

WOOD PRODUCTS TECHNOLOGY, A.A.S.

Major Code: 0618

Wood Products Technology is a one-of-a-kind program in the State of New York, designed to train students for employment in finish carpentry, cabinet-making and furniture production, while using cutting edge technology like computer numerical controlled machinery to enter wood manufacturing industries.

The major begins with a survey of the industry and an introduction to the use of commercial cabinet-making equipment. Students learn wood properties and identification, manufacturing and grading at the sawmill and apply this knowledge to the seasoning or kiln drying of lumber. Students also learn both in theory and practice about adhesives, finishes and wood laminates.

Students can choose either the Finish Carpentry option which includes the electrical, plumbing or light framing trades, or the Furniture Production and Business option that concentrates on the business aspects where the students learn accounting, marketing and human resource management. Students following the Finish Carpentry option take all of the wood courses while an introduction to electrical, plumbing and light framing is gained to allow the student to enter the building trades. Students following the Furniture Production and Business option also take all of the traditional wood courses with a concentration of business classes for the student interested in starting their own business or working for a large furniture manufacturer.

The facility is a 14,000 square foot fully-equipped wood center where the students can start with a log and use the same wood to complete a finished project. The technologically advanced equipment includes a WoodMizer LT300 sawmill, SII Dry Kiln with state-of-the-art drying software, a Weinig Profimat #26 five head molder with knife grinding equipment, a modern woodshop with four planers, Sawstop table saws, a Kreg Face frame clamping table and a General 5 hp. Shaper with self-feed.

Career Opportunities

The Wood Products Technology program prepares students for supervision and self-employment in the lumber, furniture, cabinet making, and finish carpentry industry. This includes fields like kitchen and bath construction and re-modeling and architectural millwork. Sales and services of related machinery and supplies is another option.

Program Requirements

There is a laboratory fee of \$100 for WOOD 101 Wood Products and Processes and WOOD 241 Secondary Wood Processing courses. For each of these course the students will complete a wood furniture project that they can keep.

Student Learning Outcomes

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

- Dry any species of lumber with minimal defects.
- Identify defects that will cause degrade during drying.
- Collect data, create and present a professional laboratory report.
- Demonstrate current safety precautions in a manufacturing setting.
- Operate technological advanced manufacturing equipment.

- Describe the finishing procedure that best fits the application.
- Inspect lumber according to NHLA grading rules and determine best use.

Curriculum Requirements

A minimum of 60 credits (Furniture Production and Business Option) or 61 credits (Finish Carpentry Option) is required for degree completion.

Finish Carpentry Option

The Finish Carpentry option provides students with wood working skills and construction skills including electrification, plumbing and light framing. A minimum of 61 credits is required for degree completion.

Code	Title	Credits
WOOD 101	Wood Products and Processes	3
WOOD 160	Wood Technology	3
WOOD 170	Lumber Manufacturing & Grading	3
WOOD 180	Furniture Design Construction	3
WOOD 211	Wood Industry Field Trip	1
WOOD 221	Wood Glues,Laminating&Finishes	3
WOOD 231	Wood Seasoning & Preservation	3
WOOD 241	Secondary Wood Processing	4
WOOD 271	Cabinet Design/Manufacturing	3
RESC 130	Light Framing	3
RESC 106	Graphic Communications	3
RESC 221	Plumbing	3
DRFT 151	Engineering Drawing I	2
CAD 181	Intro To Computer-Aided Drftng	1
AGEN 125	Residential Electrification	3
SUNY General Education Communication Written and Oral as advised		3
SUNY General Education Mathematics as advised		3
SUNY General Education Natural Sciences as advised		3-4
SUNY General Education Diversity, Equity, Inclusion and Social Justice as advised		3
Additional SUNY General Education credits as advised		7-8
Total Credits		60-62

Furniture Production and Business Option

The furniture production and business option prepares students to work in furniture manufacturing and cabinet shops and gives them skills in business including accounting, marketing and human resources. Students that choose this option could operate a small business in wood products. A minimum of 60 credits is required for degree completion.

