SESEY 2017 Project Selection			
Lead	**Topic Area**	**Mentors**	**Project**
Lewis Semprini	EnvE/BioE/ChE	Grant Kresge, Eileen Lukens, Hannah Rolston	Aerobic Cometabolism for the Biodegradation of Groundwater Contaminants
Lewis Semprini	EnvE/BioE/ChE	Mitchell Rasmussen, Emma Ehret	Anaerobic Dehalogenation to Transform Toxic Environmental Contaminants
Ethan Minot	Physics/Materials	Carly Fengle and Mich Senger	Nanotechnology: Carbon-based electronics with Graphene
Tyler Radniecki	EnvE/BioE/ChE	Rich Hilliard	Identifying optimal surfaced for anammox biofilm formation
Chi-hung Chang	ChE/Materials	Zhongwei Gao, David Catherall	Fabrication of patterned nanostructures using a microreactor assisted nanodeposition process
Nick AuYeung	ChE/EnvE	Blake Lopez, Lucas Freiberg	Thermochemical Energy Storage Methods to Control Residential Temperatures
Christine Kelly	BioE/ChE	Fox Avery, Samantha Carrothers	Why do we care about Nitrate in Water? Find out….it's important!
Liney Arnadottir	Materials/ChE	Kofi Oware Sarfo, Qin Pang	Using A-Ray Diffaction to Determine Aomic Structure of Materials - Computations
Melissa Santala	Materials/ChE	Ari Clauser, Torie Bird, Mark Wisneck	Using A-Ray Diffaction to Determine Aomic Structure of Materials - Experiments
Greg Herman	ChE/Materials	**Joe Bergevin and Stebby Varghese John**	Deposition and Functionalization of Sensor Thin Films - Wearable Sensors for Diabetics
Bo Sun	Physics/Biophysics	Jihan Kim, Chris Eddy	Measuring the force generation of "worms" in a rubber band matrix
Elain Fu	BioE	Kassie Odo, Arianna Nejely	Patterning Fabrics for Wearable "fabric-based" Electrochemical Sensors (2 projects)
Yigit Menguc	Robotics/ME	Leah Hanen, Khawater Hussein	Wearable Liquid Metal Tension Sensors
Travis Walker	BioE/ChE	Hope Wolterman	Cervical Mucus Fluid Properties During Ovulation Cycle - Improvong the Insler Score
Travis Walker	ChE/Materials	Zach Wallace	Inks of the Future- Ink Jet Printing with fluids that exhibit elastic properties
Travis Walker/Skip	ChE/Materials	Conor Harris, Bailey Puetz, Ranuka Bhatt	3D Printing - New Materials Investigation
Travis Walker/Skip	ChE/BioE/Materials	Brit Swann, Cindy Wong	The Orbitz Drink - How do those Beads Stay Suspended? Yield Stess in fluid gums.
Travis Walker/Skip	ChE/Materials	PJ Adiga, Parker Busch	Cleaning Flows for Silicon Wafers - Flushing and Wiping
Skip	ChE/ME	Davis Jacob, Elena Meza Wynkoop, Claire Niemet	Saving Energy -- Turbulent Pipe Flow Drag Reduction with Large Molecules
Skip	ChE/BioE/Materials	Hassan Raheem, Kira Ward, Austin Kearns	Spinal Disc Repair-- Composite Hydrogels (sponges)
Skip	ChE/Materials	Louis Dumartin, Dan Foster	CSI Plastics: Who committed the Murder and with which Plastic Weapon?
Skip	BioE/ChE/Materials	Molly Carpenter, Abby Griffiths	PVA Weak Gels Containing HA for Wound Applications
Skip	BioE/ChE/Materials	Molly Carpenter, Abby Griffiths	Gellan Gum- MetaMix Hydrogels for the Treatment of 3rd Degree Burns and Diabetic Ulcers
Eugene and Yue Zhang	CompScience	Botong Qu, Arasha Shahbaz Badr, Pragyna Naik, Jessie Li,	Multi-Style Pen and Ink Drawing (3D Computer Graphics)
Eugene and Yue Zhang	CompScience	Botong Qu, Arasha Shahbaz Badr, Pragyna Naik, Jessie Li,	Rendering Scenes by Controlling Light Reflection (3D Computer Graphics)
Alicia Lyman-Holt	CE/Coastal	Alicia Lyman Holt	Tsunami Research at the O.H. Hinsdale Wave Basin
Michael Olsen	CE/Surveying	Ezra Che, Matt O'Banion	Applied Video-Gaming - Modelling the World in 3D (Civil Eng. Surveying and Mapping)
			ChE = Chemical Engineering
			BioE = Bioengineering
			EnvE = Environmental Engineering
			Materials = Materials Science and Engineering
			ME = Mechanical Engineering
			Robotics = ME and Materials
			CE = Civil Engineering