

Dear Woodworking student,

This handout has been designed to clarify the path to success. The Certificate of Achievement in this field consists of three semesters of study starting in the fall of any year. You will enter the path by taking the "Introduction to Woodworking" and "Introduction to Hand Tools" or another elective course. These courses acquaint the student with the essential principles of woodworking. Topics include wood technology, the use of hand tools, sharpening, portable power tools, basic machinery, and related topics.

In the following semesters, you will stay the path by taking "Introduction to Face-frame Cabinetmaking" or "Introduction to Frameless Cabinetmaking" and "Introduction to Cabinet Vision" or "Alphacam and the CNC Router." These courses will increase the student's skills using hand tools, portable power tools, and machinery used to construct traditional face-frame or frameless cabinetry. Students will also learn about Cabinet Vision, a popular cabinet design software program, or the functions of Alphacam software and methods for operating the computer-numerical-controlled (CNC) router in woodworking applications. In the third semester, students will complete the path by taking "Introduction to Cabinet Installation" or "Architectural Millwork" and "Intermediate Cabinetmaking." These courses will allow students to learn house framing basics, window, door, and cabinet installation, and the fabrication and installation of case, base, and crown molding. The intermediate courses will enhance your knowledge of both systems of cabinetmaking, including multi-cabinet design and cabinet installation. The course order may change depending on availability and prerequisite requirements. Upon completing the path, you will have the career and technical skills required to obtain a job in the woodworking industry. You can also obtain an Associate of Science degree upon completing your general education requirements.



## ASSOCIATE OF ARTS DEGREE IS ALSO AVAILABLE

### NEW STUDENTS AND/OR FIRST SEMESTER (FALL)

Course	Course Name	Semester Offered
WMT 101 (3 units)	Introduction to Woodworking	Fall, Spring, & Summer
WMT 201 (4 units)	Woodworking with Hand Tools [1]	Fall or Spring
<b>8 Units</b>	<b>2 Classes</b>	

### CONTINUING STUDENTS SECOND SEMESTER (SPRING)

Course	Course Name	Semester Offered
WMT 151 (4 units)	Introduction to Face-frame Cabinetmaking	Fall or Spring
<b>OR</b>		
WMT 153 (4 units)	Introduction to Frameless Cabinetmaking	Fall or Spring
WMT 181 (3 units)	Introductions to Cabinet Vision	Fall or Spring
<b>OR</b>		
WMT 182 (4 units)	Alphacam and the CNC Router	Fall
<b>7-8 Units</b>	<b>2 Classes</b>	

### CONTINUING STUDENTS THIRD SEMESTER (FALL)

Course	Course Name	Semester Offered
WMT 154 (4 units)	Introduction to Cabinet Installation	Fall or Spring
<b>OR</b>		
WMT 155 (4 units)	Architectural Millwork	Fall or Spring
WMT 251 (4 units)	Intermediate Cabinetmaking	Fall or Spring
<b>8 Units</b>	<b>2 Classes</b>	

**Notes:** Classes are usually offered during the day, evening and weekends.

[1] May choose to substitute four (4) units of different Woodworking classes (See Catalog for class choices)



## Woodworking Manufacturing Technologies

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This handout has been designed to clarify the path to success. The Certificate of Achievement in this field consists of three semesters of study starting in the fall of any year. You will enter the path by taking "Introduction to Face-frame Cabinetmaking" and "Introduction to Digital Fabrication." These courses introduce students to the methods, materials, tools, and machinery used in the construction of traditional face-frame cabinetry, as well as computer-aided design (CAD) software and its use in design and fabrication operations using computer-controlled machines.

In the second semester, you will stay the path by taking "Introduction to Cabinet Vision" and "Alphacam and the CNC Router." These courses will introduce students to Cabinet Vision, a popular cabinet design software program, and Alphacam software and its use in operating the computer-numerical-control (CNC) router for woodworking applications. In the third semester, students will complete the path by taking "Intermediate Alphacam and the CNC Router." This course will teach intermediate functions of Alphacam and additional methods for operating the CNC router in woodworking applications, such as software operations, 3D surface machining, CNC router setup and advanced tooling. Emphasis is placed on design planning, safety, and efficiency. The order may be changed depending on course availability and prerequisite requirements. Upon completing the path, you will have the career and technical skills required to obtain a job in the woodworking industry.



