

Wood Industries

Degree Offered

- Associate of Arts

Career Opportunities

Upon completion of the four-year program students will find that employment opportunities are available in procurement, management, production, marketing, research and development with both primary and secondary wood product industries.

FACULTY

CHAIR

- Dr. Heidi B. Samuels - Ed.D.
West Virginia University

ASSOCIATE PROFESSOR

- Jeff Jones - M.S. Forestry
West Virginia University

Admissions Requirements

Entering freshmen are admitted directly into the major.

GENERAL EDUCATION FOUNDATIONS

Please use this link to view a list of courses that meet each GEF requirement. (<http://registrar.wvu.edu/gef>)

NOTE: Some major requirements will fulfill specific GEF requirements. Please see the curriculum requirements listed below for details on which GEFs you will need to select.

General Education Foundations

| | | |
|--|---|-------|
| F1 - Composition & Rhetoric | | 3-6 |
| ENGL 101 & ENGL 102 or ENGL 103 | Introduction to Composition and Rhetoric and Composition, Rhetoric, and Research Accelerated Academic Writing | |
| F2A/F2B - Science & Technology | | 4-6 |
| F3 - Math & Quantitative Skills | | 3-4 |
| F4 - Society & Connections | | 3 |
| F5 - Human Inquiry & the Past | | 3 |
| F6 - The Arts & Creativity | | 3 |
| F7 - Global Studies & Diversity | | 3 |
| F8 - Focus (may be satisfied by completion of a minor, double major, or dual degree) | | 9 |
| Total Hours | | 31-37 |

Please note that not all of the GEF courses are offered at all campuses. Students should consult with their advisor or academic department regarding the GEF course offerings available at their campus.

Curriculum Requirements

| | | |
|--|---|----------|
| GEF Elective Requirements (6 and 7) | | 6 |
| ENGL 101 & ENGL 102 | Introduction to Composition and Rhetoric and Composition, Rhetoric, and Research (GEF 1) | 6 |
| Select one of the following (GEF 3): | | 3 |
| MATH 126A | College Algebra 5-Day | |
| MATH 126B | College Algebra 4-Day | |
| MATH 126C | College Algebra 3-Day | |
| MATH 150 | Applied Calculus | 3 |

| | | |
|------------------------------|---|----|
| ECON 201 | Principles of Microeconomics (GEF 4) | 3 |
| STAT 211 | Elementary Statistical Inference (GEF 8) | 3 |
| BIOL 101 & BIOL 103 | General Biology and General Biology Laboratory (GEF 2) | 4 |
| CHEM 115 or CHEM 111 | Fundamentals of Chemistry (GEF 8) Survey of Chemistry | 4 |
| PHYS 101 | Introductory Physics (GEF 8) | 4 |
| AGEE 110 | Microcomputer Applications in Agricultural Education | 3 |
| FOR 101 | Careers in Natural Resources Management 1 (eq. WVUe 191) | 1 |
| FOR 140 | West Virginia's Natural Resources | 3 |
| FOR 203 | Careers in Natural Resources Management 2 | 1 |
| FOR 205 | Dendrology | 3 |
| FMAN 212 | Forest Ecology | 3 |
| FMAN 222 | Forest Mensuration | 4 |
| WDSC 100 | Forest Resources in United States History (GEF 5) | 3 |
| Select one of the following: | | 3 |
| ARE 204 | Agribusiness Management | |
| PLSC 206 | Principles of Plant Science | |
| Total Hours | | 60 |

Suggested Plan of Study

First Year

| Fall | Hours Spring | Hours |
|--------------------------------|--------------------|-------|
| ENGL 101 (GEF 1) | 3 ENGL 102 (GEF 1) | 3 |
| Select one of the following: | 3 MATH 150 (GEF 3) | 3 |
| MATH 126A | AGEE 110 | 3 |
| MATH 126B | FOR 140 | 3 |
| MATH 126C | GEF 7 | 3 |
| BIOL 101 & BIOL 103 (GEF 2) | 4 | |
| WDSC 100 (GEF 5) | 3 | |
| FOR 101 (eq. WVUe 191) | 1 | |
| | 14 | 15 |

Second Year

| Fall | Hours Spring | Hours |
|------------------------------|--------------------------------|-------|
| CHEM 115 | 4 STAT 211 | 3 |
| PHYS 101 | 4 FMAN 212 | 3 |
| FOR 203 | 1 FMAN 222 | 4 |
| FOR 205 | 3 ECON 201 or ARE 204 (GEF 4) | 3 |
| ECON 201 or PLSC 206 (GEF 4) | 3 GEF 6 (LARC 212 Recommended) | 3 |
| | 15 | 16 |

Total credit hours: 60

Major Learning Goals

WOOD INDUSTRIES

- Graduates will demonstrate a firm understanding of basic wood sciences, including anatomy and biology of wood formation; wood identification; physical properties; mechanical properties; chemical characteristics and properties; wood degradation and deterioration; and composite materials.
- Graduates will demonstrate knowledge related to wood processing and manufacturing, including mechanical reduction of the raw material, drying processes, manufacture of solid wood products, manufacture of composite materials, chemical wood processing, and wood protection and enhancement.

- Graduates will be able to compare and contrast a variety of complex contemporary issues of wood use, including demand, use, and impact of use on society and the environment; applications of wood and wood-based materials; choosing and specifying appropriate wood-based products; policy, regulation, environmental and other societal issues; professional ethics; and health, safety, and security issues.