

# Carpentry Technology

The Carpentry Technology program provides the basic entry-level skills in the construction of buildings. Skilled carpenters are required in areas of new building construction, repair, and alteration of buildings. The program provides an introduction into the sustainable and green construction methods and materials, while offering instruction in the State of Hawai'i's building codes for energy efficiency. This program also enhances the graduates entry into the carpenters apprenticeship program.

## Program Admission Requirements:

(1) Qualified for ENG 106 and either qualified for MATH 100 or concurrent enrollment in MATH 75X or higher; or (2) approval of instructor.

## Program Student Learning Outcomes (PSLOs) approved 02/15/2022:

1. Read and understand blueprints sufficiently to use them to plan a project.
2. Select materials properly for a given project that comply with published codes and deliver energy efficient outcomes.
3. Maintain and care for the tools required in the electrical industry.
4. Utilize Occupational Safety and Health Administration (OSHA) and State safety regulations to minimize risk and protect self and others.
5. Communicate successfully orally and in writing using computer technology.
6. Demonstrate the craftsmanship standards of dependability, punctuality, and quality.

## Carpentry Technology Degrees and Certificates

### Carpentry Technology: Associate in Applied Science Degree

Some courses in the program are offered in a particular cycle and the course offerings will vary depending on the year of the first Fall semester. Two possible pathways are provided: one pathway for students starting in the Fall in an odd year (Track 1) and one pathway for students starting in the Fall in an even year (Track 2).

#### Track 1 (Odd Year)

This suggested sequence is for students starting in the fall during an odd year.

#### Fall (Semester 1)

| Course    | Course Title/Category                   | Credits |
|-----------|---|---------|
| BLPR 122  | Blueprint Reading                       | 3       |
| CARP 120B | Basic Carpentry Skills                  | 3       |
| CARP 120C | Applied Carpentry Skills                | 8       |
| FENG 120  | Facility Safety and Accident Prevention | 1       |
| WELD 117  | Introduction to Welding                 | 2       |
| WELD 118  | Shop Tools and Equipment                | 1       |
|           | Communication: A.A.S. Core Options      | 3       |

## Spring (Semester 2)

| Course    | Course Title/Category                                     | Credits |
|-----------|---|---------|
| CARP 141B | Rough Framing and Exterior Finish I                       | 3       |
| CARP 141C | Rough Framing and Exterior Finish II                      | 8       |
|           | Thinking, Reasoning, and Mathematics: A.A.S. Core Options | 3       |

1. Thinking, Reasoning, and Mathematics: QM 108 is recommended.

## Fall (Semester 3)

| Course    | Course Title/Category                     | Credits |
|-----------|---|---------|
| CARP 122B | Concrete Forms I                          | 3       |
| CARP 122C | Concrete Forms II                         | 8       |
|           | Cultural Environment: A.A.S. Core Options | 3       |

## Spring (Semester 4)

| Course    | Course Title/Category                    | Credits |
|-----------|--|---------|
| CARP 142B | Finishing I                              | 3       |
| CARP 142C | Finishing II                             | 8       |
|           | Natural Environment: A.A.S. Core Options | 3       |
|           | Social Environment: A.A.S. Core Options  | 3       |

1. Natural Environment: PHYS 101 is recommended.

Track 2 (Even Year)

This suggested sequence is for students starting in the fall during an even year.

## Fall (Semester 1)

| Course    | Course Title/Category                   | Credits |
|-----------|---|---------|
| BLPR 122  | Blueprint Reading                       | 3       |
| CARP 122B | Concrete Forms I                        | 3       |
| CARP 122C | Concrete Forms II                       | 8       |
| FENG 120  | Facility Safety and Accident Prevention | 1       |
| WELD 117  | Introduction to Welding                 | 2       |
| WELD 118  | Shop Tools and Equipment                | 1       |
|           | Communication: A.A.S. Core Options      | 3       |

