

**COLLEGE OF NATURAL RESOURCES AND ENVIRONMENT**  
**Department of Sustainable Biomaterials**  
**Minor in Sustainable Biomaterials**  
**For student date of entry under UG Catalog 2022-2023**

Minimum credit hours required for completion of minor is 18 with at least 9 at the 3000 or 4000 level as follows:

**REQUIRED COURSES – 6 credit hours**

- \_\_\_\_\_ SBIO 1234 Introduction to Wood, Design and Craftsmanship (3)
- \_\_\_\_\_ SBIO 2124 Structure and Properties of Sustainable Biomaterials (3) (Pre: BIOL 1105, CHEM 1035)

**ELECTIVE COURSES – 12 credit hours** (at least 9 credit hours at 3000 or 4000 level)

- \_\_\_\_\_ SBIO 2614 Introduction to Forest Products Marketing (3)
- \_\_\_\_\_ SBIO 2784 Global Forest Sustainability (3)
- \_\_\_\_\_ SBIO 3004 Sustainable Nature-based Enterprise (3)
- \_\_\_\_\_ SBIO 3314 Mechanics of Sustainable Biomaterials & Packaging (4) (Pre: PHYS 2205, MATH 1016)
- \_\_\_\_\_ SBIO 3324 Green Building Systems (3)
- \_\_\_\_\_ SBIO 3434 Chemistry and Conversion of Sustainable Biomaterials (3) (CHEM 1036)
- \_\_\_\_\_ SBIO 3444 Sustainable Biomaterials and Bioenergy (3) (Pre: (CHEM 2514 or CHEM 2535), (CHEM 3615 or CHEM 4615)
- \_\_\_\_\_ SBIO 3454 Society, Sustainable Biomaterials, and Energy (3)
- \_\_\_\_\_ SBIO 3464 Forest Products Business Systems (3) (Pre: SBIO 2614)
- \_\_\_\_\_ SBIO 3524 Manufacture of Sustainable Biomaterials for Structures (3)
- \_\_\_\_\_ SBIO 3554 Sustainable Biomaterials Enterprises (3) (Pre: SBIO 1234)
- \_\_\_\_\_ SBIO 4314 Design of Wood Structures (3) (Pre: SBIO 3314 or CEE 3404)
- \_\_\_\_\_ SBIO 4444 Plant Polymers and Biocomposites (3) (Pre: CHEM 2514 or 2536)
- \_\_\_\_\_ SBIO 4714 Performance of Sustainable Biomaterials in Buildings (3) (Pre: 2124)

All courses must be taken on the letter grade (A/F) option and a minimum GPA of 2.00 is required for all courses taken in the minor. Some courses required for this minor have prerequisites. Please refer to Undergraduate Course Catalog or consult your advisor for information about prerequisite requirements.