Code	Title	Credits
WOOD 101	Wood Products and Processes	3
WOOD 160	Wood Technology	3
WOOD 170	Lumber Manufacturing & Grading	3
WOOD 180	Furniture Design Construction	3
WOOD 211	Wood Industry Field Trip	1
WOOD 221	Wood Glues,Laminating&Finishes	3
WOOD 231	Wood Seasoning & Preservation	3
WOOD 241	Secondary Wood Processing	4
RESC 180	OSHA 30 Hour Construction Indu	3
WOOD 271	Cabinet Design/Manufacturing	3

BSAD 112	Marketing	3
BSAD Elective as advised		3
DRFT 151	Engineering Drawing I	2
CAD 181	Intro To Computer-Aided Drftng	1
ACCT Elective as advised		3
SUNY General Education Communication Written and Oral as advised		3
SUNY General Education Mathematics as advised		3
SUNY General Education Natural Sciences as advised		3-4
SUNY General Education Diversity, Equity, Inclusion and Social Justice as advised		3
Additional SUNY General Education credits as advised		7-8
Total Credits		60-62

Suggested Course Sequence Finish Carpentry Option

Course	Title	Credits
Year 1		
Fall		
WOOD 101	Wood Products and Processes	3
DRFT 151	Engineering Drawing I	2
RESC 130	Light Framing	3
RESC 106	Graphic Communications	3
CAD 181	Intro To Computer-Aided Drftng	1
SUNY General Education as advised		3
Credits		15
Spring		
AGEN 125	Residential Electrification	3
WOOD 160	Wood Technology	3
WOOD 170	Lumber Manufacturing & Grading	3
WOOD 180	Furniture Design Construction	3
SUNY General Education Diversity, Equity, Inclusion and Social Justice as advised		3
Credits		15
Year 2		
Fall		
RESC 221	Plumbing	3
WOOD 221	Wood Glues,Laminating&Finishes	3
WOOD 231	Wood Seasoning & Preservation	3
WOOD 241	Secondary Wood Processing	4
SUNY General Education as advised		3
Credits		16
Spring		
WOOD 211	Wood Industry Field Trip	1
WOOD 271	Cabinet Design/Manufacturing	3
SUNY General Education Communication Written and Oral as advised		3
SUNY General Education Mathematics as advised		3
SUNY General Education Natural Sciences as advised		3-4
Additional SUNY General Education credits as advised		2
Credits		15-16
Total Credits		61-62

Furniture Production & Business Option

Course	Title	Credits
Year 1		
Fall		
WOOD 101	Wood Products and Processes	3
DRFT 151	Engineering Drawing I	2
BSAD 112	Marketing	3
ACCT 100	Accounting Info & Mgt Decision	3

CAD 181	Intro To Computer-Aided Drftng	1
SUNY General Education as advised		3
Credits		15
Spring		
WOOD 160	Wood Technology	3
WOOD 170	Lumber Manufacturing & Grading	3
WOOD 180	Furniture Design Construction	3
SUNY General Education Natural Sciences as advised		3-4
SUNY General Education Diversity, Equity, Inclusion and Social Justice as advised		3
Credits		15-16
Year 2		
Fall		
WOOD 221	Wood Glues,Laminating&Finishes	3
WOOD 231	Wood Seasoning & Preservation	3
WOOD 241	Secondary Wood Processing	4
BSAD Elective as advised		3
SUNY General Education as advised		2
Credits		15
Spring		
WOOD 211	Wood Industry Field Trip	1
RESC 180	OSHA 30 Hour Construction Indu	3
WOOD 271	Cabinet Design/Manufacturing	3
SUNY General Education Mathematics as advised		3
SUNY General Education Communication Written and Oral as advised		3
SUNY General Education as advised		3
Credits		16
Total Credits		61-62