## Spring (Semester 2)

| Course    | Course Title/Category                                     | Credits |
|-----------|---|---------|
| CARP 142B | Finishing I   | 3       |
| CARP 142C | Finishing II  | 8       |
|           | Thinking, Reasoning, and Mathematics: A.A.S. Core Options | 3       |

1. Thinking, Reasoning, and Mathematics: QM 108 is recommended.

## Fall (Semester 3)

| Course    | Course Title/Category                     | Credits |
|-----------|---|---------|
| CARP 120B | Basic Carpentry Skills                    | 3       |
| CARP 120C | Applied Carpentry Skills                  | 8       |
|           | Cultural Environment: A.A.S. Core Options | 3       |

## Spring (Semester 4)

| Course    | Course Title/Category                    | Credits |
|-----------|--|---------|
| CARP 141B | Rough Framing and Exterior Finish I      | 3       |
| CARP 141C | Rough Framing and Exterior Finish II     | 8       |
|           | Natural Environment: A.A.S. Core Options | 3       |
|           | Social Environment: A.A.S. Core Options  | 3       |

1. Natural Environment: PHYS 101 is recommended.

Total Credits

66

## Category Descriptions

### Communication: A.A.S. Core Options

Refer to the "General Education/Skills Core Options Course List" under the "Programs (Certificates and Degrees)" section of the catalog for a list of courses that will fulfill this category.

### Cultural Environment: A.A.S. Core Options

Refer to the "General Education/Skills Core Options Course List" under the "Programs (Certificates and Degrees)" section of the catalog for a list of courses that will fulfill this category.

### Natural Environment: A.A.S. Core Options

Refer to the "General Education/Skills Core Options Course List" under the "Programs (Certificates and Degrees)" section of the catalog for a list of courses that will fulfill this category.

### Social Environment: A.A.S. Core Options

Refer to the "General Education/Skills Core Options Course List" under the "Programs (Certificates and Degrees)" section of the catalog for a list of courses that will fulfill this category.

### Thinking, Reasoning, and Mathematics: A.A.S. Core Options

Refer to the "General Education/Skills Core Options Course List" under the "Programs (Certificates and Degrees)" section of the catalog for a list of courses that will fulfill this category.

# Carpentry Technology: Certificate of Achievement

Some courses in the program are offered in a particular cycle and the course offerings will vary depending on the year of the first Fall semester. Two possible pathways are provided: one pathway for students starting in the Fall in an odd year (Track 1) and one pathway for students starting in the Fall in an even year (Track 2).

## Track 1 (Odd Year)

This suggested sequence is for students starting in the fall during an odd year.

### Fall (Semester 1)

| Course    | Course Title/Category                   | Credits |
|-----------|---|---------|
| BLPR 122  | Blueprint Reading                       | 3       |
| CARP 120B | Basic Carpentry Skills                  | 3       |
| CARP 120C | Applied Carpentry Skills                | 8       |
| FENG 120  | Facility Safety and Accident Prevention | 1       |

### Spring (Semester 2)

| Course    | Course Title/Category                                     | Credits |
|-----------|---|---------|
| CARP 141B | Rough Framing and Exterior Finish I                       | 3       |
| CARP 141C | Rough Framing and Exterior Finish II                      | 8       |
|           | Thinking, Reasoning, and Mathematics: A.A.S. Core Options | 3       |

1. Thinking, Reasoning, and Mathematics: QM 108 is recommended.

### Fall (Semester 3)

| Course    | Course Title/Category | Credits |
|-----------|-----------------------|---------|
| CARP 122B | Concrete Forms I      | 3       |
| CARP 122C | Concrete Forms II     | 8       |

### Spring (Semester 4)

| Course    | Course Title/Category | Credits |
|-----------|-----------------------|---------|
| CARP 142B | Finishing I           | 3       |
| CARP 142C | Finishing II          | 8       |

## Track 2 (Even Year)

This suggested sequence is for students starting in the fall during an even year.

