



## CARPENTRY

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### Course Description:

The Carpentry class is a three-year program at Bethlehem AVTS. In the first year, students learn the fundamentals of safety, tools, materials, layout and installation through an assortment of hands-on activities. Students also learn the basics of framing, drywall, interior and exterior finishes as well as many power and hand tools.

Students in the advanced section of the course learn interior finish, exterior finish in a more in-depth application. Students learn drywall, spackling, roofing, and siding. Students create an individual project consisting of a small structure.

Any student who wishes to continue in this field should continue their education at a two or four year college or through co-op. Many students could join the workforce straight out of high school in this field, but it is possible through on the job shadowing and training, that greater opportunities could lead to full time employment.

Carpentry is a huge area of our society not just in residential, but also commercial too. Advances in these areas will make Carpentry an ongoing trade that is needed. In addition to large companies, there exist many small shops, doing specialized areas.

**Average pay:** The average salary for Carpenters is \$73,000

**Degrees:** Construction management.

**In demand careers:** Roofing, framing, finish, drywall, and siding

### **Reference Material:**

Carpentry text  
OSHA online

### **Classroom Tools:**

Multiple power and hand tools

## **Course Syllabus Level 1**

### **First Semester (First Marking Period)**

#### **Rotation**

#### **Projects:**

Shop and tools safety  
Basics of framing  
Drywall  
Spackle

#### **Duty and Tasks Covered:**

Safety/Occupational Orientation  
Hand tools  
Power tools  
Framing

## First Semester (Second Marking Period)

### House construction

#### Projects:

Safety  
Hand/power tools  
Print reading  
Site prep and layout  
Floor construction

#### Duty and Tasks Covered:

Tasks 100-809

<b>100</b>	<b>SAFETY/OCCUPATIONAL ORIENTATION</b>
101	Identify and follow all basic safety practices and procedures.
102	Identify and follow all lab safety practices and procedures.
103	Identify and follow all construction industry safety practices and procedures.
104	Follow procedures in Material Safety Data Sheets (MSDS) system.
105	Identify and follow all OSHA safety standards at the construction site.
106	Explain and demonstrate proper/safe rigging procedures.
107	Demonstrate the ability to construct scaffolding.
<b>200</b>	<b>HAND TOOLS</b>
201	Demonstrate the ability and proper use of small hand tools.
202	Demonstrate the ability and proper use of sawing tools.
203	Demonstrate the ability and proper use of fastening tools.
204	Demonstrate the ability and proper use of measuring tools.
205	Demonstrate the ability and proper use of cutting and sharp tools.
206	Demonstrate the ability to sharpen cutting tools.
207	Demonstrate the ability and proper use of digging tools.
208	Demonstrate the ability and proper use of ladders.
209	Demonstrate the ability and proper use of finishing tools.
210	Demonstrate the ability to properly maintain hand tools.
<b>300</b>	<b>POWER TOOLS</b>

301	Demonstrate the ability to properly use stationary electric power tools.
302	Demonstrate the ability to properly use pneumatic tools systems.
303	Demonstrate the ability to properly use portable electric power tools.
304	Demonstrate the ability to properly maintain electric power tools.
305	Demonstrate the ability to properly maintain pneumatic power tools.
400	<b>BLUEPRINTS READING</b>
401	Demonstrate the ability to read and interpret blueprints.
402	Demonstrate the ability to read, interpret and comprehend standard symbols and abbreviations.
403	Demonstrate the ability to read and interpret building specifications.
404	Demonstrate the ability to read and interpret a plot plan.
405	Demonstrate the ability to read and interpret a foundation plan.
406	Demonstrate the ability to read and interpret elevation plans.
407	Demonstrate the ability to read and interpret details and section views.
408	Demonstrate the ability to read and interpret floor, wall and roof framing plans.
409	Demonstrate the ability to read and interpret building and zoning codes.
410	Demonstrate the ability to read and interpret Americans with Disabilities Act (ADA) regulations.
500	<b>SITE PREPARATION AND LAYOUT</b>
501	Determine factors needed to be considered before the start of a building project.
502	Demonstrate the ability to properly acquire a building permit.
503	Determine location of utilities, physical features and initiate PA one call.
504	Demonstrate the ability to establish elevations and grades from benchmarks using a transit level.
505	Demonstrate the ability to stake out a building foundation using the Pythagorean theory.
506	Demonstrate the ability to properly erect batter boards.
600	<b>FOOTINGS AND FOUNDATIONS</b>
601	Demonstrate the ability to determine footer type.
602	Demonstrate the ability to properly use leveling instruments.
603	Demonstrate the ability to establish footer lines and elevations.
604	Demonstrate the ability to layout and construct forms.

