

SESEY 2012 Projects

Faculty	Mentor(s)	Project Title
Dr. Christine Kelly (BioE)		
Bioprocess ChE/BioE	Emily Oldenkamp/Lynda Bradley - Gleeson 202	Making enzymes with yeast in bioreactors
Bioprocess ChE/BioE	Nancy Lam - Gleeson 003	Ultrafiltration - a method to purify proteins
Bioprocess ChE/BioE	Curtis Lajoie- Gleeson 202	Genetic engineering to produce a recombinant enzyme
Bioprocess ChE/BioE	Jimmy Beaty - Gleeson 003	Using respirometry to design a system to 'de-stink' a lagoon!
Bioproducts ChE/BioE	Ian Boucher - Gleeson 003	Product design - how good are glucose meters?
EnvE	Lauren Janson/Robert Hannah - Gleeson 003	Ion exchange for water treatment
EnvE	Josh Marsh and Robin Wagner - TWG/Merryfield	Treating wastewater in wetlands
Dr. Skip Rochefort	Nick Kraaz (Lab Manager)	
Materials/EnvE/ChE	Jolynn Meza Wynnok/Talia Helman - Gleeson 206	Green building: Recycled plastics as insulation materials
Materials/EnvE/ChE	Vanessa Kung/Kayla Al-Khaledy - Gleeson 206	CSI Plastics: Finding the Killer!
Materials/BioE/ChE	Allison Lind/Nick Agalzoff - Gleeson 206	Hydrogels and Composites for Spinal Disc Applications
Materials/BioE/ChE	Heidi Oldenkamp/Kaylee Duchateau - Gleeson 206	Rheology (flow properties) of Household Products
Materials/BioE/ChE	Brynn Livesay - Gleeson 206	Drug Delivery Using Sodium Alginate Beads
ChE/EnvE	Audrey Oldekamp/Emma Brazell - Gleeson 206	Gulf Oil Spill Remediation: Absorbant Materials
ChE/EnvE	Nick Kraaz - Gleeson 206	Contact Angle for Coating of materials in microelectronics and biomedical applications
Dr. Adam Higgins (BioE)	Bronson Ayala and Allison Fry- Gleeson 204	Removing blood preservatives after cryopreservation
Dr. Milo Koretsky	Rachel White/Koretsky - Graf 207	Improving the learning of concepts in chemistry, physics, math, materials science, and chemical engineering
Dr. Jeff Nason	Brian Smith - Merryfield 107	Titanium and gold nanoparticles in the environment: where will they go and should we be concerned
Dr. Alex Yokochi (CBEE)	Jacob Lum- Gleeson 003	Zinc bromine batteries for harvesting wave, solar, and wind energy
Dr. Ethan Minot (Physics/Nano)	Tristan Deborde- Weniger 317	Nanotechnology: Carbon-based electronics