### NEW STUDENTS AND/OR FIRST SEMESTER

Course	Course Name	Semester Offered
WMT 151 (4 units)	Introduction to Face-frame Cabinetmaking [1]	Fall or Spring
<b>OR</b>		
WMT 153 (4 units)	Introduction to Frameless Cabinetmaking [1]	Fall or Spring
WMT 184 (3 units)	Introduction to Digital Fabrication	Fall or Spring
<b>8 Units</b>	<b>2 Classes</b>	

### CONTINUING STUDENTS SECOND SEMESTER

Course	Course Name	Semester Offered
WMT 181 (3 units)	Introduction to Cabinet Vision	Fall or Spring
WMT 182 (4 units)	Alphacam and the CNC Router	Fall
<b>7 Units</b>	<b>2 Classes</b>	

### CONTINUING STUDENTS THIRD SEMESTER

Course	Course Name	Semester Offered
WMT 282 (4 units)	Intermediate Alphacam and the CNC Router	Spring
<b>4 Units</b>	<b>1 Class</b>	

**Notes:** Classes are usually offered during evening  
 [1] WMT 101 is a prerequisite for WMT 151 or WMT 153.



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Dear Woodworking student,

This handout has been designed to clarify the path to success. The Certificate of Achievement in this field consists of three terms of study with a recommended summer start. You will enter the path by taking "Introduction to Woodworking." This course acquaints the student with wood technology, the use of hand tools, portable power tools, basic machinery, and general shop safety.

In the following term, you will stay the path by taking "Introduction to Tables and Woodworking with Hand Tools." This course will increase the student's skills in using hand tools, portable power tools, and machinery related to solid wood tables. Students also learn tool sharpening and hand-cut joinery. "Topics in Cabinetmaking" covers the essentials of cabinetmaking using hardwood and sheet materials and basic installation techniques. In the third term, students will complete the path by taking "Woodworking Design and Fabrication." This course explores the elements and principles of design and how to move a furniture piece from idea to reality using computer-aided design (CAD) software and computer-numerical-control (CNC) machines. The order is preset and contingent upon the successful completion of each proceeding course. Upon completing the path, you will have the career and technical skills required to obtain a job in the woodworking industry. You can also obtain an Associate of Science degree upon completing your general education requirements.



## ASSOCIATE OF SCIENCE DEGREE IS ALSO AVAILABLE

### NEW STUDENTS AND/OR FIRST SEMESTER (SUMMER)

Course	Course Name	Semester Offered
WMT 101 (3 units)	Introduction to Woodworking [1]	Fall, Spring, & Summer
<b>3 Units</b>	<b>1 Class</b>	

### CONTINUING STUDENTS SECOND SEMESTER (FALL)

Course	Course Name	Semester Offered
WMT 171A (6.5 units)	Introduction to Tables and Woodworking with Hand Tools [3]	Fall
WMT 171B (6.5 units)	Topics in Cabinetmaking [4]	Fall
WMT 171L (2 units)	Furniture Intensive Lab	Fall
<b>15 Units</b>	<b>3 Classes</b>	

### CONTINUING STUDENTS THIRD SEMESTER (SPRING)

Course	Course Name	Semester Offered
WMT 171C (6.5 units)	Woodworking Design and Fabrication [2] [5]	Spring
<b>6.5 Units</b>	<b>1 Class</b>	

**Notes:**

Classes are offered during weekdays.

[1] Summer or Spring proceeding 171A is recommended

[2] WMT 111L: Introduction to Woodworking Lab is recommended with this course.

[3] Enrolling in WMT 171A is equivalent to WMT 103 and WMT 201.

[4] Enrolling in WMT 171B is equivalent to WMT 102 and WMT 151.

[5] Enrolling in WMT 171C is equivalent to WMT 130 and WMT 184.



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Dear Woodworking student,

This handout has been designed to clarify the path to success. The Certificate of Achievement in this field consists of four semesters of study starting in the fall of any year. You will enter the path by taking "Introduction to Woodworking" and "Introduction to Digital Fabrication." These courses acquaint the student with wood technology, the use of hand tools, portable power tools, basic machinery, computer-aided design (CAD) software, and its use in design and fabrication operations using computer-controlled machines.

In the following semesters, you will stay the path by taking "Introduction to Tables," "Introduction to Solid Wood Casegoods," "Woodworking with Hand Tools," and "Furniture Design." These courses will increase the student's skills using of hand tools, portable power tools, and machinery relating to solid wood tables and free-standing casegoods. Additionally, students learn tool sharpening, hand-cut joinery, elements and principles of design, and how to move a furniture piece from idea to drawings used in fabrication. In the fourth semester, students will complete the path by taking "Curved and Tapered Forms for Furniture" or another elective course. This course introduces the student to various advanced techniques for creating curved and tapered forms appropriate for furniture construction. The order may be changed depending on course availability and prerequisite requirements. Upon completing the path, you will have the career and technical skills required to obtain a job in the woodworking industry. You can also obtain an Associate of Science degree upon completing your general education requirements.



