

CONSTRUCTION TECHNOLOGY

The Construction Technology program has courses that can be divided into two major areas of emphasis: Residential Trades and Construction Management. Due to the vast diversity of occupations and areas of specialization within the construction industry and recognizing that individual student needs will be as diverse, a Certificate of Achievement can be designed that satisfies those specific needs. Completion of a certificate program satisfies the major requirement for the Associate in Science degree. Certificates of Achievement and Specialization can be completed in one to two semesters.

Program Outcome

Upon successful completion of the Construction Specialist program, students will have the knowledge, skills and experience to identify, assess, and participate in many entry-level construction trades. Students successfully completing a comprehensive series of courses will be prepared to work in the construction field in positions including, but not limited to work areas such as inspection, management, and as hands-on skilled trades people.

BASIC CONSTRUCTION PRACTICES

Construction Technology A165, Construction Safety/CAL-OSHA, is required for any first earned Certificate of Achievement.

It is recommended that all beginning, full-time students enroll in the following courses leading to a Certificate of Achievement.

CERTIFICATE OF ACHIEVEMENT

Required Courses

| Course | | | Units |
|------------------------------|------|------|-------------|
| Construction Safety/CAL-OSHA | CNST | A165 | (3) |
| Building Construction | CNST | A180 | (5) |
| Building Construction | CNST | A185 | (5) |
| Blueprint Reading & Drafting | CNST | A190 | (4) |
| Building Code & Law | CNST | A195 | (3) |
| Residential Finish Carpentry | CNST | A240 | (5) |
| Total: | | | (25) |

ASSOCIATE DEGREE

Complete the Certificate of Achievement and Associate in Science Graduation Requirements as outlined in the Graduation Requirements section of the catalog.

RESIDENTIAL CONSTRUCTION DEVELOPMENT

Students may select any combination of courses that total eighteen (18) or more units from the following list. Note: Construction Technology A165, Construction Safety/CAL OSHA, is required for any first earned Certificate of Achievement.

RESIDENTIAL CONSTRUCTION DEVELOPMENT SECOND AWARD

RESIDENTIAL CONSTRUCTION DEVELOPMENT THIRD AWARD

Students may earn a second and third award of the certificate by completing eighteen (18) or more units from the following list, however, no course may be applied to more than one certificate.

CERTIFICATE OF ACHIEVEMENT

Required Courses

| Course | | | Units |
|--------------------------------|------|------|-------|
| Cabinet Making | CNST | A114 | (4) |
| Intro to Construction | CNST | A170 | (3) |
| Building Construction | CNST | A180 | (5) |
| Building Construction | CNST | A185 | (5) |
| Blueprint Reading & Drafting | CNST | A190 | (4) |
| Building Code & Law | CNST | A195 | (3) |
| Concrete Construction | CNST | A210 | (5) |
| Construction Estimating | CNST | A220 | (3) |
| Land & Building Development | CNST | A225 | (3) |
| Construction Inspection | CNST | A230 | (3) |
| Contractor's Business Practice | CNST | A235 | (3) |
| Residential Finish Carpentry | CNST | A240 | (5) |
| Supervision and Project Mgmt | CNST | A250 | (3) |
| Business Law for Contractors | CNST | A252 | (1.5) |
| Construction Finance | CNST | A255 | (3) |
| Masonry Construction | CNST | A260 | (3) |
| Plumbing 1 | CNST | A265 | (4) |
| Contractor's License Law | CNST | A270 | (1.5) |
| Residential Electrical Wiring | CNST | A275 | (5) |
| Res Lt Steel Frame Const | CNST | A285 | (5) |

Total: (18)

Minimum

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ASSOCIATE DEGREE

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MASTER CONSTRUCTION SPECIALIST

This certificate is given to students who complete a minimum of 54 semester units. The terms "Master" and "Specialist" imply a very broad knowledge in several of the construction trades and management disciplines. Students who complete this program will have their names displayed on a perpetual "Award of Excellence" listing in the Construction Department.

CERTIFICATE OF ACHIEVEMENT

| Required Courses | | | |
|-------------------------------|------|------|--------------|
| Course | | | Units |
| Cabinet Making | CNST | A114 | (4) |
| Construction Safety/CAL OSHA | CNST | A165 | (3) |
| Building Construction | CNST | A180 | (5) |
| Blueprint Reading & Drafting | CNST | A190 | (4) |
| Concrete Construction | CNST | A210 | (5) |
| Residential Finish Carpentry | CNST | A240 | (5) |
| Plumbing 1 | CNST | A265 | (4) |
| (Or) | | | |
| Plumbing 2 | CNST | A266 | (4) |
| Residential Electrical Wiring | CNST | A275 | (5) |
| Res Lt Steel Frame Const | CNST | A285 | (5) |
| Intro to Computer Appl | CIS | A100 | (3) |
| (Or) | | | |
| Computer Use in Technology | CHT | A100 | (3) |
| Subtotal: | | | (43) |

Select eleven (11) units from the following:

| | | | |
|----------------------------------|------|------|-------------|
| Building Construction | CNST | A185 | (5) |
| Building Code & Law | CNST | A195 | (3) |
| Construction Estimating | CNST | A220 | (3) |
| Construction Inspection | CNST | A230 | (3) |
| Supervision & Project Management | CNST | A250 | (3) |
| Masonry Construction | CNST | A260 | (3) |
| | | | (11) |
| Total: | | | (54) |

ASSOCIATE DEGREE

Complete the Certificate of Achievement and Associate in Science Graduation Requirements as outlined in the Graduation Requirements section of the catalog.

