grade Brain State Analyzer
D61	082-A10-11		Chemistry	M	Rithik Jain	The Effect of Different Flavonoids on the Inhibition of Alpha Amylase
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
D65	082-A31-81		Chemistry	M	Jacob Forbes	Energy Maximization in Batteries

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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
D69	082-A51-H1		Chemistry	M	Jeremy Dinh	What Affect Does Salt Have on a Makeshift Solar Panel?
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
D73	082-B10-A1		CheEnvEng	M	Phillip Han	The Effect of Different Grade Gasoline on the Amount of CO2 produced in the Emissions
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
D76	082-B21-41		CheEnvEng	M	Pranav Vadali	On-Demand Watering of a Plant
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
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?
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
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	EarEnvSci	F	Grace Hajjar & Jin Tuan	Effect of Climate Change on Dinoflagellates
C83	082-C40-62	T	EarEnvSci	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
C79	082-C60-G1		EarEnvSci	M	Srinivas Balagopal	Desert Island: The Effect of Mesh Designs on the amount of water collected from fog harvesters
C78	082-C80-81		EarEnvSci	F	Priti Rangnekar	Ocean Acidification: the Chicken Little of the Sea for Clams?
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
C74	082-D11-91		PhysAstr	F	Allison Brand	Surface Tension Pepper Circles
C73	082-D20-62	T	PhysAstr	M	Aniket Tyagi & Max Jones	Magnetic Motors
C72	082-D30-31		PhysAstr	M	Joseph Caruso	Pellets in Gel

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C70	082-D31-H2	T	PhysAstr	F/M	Ilina Gupta & Eric Hartman & Ashley Pang	Ready, Set, Soap!
C68	082-D40-F2	T	PhysAstr	M	Montek Kalsi & Rakesh Nori	Soundproof Recyclables
C67	082-D60-81		PhysAstr	F	Niki Zeraati	The Effects of Angle of Impact on Liquid Spatter Patterns
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?
C65	082-D70-41		PhysAstr	M	Jeffrey Kwan	The Performance of a Ping-Pong Ball
C64	082-D80-H1		PhysAstr	M	Abhiraam Arun	What's up with the WiFi strength?
C63	082-D90-D1		PhysAstr	F	Shannon Lin	How does the Type of Solution affect the Index of Refraction?
C62	082-E10-31		ElecEng	F	Shruti Sridhar	A Novel Sensor-Based Device to Detect Heatstroke and Dehydration
C61	082-E11-11		ElecEng	F	Simrithaa Karunakaran	Drowning Alert System IoT
C60	082-E20-G1		ElecEng	M	Shounak Ranabhor	Angel's Eye - The Heat Battalion
C59	082-E21-E1		ElecEng	M	Chinmay Lalgudi	The Development of a Thermoelectric Generator Integrated Laptop Case to Charge Computers using their own Heat
C58	082-E30-C1		ElecEng	M	Michael Raymund Vicente	The Effect of B.O.S.S (Bracelet Of Safety and Security) and Program on Its Success Rate of Its Many Parts.
C57	082-E31-A1		ElecEng	M	Andrew Ton That	A System Using Cheap Disposable Robots to Clear Landmines
C56	082-E40-81		ElecEng	M	Siva Sambasivam	Arduino Powered SmartPillow
C55	082-E41-61		ElecEng	F	Siya Sharma	Design and Development of an Electronic Device for Battery Regeneration in Communication Devices for Emergency Purposes
C54	082-E50-41		ElecEng	M	Matthew Cho	Smart Shoes: An innovative method to analyze and correct improper gait
C53	082-E51-21		ElecEng	F	Michelle Parsons	The effect of elf electric fields on voltages induced into the body
C52	082-E60-H1		ElecEng	M	Kavish Trivedi	Preventing Crime using a Smart Doorbell
C51	082-E61-E2	T	ElecEng	M	Brandon Lee & Arav Chheda	Wireless Phone Case Charger
C50	082-E70-D1		ElecEng	M	Milan Ganai	Wearable Therapeutic Device with Bluetooth for Sarcopenia Patients and Caregivers
B51	082-E71-A2	T	ElecEng	M	Hawk Azordegan & Nicholas Rumley & John Pham	Charge It!
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	ElecEng	F	Anjali Mathi & Kalie Ching	Motion-Powered Safety Light
B55	082-E90-51		ElecEng	M	Rushil Saha	Wearable Device for Dementia Patients to Log Activity and Location, and R Analysis of Data to Find Trends in Movements
B56	082-F10-C1		MechEng	M	Aneesh Virjala	Green Printer - Save Trees !!!
B58	082-F11-92	T	MechEng	F/M	Bryan Tang & Trina Dao & Jeffrey Lam	Spot On Spray Mop
B60	082-F20-72	T	MechEng	M	Kashov Sharma & Arjun Akkiraju	A novel flotation technology for flight data & cockpit voice recorders in the event of aircraft failures
B61	082-F21-52	T	MechEng	F	Jamie Florence Dy & Kylie Chang	Touchscreen Geometry Compass
B62	082-F30-41		MechEng	M	Jacob Cardenas	How does input energy affect the weight which can be supported by a hovercraft
B63	082-F31-21		MechEng	M	Ansel Austin	Impact of Applying Structural Features of an Owl's Feather on Reducing Noise Output of Rotor Blades
B65	082-F40-G2	T	MechEng	F	Elena Kong & Anna Phan & Jenny Pham	The Giving Machine
B66	082-F41-F1		MechEng	F	Talia Vaillancourt	Skyward Glow
B68	082-F50-C2	T	MechEng	M	Chandan Aggarwal & Noah Salisbury	Sit Up Straight: Posture Sensor and Corrector

