All research students shall undergo training in following items.

Read ‘MFGE 4367’ notes and prepare notecards
Read ‘Composites and Plastics Lab’ Rules and Policies
Safety Trainings (Available on Composites Lab Tracs site)
  a. Read ‘Hazardous Communication’ presentation and have passed the Quiz on TRACS
  b. Read ‘Respirator Training’ presentation and have passed the Quiz on TRACS.
  c. Read ‘Hazardous Waste’ presentation and have passed the Quiz on TRACS.
  d. Schedule a PFT (Pulmonary Function Test) with the Respiratory Care Department and have passed it.
  e. Schedule to be Fit-Tested on Respirator with Environmental Health, Safety and Risk Management (EHS & RM) and have passed it.

Read on website www.composites.engineering.txstate.edu Equipment, Research, Education*
Composites site on TRACS: SOP of machines, Literature review, ASTM std.

GATO Intent Management Training to maintain website.

Graduate Student Copyright Workshop
Graduate Student Thesis Workshop
Library Training (one-on-one session): Literature Review, use of RefWork,
How to use references in MS-Word?
Training on SEM at UT-Austin and Physics
Understanding MSDS and TDS of resins and fabrics
Appropriate labeling of chemicals

Chemical Inventory (Getting familiar with chemicals)
Master Lab Inventory (Getting familiar with locations of consumables)

Plastics Manufacturing
  Injection molding
  Extruder
  Compression molding
Composites Manufacturing
  Understand fabric styles
  Hand layup
  VARTM (use THINKY and vacuum chamber)
  Bench oven
  Programmable oven
  Compression press
  Tabbing tension specimens
  High shear mixing
  Sonication
  Nanoroom and Glovebox protocols

Characterization
  Gel time study using rotary viscometer
  Reading appropriate ASTM standards
  TMA – CTE
  MTS- Mechanical tests as per ASTM: tension, compression, shear, ILSS, flexure
  Learn how to analyze the mechanical test data
  Instron Impact Tests (Biaxial and Izod)
  Viscometer

Water-jet cutting
  Thermal imaging camera
  Barcol hardness
  Read: TGA, DSC, DMA, and TMA

Software
  MTS (Multi-Purpose Testware MPT)
  Instron (VisualImpact)
  TMA (Universal Analysis)
  Origin Lab (for Graphs)
  Extruder