

COMPOSITES (CERTIFICATE)

TECM 1810	Composite Capstone 2	2
Total Hours		20

Department: Industrial Technology (<https://snow-curr.courseleaf.com/divisions-departments/division-business-technical-education/industrial-technology/>)

Program Contact: Chad Avery

Phone: (435) 893-2257

Email: chad.avery@snow.edu

Advising Information (<https://snow.edu/offices/advisement/>)

Program Description

From aerospace to infrastructure, prosthetics to sporting equipment, advanced composites are all around us. Due to the durable and lightweight nature of advanced composites, the demand for them continues to grow. By earning your Composite Technician certification at Snow College, you'll be ready for an exciting career with endless possibility for growth.

Program Outcomes

- Discuss composite materials, including their composition, structure, and properties.
- Use the manufacturing processes involved in producing composite materials, including lay-up techniques, resin infusion methods, and advanced manufacturing techniques.
- Explain the mechanical behavior of composites, including strength, stiffness, and failure mechanisms.
- Identify industries that use composite materials, including aerospace, Department of Defense (D.O.D.), sports and recreation, automotive, marine, and construction.
- Use enhanced problem-solving and critical thinking skills to solve real-world challenges related to composite materials.
- Cultivate composite shop skills through hands-on lay-ups and demonstrations related to composite material.
- Demonstrate effective communication skills for presenting and discussing composite material concepts, applications, and production processes.

Requirements

Certificate Requirements

Code	Title	Hours
TECM 1000	Composite Basics	2
TECM 1010	Basic Composite Fabrication	2
TECM 1020	Blueprint Reading	1
TECM 1030	Workplace Success	1
TECM 1100	Advanced Composite Fabrication	3
TECM 1110	CNC Composite Processes	2
TECM 1200	Autoclave Processing	1
TECM 1210	Filament Winding	2
TECM 1220	Quality Assurance	2
TECM 1230	Metrology	1
TECM 1800	Composite Capstone I	1