Loc.	Proj. Num.	Team	Field	Gender	Students	Title
B70	082-F51-A2	T	MechEng	F	Sabrina Nielsen & Emma Bascomb & Emily Lai	Engineering Individual Self-Watering Pots
B71	082-F61-62	T	MechEng	F	Emma Mustovic & Emily Uranga	Travel Power
B72	082-F70-51		MechEng	M	Justin Wang	Studying the effect of winglets on drag reduction with a wind tunnel
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	F	Kylee Nielsen	Automated Softball Tee Loader
B75	082-F90-E1		MechEng	M	Rushil Srivastava	A Cheaper Keyboard for the Blind
B76	082-G10-41		Math	F	Anika Srivastava	Using Math and Physics to Improve Aim in Basketball Throws
B77	082-G20-H1		Math	F	Ananya Jeyappragash	Using Origami to Efficiently Fold Solar Panels on Spacecraft
B78	082-G30-D1		Math	M	Suhas Prasad	Do Hamiltonian Bugs Always Converge? A Computer-Inspired Proof
B79	082-H10-D1		SoftEng	M	Patrick Yu	A Novel Approach to Leaf and Image Recognition
B80	082-H11-B1		SoftEng	F	Swati Goel	The Optimal Scheduling Algorithm
B81	082-H12-91		SoftEng	M	Tejaswi Vemulapati	Predictive Text Input Using Multiple N-Gram Language Models
B82	082-H20-91		SoftEng	M	Shivam Verma	Controlling Wheelchair Motion Using a Computer Vision System that Detects Head Movement
B83	082-H21-71		SoftEng	M	Aman Choudhary	Precision Notes - Compares two different pieces of music
B84	082-H22-51		SoftEng	M	Nathan Ng	Accident Prevention
B85	082-H30-51		SoftEng	F	Adishree Ghatare	A Learning Platform for Increasing Memory Retention of Definitions of Words
B87	082-H31-22	T	SoftEng	M	Niranjan Joshi & Arnav Doshi	Using Machine Learning to Predict Future Traffic Jams
A87	082-H40-11		SoftEng	M	Raghav Ganesh	Characterizing Brain Activity using Facial Feature Recognition and Gaze Tracking
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
A85	082-H42-D2	T	SoftEng	M	Siddarth Ramkrishnan & Ryan Ramirez	BlindNav
A84	082-H50-E1		SoftEng	M	Logan Macias	Open-Source Gaming
A83	082-H51-C1		SoftEng	M	Trishul Pal	Remote Controlled animation iOS App using CoreBluetooth
A82	082-H52-A1		SoftEng	F	Letitia Aloysius	Sign Language Alphabets using Augmented Reality
A81	082-H60-A1		SoftEng	M	Shivaansh Kapoor	Scientific Calculator from Scratch
A80	082-H61-81		SoftEng	M	Kirtan Shah	Image Compression: Which algorithm performs the best?
A78	082-H62-52	T	SoftEng	M	Brandon Yan & Isaac Lo & Brendan Su	Eunomy: Pharmaceutical App
A77	082-H70-61		SoftEng	M	Joseph Hernandez Jr.	Become The Smarty
A76	082-H71-41		SoftEng	M	Mihir Kasmalkar	Keyboard Code: A Software Development Environment for the Blind
A75	082-H72-21		SoftEng	M	Rohan Kolappa	Security for Internet Users: URL Detection
A74	082-H80-21		SoftEng	M	Agneesh Kumar	Using RFID cards to make the departure process more efficient
A73	082-H81-H1		SoftEng	M	Anuj Kathail	Virtual Reality Gloves
A72	082-H90-F1		SoftEng	F	Emily Zhou	The Use of Mental Hash to Improve Password Security
A71	082-H91-D1		SoftEng	M	Mubashir Hussain	Software solution to improve prescription of medication to senior citizens and monitoring intake
P10	091-111-32	T	BehavSci	F	Samiksha Patil & Priya Ram	What is the effect of switching the order of math problems on your test performance?
P11	091-120-21		BehavSci	M	Ryan Dang	The effects of different stimulus images on the Delboeuf illusion
P12	091-130-F1		BehavSci	M	Vishnu Palaniappan	Effects of Synchronous Music on Anaerobic Endurance
P13	091-140-B1		BehavSci	M	Kevin Mathew	False Preconception and the Brain's Perception of Time

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Loc.	Proj. Num.	Team	Field	Gender	Students	Title
P14	091-150-71		BehavSci	F	Heather Migdal	The effect of externally regulated extrinsic motivation on academic performance
P15	091-160-31		BehavSci	M	Gautham Dasari	The Affects of outside psychological stress on running speed
P16	091-170-G1		BehavSci	F	Nisha Shankar	Risk Perception and Health Behaviors Among Teens with a Family History of Diabetes and Coronary Artery Disease
P17	091-180-C1		BehavSci	M	Anish Gupta	How Does Age Affect Sleep Patterns?
P18	091-190-81		BehavSci	F	Tanvi Narvekar	Music and The Brain: How Different Genres of Music Affect Typing Output
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 Aspirin and Jasmonic acid on Snap Bean Plants When Faced with Environmental Stress.
P22	091-240-31		PlantSci	M	Derick Cutinha	The effect of Electromagnetic Fields (EMF) on cell structure and growth of Fenugreek
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
P26	091-280-32	T	PlantSci	M	Ian Tai & Amol Singh	Making Drought Resistant Plants: The Effect of Abscisic Acid on Fast Plants for Reducing Water Loss
P27	091-320-31		AnimalSci	F	Hira Ali	The Effects of Toxins on Daphnia: E-Cigarettes vs. Traditional Cigarettes
P28	091-340-C1		AnimalSci	M	Vivek Kamarshi	Effect of Heat-Sensing Mutations on Voluntary Fevering in Drosophila melanogaster
P29	091-350-81		AnimalSci	F	Reha Shah	Can organisms be habituated to epinephrine, rendering epinephrine less effective over time?
P30	091-370-H1		AnimalSci	M	Frederick Nitta	Will Planarians Develop Tumors by UV Light?
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
P34	091-421-A1		BiocheMic	M	Nishant Ravi	Determining the Efficacy of Ciprofloxacin Against E.Coli Alongside Microwave Radiation
P35	091-430-81		BiocheMic	F	Kamya Krishnan	The effect of sucralose on the growth of gut microbiota
P36	091-431-61		BiocheMic	M	Nathan Zhang	Effects of antibiotics on beneficial gut bacteria
P37	091-440-41		BiocheMic	M	Shreyas Bharadwaj	The Effect of Varying Salinity on the Rate of Growth of Antibiotic Resistant E. Coli versus Non-Resistant E Coli.
P38	091-450-H1		BiocheMic	M	Kevin Chandran	Effect of marshes or terresterial habitats on the percentage of insects that carry wolbachia bacteria in the bay area.
P39	091-451-F1		BiocheMic	M	Michael Mao	The effect of acidity and antibiotics on E. coli.
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
P44	091-520-41		BioInfo	M	Shriniketh Narayana	Effect of different pairings of prediction algorithms on accuracy of predicting the pathogenicity in missense mutations
P45	091-530-H1		BioInfo	F	Suchita Joshi	Is there any genetic similarity between neurodegenerative disorders

Loc.	Proj. Num.	Team	Field	Gender	Students	Title
						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
N46	091-570-11		BioInfo	M	Jaydev Bhateja	SCOMTzophrenia: Gene Expression and Schizophrenia
N45	091-590-A1		BioInfo	M	Rohin Tangirala	The Effect of Ocean Temperature and Nutrients on Pseudo-nitzschia Harmful Algal Blooms and Domoic Acid
N44	091-620-D1		MedHeaSci	F	Rujuta Sathe	Diagnosing neurodegenerative diseases: Using Levamisole (hydrochloride) to test for neurodegeneration in C.elegans.
N43	091-630-91		MedHeaSci	M	Ashwin Rammohan	Studying the Effects of Skin Puncture Level on Improving Steel Micro-needle Transdermal Drug Delivery
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
N40	091-670-A1		MedHeaSci	M	Jason Dong	Effect of Vagus Nerve Therapy on Treatment-Resistant Depression Patients
N39	091-680-61		MedHeaSci	M	Aadithya Anumala	What is the Effect of Increasing CSF Flow, Adding Saline, and Removing Blood on Intracranial Pressure during an SAH?
N38	091-720-51		BiomedEng	F	Aishwarya Suresh	An application using heart rate variability as a catalyst for regaining attention
N37	091-750-A1		BiomedEng	M	Charlie Huang	Crystallization of Calcium Carbonate into Chitin in Penicillium Chrysogenum Cell Walls for Bone Repair and Prosthetics
N36	091-760-61		BiomedEng	F	Shivani Deglurkar	Modeling of Artificial Pancreas for various diabetic symtoms
N35	091-770-21		BiomedEng	M	Sohil Pokharna	Affordable incubator leveraging thermal energy storage and Peltier devices for thermoregulation of neonatal preemies
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
N31	092-A70-D1		Chemistry	M	Vishal Menon	The Effect of Chemicals on the Rate of Rusting
N30	092-B30-32	T	CheEnvEng	$^F/_M$	Leo Rassieur & Eun seo (Katie) Kang	Division of Corn Stover Material to Increase Efficiency of Conversion to Cellulosic Ethanol
N29	092-B50-D1		CheEnvEng	F	Sanjana Shah	Smart Flood Sensor: detect, analyze, and predict water accumulation in city's drainage system
N28	092-B60-91		CheEnvEng	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
N25	092-C11-21		EarEnvSci	M	William Guo	Shade Balls: Conserving Caliornia's Water
N24	092-C20-H1		EarEnvSci	F	Hsin-Pei Lee	The effect of soil types on ants ability to influence rainfall infiltration
N23	092-C21-F1		EarEnvSci	M	Edward Ross	Not Just for Shade: A New Look at Using Retractable Awnings for Thermal Control
N22	092-C30-D1		EarEnvSci	M	Ethan Jean	Climate Change scenarios in the Bay Area 100 years from now- Big Data and GIS Analysis
N21	092-C40-91		EarEnvSci	M	Neeraj Senthil	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?

