

# Sustainable Bioproducts

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The Sustainable Bioproducts field is concerned with extending our knowledge of wood as a material and applying this knowledge to the manufacture of useful products. It requires knowledge of the chemical, physical, botanical, and engineering sciences and how they impinge on wood.

Graduate study in the Department of Sustainable Bioproducts leads to the following degrees.

- Master of Science in Sustainable Bioproducts, thesis option
- Master of Science in Sustainable Bioproducts, non-thesis option
- Doctor of Philosophy in Forest Resources with a concentration in Sustainable Bioproducts

Major areas of study include composites, environmental biotechnology, materials science, bioenergy, bio-based material protection, cross laminated timber, business and production systems, and wood chemistry. Research assistantships are available for Ph.D. students and for M.S. students in the thesis option. For additional information, see the Sustainable Bioproducts Graduate Handbook ([http://www.cfr.msstate.edu/bioproducts/docs/grad\\_handbook.pdf](http://www.cfr.msstate.edu/bioproducts/docs/grad_handbook.pdf)) or contact the Departmental Graduate Coordinator.

## Admission

An applicant to the program is not required to have the GRE or GMAT test scores unless his/her grade point average is below 3.00. An international applicant is required to have a TOEFL score of 550 PBT (79 iBT) or IELTS score of 6.5 or better in order to be considered. Interviews, certifications, etc. are not applicable.

## Provisional Admission

An applicant who has not fully met the GPA requirement stipulated by the University may be admitted on a provisional basis. The provisionally-admitted student is eligible for a change to regular status after receiving a 3.00 GPA on the first 9 hours of graduate courses at Mississippi State University (with no grade lower than a C). The first 9 hours of graduate courses must be within the student's program of study. Courses with an S grade, transfer credits, or credits earned while in Unclassified status cannot be used to satisfy this requirement. If a 3.00 is not attained, the provisional student **shall** be dismissed from the graduate program. Academic departments may set higher standards for students to fulfill provisional requirements; a student admitted with provisional status should contact the graduate coordinator for the program's specific requirements. **While in the provisional status, a student is not eligible to hold a graduate assistantship.**

## Academic Performance

The Department of Sustainable Bioproducts will accept a C grade; however, the student's overall GPA must be 3.00 or above.

The M.S. thesis-option program requires 24 hours of coursework, 6 hours of thesis research/thesis, and a comprehensive examination. The M.S. non-thesis option program requires 27 hours of coursework, 3 hours of independent study, and a comprehensive examination. The Ph.D. program may entail approximately 60 hours of course and research work, a written preliminary examination, an oral examination, and a dissertation.

## Master of Science in Sustainable Bioproducts - Thesis

|                           |           |
|---------------------------|-----------|
| Graduate-level coursework | 12        |
| 8000-level coursework     | 12        |
| FP 8000                   | 6         |
| <b>Total Hours</b>        | <b>30</b> |

A comprehensive examination is required. The M.S. student is encouraged to present one professional paper to a referred journal.

## Master of Science in Sustainable Bioproducts - Non-Thesis

|  |           |
|--|-----------|
| Graduate-level coursework                            | 15        |
| 8000-level coursework                                | 12        |
| SBP 7000   | 3         |
| Directed Individual Study in Sustainable Bioproducts | 3         |
| <b>Total Hours</b>                                   | <b>30</b> |

A comprehensive examination is required.

## Doctor of Philosophy in Forest Resources with a Concentration in Sustainable Bioproducts

The Ph.D. program generally requires three academic years beyond the bachelor's degree as a full-time student. The total number of course credit hours may vary based on the specific doctoral program, the student's needs, and the student's academic history.

|  |          |
|--|----------|
| Academic hours with half at the 8000 level or higher | 24       |
| FP 9000  | 20       |
| Additional hours                                     | 10       |
| <hr/> Total Hours                                    | <hr/> 54 |

A written preliminary examination, an oral examination, and a dissertation are required. In lieu of the foreign language requirement, the Ph.D. candidate is required to take 6 hours of research skill courses from the departmental list. The Ph.D. student is encouraged to submit two professional papers to referred journals. The student must meet all the necessary guidelines to complete thesis/dissertation requirements set by the department, college, and the University in order to graduate. Types of qualifying and exit examinations are required by the department (doctoral preliminary).