

# FOREST RENEWABLE MATERIALS/ART AND DESIGN, ASSOCIATE OF SCIENCE

Renewable Materials is a multidisciplinary program that prepares students to work with renewable, plant-based materials to solve challenging world problems. Renewable materials such as wood, bamboo, canes, and agricultural fibers are examined to understand their characteristics and how to make useful products. Students gain broad perspectives on current issues associated with the sustainable utilization of renewable materials, including global trade, business innovation, energy production, and environmental impacts.

Students in the art and design option are concerned about wood products on an aesthetic level. This option prepares students to engage with renewable materials on an aesthetic level, whether as interior designers, fine artists or entrepreneurs. Students will gain an in-depth knowledge of how renewable materials can function visually within the human space. In addition, students will achieve an understanding of green building materials and green architecture.

Check out the Forestry/Natural Resources (<https://www.socc.edu/forestry>) program website!

The forestry field is projected to have many career opportunities coming up in the next decade as many forestry and natural resources professionals retire in the next few years. Students who enjoy working outdoors and want to have a career that focuses on managing our valuable forest lands to conserve and protect resources as well as produce valuable products for society should consider this degree.

## Graduation Requirements

Students must complete a minimum of 90 credit hours with a cumulative Grade Point Average (GPA) of 2.0 or better. All courses must be completed with a grade of 'C' or better. Twenty-four (24) credits must be completed at Southwestern before the AS degree is awarded.

Courses that are developmental in nature, (designed to prepare students for college transfer courses), are not applicable to this degree.

Complete the graduation application process one term prior to the term of completion (e.g., spring term graduates must apply during winter term).

## Pre-Program Courses

Students are required to take the following courses *prior to* the program courses, depending on students' college placement information. See advisor for details:

Code	Title	Credits
CIS90	Computer Basics (or demonstrate proficiency)	2
MTH95	Intermediate Algebra (or placement in higher math course)	4
WR90R	Academic Literacy (or placement in higher writing course)	4

## Program Guide

Course	Title	Credits
<b>First Year</b>		
<b>Fall</b>		
CHEM221	General Chemistry I	5
F111	Introduction to Forestry	4
WR121	English Composition	3
Required Program Course <sup>1</sup>		3
		-
		4
Credits		15-16
<b>Winter</b>		
CHEM222	General Chemistry II	5
CIS125S	Spreadsheet Applications	3
F250	Forest Biology	4
FS180	Internship: Fire Science	1
Required Program Course <sup>1</sup>		1
Credits		14
<b>Spring</b>		
SP111	Fundamentals of Public Speaking	3
WR227	Report Writing	3
PE231	Wellness for Life	3
Specific Elective <sup>2</sup>		3
Required Program Elective <sup>1</sup>		3
Credits		15
<b>Second Year</b>		
<b>Fall</b>		
ART115	Basic Design I, Intro to Elements Elements Of Art & Prin Of Design	4
ART131	Introduction to Drawing I	3
ART291	Sculpture	3
CIS125P	Presentation Applications Microsoft Powerpoint	1
Required Program Course <sup>1</sup>		4
Credits		15
<b>Winter</b>		
ART110	Digital Photography I	3
MTH243	Intro to Probability and Statistics Statistics	4
F180	Internship: Forestry	3
or NR180	or Internship: Natural Resources	
Required Program Course <sup>1</sup>		5
Credits		15
<b>Spring</b>		
ART117	Basic Design III, Intro to 3D Design	4
ART232	Drawing II	3
CIS125IL	Computer Applications: Illustrator	3
Specific Elective <sup>3</sup>		3
Required Program Course <sup>1</sup>		2
Credits		15
Total Credits		89-90

## Footnotes

- <sup>1</sup> Any Forestry (F) or Natural Resources (NR) course, that are not already required for the degree.
- <sup>2</sup> Western Culture - Specific Elective options: SOC206 Social Problems and Issues, HST201 History of the United States, HST202 History of the United States, or HST203 History of the United States
- <sup>3</sup> Cultural Diversity - Specific Elective options: ANTH230 Native North Americans: Oregon, ANTH231 Native North Americans: PNW, ANTH232 Native North Americans, or HST104 History of the Middle East.

## Program Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Demonstrate fundamental knowledge of wood and similar renewable materials that make them challenging to utilize as industrial and building materials.
- Demonstrate command of renewable material moisture content and specific gravity calculations.
- Demonstrate ability to find, compile, analyze, and communicate technical communication.
- Demonstrate familiarity with the diverse complexity of the Renewable Materials industry, and the challenges it faces with balancing business and environmental goals.
- Demonstrate a combination of technical and business acumen that allows effective management of process and people.
- Demonstrate ability to creatively self-direct learning outcomes within the classroom environment and/or through independent undergraduate research.
- Gain information and knowledge to become a better global citizen.