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N19	092-C60-11		EarEnvSci	F	Laura Powers	Investigation of Desalination Waste Disposal Methods
N18	092-C70-E1		EarEnvSci	F	Visala Tallavarjula	Methods based on Statistical Analysis To Improve Water Retention in Sub-surface Irrigation
N17	092-C90-61		EarEnvSci	M	Arjun Prabhakar	The Use of Biopolymers to Mitigate Soil Erosion
N16	092-D20-91		PhysAstr	M	Krishnakumar Bhattaram	Mathematical Designing and Modelling of Cascadable NAND Gate for Surface Plasmon Polariton (SPP) Computing
N14	092-D30-42	T	PhysAstr	M	Ayush Pancholy & Rithvik Panchapakesan	Investigating the Theoretical Possibility of Wormholes
N13	092-D40-11		PhysAstr	M	Rustam Gandhi	The Effect of Temperature on the Junction Potential Difference of a Thermocouple
N12	092-D50-E1		PhysAstr	M	Joseph Shen	How to measure 3D objects in non-contacting and most efficient way?
N11	092-D60-92	T	PhysAstr	$^F/_M$	Priya Goel & Saarthak Sharma	The Effect of Color on the Absorption of Radiant Energy
N10	092-E40-A1		ElecEng	M	Cameron Jones	Laser Etching of Graphene Oxide to Create High Energy Density Micro-Supercapacitors
M10	092-E50-61		ElecEng	M	Andrew Ng	Using Plethysmographic Sensors to Develop Fingerprint Scanner that Detects for Pulse
M11	092-E60-21		ElecEng	M	Naqib Khan	Smart Shoes
M12	092-E80-B1		ElecEng	M	Zade Lobo	"Body-Guard"
M13	092-E90-71		ElecEng	F	Yusra Arub	Instructor-less Driving Lessons Using Simulated Connected Car
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?
M24	092-H11-D1		SoftEng	F	Eesha Deepak	Using Java to Create a Program that Serves as an Information Tracker and Reminder Assistant
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
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
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

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						Machine Learning to Thwart Crime in San Francisco
M33	092-H60-C1		SoftEng	M	Ranesh Prasad	High School Organizer App for Students
M34	092-H70-81		SoftEng	M	Karl Goeltner	Wearable Fitness Tracker to Improve Exercise Patterns
M35	092-H71-61		SoftEng	M	Mihir Borkar	What Is The Best Algorithm To Solve A Sudoku Puzzle?
M36	092-H80-41		SoftEng	M	Gaurav Vipat	Improving the detection of facial key points to improve facial recognition software.
M37	092-H81-21		SoftEng	M	Tejes Srivastava	Adaptive Traffic Lights to Reduce Traffic Congestion
M38	092-H90-H1		SoftEng	M	Siddharth Mahesh	Devising a Parallel Maze-solving Algorithm
M40	093-330-H2	T	AnimalSci	M	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	M	Kiran Rachamallu	The Effect of Increasing Voltage on Vapor from e-Cigarettes.
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
M44	093-520-52	T	BioInfo	M	Ayush Alag & Shray Alag	Identifying the Genetic Mutations Associated with Food Allergy
M46	093-620-E2	T	MedHeaSci	M	Anjay Saklecha & Krish Kapadia	The Use of Salivary Lactic Acid Levels as a Noninvasive Biomarker for Sepsis
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		MedHeaSci	F	Aishwarya Atmakuri	Effect of MiR34 on cell cycle regulators
L45	093-720-71		BiomedEng	M	Keval Shah	Developing a Bionic Pancreas
L44	093-730-31		BiomedEng	M	Rishab Yeddula	X-Porta: A Novel Low-Cost, Portable Radiologic Diagnostics Suite
L43	093-740-F2	T	BiomedEng	M	Joseph Li & Michael Zhang	Nanoparticle DNA selection in preparation for DNA sequencing
L42	094-E20-31		ElecEng	M	Brian Ng	Autonomous Stress Detection using Electromyography
L41	101-110-91		BehavSci	M	Jackson Verheyden	Does Lighting Effect Student Focus?
L40	101-120-51		BehavSci	F	Rhea Modi	The Effects of Task Switching on Bilingual Students Compared to Monolingual Students
L38	101-130-H2	T	BehavSci	M	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
L36	101-150-A1		BehavSci	F	Saumya Nimmagadda	The Effect of Support and Knowledge from Coaches and Family on 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 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 Electrical Short-Term Memory of Dionaea muscipula
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
L30	101-250-12	T	PlantSci	F	Tiffany Shou & Meena Gudapati	Determining What Parts of Skim-Milk are Successful Preventatives of 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	F	Gina Yang	Effects of tau-Fluvalinate on Mortality and Olfactory Associative

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						Learning and Memory of Honeybees (Apis mellifera L.)
L27	101-320-61		AnimalSci	M	Hubert Le	AntMAZING
L26	101-330-21		AnimalSci	M	David Wen	How to apply slime mold's movements to solve real world problems
L25	101-410-21		BiocheMic	F	Claire Zhang	Fighting Antibiotic Resistance: An Evaluation of Menthol as a Curing Agent of Low Copy Resistance Plasmids in E.coli
L24	101-411-H1		BiocheMic	M	Jonathan Tang	The use of a repressor enzyme as an antibacterial treatment
L23	101-420-F1		BiocheMic	F	Sanjana Avula	The effects of cancer treatment on depletion of iron
L22	101-421-D1		BiocheMic	F	Jena Tran	A Natural and Affordable Contact Lens Solution Using Raw Honey And/Or Lemon Juice
L21	101-430-A2	T	BiocheMic	F	Jacqueline He & Jacqueline Gao	Impact of isolated cinnamaldehyde on the longevity of c.elegans
L20	101-460-G1		BiocheMic	F	Manaswini Gopalakrishnan	Gleaming Demise :The effect of silver nanoparticles on the ventricular contraction of invertebrate species
L19	101-470-C1		BiocheMic	F	Anastasiya Grebin	The effect of a controlled environment on fitness and cellulolytic efficiency on Cellulomonas flavigena?
L18	101-480-81		BiocheMic	M	Manav Shah	IBD and Colorectal Cancer: Limiting E. Coli Colon Dominance During Intestinal Dysbiosis with a Human Gut Inflamed Model
L17	101-490-41		BiocheMic	F	Shreya Thiagarajan	Synergism Between Organic Compounds and Bacteria-Derived Nisin as an Alternative to Antibiotics Against Food Pathogens
L16	101-510-B1		BioInfo	M	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	M	Rohan Koodli	Applying Machine Learning to Study Influenza Virus Behavior
L14	101-520-71		BioInfo	F	Emily Chen	Analyzing genetic relationships and linked treatment targets of obsessive-compulsive disorder and generalized anxiety
L13	101-521-51		BioInfo	M	Vikranth Srivatsa	Data Driven Analytics for Healthcare in the Third World
L12	101-530-31		BioInfo	M	Utkarsh Tandon	Diabetic Retinopathy Prognosis via Hypertensive Modeling:ML-based Morphological Computer Vision for Rapid Ophthalmology
L11	101-540-G1		BioInfo	M	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
K11	101-550-C1		BioInfo	F	Mythri Ambatipudi	Using Circadian Rhythm Gene SNPs, Sleep-Wake Phenotypes and MRI Morphometrics to Diagnose Cognitive Impairment Diseases
K12	101-551-A1		BioInfo	M	Advith Gopinath	The Voice of Alzheimer's: An App That Can Diagnose Alzheimer's Disease
K13	101-560-81		BioInfo	M	Neeraj Aggarwal	Using Exploratory Data Analysis to Identify Single Nucleotide Polymorphism in Syndromic Genes Correlated to Autism
K14	101-570-41		BioInfo	F	Nikhita Shanker	Predicting the Oral Toxicity of a Molecule Using a Decision Tree Approach
K15	101-580-H1		BioInfo	F	Catherine Huang	Identification of gene signature profiles of HPV induced oncogenesis through analysis of gene expression data
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
K17	101-610-31		MedHeaSci	F	Priyanka Reddy	Are Your Dietary Supplements Safe? A Study on the Effects of Dietary Supplements on Dugesia dorotocephala

