



South Central College

## ABCT 2820 Composites

### Course Outcome Summary

#### Course Information

<b>Description</b>	This course teaches students identification and safe repair of interior and exterior automotive plastics including sheet molded compound and fiberglass.
<b>Total Credits</b>	2
<b>Total Hours</b>	80

#### Types of Instruction

Instruction Type	Credits/Hours
Lecture	
Lab	

#### Pre/Corequisites

None

#### Institutional Core Competencies

Civic Engagement and Social Responsibility - Students will be able to demonstrate the ability to engage in the social responsibilities expected of a community member.

Communication - Students will be able to demonstrate appropriate and effective interactions with others to achieve their personal, academic, and professional objectives.

Critical and Creative Thinking - Students will be able to demonstrate purposeful thinking with the goal of using a creative process for developing and building upon ideas and/or the goal of using a critical process for the analyzing and evaluating of ideas.

#### Course Competencies

- The following list of course goals will be addressed in the course. These goals are directly related to the performance objectives.[HP-I] designates an individual goal. [HP-G] designates a group goal.**
- Exhibit professionalism.**
- Comply with personal and environmental safety practices associated with clothing and the use of gloves; respiratory protection; eye protection; hand tools; power equipment; proper ventilation; and the handling, storage, and disposal of chemicals/materials in accordance with local, state, and federal safety and environmental regulations.**

4. [HP-I] Identify the types of plastics; determine repairability.
5. [HP-I] Identify the types of plastic repair procedures; clean and prepare the surface of plastic parts.
6. [HP-G] Replace or repair rigid, semi-rigid, and flexible plastic panels.
7. [HP-G] Remove or repair damaged areas from rigid exterior composite panels.
8. [HP-G] Replace bonded rigid exterior composite body panels; straighten or align panel supports.
9. [HP-I] Identify the types of rigid, semi-rigid or flexible plastic parts to be refinished; determine the materials, preparation, and refinishing procedures.
10. [HP-G] Refinish rigid, semi-rigid, and flexible plastic parts.
11. Identify plastic welding safety.
12. Practice plastic repair safety procedure.
13. Identify plastic repair products.
14. Identify plastic repair products.
15. Identify hot air welding equipment.
16. Identify and perform repairs using airless welding equipment.
17. Identify padded dash repair methods.
18. Identify padded dash dent removal.
19. Remove padded dash dent.
20. Repair padded dash.
21. Identify plastic shaping procedure.
22. Shape plastic.
23. Identify plastic shaping procedure.
24. Repair flexible interior trim panel.
25. Repair rigid interior trim panel.
26. Repair flexible exterior body part.
27. Repair rigid exterior body part.
28. Repair engine compartment plastics.

### **SCC Accessibility Statement**

South Central College strives to make all learning experiences as accessible as possible. If you have a disability and need accommodations for access to this class, contact the Academic Support Center to request and discuss accommodations. North Mankato: Room B-132, (507) 389-7222; Faribault: Room A-116, (507) 332-7222.

Additional information and forms can be found at: [www.southcentral.edu/disability](http://www.southcentral.edu/disability)

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