

Carpenter Certificate

(Building Construction Technology – Associate of Applied Science Degree Path)

This certificate program is designed to equip students with the basic carpentry skills necessary to enter the construction industry. Through a blend of classroom theory and hands-on experience, students will be introduced to hand tools, power tools and other equipment commonly used in the industry. Lumber, concrete, and a variety of other materials and hardware, as well as math, blueprint reading, and cost estimation techniques will also be covered.

This certificate program is designed to prepare students for success in careers in the building construction industry, one of the largest industries in the United States today. The skills of a well-trained carpenter are in high demand. This program is well-suited for individuals who enjoy working with their hands in both indoor and outdoor environments. Those who graduate with this certificate are well-rounded in reading and interpreting construction drawings, selecting and utilizing the appropriate building materials, and using hand tools and power tools, both independently and in a team environment.

A certificate will be awarded to students who successfully complete the following courses:

Career Preparation and Related Courses		SUGGESTED SEQUENCE				CREDIT HOURS	CONTACT HOURS
ATAM 1150	Shop Arithmetic	■	□	□	□	2	32
ATBC 1100	Blueprint & Math—Residential	■	□	□	□	2	32
ATBC 1180	Electrical Blueprint Reading—Residential	■	□	□	□	2	32
ATBC 1510	Layout Surveying	■	□	□	□	2	32
DRAD 1110	Introduction to Architectural Drafting	■	□	□	□	3	96
ATBC 1150	Blueprint & Math—Commercial	□	■	□	□	2	32
ATBC 1190	Electrical Blueprint Reading—Commercial	□	■	□	□	2	32
ATBC 1400	Hand Woodworking Tools—Care & Use	□	■	□	□	3	48
DRAD 2230	Construction Specifications	□	■	□	□	3	48
ATWD 1110	Fundamentals of Gas & Arc Welding	□	■	□	□	2	32
ATBC 1160	Cost Estimating	□	□	■	□	2	32
DRAD 2110	Applied Building Construction	□	□	■	□	3	64
ATMT 1650	Millwright Theory I	□	□	■	□	2	32
Total						30	544

In cases where prior training or education is documented, specific courses may be substituted for one or more of the above courses as conditions warrant. Suggested alternate courses, which may also be used as electives toward an associate degree, are listed below for consideration. Contact the Applied Technology and Apprenticeship department for details.

Suggested Alternative/Elective Courses:

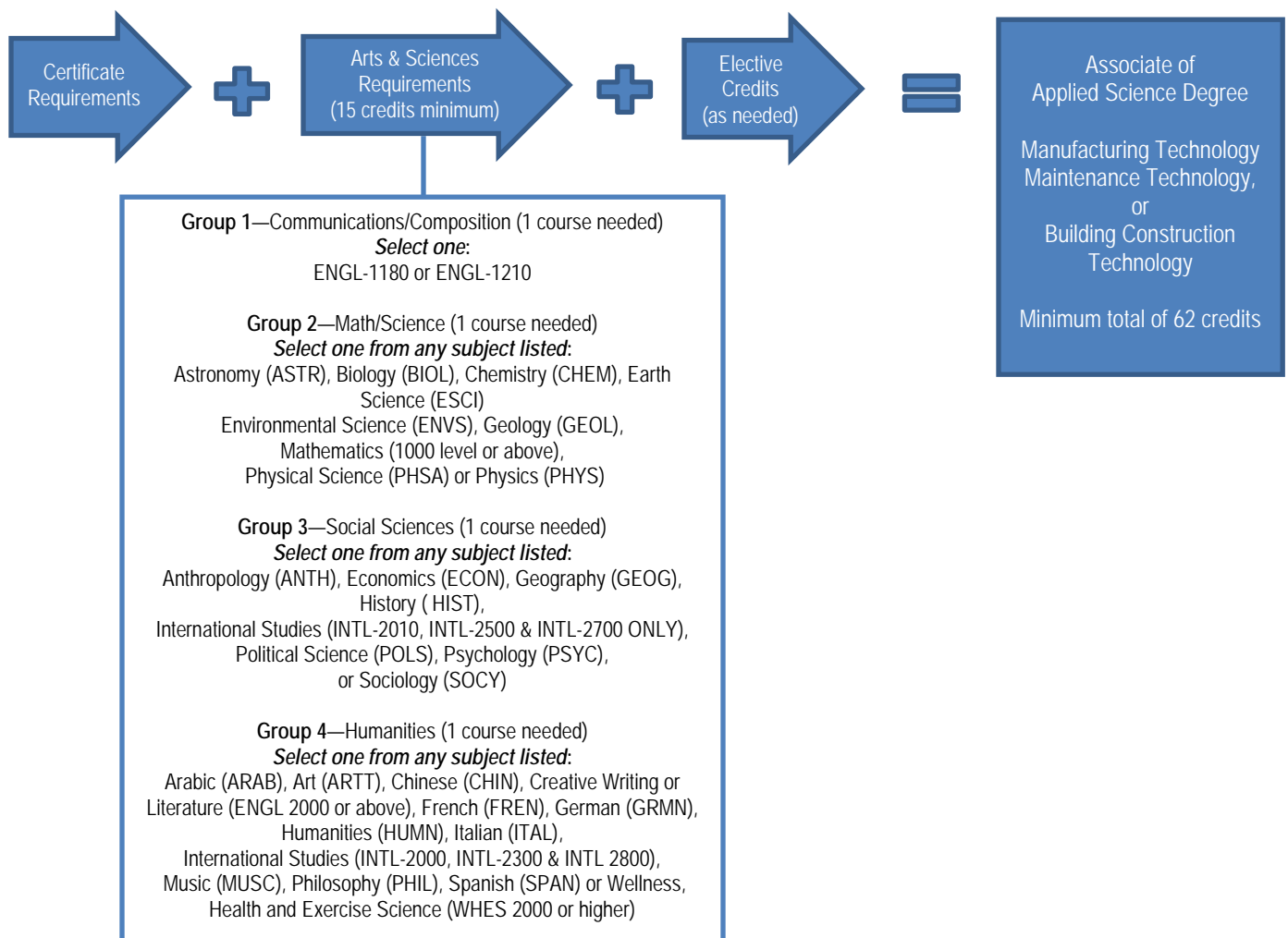
ATMT 1660	Millwright Theory II	ATTR 1600	Industrial Safety - Skilled Trades
ELEC 1300	Electrical Fundamentals for Non-Electrical Tradesmen	ATTR 1150	Technical Report Writing
ATBC 2600	Construction Law & Contract Administration	ATAM 1160	Algebra
DRCG 1140	Interactive Computer Graphics – 2D & 3D AutoCAD	ATWD 1100	Welding Metallurgy

SEE SECOND PAGE/REVERSE SIDE FOR ASSOCIATE DEGREE REQUIREMENTS

Associate of Applied Science Degree Requirements (Minimum 62 credit hours)

An Associate of Applied Science Degree is offered for those enrolled in or completing an Apprenticeship, Employee-In-Training, or General Certificate Program. Other college requirements apply, including the completion of the arts and sciences (general education) requirements as well as attaining a minimum overall total of 62 credit hours. See Apprentice Coordinator or Advisor for details.

Students may graduate with an Associate of Applied Science Degree in Manufacturing Technology, Maintenance Technology or Building Construction Technology, depending on the Apprenticeship, Employee-In-Training or General Certificate Program area of specialty.



Information is subject to change. Please visit www.macomb.edu for the most current information.

For more information on the Carpenter Certificate Program at Macomb, contact the Applied Technology and Apprenticeship Department at 586.445.7438 or apprenticeship@macomb.edu .