Loc.	Proj. Num.	Team	Field	Gender	Students	Title
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-H1		MedHeaSci	F	Jagruti Kolla	The Effects of Tumeric and Withania Somnifera on a C.elegans Alzheimer's Model
K23	101-670-C2	T	MedHeaSci	F/M	Isha Mehrotra & Rohan Mehrotra	Novel interactions between Parkinson's genes and alpha-synuclein reveal new disease pathways and genetic therapies
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	M	Vinay Senthil	A Robotic Prosthetic with Touch and Temperature Feedback
K26	101-720-81		BiomedEng	M	Rajiv Movva	Concussion Detection: A Deep Learning-Assisted System to Detect Mild Traumatic Brain Injuries in Sports
K27	101-730-41		BiomedEng	M	Maxwell Chen	On the Exploration of Ultrasound as a Nerve Block
K28	101-740-H1		BiomedEng	M	Ishaan Das	BestBandage
K30	102-A10-52	T	Chemistry	M	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	Shomil Jain	Developing an Artificial Turf Field with Embedded Thermoelectric Generators for Heat Absorption & Electricity Generation
K33	102-B20-B1		CheEnvEng	F	Estelle Yoo	Comparison of aqueous ammonia pretreatment to untreated biomass of macroalgae Ulva Lactuca regarding bioethanol producti
K34	102-B21-91		CheEnvEng	M	Jonathan Li	What is the most cost effective and practical method of dissolving active oxygen in unsafe drinking water.
K35	102-B30-71		CheEnvEng	M	Derek Yen	Comparing the viability of different plant materials for the creation of cellulose-derived biofuel
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
K38	102-C10-62	T	EarEnvSci	F/M	Samantha Lu & Victoria Doan & Khiem Nguyen	Lead Concentration in Mytilidae (mussels)
K40	102-C20-22	T	EarEnvSci	F/M	Ujjaini Mukhopadhyay & Justin Callahan	California Drought and El Nino: A study of the effects of drought and El Nino on fertility of the topsoil (Physical Scie
K42	102-C40-B2	T	EarEnvSci	M	Andrew Li & Robert Yang & Matthew Zhou	The effects of different transition metal ions on carbon fixation and silica content of Thalassiosira Pseudonana Diatom
K43	102-C50-81		EarEnvSci	F	Saba Sharfuddin	The Effect of Escherichia coli and Micrococcus luteus on Polyvinyl Chloride
K45	102-C60-32	T	EarEnvSci	M	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	Eduardo Perez	Micrometeorites: Using Household Tools to Construct a Collection Device
K47	102-D20-C1		PhysAstr	M	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?
J47	102-D30-72	T	PhysAstr	F	Thi Nguyen & Trinity Pham	Factors Affecting Magnetic Coil Field Strength

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J46	102-D40-41		PhysAstr	F	Labanya Mukhopadhyay	Study of Micro-robotic Motions in Low Reynolds Number Liquids
J45	102-D50-H1		PhysAstr	M	Vikram Miryala	Optimizing Piezo-Electric Energy Harvesting on a Cantilever
J44	102-D60-D1		PhysAstr	F	Shannon Du	Pendulum - Effects on Gravity and Positions of the Moon.
J42	102-D70-82	T	PhysAstr	M	Francis Indaheng & Leighton Pu	How Does Sugar Concentration Affect Laser Refraction
J41	102-E10-81		ElecEng	F	Ruchika Saswade	Medical Measurement Unit Enhancement: An Efficient Approach to Automatic Measurement of BMI in a Medical Environment
J40	102-E11-61		ElecEng	M	Atul Raghunathan	Recovering and recycling excess thermal energy to improve the net efficiency of common lighting sources.
J39	102-E21-12	T	ElecEng	M	Allen Cheung & David Hoang	Gravity Wheel Electric Generator: Harnessing Free Energy from Ocean Waves
J38	102-E30-H1		ElecEng	F	Vivian Du	An Affordable Approach to Determining an Object's Type of Material Using an Ultrasonic Sensor.
J37	102-E31-F1		ElecEng	M	Gautham Reddy Gujjula	Cooking Fire Prevention System
J35	102-E40-C2	T	ElecEng	M	Sahith Arikati & Aditya Mehta & Ankur Chadha	Personal Energy Assistant
J34	102-E50-91		ElecEng	M	Yash Lala	Electroactive Polymer Based Braille Display
J33	102-E60-51		ElecEng	F	Nikita Goyal	Wearable Posture Correction Device for the Cervical Vertebrae
J32	102-E70-11		ElecEng	M	Mark Shacker	EchoView: A Device to Supplement the Visually Impaired's Ability to Detect Incoming Objects
J30	102-E80-D2	T	ElecEng	M	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	M	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
J27	102-F20-D1		MechEng	F	Lara Kupke	An Application of Ultrasonic Noise on Wind Turbines to Prevent Bat Fatalities
J25	102-F21-A2	T	MechEng	F	Anooshree Sengupta & Maya Kumar	A location-aware sensor-rich mobile robot for human interaction and guidance
J24	102-F30-91		MechEng	M	Scott Bout	Novel Wing Design That Creates Proverse Yaw Without The Use Of Rudders Or A Vertical Stabilizer
J22	102-F40-42	T	MechEng	F/M	Ramon Duran & Isabel Suizo & Nathaniel Nguyen	A Robotic Approach to Pipeline Disasters
J21	102-F50-11		MechEng	M	Kyle Ettinger	Multiroter Disabling Technology
J20	102-F60-E1		MechEng	F	Priscilla Siow	Thermoelectric Powered Heart Rate Monitor
J19	102-F70-A1		MechEng	M	Victor Zhu	Use of Conjugated Organic Dyes in DSSCs
J18	102-F80-61		MechEng	F	Magdalena Mendoza	How does sandbag shape affect the efficacy of water blockage?
J17	102-F90-21		MechEng	M	Abhinav Naikawadi	Developing a Self-Sustainable Aircraft Propelled by the Magnus Effect
J16	102-H10-11		SoftEng	F	Sanika Sahasrabudhe	Ocular Sensors: Detecting Drowsy Drivers and Saving Lives
J15	102-H11-G1		SoftEng	F	Jenny Wang	Using Sound Sensors to Better Manage Traffic
J14	102-H12-E1		SoftEng	M	Nikhil Ajjarapu	A Novel Algorithm to Predict the Expenses of a Natural Disaster based on Geographic Features
J13	102-H13-B2	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
J11	102-H21-C1		SoftEng	M	Ryan Lee	Testing the randomness of computer-generated random numbers
J10	102-H22-A1		SoftEng	M	Jasper Huang	Auditory Analysis of Gait and Footstep Patterns as a Novel Method of Biometrics
H11	102-H31-72	T	SoftEng	M	Kevin Palani & Matthew Pham & Abdul-Basit Ali	Remote Traffic Notifier