605	Demonstrate the ability to layout and construct footers.
606	Demonstrate the ability to layout foundations.
607	Demonstrate the ability to layout and construct forms for concrete slabs.
608	Demonstrate the ability to properly install reinforcing bars.
609	Demonstrate the ability to properly erect vertical and horizontal framework.
<b>700</b>	<b>FRAMING - FLOOR CONSTRUCTION</b>
701	Determine methods used to fasten sill plates.
702	Demonstrate the ability to properly install fasteners used in floor framing.
703	Demonstrate the ability to properly measure and install sill plates.
704	Demonstrate the ability to properly measure and install floor joists.
705	Demonstrate the ability to properly measure and install joists for a cantilever floor.
706	Demonstrate the ability to properly layout and construct cross and solid bridging.
707	Demonstrate the ability to properly layout and install sub-flooring.
708	Demonstrate the ability to properly measure and frame floor openings.
<b>800</b>	<b>FRAMING - WALL CONSTRUCTION</b>
801	Determine fastening methods used during wall construction.
802	Demonstrate the ability to properly install fasteners used in wall construction.
803	Demonstrate the ability to properly measure, layout and construct a wall.
804	Demonstrate the ability to properly select and install various types of insulation.
805	Demonstrate the ability to properly measure, layout and construct door openings.
806	Demonstrate the ability to properly measure, layout and construct window openings.
807	Demonstrate the ability to properly measure, layout and construct solid headers.
808	Demonstrate the ability to properly measure, layout and install sheathing.
809	Demonstrate the ability to properly plumb, align and brace walls.
810	Demonstrate the ability to properly install metal studs.

## **Second Semester (Third Marking Period)**

### **Wall framing**

#### **Projects:**

Laying out walls  
Framing walls  
Erecting walls  
Door and window openings  
Sheathing  
Supporting and bracing

#### **Duty and Tasks Covered:**

Tasks 800-809

#### **800**

801

802

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810

#### **FRAMING - WALL CONSTRUCTION**

Determine fastening methods used during wall construction.

Demonstrate the ability to properly install fasteners used in wall construction.

Demonstrate the ability to properly measure, layout and construct a wall.

Demonstrate the ability to properly select and install various types of insulation.

Demonstrate the ability to properly measure, layout and construct door openings.

Demonstrate the ability to properly measure, layout and construct window openings.

Demonstrate the ability to properly measure, layout and construct solid headers.

Demonstrate the ability to properly measure, layout and install sheathing.

Demonstrate the ability to properly plumb, align and brace walls.

Demonstrate the ability to properly install metal studs.

## Second Semester (Fourth Marking Period)

### Projects:

Roofing

Exterior Finish

### Duty and Tasks Covered:

Tasks 900-1009

#### **900**

901

#### **FRAMING - ROOF CONSTRUCTION**

Determine fastening methods used during roof construction.

902

Demonstrate the ability to properly install fasteners used in roof construction.

903

Demonstrate the ability to properly measure, layout, cut and install a ridge board.

904

Demonstrate the ability to properly measure, layout, cut and install hip, jack and truss rafters.

905

Demonstrate the ability to properly measure, layout, cut and install roof trusses.

906

Demonstrate the ability to properly measure, layout, cut and install brace roof trusses.

907

Demonstrate the ability to properly measure, layout, cut and install roof sheathing.

