

**For More Inquiries about accreditation and continuing education please contact:*

Student Services Department

Studentservices@eascarpenterstech.edu

Phila, DE, Allentown (215) 824-2300 – Edison (732) 372-6020 – Hammonton, Sicklerville (609) 567-5675

CABINETMAKER PROGRAM – YEAR 1

NEW COURSE NUMBER	COURSE TITLE AND DESCRIPTION	CONTACT HOURS
MATH120	<p>INTRODUCTORY CONCEPTS OF MATHEMATICS</p> <p>This course covers basic treatment of trade math beginning with general math, fractions, decimals, ratios and percentages. Early layout theory in spacing of framing using linear measurements and quantitative material take-off is introduced.</p> <p><i>Students must complete both classes to receive credit.</i></p>	24
SFHT250	<p>SAFETY IN THE CONSTRUCTION I</p> <p>This course provides entry level construction workers with a general s hazards that a worker may encounter at a construction site. Students earn an OSHA10 certification. The student must complete a detailed safety manual as per school policy. The manual includes all basic power tools used for cabinetmaking.</p> <p><i>Students must complete both classes to receive credit.</i></p>	24
CONT124	<p>SHELF, CABINET, PLASTIC LAMINATE, DOVETAIL DRAWER, HARDWARE ASSEMBLY</p> <p>The focus of this class is project based learning. The student will have to interpret, cut list, machine and assemble. The student build projects using the latest woodworking equipment. The student estimates materials and execute their plan.</p>	60
CONT123	<p>CABINETMAKER TOOLS</p> <p>This <i>course</i> will introduce students to the tools and materials essential to the millwright-cabinet making trade. Students will learn about the use, cleaning and maintenance of power and hand tools. Additionally, students will learn how to change blades and cutters. Finally, students will learn basic computer skills with Giben panel saw software.</p> <p><i>Students must complete both classes to receive credit.</i></p>	32
ARCH130	<p>ARCHITECTURAL DRAWINGS & BLUEPRINT READING I</p> <p>This course will build upon the students' basic mathematics, trigonometry, measurement skills and knowledge by accurately using math when reading blueprints. Reading blueprints, measuring, layout, fabrication and other functions specific to the millwright/cabinet making trade require accurate calculations and measurements for the success of any job. Reading blueprints and tape rules or taking other measurements accurately will contribute to a timely and successful job.</p> <p><i>Students must complete both classes to receive credit.</i></p>	32
CONT125	<p>SOLID SURFACE MATERIAL, MILLWORK, SPRAY FINISHES, SPRAY GUNS</p> <p>Instruction includes Corian solid surface installation and cutting. Spray booth to apply finish coatings on completed projects. Students cut, glue, and spray finish all projects. All sprays finishes applied are commercial grade to meet industry standards.</p>	60
CONT190	<p>CONSTRUCTION INTERNSHIP I</p>	1800

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TOTAL 232

CABINETMAKER PROGRAM – YEAR 2

NEW COURSE NUMBER	COURSE TITLE AND DESCRIPTION	CONTACT HOURS
MATH121	<p>INTRODUCTORY CONCEPTS OF ALGEBRA</p> <p>This course covers decimals and fractions as well as an intense overview of the metric system. Students learn how to apply the 32mm system. Students will use their math skills to optimize the best yield of sheet goods and hardwood.</p> <p><i>Students must complete both classes to receive credit.</i></p>	18
SFHT212	<p>CONSTRUCTION SAFETY II</p> <p>This course provides millwright cabinet makers with the opportunity to complete their safety manual for their craft. The training covers a variety of construction safety and health hazards that a worker may encounter. The student must complete a detailed safety manual as per school policy. The manual includes all basic power tools used for cabinetmaking.</p> <p><i>Students must complete both classes to receive credit.</i></p>	24
ARCH131	<p>ARCHITECTURAL DRAWINGS & BLUEPRINT READING II</p> <p>This course will explain how to interpret construction blueprints including reading sections. The student must interpret the drilling sizes. Student are introduced to the CNC router and the layout requirements needed to operate the machine. Hinge specifications and details are highlighted. Students make full scale section layouts. Using CNC and related equipment, the student will band edge table tops as well as gaining & mortising for hinges and hardware.</p> <p><i>Students must complete both classes to receive credit.</i></p>	24
CONT126	<p>TOOLS AND MATERIALS II</p> <p>This <i>course</i> will help students identify the various components of a machine and their function. Students will learn to repair and maintain equipment. Students will program tooling for CNC router and CNC saw. Finally, students will learn how to read lumber orders and fill them. This <i>course</i> will help students enter CAD drawings into the CNC router in order to pre-cut assemblies for cabinet construction. Students will learn how to handle Dado & Plows and Panel saw operations.</p> <p><i>Students must complete both classes to receive credit.</i></p>	30