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Loc.	Proj. Num.	Team	Field	Gender	Students	Title
H12	102-H32-61		SoftEng	M	Tejasvi Kothapalli	Home Energy Conservation Using The Internet of Things and a Machine Learning Algorithm Based on a Clustering Model
H14	102-H40-52	T	SoftEng	F/M	Karena Kong & Linus Li	Visual-Based Cognitive Facial Expression Recognition Software with the Application of an AI Learning Algorithm
H15	102-H41-41		SoftEng	F	Ashmita Rajkumar	A Novel Approach to an Intrusion Detection System: Detecting intrusions within a Home Network
H16	102-H42-21		SoftEng	M	Surya Auroprem	Designing and implementing a software for reliable authentication using public password scheme with customizable obfusc
H17	102-H50-21		SoftEng	F	Anushka Jogalekar	Using Machine Learning to Detect Computer Network Security Threats
H18	102-H51-H1		SoftEng	M	Nikash Khanna	Are you in Pain? Detecting pain from facial images using different machine learning classification algorithms.
H19	102-H52-F1		SoftEng	M	Shadaj Laddad	A Machine Learning Algorithm for Classification of Discrete Series through Markov Chain Models
H21	102-H60-E2	T	SoftEng	M	Jonathan Yu & Dylan Tran & Kevin Keechempallil	20-20-20 Eye Relaxer
H22	102-H61-D1		SoftEng	F	Vivian Chiang	Motion Detection in Video Surveillance
H23	102-H62-B1		SoftEng	M	Avinash Jain	Crimson - A Service Revolutionizing Online Reading through Audio and Voice Control
H24	102-H71-91		SoftEng	F	Hrishika Basava	Preventative Technology to Avoid the Dangers of Texting While Driving
H25	102-H72-71		SoftEng	M	Druv Pai	A Pragmatic, Zero Knowledge E-Commerce Payment Framework
H26	102-H80-62	T	SoftEng	F	Prachi Bhagavatha & Jasmine Ngo	Improved Cane for the Visually-Impaired
H27	102-H81-51		SoftEng	M	Karthik Ramachandran	Overdose Watch: Tracking Medicine Consumption and Drug Interactions using NFC tags and NIH databases
H28	102-H82-31		SoftEng	M	Abhinav Nimbalkar	Can an application change the usage of water?
H29	102-H90-31		SoftEng	M	Arjun Subramonian	A New Software Approach to Music Transposition through Image Processing
H30	102-H91-11		SoftEng	M	Ashwin Nathan	Evaluating Which Heuristic Algorithm (Genetic vs. Monte Carlo Simulation) Is Better At Predicting Stock Performance
H31	102-H92-G1		SoftEng	M	Aaron Lopes	How Does Crowdsourcing and Social Media Influence a Targeted Audience?
H32	103-310-C1		AnimalSci	F	Dipashreya Sur	Investigating the Kinematics of Canids and Felids
H33	103-410-41		BiocheMic	M	Eric Hooton	A Study on the Effects of Papaya Extract on Breast Cancer
H34	103-430-D1		BiocheMic	M	Advait Patil	Towards Self-Assembled Artificial Cells: Design of a Self-Reproducing Phospholipid Vesicle System
H35	103-440-91		BiocheMic	F	Chengzi Guo	Determine how the opportunistic pathogen Candida glabrata is resistant to antifungal agents when other yeast are not
H36	103-450-51		BiocheMic	M	Paarth Sharma	Does the flask matter to Viable cell density, Incubation time for cell growth and Antibody production in CHO cells?
H37	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
H38	103-530-51		BioInfo	M	Aayush Gupta	A Novel Machine Learning Method to Model Prescription Drugs via Proteomic Signatures for Minimal Polydrug Toxicity
H39	103-610-51		MedHeaSci	F	Rachel New	Do Common Pharmaceuticals Induce Oxidative Stress in Drosophilia?
H40	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

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H42	103-640-92	T	MedHeaSci	F/M	Amy Jin & Jerry Chen	Combating the Obesity Epidemic: Computational Analysis to Identify Driver Genes and Virtual Screening to Discover Novel
H43	103-660-21		MedHeaSci	M	Usok (Joseph) Cho	Targeting Angiogenesis with Moringa oleifera Extract to Treat CRC Adenocarcinoma
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
H45	104-A10-81		Chemistry	F	Amy Dunphy	Preventing Urushiol (Poison Oak)-Induced Dermatitis by Deactivating the Allergen
H46	104-B10-H1		CheEnvEng	F	Samritha Nagesh	Electronic Drop Checker for Measuring Dissolved Carbon Dioxide
H47	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
G44	111-140-F2	T	BehavSci	M	Blair Chen & Eric Chen	Iterated Prisoner's Dilemma System
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
G34	111-410-32	T	BiocheMic	F/M	Erica Chiu & Andrew Rao	The Effect of Designer Peptides on Huntington's Disease
G33	111-420-G2	T	BiocheMic	F	Elizabeth Shen & Megan Li	The Effects of SS-31 on Neuronal Cells Subjected to an Ischemic Environment
G32	111-430-D1		BiocheMic	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.
G28	111-450-42	T	BiocheMic	M	Benjamin Huynh & Dong Nghi Nguyen	What is the effect of the protein digestion activity on GMO foods?
G26	111-460-H2	T	BiocheMic	F	Anika Khunchandani & Shivani Patel	The Effect of Allium Sativum on GLUT-4 production in adipocytes
G25	111-470-D2	T	BiocheMic	M	James Qin & Henry Zhang	The Effects of Exercise Hormone(s) on Telomerase Activity
G24	111-480-A1		BiocheMic	M	Jay Paranjpe	The Identification of Epigenetic Factors that Influence Hydrogenase Synthesis in the Alga Chlamydomonas Reinhardtii
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
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