908

Demonstrate the ability to properly measure, layout, cut and install roof openings.

909

Demonstrate the ability to properly measure, layout, cut, frame and install dormers.

910

Demonstrate the ability to properly measure, layout, cut and install roofing paper.

911

Demonstrate the ability to properly measure, layout, cut and install shingles.

912

Demonstrate the ability to properly measure, layout, cut and install capping.

#### **1000**

#### **EXTERIOR FINISH**

1001

Determine fastening methods used during exterior finishing operations.

1002

Demonstrate the ability to properly install fasteners used in exterior finishing operations.

1003

Demonstrate the ability to properly measure, layout and install house wrap.

1004

Demonstrate the ability to properly measure, layout and install exterior doors.

1005

Demonstrate the ability to properly measure, layout and install windows.

1006

Demonstrate the ability to properly measure, layout and install siding.

1007

Demonstrate the ability to properly measure, layout and install soffits and fascia.

1008

Demonstrate the ability to properly measure, layout and install gutters and downspouts.

1009

Demonstrate the ability to properly measure, layout and install an exterior set of stairs.

# Course Syllabus Level 2:

## First Semester (First Marking Period)

### **Projects:**

Individual projects  
Roof projects  
Siding projects

### **Duty and Tasks Covered:**

Tasks 400-410

#### **400**

401

#### **BLUEPRINTS READING**

Demonstrate the ability to read and interpret blueprints.

402

Demonstrate the ability to read, interpret and comprehend standard symbols and abbreviations.

403

Demonstrate the ability to read and interpret building specifications.

404

Demonstrate the ability to read and interpret a plot plan.

405

Demonstrate the ability to read and interpret a foundation plan.

406

Demonstrate the ability to read and interpret elevation plans.

407

Demonstrate the ability to read and interpret details and section views.

408

Demonstrate the ability to read and interpret floor, wall and roof framing plans.

409

Demonstrate the ability to read and interpret building and zoning codes.

410

Demonstrate the ability to read and interpret Americans with Disabilities Act (ADA) regulations.

Tasks 700-1009

#### **700**

701

#### **FRAMING - FLOOR CONSTRUCTION**

Determine methods used to fasten sill plates.

702

Demonstrate the ability to properly install fasteners used in floor framing.

703

Demonstrate the ability to properly measure and install sill plates.

704

Demonstrate the ability to properly measure and install floor joists.

705

Demonstrate the ability to properly measure and install joists for a cantilever floor.

706

Demonstrate the ability to properly layout and construct cross and solid bridging.

707

Demonstrate the ability to properly layout and install sub-flooring.

708

Demonstrate the ability to properly measure and frame floor openings.

#### **800**

#### **FRAMING - WALL CONSTRUCTION**



801	Determine fastening methods used during wall construction.
802	Demonstrate the ability to properly install fasteners used in wall construction.
803	Demonstrate the ability to properly measure, layout and construct a wall.
804	Demonstrate the ability to properly select and install various types of insulation.
805	Demonstrate the ability to properly measure, layout and construct door openings.
806	Demonstrate the ability to properly measure, layout and construct window openings.
807	Demonstrate the ability to properly measure, layout and construct solid headers.
808	Demonstrate the ability to properly measure, layout and install sheathing.
809	Demonstrate the ability to properly plumb, align and brace walls.
810	Demonstrate the ability to properly install metal studs.
<b>900</b>	<b>FRAMING - ROOF CONSTRUCTION</b>
901	Determine fastening methods used during roof construction.
902	Demonstrate the ability to properly install fasteners used in roof construction.
903	Demonstrate the ability to properly measure, layout, cut and install a ridge board.
904	Demonstrate the ability to properly measure, layout, cut and install hip, jack and truss rafters.
905	Demonstrate the ability to properly measure, layout, cut and install roof trusses.
906	Demonstrate the ability to properly measure, layout, cut and install brace roof trusses.
907	Demonstrate the ability to properly measure, layout, cut and install roof sheathing.
908	Demonstrate the ability to properly measure, layout, cut and install roof openings.
909	Demonstrate the ability to properly measure, layout, cut, frame and install dormers.
910	Demonstrate the ability to properly measure, layout, cut and install roofing paper.
911	Demonstrate the ability to properly measure, layout, cut and install shingles.
912	Demonstrate the ability to properly measure, layout, cut and install capping.
<b>1000</b>	<b>EXTERIOR FINISH</b>
1001	Determine fastening methods used during exterior finishing operations.
1002	Demonstrate the ability to properly install fasteners used in exterior finishing operations.
1003	Demonstrate the ability to properly measure, layout and install house wrap.
1004	Demonstrate the ability to properly measure, layout and install exterior doors.
1005	Demonstrate the ability to properly measure, layout and install windows.

