Wood Science and Technology, A.A.

Degree Offered
• Associate of Arts

Career Opportunities
Upon completion of the two-year program at Potomac State College, and ultimately a four-year program at another institution, 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. Educational Leadership
  Year @ PSC (2006)

PROFESSOR
• Jeff Jones - M.S.F. Forestry
  Year @ PSC (2003)

Admissions
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

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<th>General Education Foundations</th>
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<tr>
<td>F1 - Composition &amp; Rhetoric</td>
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<td>ENGL 101 Introduction to Composition and Rhetoric</td>
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<td>&amp; ENGL 102 and Composition, Rhetoric, and Research</td>
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<td>or ENGL 103 Accelerated Academic Writing</td>
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<td>F2A/F2B - Science &amp; Technology</td>
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<td>F3 - Math &amp; Quantitative Reasoning</td>
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<td>F4 - Society &amp; Connections</td>
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<td>F6 - The Arts &amp; Creativity</td>
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<td>F7 - Global Studies &amp; Diversity</td>
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<td>F8 - Focus (may be satisfied by completion of a minor, double major, or dual degree)</td>
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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 Introduction to Composition and Rhetoric (GEF 1) | 6 |
| ENGL 102 and Composition, Rhetoric, and Research | 6 |
| MATH 124 Algebra with Applications (GEF 3) | 3 |
| 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)

Select one of the following:

CHEM 115 & 115L
Fundamentals of Chemistry and Fundamentals of Chemistry 1 - Laboratory (GEF 8)

CHEM 111 & 111L
Survey of Chemistry 1 and Survey of Chemistry 1 - Laboratory

PHYS 101
Introductory Physics (GEF 8)

AGEE 110
Microcomputer Applications in Agricultural Education

FOR 191
First-Year Seminar

FOR 140
West Virginia's Natural Resources

FOR 203
Careers in Natural Resources Management 2

FOR 205
Dendrology

FMAN 212
Forest Ecology

FMAN 222
Forest Mensuration

WDSC 100
Forest Resources in United States History (GEF 5)

Select one of the following:

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
MATH 124 (GEF 3) | 3 | MATH 150 (GEF 3) | 3
BIOL 101 & BIOL 103 (GEF 2) | 4 | AGE 110 | 3
WDSC 100 (GEF 5) | 3 | FOR 140 | 3
FOR 191 | 1 | GEF 7 | 3

Total: 14

Second Year

Fall | Hours | Spring | Hours
--- | --- | --- | ---
CHEM 115 & 115L | 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

Total: 15

Total credit hours: 60

Major Learning Outcomes

WOOD SCIENCE AND TECHNOLOGY

- 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.