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						Prediction of Catalytic Residues in Protein Families
G18	111-530-42	T	BioInfo	M	Nathan Wong & Mahesh Murag	NGSomics (Next Generation Sequencing Gen-omics): Parallelized, Intuitive Automated NGS Pipeline and Drug Correlations
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 Their Mitigations Using Computation Modelling Tools
G15	111-541-G1		BioInfo	M	Soham Pardeshi	A Machine-Learning Approach to Computational Genomics
G14	111-550-D2	T	BioInfo	M	Raymond Xu & Shasvat Jawahar	Using Deep Learning Techniques to Evaluate the Effectiveness of Drug Combinations.
G13	111-551-C1		BioInfo	M	Rahul Uppuluri	Relationship Between Mutations in the PDK Butyrate-Regulated Genes and Human Gut Illnesses
G12	111-561-81		BioInfo	F	Tiffany Tsang	Identification of signature genes associated with prognosis of glioblastomas
G11	111-570-61		BioInfo	M	Pravin Ravishanker	ALZCan 2.0: Further Uncovering Genetic Hallmarks of Alzheimer's Using Structural, Functional, and Molecular Neuroimaging
G10	111-580-21		BioInfo	M	Nikhil Manglik	Developing a Predictive Model of Varicella Zoster Virus Spread for the Near Future
F11	111-610-42	T	MedHeaSci	F	Trisha Dwivedi & Kshithija Mulam	A Study of Calcium Channel Blockers and Zinc and Magnesium Supplements in Inhibiting Epileptic Conditions in C. Elegans
F12	111-630-D2	T	MedHeaSci	F	Haripriya (Priya) Govind & Pallavi Narayanan	The Most Efficient and Healthiest Substitution For Eggs in Baking
F13	111-710-E1		BiomedEng	M	Vardhaan Ambati	Therapeutic Using Quantum Dots, Aptamers, and Endonucleases: Applicable to Tumor Heterogeneity and Mutating Viruses
F14	111-730-61		BiomedEng	M	Anish Seshadri	Wearable Diagnostic Instrument for AGE Correlated Degenerative Diseases
F15	111-740-21		BiomedEng	M	Thomas Thach	The Ace of Hearts: Engineering an Artificial Tricuspid Valve to Minimize Regurgitation
F17	111-750-E2	T	BiomedEng	F/M	Allison Cong & Wilson Chung	Engineering a Novel Usage of Microneedles to Efficiently Diagnose Birth Asphyxia in Neonates
F18	111-760-B1		BiomedEng	M	Ganesh Valliappan	CFID: A Novel Machine Learning Algorithm Tool to Identify Cystic Fibrosis
F19	112-A10-72	T	Chemistry	F/M	Hellen Truong & Akaash Mosi	Testing the Effect of Variant Electrolytes Upon Hydrogen Production through Water Electrolysis
F21	112-A20-32	T	Chemistry	F	Riana Karim & Sharon Truong	Effect of Different Tea Varieties on Iron Absorption
F22	112-A30-H1		Chemistry	M	Sam Vuong	Solubility of 3-Pentadecylphenol in Different Solvents
F23	112-B10-H1		CheEnvEng	M	Talal Sohail	Manipulating Solar Panels to Accumulate and Supply Rainwater in a Green Roof System
F24	112-B20-D1		CheEnvEng	M	Bennett Ngan	A Solar Thermoelectric Generator Utilizing a Phase Change Thermal Battery
F25	112-B30-91		CheEnvEng	F	Sophia Lau	Effect of Ultraviolet Radiation on the Photoelectrochemical Conversion System of Organic, Dye-Sensitized Voltaic Cells
F26	112-B50-11		CheEnvEng	M	Akaash Tawade	Using Electromagnetism to Reduce the Viscosity of Crude Oil for Increased Velocity During Transport
F27	112-C10-82	T	EarEnvSci	F	Jennifer Nguyen & Aleisa Quach	The Effects of Phosphate Enrichment on the Growth Rate of Marine Phytoplankton and Domoic Acid Production
F29	112-C20-42	T	EarEnvSci	F	Lily Lim & Angel Tran	Disinfecting Oil Spills
F30	112-C30-11		EarEnvSci	F	Vianna Vo	The Effectiveness of Eggshells as a Method of Recovering Potable Water for Plants

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F31	112-C40-E1		EarEnvSci	M	Hoaian Dang	What is the Optimal Ratio of Sand and Chalk for Producing a Stable Arch?
F32	112-C50-A1		EarEnvSci	M	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	M	Bradley Seamons & Jinwoo Park	Mission: Save California
F34	112-C70-21		EarEnvSci	M	Gajan Nagaraj	Water: Drought or Deluge
F35	112-D10-11		PhysAstr	M	Matthew Hase-Liu	Improving the Efficiency of a Mass Driver with the Use of Nonuniform Coil Density and Current Reversal via H-bridges
F37	112-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	112-D30-A1		PhysAstr	F	Jonelle Pascual	Paper Clips and Surface Tension
F39	112-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	112-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
F41	112-D60-F1		PhysAstr	M	Avinash Rao	The Effects of the Composition of Emission Nebulae on their Level of Star Formation
F42	112-E10-A1		ElecEng	M	Zohair Ahmed	Creating a Pest Control Device for Plants using Electromagnetic Fields
F43	112-E20-61		ElecEng	M	Anish Krishnan	Gasping Grizzly: An Innovative Cost-Efficient System to Detect the Scent of Lung Cancer and Diabetes.
F45	112-E30-12	T	ElecEng	M	Klemen Kotar & Omeed Askary	The Implementation of Graphene Based RFID Chips Into Clothing
F46	112-E40-F1		ElecEng	M	Ali Boubezari	A Smart Diagnosis and Self-Repairing Method for PV Systems Using Cloud Monitoring
F47	112-F10-12	T	MechEng	F	Pragna Upputuri & Prapurna Upputuri	The Application of Electromagnets to Elevators
E47	112-F20-F1		MechEng	M	Eric Wang	An Ungrounded Handheld Kinesthetic Haptic Device Utilizing Gyroscopic Precession
E46	112-F30-B1		MechEng	M	Eric Fu	Kite Runner for Improving Vehicle Fuel Efficiency
E45	112-F40-71		MechEng	M	Shaunak Modak	A Novel Method for Diagnosing Mechanical Component Failure using Sound
E44	112-F50-31		MechEng	M	Louis Nguyen	Alternating-scale like structure
E43	112-F60-G1		MechEng	F	Trishla Pokharna	High Efficiency solar tracking array driven thermoelectric modules to harvest water to alleviate draught
E42	112-F70-C1		MechEng	F	Nidhi Jain	Charging Low Powered Devices by Mountain Biking
E40	112-G10-A2	T	Math	M	Steven Liu & Andrew Yeh	The Mathematical Modeling of Conformational, Vibrational, and Configurational Entropy from Protein Side Chain Folding
E39	112-G20-71		Math	M	Aditya Dhar	Predicting and Identifying Forced Human Displacement Hotspots Using Multiple Linear Regression and Neural Networks
E38	112-H11-11		SoftEng	M	Biswadeep Chatterjee	Optimizing a Decision Tree to Build a Classification Model in Apache Spark
E37	112-H20-F2	T	SoftEng	F	Swethasree Bhattaram & Samiksha Pal	A Machine Learning Approach to Recognition of Early Stages of Carcinoma
E36	112-H21-E1		SoftEng	M	Sritam Mishra	Effectively Preventing Seizures Triggered by Photosensitive Epilepsy through an Efficient Computer Algorithm
E34	112-H30-B2	T	SoftEng	M	Akul Gupta & Himanshu Gautam	An AI system that integrates facial recognition with social networking platforms
E33	112-H31-A1		SoftEng	M	Kaushik Tandon	H.A.W.K. Machine Learning Algorithm for Hate Speech Detection
E32	112-H40-81		SoftEng	F	Sneha Kurella	Enabling the hearing-impaired to perceive audible alarms: An application of Internet of Things (IoT) techniques
E31	112-H41-61		SoftEng	M	Ritwik Dixit	Designing a Secure 3D Graphical Password Scheme

