A Center of Excellence

AMTAS

Advanced Materials in Transport Aircraft Structures

AMTAS SHORT COURSE ON

Advanced Composite Materials and Structures

Sponsored by the University of Washington's

Center of Excellence for Advanced Materials in Transport Aircraft Structures (AMTAS)

March 20–22, 2012
Tuesday–Thursday
University of Washington
Seattle, Washington

Advanced composite materials are used in many industries including aerospace, marine, automotive, medical, energy, and recreation. Striking examples of the expanding use of composites are the Boeing 787 and Airbus A350, as these materials improve performance and save weight. To better prepare engineers in applying these new material technologies to the design and manufacturing of composite structures, AMTAS is pleased to offer this special opportunity in advanced composites education.

This 2.5-day (20-hour) short course provides an introduction to the science and technology of composite materials and structures. The course will begin with a broad overview of polymeric composites, followed by detailed discussions of constituent materials, manufacturing processes, tooling, analysis methods, non-destructive inspection, and repair. Course content does not include any proprietary or export-controlled information.

After successfully completing this course, the student will be able to identify the unique characteristics of composites and apply the fundamental and practical knowledge necessary to build and maintain composite structures. A more detailed syllabus is available at **http://depts.washington.edu/amtas/courses/CompOverview/outline2.html**.

Who Should Attend

- Recently hired engineers
- Experienced design engineers, stress analysts and manufacturing engineers seeking composite fundamentals and application knowledge
- Aeronautical, civil, mechanical, and materials sciences engineers looking to round out their background in composite structure and design

Prerequisite

To participate in the AMTAS Institute, students must have a B.S. in aerospace engineering, mechanical engineering, materials sciences engineering, civil engineering or equivalent educational background.

Cost

$1,250. Groups of five or more from the same organization receive a discount of $100 off the per-person registration fee. Registrations must be submitted together.

To Register

Visit **http://depts.washington.edu/amtas/courses/CompOverview/index.html** for course outline, instructor list and registration information.

Deadline: Register by **February 20, 2012**.
Early registration is advised as course enrollment is limited.

Questions

Contact Ellen Barker at 206-543-0299 or nelle@uw.edu.