1006	Demonstrate the ability to properly measure, layout and install siding.
1007	Demonstrate the ability to properly measure, layout and install soffits and fascia.
1008	Demonstrate the ability to properly measure, layout and install gutters and downspouts.
1009	Demonstrate the ability to properly measure, layout and install an exterior set of stairs.

### **First Semester (Second Marking Period)**

#### **Projects:**

Individual projects

Roof projects

Siding projects

Interior drywall projects

Interior trim projects

### **Second Semester (Third Marking Period)**

#### **Projects:**

Individual projects

Roof projects

Siding projects

Interior drywall projects

Interior trim projects

#### **Duty and Tasks Covered:**

Tasks 400-410

Tasks 700-1009

Tasks 1100-1110

## Second Semester (Fourth Marking Period)

### **Projects:**

Individual projects

Roof projects

Siding projects

Interior drywall projects

Interior trim projects

### Tasks 400-410

#### **400**

401

#### **BLUEPRINTS READING**

Demonstrate the ability to read and interpret blueprints.

402

Demonstrate the ability to read, interpret and comprehend standard symbols and abbreviations.

403

Demonstrate the ability to read and interpret building specifications.

404

Demonstrate the ability to read and interpret a plot plan.

405

Demonstrate the ability to read and interpret a foundation plan.

406

Demonstrate the ability to read and interpret elevation plans.

407

Demonstrate the ability to read and interpret details and section views.

408

Demonstrate the ability to read and interpret floor, wall and roof framing plans.

409

Demonstrate the ability to read and interpret building and zoning codes.

410

Demonstrate the ability to read and interpret Americans with Disabilities Act (ADA) regulations.

### Tasks 700-1009

#### **700**

701

#### **FRAMING - FLOOR CONSTRUCTION**

Determine methods used to fasten sill plates.

702

Demonstrate the ability to properly install fasteners used in floor framing.

703

Demonstrate the ability to properly measure and install sill plates.

704

Demonstrate the ability to properly measure and install floor joists.

705

Demonstrate the ability to properly measure and install joists for a cantilever floor.

706

Demonstrate the ability to properly layout and construct cross and solid bridging.

707

Demonstrate the ability to properly layout and install sub-flooring.

708

Demonstrate the ability to properly measure and frame floor openings.

