2015 Middle School
Summer Engineering Technology Program

Introduction to Ocean Engineering
FAU SeaTech
101 North Beach Road, Dania Beach, FL 33004-3023
Phone: 954.924.7001 | NOTE: Students must bring lunch.
No food services available at this campus.

Instructor: Javed Hashemi, PhD
Offered Week 2: June 15-19 and Week 3: June 22-26

Learn more about the field of engineering

- Introduction of engineering topics to future engineers
- Promotion of critical thinking through engineering activities
- Team building and competitive activities

Schedule	Morning Session starts at 9 a.m.	Afternoon Session ends at 4 p.m.
Monday	- Overview of Ocean Engineering major and activities planned for the week - Tour of surface vehicle lab	- Lesson on boat design and propulsion - Build a solar boat - Enter your boat in a speed and directional control competition
Tuesday	Robotics - Lesson on robot design - Design a hydraulically actuated robotic arm on paper - Tour of Robotic Fish Lab	- Build the hydraulically actuated robot - Enter your robotic arm in a competition
Wednesday	Ocean Energy : Current, Tidal, and Wave Energy - Design a wave and wind energy harvesting surface vehicle - Tour of Ocean Energy lab	- Build a wind and wave energy harvesting boat - Enter your boat in a competition
Thursday	Corrosion - Lesson on why things corrode - Tour of Corrosion lab	- Design a corrosion cell - Print your name on an aluminum foil using corrosion principles.
Friday	Acoustics (9 a.m. - 1 p.m.) - Design/test an underwater communication system - Pizza Party & Certificates	*No afternoon session*