EMAT 463 Composite Materials

3 Cr. (Hrs.:3 Lec.)

Provides an introduction to the materials selection, mechanical performance, structural design, and processing of composite materials. Includes methodology for prediction of composite properties based on monolithic materials properties and geometry. Polymeric, ceramic and metallic composites are emphasized along with engineering and design applications. The course culminates with a composite design project. **Prerequisite:** EMAT 251 or EGEN 251, EGEN 305; or Consent. (2nd)