

List of Projects for 2018		
001	An Investigation into Adolescent Shame	Behavioral/Social Science
002	The Effect of Ethanol on Zebrafish Embryos Compared to Human Embryos with FAS	Behavioral/Social Science
003	The Effects of Different Breaks on Student Focus	Behavior/Social Sciences
004	The Effects of Gender on the Pre-Operational Stage of Jean Piaget's Theory of Cognitive Development	Behavior/Social Sciences
301	Testing the Purported Antibacterial Efficacy of Common Natural Foods: An In-Vitro Study	Biology
302	Yeast and DNA Damage	Biology
303	Ethanol Effects on Developing Zebrafish: Neurotoxicity & Mortality	Biology
304	A Novel Study on the Viability of Probiotics When Fortified in Infant Foods	Biology
305	The Effects of Second Hand Electronic Cigarette Vapor on Drosophila	Biology
306	Metformin as a Novel Neurogenic Method of Methylmercury Neurotoxicity Symptom Mitigation in Danio rerio as a Model for Human Fetuses	Biology
307	Role of GATA4 in Early Gastrointestinal Tract Development	Biology
308	Analysis of Bacteria in a School Environment	Biology
309	Comparing the Reaction of Hydrogen Peroxide and Catalase Extracted from Different Species of Animals' Livers	Biology
310	Computer Modeling of Akt-Mediated Phosphorylation of Hsp70 to Understand the SOD2 Targeting to Mitochondria for Regulation of Oxidative Stress	Biology
501	Colored Lights Effect on Aquaponics Water Quality Influenced by Bacterial Cultivation	Environmental Sciences
502	Comparison of Fecal Coliform in Urbanized vs Non Urbanized sections of the Kinnickinnic River	Environmental Sciences
503	Development of a Grass Variety as a Way to Remove Nitrogen from Water Environments	Environmental Sciences
504	A Device to Minimize Bat Mortality from Wind Turbine Collision	Environmental Sciences
505	Recirculating an Oil Water Mixture Using Various Filtration Devices	Environmental Sciences
506	The Effects of Water Quality by Testing Different Locations Along the Milwaukee River	Environmental Sciences
507	The Growth of Chlorella and Spirulina for Biofuel	Environmental Sciences
508	The Effect of Man-Made Dams and the Surrounding Ecosystem	Environmental Sciences
509	The Imidacloprid effects on daphnia and duckweed	Environmental Sciences
601	Improving Perovskite Solar Cells by Engineering a Water Resistant Environment for the Active Layer	Engineering

602	Redesigning River Turbines to Produce Electrical Power More Efficiently	Engineering
603	Improving Efficiency of Wind Turbines by Altering the Blades	Engineering
604	Device for the Removal of Carbon Dioxide and Particulate Matter from Vehicle Exhaust	Engineering
605	Application of Graphene: Water Filter With Removable Sleeves	Engineering
606	3D Printing of Bioengineered Human Cardiac Stem Cells	Engineering
607	Guitar String Modifications for Optimizing the Overtone Scheme to the Golden Ratio of Phi	Engineering
608	Effects of Droplet Size and Microstructure on Contact Angle of Ductile Iron	Engineering
609	The Fabrication of an Affordable and Accessible Radiocarpal Joint	Engineering
610	Make it Solar	Engineering
611	Studies on Hot Tearing Tendencies of Aluminum Cast Alloys Poured into Sand Molds	Engineering
612	Using BLE (Bluetooth Low Energy) Beacons and 2D (Two Dimensional) Trilateration in a Mobile Application to Assist People Suffering From Severe Vision Loss and Blindness with Home Navigation and Spatial Awareness	Engineering
613	Effect of Surface Roughness and Time-to-Service on Contact Angle in Ductile Iron Alloys	Engineering
614	Developing a Cyclone Impact Model	Engineering
801	Effect of Repeated Concussions on the Neurological and Psychological Health of High School and College Athletes	Medicine/Health
803	Atrophy of the Hippocampus and Dilation of Brain Ventricles as Biomarkers for Alzheimer's Disease	Medicine/Health Sciences
804	Vaccine Associated Autoimmune Diseases in Canines: Immune Mediated Hemolytic Anemia	Medicine/Health
805	The Influence of Macrophages on the Expansion of Ovarian Cancer Metastases	Medicine/Health Sciences
806	Role of Telomerase in Vascular Function and Exploration of Mitochondrial Dynamics: A Novel Approach to Treatment of Vascular Dysfunction	Medicine/Health Sciences
807	Correlation of Versican Proteolysis to T-cell Infiltration in Myeloma Bone Marrow	Medicine/Health Sciences
808	Genetic Mutations and their Effect on Responses to Cancer Treatment	Medicine/Health Sciences
809	Regulation of Antioxidants in Cardiovascular Disease: A Study of Protandim on Nrf2 Regulation	Medicine/Health Sciences
901	Space Debris Removal via a Rotating Tether	Physics/Math/ Computer Science
902	Globular Star Clusters	Physics/Math/ Computer Science
903	The Effect of Various Flow Velocities of a Solution Containing Microbubbles on Microbubble Circulation Within a Capillary Mimicking Closed Circuit Flow Phantom	Physics/Math/ Computer Science

904	Thermoelectric Effect	Physics/Math/ Computer Science
905	Solar Cells - materials research to protect while maintaining power output	Physics/Math/ Computer Science
906	Creating Rerouted Flight Schedules To Maximize Profit Given a Schedule Perturbation	Physics/Math/ Computer Science
907	Securing Artificial Intelligence: A Novel Neural Network Structure to Defend Against Adversarial Examples	Physics/Math/ Computer Science
908	Metropolitan Area Evacuation Using Genetic Algorithms	Physics/Math/ Computer Science