#### **800**

#### **FRAMING - WALL CONSTRUCTION**

801	Determine fastening methods used during wall construction.
802	Demonstrate the ability to properly install fasteners used in wall construction.
803	Demonstrate the ability to properly measure, layout and construct a wall.
804	Demonstrate the ability to properly select and install various types of insulation.
805	Demonstrate the ability to properly measure, layout and construct door openings.
806	Demonstrate the ability to properly measure, layout and construct window openings.
807	Demonstrate the ability to properly measure, layout and construct solid headers.
808	Demonstrate the ability to properly measure, layout and install sheathing.
809	Demonstrate the ability to properly plumb, align and brace walls.
810	Demonstrate the ability to properly install metal studs.
<b>900</b>	<b>FRAMING - ROOF CONSTRUCTION</b>
901	Determine fastening methods used during roof construction.
902	Demonstrate the ability to properly install fasteners used in roof construction.
903	Demonstrate the ability to properly measure, layout, cut and install a ridge board.
904	Demonstrate the ability to properly measure, layout, cut and install hip, jack and truss rafters.
906	Demonstrate the ability to properly measure, layout, cut and install brace roof trusses.
907	Demonstrate the ability to properly measure, layout, cut and install roof sheathing.
908	Demonstrate the ability to properly measure, layout, cut and install roof openings.
909	Demonstrate the ability to properly measure, layout, cut, frame and install dormers.
910	Demonstrate the ability to properly measure, layout, cut and install roofing paper.
911	Demonstrate the ability to properly measure, layout, cut and install shingles.
912	Demonstrate the ability to properly measure, layout, cut and install capping.
<b>1000</b>	<b>EXTERIOR FINISH</b>
1001	Determine fastening methods used during exterior finishing operations.
1002	Demonstrate the ability to properly install fasteners used in exterior finishing operations.
1003	Demonstrate the ability to properly measure, layout and install house wrap.
1004	Demonstrate the ability to properly measure, layout and install exterior doors.
1005	Demonstrate the ability to properly measure, layout and install windows.
1006	Demonstrate the ability to properly measure, layout and install siding.

- 1007 Demonstrate the ability to properly measure, layout and install soffits and fascia.
- 1008 Demonstrate the ability to properly measure, layout and install gutters and downspouts.
- 1009 Demonstrate the ability to properly measure, layout and install an exterior set of stairs.

Tasks 1100-1207

**1100**

**INTERIOR FINISH**

- 1101 Determine fastening methods used during interior finishing operations.
- 1102 Demonstrate the ability to properly install fasteners used in interior finishing operations.
- 1103 Demonstrate the ability to properly measure, layout and install tape and finish drywall.
- 1104 Demonstrate the ability to properly measure, layout and install suspended and tile ceilings.
- 1105 Demonstrate the ability to properly measure, layout and install interior doors.
- 1106 Demonstrate the ability to properly measure, layout and install door, trim, casings and hardware.
- 1107 Demonstrate the ability to properly measure, layout and install windows.
- 1108 Demonstrate the ability to properly measure, layout and install window trim, casings and hardware.
- 1109 Demonstrate the ability to properly measure, layout and install baseboard and molding.
- 1110 Demonstrate the ability to properly measure, layout and install hardwood, tile and block flooring.
- 1111 Demonstrate the ability to properly measure, layout and install an interior set of stairs.

**1200**

**ESTIMATION**

- 1201 Demonstrate the ability to correctly estimate the amount of bricks needed to complete a given task.
- 1202 Demonstrate the ability to correctly estimate the amount of block needed to complete a given task.
- 1203 Demonstrate the ability to correctly estimate the amount of concrete needed to complete a given task.
- 1204 Demonstrate the ability to correctly estimate the cost and amount of materials to finish an exterior wall.
- 1205 Demonstrate the ability to correctly estimate the cost and amount of materials to finish an interior wall.
- 1206 Demonstrate the ability to correctly estimate the cost and amount of materials to construct a floor.
- 1207 Demonstrate the ability to correctly estimate the cost and amount of materials to construct a roof.

**Level 2 Outcome:** Completed multiple individual projects, shop projects as well as OSHA and safety work.

# Course Syllabus Level 3

## First Semester (First Marking Period)

### **Projects:**

Group projects  
Individual projects  
Roof projects  
Siding projects  
Interior drywall projects  
Interior trim projects  
Cabinet projects

## First Semester (Second Marking Period)

### **Projects:**

Group projects  
Individual projects  
Roof projects  
Siding projects  
Interior drywall projects  
Interior trim projects  
Cabinet projects

### **Duty and Tasks Covered:**

Tasks 100-410

<b>100</b>	<b>SAFETY/OCCUPATIONAL ORIENTATION</b>
101	Identify and follow all basic safety practices and procedures.
102	Identify and follow all lab safety practices and procedures.
103	Identify and follow all construction industry safety practices and procedures.
104	Follow procedures in Material Safety Data Sheets (MSDS) system.
105	Identify and follow all OSHA safety standards at the construction site.
106	Explain and demonstrate proper/safe rigging procedures.
107	Demonstrate the ability to construct scaffolding.
<b>200</b>	<b>HAND TOOLS</b>
201	Demonstrate the ability and proper use of small hand tools.