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CONT127	CABINET PROJECTS I The focus of the shop work is project based learning. The student has to interpret, cut list, machine and assemble. The student build projects using the latest woodworking equipment. The student estimates materials and execute their plan. Identity hardware and install doors. Cut and install miters.	60
CONT128	CABINET DOORS AND LOCKS Student will demonstrate safe use of rip saw in cutting components to assemble cabinet doors. All hardware will be mortised and gained to fit snug and tight. Level up cabinets on uneven surfaces.	60
CONT199	CONSTRUCTION INTERNSHIP II This course consists of paid OJT, internship, or practicum performed in a business, industry, trade, or technical career setting within the student’s occupational area. The contact hours experienced through on-the-job training will be verified by an employer or union official and will be placed on the student’s record. There are specific competencies from work experience required.	1800
TOTAL		216

CABINETMAKER PROGRAM – YEAR 3

NEW COURSE NUMBER	COURSE TITLE AND DESCRIPTION	CONTACT HOURS
MATH220	INTRODUCTION TO CONCEPTS OF GEOMETRY All math is related to cabinetmaking and used in laying out furniture. All math is taken from the Practical Problems in Mathematics for Carpenters 9th Edition study book. Student use geometry as it relates to the measurement to angle, arcs, circle, and compound angles. CNC equipment operates using the metric system. Circle arc and octagon layout formulas are learned so that these shapes can be laid out. Students must complete both classes to receive credit.	22
ARCH230	ARCHITECTURAL DRAWINGS & BLUEPRINT READING III How to interpret construction blueprints. The study book is the CITF Printreading study book. Students make a layout stick as per architectural specifications. Students navigate through construction prints and complete a raised panel, horizontal and hexagon layout. Students will interpret elevation and plan drawings to cut, fit & assemble cabinetry. Students must complete both classes to receive credit.	16
SFTH213	EQUIPMENT SAFETY Students will be certified to operate a power industrial truck through the CITF. Plunge router safety review and test will also be covered. Students set up a power feeder on the shaper.	18

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CONT225	CABINET ASSEMBLY AND FINISHES Identification of the various components of a machine and their function. Spray finish seminar with two representatives from Russell plywood. Seminar covers mixing catalyst and conversion varnishes. Students receive a qualification as a Solid surface installer certification. <i>Students must complete both classes to receive credit.</i>	30
CONT226	CABINET PROECTS II The focus of the shop work is project based learning. The student has to interpret, cut list, machine and assemble. Students use CNC tooling to fabricate doors, drawers, cabinet and tables. Students cut, glue, and spray finish all projects. All sprays finishes applied are commercial grade to meet industry standards.	65
CONT227	DRAWERS AND TABLES Students will inset drawers, complete Solid Surface fabrication, and assemble drawer hardware. All components of a table system are assembled as per OEM specs.	65
CONT290	CONSTRUCTION INTERNSHIP III This course consists of paid OJT, internship, or practicum performed in a business, industry, trade, or technical career setting within the student’s occupational area. The contact hours experienced through on-the-job training will be verified by an employer or union official and will be placed on the student’s record. There are specific competencies from work experience required.	1800
TOTAL		216

CABINETMAKER PROGRAM – YEAR 4

NEW COURSE NUMBER	COURSE TITLE AND DESCRIPTION	CONTACT HOURS
MATH221	ADVANCED CALCULATIONS All math is related to cabinetmaking and used in laying out furniture. Student complete estimations relating to the cabinetmaking industry. Students complete a final assessment relating to all cabinetmaking mathematics. Translate and convert different types of unit measurements. Estimate weights of assembled material for structural support. <i>Students must complete both classes to receive credit.</i>	22
ARCH231	ARCHITECTURAL DRAWINGS & BLUEPRINT READING III How to interpret construction blueprints including reading sections. Student interprets building codes and section drawings from the city of Philadelphia. Students use blueprints to CNC an assortment of casework. Conventions, abbreviations and architectural styles are identified and discussed. <i>Students must complete both classes to receive credit.</i>	15

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SFHT214	FIRST AID, CPR, CONSTRUCTION FALL PROTECTION This class includes Certified Coyne First aid & CPR as well as CITF certified construction fall class	18
CONT228	CABINET PROECTS III The focus of the shop work is project based learning. The student has to interpret, cut list, machine and assemble. Student are tested to meet the standard to a panel saw operator. Students make custom millwork. All projects must meet the AWI standards. Identification of the various components of a machine and their function. Students use a CNC machine to cut pockets and drill millwork. Students make a custom veneered table. <i>Students must complete both classes to receive credit.</i>	76
CONT249	LUMBER, VENEERS AND CABINETRY EQUIPMENT Identify the varying types and grades of lumber and their application to specific furniture construction. Final instruction in operating and maintaining custom cabinetry equipment and steps required to maintain updating. Final will include student custom making millwork. <i>Students must complete both classes to receive credit.</i>	76
CONT299	CONSTRUCTION INTERNSHIP IV This course consists of paid OJT, internship, or practicum performed in a business, industry, trade, or technical career setting within the student's occupational area. The contact hours experienced through on-the-job training will be verified by an employer or union official and will be placed on the student's record. There are specific competencies from work experience required.	1800
TOTAL		207