### Fall (Semester 1)

| Course    | Course Title/Category                   | Credits |
|-----------|---|---------|
| BLPR 122  | Blueprint Reading                       | 3       |
| CARP 122B | Concrete Forms I                        | 3       |
| CARP 122C | Concrete Forms II                       | 8       |
| FENG 120  | Facility Safety and Accident Prevention | 1       |

## Spring (Semester 2)

| Course    | Course Title/Category                                     | Credits |
|-----------|---|---------|
| CARP 142B | Finishing I   | 3       |
| CARP 142C | Finishing II  | 8       |
|           | Thinking, Reasoning, and Mathematics: A.A.S. Core Options | 3       |

Thinking, Reasoning, and Mathematics: QM 108 is recommended.

## Fall (Semester 3)

| Course    | Course Title/Category    | Credits |
|-----------|--------------------------|---------|
| CARP 120B | Basic Carpentry Skills   | 3       |
| CARP 120C | Applied Carpentry Skills | 8       |

## Spring (Semester 4)

| Course    | Course Title/Category                | Credits |
|-----------|--------------------------------------|---------|
| CARP 141B | Rough Framing and Exterior Finish I  | 3       |
| CARP 141C | Rough Framing and Exterior Finish II | 8       |
|           | Total Credits                        | 51      |

## Category Descriptions

### Thinking, Reasoning, and Mathematics: A.A.S. Core Options

Refer to the "General Education/Skills Core Options Course List" under the "Programs (Certificates and Degrees)" section of the catalog for a list of courses that will fulfill this category.

## Carpentry Technology: Certificate of Competence (Facilities Maintenance Technology)

Some courses in the program are offered in a particular cycle and the course offerings will vary depending on the year of the first Fall semester. Two possible pathways are provided: one pathway for students starting in the Fall in an odd year (Track 1) and one pathway for students starting in the Fall in an even year (Track 2).

### Track 1 (Odd Year)

This suggested sequence is for students starting in the fall during an odd year.

## Fall (Semester 1)

| Course    | Course Title/Category                   | Credits |
|-----------|---|---------|
| BLPR 122  | Blueprint Reading                       | 3       |
| CARP 120B | Basic Carpentry Skills                  | 3       |
| FENG 120  | Facility Safety and Accident Prevention | 1       |
| WELD 117  | Introduction to Welding                 | 2       |
| WELD 118  | Shop Tools and Equipment                | 1       |

## Spring (Semester 2)

| Course    | Course Title/Category               | Credits |
|-----------|-------------------------------------|---------|
| CARP 141B | Rough Framing and Exterior Finish I | 3       |

## Fall (Semester 3)

| Course    | Course Title/Category | Credits |
|-----------|-----------------------|---------|
| CARP 122B | Concrete Forms I      | 3       |

## Spring (Semester 4)

| Course    | Course Title/Category | Credits |
|-----------|-----------------------|---------|
| CARP 142B | Finishing I           | 3       |

Track 2 (Even Year)

This suggested sequence is for students starting in the fall during an even year.

## Fall (Semester 1)

| Course    | Course Title/Category                   | Credits |
|-----------|---|---------|
| BLPR 122  | Blueprint Reading                       | 3       |
| CARP 122B | Concrete Forms I                        | 3       |
| FENG 120  | Facility Safety and Accident Prevention | 1       |
| WELD 117  | Introduction to Welding                 | 2       |
| WELD 118  | Shop Tools and Equipment                | 1       |

## Spring (Semester 2)

| Course    | Course Title/Category | Credits |
|-----------|-----------------------|---------|
| CARP 142B | Finishing I           | 3       |

## Fall (Semester 3)

| Course    | Course Title/Category  | Credits |
|-----------|------------------------|---------|
| CARP 120B | Basic Carpentry Skills | 3       |

## Spring (Semester 4)

| <b>Course</b> | <b>Course Title/Category</b>        | <b>Credits</b> |
|---------------|-------------------------------------|----------------|
| CARP 141B     | Rough Framing and Exterior Finish I | 3              |
|               | Total Credits                       | 19             |