202	Demonstrate the ability and proper use of sawing tools.
203	Demonstrate the ability and proper use of fastening tools.
204	Demonstrate the ability and proper use of measuring tools.
205	Demonstrate the ability and proper use of cutting and sharp tools.
206	Demonstrate the ability to sharpen cutting tools.
207	Demonstrate the ability and proper use of digging tools.
208	Demonstrate the ability and proper use of ladders.
209	Demonstrate the ability and proper use of finishing tools.
210	Demonstrate the ability to properly maintain hand tools.
<b>300</b>	<b>POWER TOOLS</b>
301	Demonstrate the ability to properly use stationary electric power tools.
302	Demonstrate the ability to properly use pneumatic tools systems.
303	Demonstrate the ability to properly use portable electric power tools.
304	Demonstrate the ability to properly maintain electric power tools.
305	Demonstrate the ability to properly maintain pneumatic power tools.
400	<b>BLUEPRINTS READING</b>
401	Demonstrate the ability to read and interpret blueprints.
402	Demonstrate the ability to read, interpret and comprehend standard symbols and abbreviations.
403	Demonstrate the ability to read and interpret building specifications.
404	Demonstrate the ability to read and interpret a plot plan.
405	Demonstrate the ability to read and interpret a foundation plan.
406	Demonstrate the ability to read and interpret elevation plans.
407	Demonstrate the ability to read and interpret details and section views.
408	Demonstrate the ability to read and interpret floor, wall and roof framing plans.
409	Demonstrate the ability to read and interpret building and zoning codes.
410	Demonstrate the ability to read and interpret Americans with Disabilities Act (ADA) regulations.

#### Tasks 700-1110

**700**  
701

#### **FRAMING - FLOOR CONSTRUCTION**

Determine methods used to fasten sill plates.

702	Demonstrate the ability to properly install fasteners used in floor framing.
703	Demonstrate the ability to properly measure and install sill plates.
704	Demonstrate the ability to properly measure and install floor joists.
705	Demonstrate the ability to properly measure and install joists for a cantilever floor.
706	Demonstrate the ability to properly layout and construct cross and solid bridging.
707	Demonstrate the ability to properly layout and install sub-flooring.
708	Demonstrate the ability to properly measure and frame floor openings.
<b>800</b>	<b>FRAMING - WALL CONSTRUCTION</b>
801	Determine fastening methods used during wall construction.
802	Demonstrate the ability to properly install fasteners used in wall construction.
803	Demonstrate the ability to properly measure, layout and construct a wall.
804	Demonstrate the ability to properly select and install various types of insulation.
805	Demonstrate the ability to properly measure, layout and construct door openings.
806	Demonstrate the ability to properly measure, layout and construct window openings.
807	Demonstrate the ability to properly measure, layout and construct solid headers.
808	Demonstrate the ability to properly measure, layout and install sheathing.
809	Demonstrate the ability to properly plumb, align and brace walls.
810	Demonstrate the ability to properly install metal studs.
<b>900</b>	<b>FRAMING - ROOF CONSTRUCTION</b>
901	Determine fastening methods used during roof construction.
902	Demonstrate the ability to properly install fasteners used in roof construction.
903	Demonstrate the ability to properly measure, layout, cut and install a ridge board.
904	Demonstrate the ability to properly measure, layout, cut and install hip, jack and truss rafters.
905	Demonstrate the ability to properly measure, layout, cut and install roof trusses.
906	Demonstrate the ability to properly measure, layout, cut and install brace roof trusses.
907	Demonstrate the ability to properly measure, layout, cut and install roof sheathing.
908	Demonstrate the ability to properly measure, layout, cut and install roof openings.
909	Demonstrate the ability to properly measure, layout, cut, frame and install dormers.
910	Demonstrate the ability to properly measure, layout, cut and install roofing paper.
911	Demonstrate the ability to properly measure, layout, cut and install shingles.



