



Advanced Manufacturing Composites Immersion Series 3-Day Course for Science & Engineering Students

Dates: August 12-14, 2015
Time: 8:30 am - 4pm each day
Location: University of Delaware, 201 Composites Manufacturing Science Laboratory,
Delaware Avenue & Academy Street, Newark, Delaware 19716-3144

Course Outline

August 12—Introduction to Composites

8:30 Welcome (DVIRC & University of Delaware)
8:45 Lecture: Introduction to Composites
10:00 Break
10:15 Lecture: CFRP in Automotive Applications
12:00 Lunch and Networking
1:00 CFRP Production Systems
2:15 Break
2:30 Materials and Supply
4:00 Adjourn

August 13—Manufacturing and Design of Composites

8:30 CFRP Manufacturing
10:30 Break
10:45 Material Characterization
12:00 Lunch
1:00 Design of Composites
2:30 Break
2:45 Material Testing
4:00 Adjourn

August 14—Lab and Hands-on Experience

8:30 Materials Characterization (Chemical and mechanical)
10:30 Break
10:45 Thermoforming of Thermoplastics
12:00 Lunch
12:45 Liquid Molding Processing
2:30 Break
2:45 Review of Results/ Discussions
3:15 DVIRC Debrief/Course feedback
4:00 Adjourn

Note: This program is offered through support from the U.S. Department of Labor Employment & Training Administration.