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Loc.	Proj. Num.	Team	Field	Gender	Students	Title
E30	112-H50-41		SoftEng	M	Chaitanya Manchikanti	A different approach for detecting early onsets of Parkinson's Disease.
E29	112-H51-21		SoftEng	M	Alan Chen	Uniquely Determining Identity Using Computer-based Analysis Of Human Speech
E28	112-H60-H1		SoftEng	F	Saumya Baswant	Virtual Water Usage Assistant and Guard
E27	112-H61-E2	T	SoftEng	M	Thomas Tromp & Wesley Chen	Sixth Sense
E26	112-H70-D1		SoftEng	M	Rishi Desai	Using Bluetooth Trilateration for Robot Navigation
E24	112-H71-A2	T	SoftEng	F	Anita Ilango & Megha Ilango	Modeling of EEG Signals and Corresponding Hand Movements for Applications in Brain Controlled Prosthetics
E23	112-H80-82	T	SoftEng	M	Nilay Sawant & Anirudh Balasubramaniam	Parking Genie: A computer vision application that expedites the parking experience through dynamic image differentiation
E22	112-H90-51		SoftEng	M	Anurag Singh	Wearable Device to Enable Independent Living for Senior Citizens
E21	113-310-E1		AnimalSci	M	Vikram Venkatram	Sexual dimorphism in craniodental morphology of southern sea otters (Enhydra lutris nereis)
E20	113-411-41		BiocheMic	F	Sachi Shirali	Antibacterial Effects of Essential Oils on Escherichia Coli
E19	113-440-B1		BiocheMic	M	Venkat Sankar	Efficient Generation of Induced Neuronal Cells from Fibroblasts: Towards a Cure for Neurodegenerative Diseases
E18	113-450-71		BiocheMic	F	Divya Sundararajan	The Effects of Phytonutrients on Oxidative Stress in the Context of Cancer
E17	113-460-31		BiocheMic	F	Laura Cao	Molecular Cloning of an shRNA plasmid to knock down a novel protein
E16	113-470-G1		BiocheMic	F	Marilyn Zhang	Exploring Extracellular Vesicle-mediated Breast Tumor Communication with Macrophages in Tumor Progression
E15	113-480-C1		BiocheMic	F	Shivani Bhandarkar	RNA Sequencing of Human Blastocoel Fluid to Determine Embryo Development
E14	113-490-81		BiocheMic	M	Pranav Lalgudi	Identification of Transdifferentiation Regulating Genes in Caenorhabditis elegans
E12	113-510-E2	T	BioInfo	M	Parth Pendurkar & Aashish Jain	Optimizing Existing Models of RNA Sequence Data Analysis: A Novel Infrastructure to Advance the Timeline of Current Meth
E11	113-511-D1		BioInfo	M	Antony Sagayaraj	Investigating Thermal Adaptations Through Protein Stability in Sea Urchins
E10	113-520-A2	T	BioInfo	F/M	Evani Radiya-Dixit & David Zhu	Automated Classification of Benign and Malignant Proliferative Breast Cancer Lesions
D10	113-521-91		BioInfo	F	Avanika Narayan	Computational genetics uncovers potential new biomarkers for heart failure
D12	113-530-62	T	BioInfo	F/M	Joyce Huang & Peter Wu	Analyzing Networks Conducive to Synchronization of Neural Populations
D13	113-540-31		BioInfo	M	Suresh Talapaneni	Discovering novel gene expressions in noncoding regions of DNA using RNA-seq
D14	113-550-G1		BioInfo	M	Nikhil Cheerla	MicroRNA based Pan-Cancer Diagnosis and Treatment Recommendation
D15	113-560-B2	T	BioInfo	F/M	Steven Cao & Neymika Jain	Using Feature Extraction for Automated Scoring of HER2 Immunohistochemistry Images
D16	113-570-81		BioInfo	M	Aman Navani	Global Health Challenge: A Statistical Machine Learning Method for Health Risk Assessment
D17	113-580-41		BioInfo	M	Sajeev Saluja	Computational analysis of Als3 amyloid-like aggregation in Candida albicans
D18	113-610-71		MedHeaSci	F	Maya Kalbag	The Effects of Antihistamines on the Sleep Patterns of Juvenile and Aged Drosophila
D19	113-620-31		MedHeaSci	F	Zunera Ghalib	Effects of Altering Polyphosphate in Rotenone-induced Drosophila Models of Parkinson's Disease
D20	113-630-G1		MedHeaSci	F	Shriya Perati	The Ras/MAPK Pathway in Autism: Study of Synapse Formation in Patient Derived Neurons
D21	113-640-C1		MedHeaSci	M	Krishna Sunder	The effect of ARHGAP28 on human airway smooth muscle contraction
D22	113-650-81		MedHeaSci	F	Jessie Zhao	In Vitro Study of Desethylhydroxychloroquine's Anti-inflammation

Loc.	Proj. Num.	Team	Field	Gender	Students	Title
						Efficacy in Human Macrophages
D23	113-710-G1		BiomedEng	M	Arvind Sridhar	Engineering Low-Cost Scaffolds Doped with Nano Graphene Oxide: A Novel Approach to Cancer Therapy and Tissue Engineering
D24	113-730-81		BiomedEng	M	Scott Song	Development of a Novel Microfluidic System to Study Neurodegenerative Disorders
D25	113-740-41		BiomedEng	F	Amulya Vadlakonda	A Non-Invasive LDL Cholesterol Monitor
D26	114-C10-B1		EarEnvSci	F	Angelica Nemani	Evaluating outdoor water conservation in the San Francisco Bay Area across socio-economic groups during a drought.
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
D29	114-D20-G1		PhysAstr	F	Sneha Bhetanabhotla	Reducing Noise Level in High Temperature Superconducting SQUIDs
D30	114-D30-B2	T	PhysAstr	M	Shishir Dholakia & Shashank Dholakia	A Search and Exploration of Multi-Exoplanet Systems Using Novel Photometric and TTV Algorithms for the K2 Mission
D31	114-D40-81		PhysAstr	F	Annabel Marks	V1149 Observations
D33	114-H10-42	T	SoftEng	M	Vedaad Shakib & Andrew Tierno	Computer Simulation of Free-Surface Fluid Flow using MPS
D34	114-H30-E1		SoftEng	M	Allen Chen	A Novel Method of Paraphrase Identification in Natural Language Processing
D35	114-H40-A1		SoftEng	M	Kushagro Bhattacharjee	SensePoint: Helping Blind and Visually Impaired Students Learn
D36	114-H50-52	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
D37	114-H60-21		SoftEng	M	Kartik Chandra	Verification of Type Systems with Symbolic Execution
D39	114-H70-E2	T	SoftEng	M	Rishab Gargeya & Manan Shah	Automated Diagnosis of Diabetic Retinopathy in Fundus Images: A Novel Synthesis of Biological and Data Driven Approaches
D40	121-110-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	121-120-91		BehavSci	M	Ryan Le	The Effect of Variable Schedules of Reinforcement on Response Rate in Video Games
D42	121-210-51		PlantSci	M	Kevin Ly	The Bacterial Resistance of Elicited Phytoalexins in Arabidopsis
D43	121-220-11		PlantSci	F	Natalie Chau	How do treated inorganic seeds affect the quality of soil in comparison to grown organic seeds?
D44	121-230-E1		PlantSci	F	Diana Trinh	Effects of Pesticide Exposure on Plant Growth
D45	121-310-E1		AnimalSci	F	Violet Wallerstein	The Effect of Resveratrol on the Lifespan of Nutritionally Stressed Drosophila
D46	121-320-A1		AnimalSci	F	Gabriella Abaci	The Effects of Cupric Ions on the Regeneration of Dugesia dorotocephala
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
C46	121-340-12	T	AnimalSci	F/M	Jenny Tran & Jack Shannon	Dare to Fly: Implications of Linked Phenotypes in Captive Populations
C44	121-350-E2	T	AnimalSci	F	Jennifer Mosch & Barah Aljewad	Effects of Cigarette Litter on the Urban Ecology of Armadillidium vulgare
C43	121-360-B1		AnimalSci	F	Divya Veerapaneni	Why and how jumping galls hop?
C42	121-410-52	T	BiocheMic	F	Sabrina Lazar & Niharika Desaraju	The Effects of Chitosan on a Model of the Blood-Brain Barrier in Alzheimer's Disease
C41	121-420-21		BiocheMic	F	Kylie Huch	Restoring Extinct Genes via CRISPR/Cas9 Technology
C40	121-430-F1		BiocheMic	F	Elizabeth Shroyer	The Effect of Essential Oils an as Antibacterial Agent
C39	121-440-B1		BiocheMic	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