912	Demonstrate the ability to properly measure, layout, cut and install capping.
<b>1000</b>	<b>EXTERIOR FINISH</b>
1001	Determine fastening methods used during exterior finishing operations.
1002	Demonstrate the ability to properly install fasteners used in exterior finishing operations.
1003	Demonstrate the ability to properly measure, layout and install house wrap.
1004	Demonstrate the ability to properly measure, layout and install exterior doors.
1005	Demonstrate the ability to properly measure, layout and install windows.
1006	Demonstrate the ability to properly measure, layout and install siding.
1007	Demonstrate the ability to properly measure, layout and install soffits and fascia.
1008	Demonstrate the ability to properly measure, layout and install gutters and downspouts.
1009	Demonstrate the ability to properly measure, layout and install an exterior set of stairs.
<b>1100</b>	<b>INTERIOR FINISH</b>
1101	Determine fastening methods used during interior finishing operations.
1102	Demonstrate the ability to properly install fasteners used in interior finishing operations.
1103	Demonstrate the ability to properly measure, layout and install tape and finish drywall.
1104	Demonstrate the ability to properly measure, layout and install suspended and tile ceilings.
1105	Demonstrate the ability to properly measure, layout and install interior doors.
1106	Demonstrate the ability to properly measure, layout and install door, trim, casings and hardware.
1107	Demonstrate the ability to properly measure, layout and install windows.
1108	Demonstrate the ability to properly measure, layout and install window trim, casings and hardware.
1109	Demonstrate the ability to properly measure, layout and install baseboard and molding.
1110	Demonstrate the ability to properly measure, layout and install hardwood, tile and block flooring.
1111	Demonstrate the ability to properly measure, layout and install an interior set of stairs.
 Tasks 1200-1207	
<b>1200</b>	<b>ESTIMATION</b>
1201	Demonstrate the ability to correctly estimate the amount of bricks needed to complete a given task.
1202	Demonstrate the ability to correctly estimate the amount of block needed to complete a given task.
1203	Demonstrate the ability to correctly estimate the amount of concrete needed to complete a given task.

1204	Demonstrate the ability to correctly estimate the cost and amount of materials to finish an exterior wall.
1205	Demonstrate the ability to correctly estimate the cost and amount of materials to finish an interior wall.
1206	Demonstrate the ability to correctly estimate the cost and amount of materials to construct a floor.
1207	Demonstrate the ability to correctly estimate the cost and amount of materials to construct a roof.

## **Second Semester (Fourth Marking Period)**

### **Projects:**

Group projects

Individual projects

Roof projects

Siding projects

Interior drywall projects

Interior trim projects

Cabinet projects

**Level 3 Outcomes:** Completed individual and group assignments, OSHA, safety, tools, interior and exterior finish, and cabinetry intro.

## Supplemental Learning Activities

Students who participate in this program will also have opportunities to participate in the following program and school-sponsored activities:

**SkillsUSA:** Two groups of two students each participate in the Web Design Competition at the SkillsUSA Regional Competition.

**NTHS:** Level II and Level III students who have received an “A” in their career and technical program as well as a “B” average at their sending school are eligible to become a member of the BAVTS Chapter of the National Technical Honor Society.

**Cooperative Education:** Students who have attended six quarters in their career and technical program are eligible to participate in a paid working experience during the PM session of BAVTS. Positions must be available and the students must be recommended by the CTE teacher to be eligible.

**Job Shadowing:** Students are eligible to visit business and industry partners for one or more days to view the day-to-day operations of this career area.

**Internships:** Students who have completed six or more quarters of their CTE program are eligible to work for a business and industry partner with the recommendation of the instructor and the availability of assignment.

**Field Trips:** Students in this program will on occasion attend field trips that expose them to educational experiences within the career field.