## ASSOCIATE OF SCIENCE DEGREE IS ALSO AVAILABLE

### NEW STUDENTS AND/OR FIRST SEMESTER (FALL)

Course	Course Name	Semester Offered
WMT 101 (3 units)	Introduction to Woodworking	Fall, Spring, & Summer
WMT 184 (4 units)	Introduction to Digital Fabrication	Fall or Spring
<b>7 Units</b>	<b>2 Classes</b>	

### CONTINUING STUDENTS SECOND SEMESTER (SPRING)

Course	Course Name	Semester Offered
WMT 103 (4 units)	Introduction to Tables	Fall or Spring
WMT 201 (4 units)	Woodworking with Hand Tools	Fall or Spring
<b>8 Units</b>	<b>2 Classes</b>	

### CONTINUING STUDENTS THIRD SEMESTER (FALL)

Course	Course Name	Semester Offered
WMT 102 (4 units)	Introduction to Solid Wood Casegoods	Fall or Spring
WMT 130 (4 units)	Furniture Design	Fall or Spring
<b>8 Units</b>	<b>2 Classes</b>	

### CONTINUING STUDENTS FOURTH SEMESTER (SPRING)

Course	Course Name	Semester Offered
WMT 245 (4 units)	Curved and Tapered Forms for Furniture [1]	Fall or Spring
<b>4 Units</b>	<b>1 Class</b>	

**Notes:**

Classes are usually offered during the day, evening, and weekends.

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(See Catalog for class choices)



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Dear Woodworking student,

This handout has been designed to clarify the path to success. The Certificate of Achievement in this field consists of three semesters of study starting in the fall of any year. You will enter the path by taking the "Introduction to Woodworking" and "Introduction to Woodturning" courses. These courses acquaint the student with the essential principles of woodworking. Topics include wood technology, the use of hand tools, portable power tools, basic machinery, lathes to create turned projects, and related topics.

In the following semester, you will stay the path by taking "Introduction to Solid Wood Casegoods" and "Wood Finishing" and completing "Introduction to Face-frame Cabinetmaking" or "Introduction to Frameless Cabinetmaking." These courses will increase the student's skill in using hand tools, portable power tools, and machinery related to free-standing casegoods, wood finishing techniques, wood coloring, and face-frame or frameless cabinetry. In the third semester, students will complete the path by taking "Introduction to Tables" and completing "Introduction to Cabinet Installation" or "Architectural Millwork." These courses will allow students to create solid wood tables, learn house framing basics, window, door, and cabinet installation, and the fabrication and installation of case, base, and crown molding. The order may change depending on course availability and prerequisite requirements. Upon completing the path, you will have the career and technical skills required to obtain a job in the woodworking industry. You can also obtain an Associate of Science degree upon completing your general education requirements.



### NEW STUDENTS AND/OR FIRST SEMESTER (FALL)

Course	Course Name	Semester Offered
WMT 101 (3 units)	Introduction to Woodworking	Fall, Spring, & Summer
WMT 118 (2 units)	Introduction to Woodturning	Fall, Spring, & Summer
<b>5 Units</b>	<b>2 Classes</b>	

### CONTINUING STUDENTS SECOND SEMESTER (SPRING)

Course	Course Name	Semester Offered
WMT 102 (4 units)	Introduction to Solid Wood Casegoods	Fall or Spring
WMT 107 (3 units)	Wood Finishing	Fall or Spring
WMT 151 (4 units)	Introduction to Face-frame Cabinetmaking	Fall or Spring
<b>OR</b>		
WMT 153 (4 units)	Introduction to Frameless Cabinetmaking	Fall or Spring
<b>11 Units</b>	<b>3 Classes</b>	

### CONTINUING STUDENTS THIRD SEMESTER (FALL)

Course	Course Name	Semester Offered
WMT 103 (4 units)	Introduction to Tables	Fall or Spring
WMT 154 (4 units)	Introduction to Cabinet Installation	Fall or Spring
<b>OR</b>		
WMT 155 (4 units)	Architectural Millwork	Fall or Spring
<b>8 Units</b>	<b>2 Classes</b>	

**Notes:** Classes are usually offered during the day, evening, and weekend.



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