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Loc.	Proj. Num.	Team	Field	Gender	Students	Title
C35	121-520-A2	T	BioInfo	M	Homza Hireed & Luis Gaitan	Factors in the Epidemiology of Airborne Transmission
C33	121-620-22	T	MedHeaSci	F/M	Austin Le & Aline Hoang & Deanne Micaela Cruz	Medicine Distribution
C32	121-710-G1		BiomedEng	M	Mason Julian	Fabricating an LED Based Phototherapy Device for Treatment of Neonatal Hyperbilirubinemia
C31	122-A10-A1		Chemistry	F	Shruti Juneja	Derivatized starch-based bioplastics
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		CheEnvEng	M	Reid Barton	Perovskite Crystals: A Bright Future in Solar Cell Technology
C27	122-C10-A2	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	T	EarEnvSci	F	Josephine Chu & Purnima Seshadri	The effects of the toxicity of cigarette butts and their chemical components on marine life
C24	122-C30-22	T	EarEnvSci	F/M	Yovani Hernandez & Isela Medina	The Effect of Perforated Pipes on Liquefaction
C23	122-C40-F2	T	EarEnvSci	F	Aditi Mittal & Aashia Bajwa	Effect of Various Desalination Techniques on the Growth of Mung Beans
C21	122-C50-B2	T	EarEnvSci	F	Daniela Velazquez & Melissa Gutierrez & Daena Valencia Samora	Wire Mesh Adobe
C20	122-D10-31		PhysAstr	F	Jocelyne Luna	Can silk from a silkworm cocoon reduce the impact force of a falling object?
C19	122-D20-G1		PhysAstr	M	John Browne	Durable Paint
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
C13	122-D50-32	T	PhysAstr	F	Kayla Gee & Tanvee Desai & Adeline Nguyen	POP! Goes the Balloon
C12	122-E20-81		ElecEng	F	Erin Kim	Body Heat Powered LED Vest
C11	122-E30-41		ElecEng	F	Maya Varma	Autonomous Smartphone-Controlled Robotic Wheelchair with iBeacon-Assisted Navigation
C10	122-E40-H1		ElecEng	M	Paul Dennig	Utilizing Supercapacitors in Improving State-of-Health of Batteries over Time in Electric Vehicles
B10	122-E50-D1		ElecEng	F	Jenna Huynh	Drones
B11	122-F10-41		MechEng	M	Adesh Kumar	Can we make 3D prints stronger?
B13	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	M	Kevin Sanchez	How much force is needed to run on water?
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
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
B20	122-H20-11		SoftEng	F	Kim Ngo	Mobile Application Monitor of Areas Inducing Plant-Derived Respiratory Allergies
B21	122-H21-F2	T	SoftEng	M	Kevin Guillen & Issac Sebastian	Wireless Ad Hoc Communication Algorithm
B22	122-H30-E1		SoftEng	M	Sanjay Mohan	Application of Artificial Neural Networks in Handwritten Text Processing

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B24	122-H31-B2	T	SoftEng	M	Kenneth Doan & Arman Amjad & Garrett Davies	Improving the white cane for the blind
B26	122-H41-72	T	SoftEng	M	Sammy Khadder & Tony Jojan & Luis Gallegos	Water Displacement App
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
B29	122-H70-E2	T	SoftEng	F	Arianna Groetsema & Allison Zhang	The Expansion of Mobile Healthcare through the Development of HeMoClo
B30	122-H80-B1		SoftEng	M	Nathaniel Stearns	Money Laundering Detection and Analysis (MLDA)
B31	122-H90-71		SoftEng	F	Manogna Vemulapati	A Numerically Stable Scaling Method for Hidden Markov Model Trained in MapReduce
B32	123-210-71		PlantSci	M	Nathan Mallipeddi	Investigating the Role of the Circadian Clock in Heliotropism
B33	123-410-81		BiocheMic	F	Natalie Simonian	The Role of Vcam1+ Sinusoidal Endothelial Cells in Hematopoietic Stem Cell Trafficking
B34	123-430-H1		BiocheMic	F	Shivani Gohil	Building a Reporter Assay to Detect EDCs, Endocrine Disrupting Compounds
B35	123-440-D1		BiocheMic	F	Julia Cho	Genetically encoded bioluminescence resonance energy transfer (BRET)-based Ca^{2+} indicator for in vivo imaging
B36	123-460-51		BiocheMic	F	Durga Ganesh	Angiopoietin-2 Induces Myeloid Cell Adhesion via G Protein-Coupled Receptor X
B37	123-510-H1		BioInfo	F	Sadhika Malladi	Application of EMDomics to Identify Age-Associated Expression and Treatments in Cancer
B38	123-520-D1		BioInfo	M	Jonathan Ma	Genomics-Based Cancer Drug Response Prediction through the Adaptive Elastic Net
B39	123-530-91		BioInfo	F	Swetha Revanur	Machine Learning Framework for Multi-Omics Discovery and Characterization of Gene-Gene Interactions Impacting Disease
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
B42	123-550-11		BioInfo	M	Daniel Guo	Analysis of Heterochiasmy and Recombination Rates in Gibbons
B43	123-610-91		MedHeaSci	F	Emily Pettitt	The Effects of CoQ10 on Parkinson's Disease
B44	123-620-51		MedHeaSci	M	Anin Sayana	Accelerating Cancer Immunotherapy: Optimization of an EGFRvIII-based Cancer Vaccine via Computationally-aided Analysis o
B45	123-710-11		BiomedEng	M	Shreyan Jain	Feedback of Respiratory Patterns to Improve Non-Sedated Pediatric MRI
B46	123-720-E1		BiomedEng	F	Sherry Zhou	Rapid, Low Cost, On-Chip Isolation and Enrichment of Exosomes for Cancer Early Detection
B47	124-A10-C1		Chemistry	F	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	F	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
A45	124-G10-F1		Math	M	Timothy Varghese	The Growth of Lowest Goldbach Primes
A44	124-H10-62	T	SoftEng	M	Xavier Loinaz & Antoine Nguyen	The Design/Utilization of Visual Recognition Software to Analyze Neurosurgery Video