

**WITHLACOOCHEE TECHNICAL COLLEGE**  
**Building Trades and Construction Design Technology**  
**C100100**  
**POST-SECONDARY SYLLABUS**  
**2018-2019**

**Instructor Contact Information**

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**Program Description**

The purpose of this program is to prepare students for employment or advanced training in the building construction industry.

This program offers a sequence of courses that provides coherent and rigorous content aligned with challenging academic standards and relevant technical knowledge and skills needed to prepare for further education and careers in the Architecture and Construction career cluster; provides technical skill proficiency, and includes competency-based applied learning that contributes to the academic knowledge, higher-order reasoning and problem-solving skills, work attitudes, general employability skills, technical skills, and occupation-specific skills, and knowledge of all aspects of the Architecture and Construction career cluster.

The content includes but is not limited to applying construction techniques; reading plans and specifications; and developing trade skills in carpentry, masonry, electricity, plumbing and air conditioning.

**Physical Requirements**

There are numerous graded, hands-on projects that will include lifting tools and equipment used in the industry, up to 50 lbs., working from 6', 8', 10' & 12' ladders and working in confined spaces.

**Dress Code**

Full cover shoes such as work boots or sneakers, full cover shirt, no tank tops, long pants such as jeans, Dickies, Duluth or Carhart. Safety eyewear is required in the shop area. No shorts permitted. Shirts must be tucked in, sleeves buttoned or firmly rolled.

**Attendance**

Attendance is an integral part of this program. Attendance/employability is 30% of your grade. Attendance should be treated as if I am your employer and you are the employee. If you are going to miss a day you are expected to call in as you would at your place of employment. Failure to do so will affect your grade. See the student handbook regarding attendance.

## Textbooks

NCCER Core Curriculum	ISBN: 9780134130989 (provided in class)
NCCER Carpentry Level 1	ISBN: 9780133403800
NCCER Carpentry Level 2	ISBN: 9780133404654
NCCER Carpentry Level 3	ISBN: 9780133823059
NCCER Carpentry Level 4	ISBN: 9780133823141

## How You Are Evaluated

- Competency - performance on shop/hands-on activities, housekeeping, internships.
- Class work – assignments, reviews, quizzes and exams.
- Employability skills.

## How You Are Graded

- 100 – 90                      A
- 89 – 80                        B
- 79 – 70                        C
- 69 – 60                        D
- Below 60                      F

## Florida DOE Occupational Completion Points

OCP	Course Number	Course Title	Length	SOC Code
A	BCV 0080	Building Construction Assistant	450 Hours	49-9071
B	BCV 0081	Carpentry and Masonry Technician	150 Hours	49-9071
C	BCV 0082	Electrical and Plumbing Technician	150 Hours	49-9071
D	BCV 0083	Building Maintenance Technician	150 Hours	49-9071

## Pacing Guide

<b>CTE Standards</b>	
<b>Approximately 13.5 Weeks</b>	<b>OCP A: Building Construction Assistant                      450 Hours</b>
	01.0      Demonstrate safety practices and follow disaster plans
	02.0      Identify and use basic hand tools
	03.0      Identify power tools and describe their proper operation

	04.0	Research, identify, classify and present construction components, materials, hardware and characteristics
	05.0	Demonstrate an understanding of the construction industry and related occupations
	06.0	Explain the importance of employability and entrepreneurship skills
	07.0	Demonstrate rough and finish carpentry skills
	08.0	Demonstrate masonry skills
	09.0	Demonstrate painting and decorating skills
	10.0	Demonstrate science knowledge and skills
	11.0	Demonstrate mathematics knowledge and skills
	12.0	Explain all that the built environment encompasses
	13.0	Demonstrate an understanding of the natural environment, built environment and green built environment
<b>Approximately 4.5 Weeks</b>	<b>OCP B: Carpentry and Masonry Technician</b> <b>150 Hours</b>	
	14.0	Research laws applicable to the construction industry
	15.0	Develop a basic understanding of construction contracts and how they apply to the construction process
<b>Approximately 4.5 Weeks</b>	<b>OCP C: Electrical and Plumbing Technician</b> <b>150 Hours</b>	
	16.0	Demonstrate electrical rough in skills
	17.0	Demonstrate finish electrical skills
	18.0	Demonstrate plumbing rough in skills
	19.0	Demonstrate finish plumbing skills
	20.0	Demonstrate heating, ventilation and air conditioning (HVAC) rough in skills
21.0	Demonstrate finish heating, ventilation and air conditioning (HVAC) skills	
<b>Approximately 4.5 Weeks</b>	<b>OCP D: Building Maintenance Technician</b> <b>150 Hours</b>	
	22.0	Demonstrate design technology