RESIDENTIAL ELECTRICAL

This certificate prepares students for entry level employment in residential electrical related trades. The student will be able to wire electrical systems, understand code requirements, and interpret electrical blueprints.

CERTIFICATE OF SPECIALIZATION

| Required Courses | | | |
|-------------------------------|------|------|--------------|
| Course | | | Units |
| Construction Safety/CAL OSHA | CNST | A165 | (3) |
| Blueprint Reading & Drafting | CNST | A190 | (4) |
| Residential Electrical Wiring | CNST | A275 | (5) |
| First Aid and CPR* | HLED | A112 | (2) |
| Technical Math | TECH | A040 | (3) |
| (Or) | | | |
| Electrical Problem Solving | ELEC | A047 | (3) |

Total: (17)

Suggested electives:

| | | | |
|----------------------------------|------|------|-----|
| Intro to Construction | CNST | A170 | (3) |
| Supervision & Project Management | CNST | A250 | (3) |
| Refrigeration Principles | HVAC | A100 | (3) |
| Air Conditioning Principles | HVAC | A101 | (3) |

*EMT A100 may be substituted for HLED A112

RESIDENTIAL CONSTRUCTION

Professional Upgrade Certificates

Students may earn a Certificate of Completion in any of the subject areas specified.

CERTIFICATES OF SPECIALIZATION

| Required Courses | | | |
|-------------------------|------|------|--------------|
| Course | | | Units |
| Basic Carpentry | | | |
| Building Construction | CNST | A180 | (5) |
| Building Construction | CNST | A185 | (5) |
| | | | (10) |

Finish Carpentry

| | | | |
|------------------------------|------|------|-----|
| Cabinet Making | CNST | A114 | (4) |
| Building Code & Law | CNST | A195 | (3) |
| Residential Finish Carpentry | CNST | A240 | (5) |

(12)

Concrete & Masonry

| | | | |
|-----------------------|------|------|-----|
| Building Code & Law | CNST | A195 | (3) |
| Concrete Construction | CNST | A210 | (5) |
| Masonry Construction | CNST | A260 | (3) |

(11)

Residential Utilities

| | | | |
|-------------------------------|------|------|-----|
| Plumbing 1 | CNST | A265 | (4) |
| Residential Electrical Wiring | CNST | A275 | (5) |

(9)

General Contracting & Development

| | | | |
|--------------------------------|------|------|------------|
| Construction Estimating | CNST | A220 | (3) |
| Land & Building Development | CNST | A225 | (3) |
| Contractor's Business Practice | CNST | A235 | (3) |
| | | | (9) |

Construction Field Management

| | | | |
|------------------------------|------|------|-------------|
| Blueprint Reading & Drafting | CNST | A190 | (4) |
| Construction Inspection | CNST | A230 | (3) |
| Supervision & Project Mgmt | CNST | A250 | (3) |
| | | | (10) |

Introduction to Construction

| | | | |
|--------------------------------|------|------|-------------|
| Cabinet Making | CNST | A114 | (4) |
| Intro to Construction | CNST | A170 | (3) |
| Intro to Computer Appl (Or) | CIS | A100 | (3) |
| Computer Use in Technology | CHT | A100 | (3) |
| | | | (10) |

Construction Basics

| | | | |
|------------------------------|------|------|-------------|
| Construction Safety/CAL-OSHA | CNST | A165 | (3) |
| Blueprint Reading & Drafting | CNST | A190 | (4) |
| Building Code & Law | CNST | A195 | (3) |
| | | | (10) |

COSTUME CAREERS

The following certificates represent skill levels and job titles found in the entertainment technology industry. The certificate programs all require the same core set of courses. The certificates build skills toward higher levels of employment.

Program Outcomes

Students will be able to:

- Analyze research and discuss a play in terms of technical and production requirements.
- Collaborate with others to produce costumes for performance.
- Demonstrate the ability to complete assignments in their area of technical expertise safely and accurately.

CORE CURRICULUM

Required Courses

| Course | | | Units |
|-------------------------------------|------|------|----------------------|
| Beg Clothing Techniques* | FASH | A100 | (3) |
| History of Fashion | FASH | A120 | (1.5) |
| Intro to Theatre | THEA | A100 | (3) |
| Costume Crafts | THEA | A178 | (3) |
| OCC Theatre Repertory | THEA | A141 | (3) |
| (Or) | | | |
| Summer Theatre Festival | THEA | A144 | (4) |
| Play Production | THEA | A171 | (4) |
| (take both 1st & 2nd 9 wks) | | | |
| (Or) | | | |
| Elizabethan Play Wkshp & Production | THEA | A172 | (3) |
| (Or) | | | |
| Classic American Play Production | THEA | A173 | (2) |
| (Or) | | | |
| Children's Theatre Wkshp & Prdctn | THEA | A174 | (2) |
| (Or) | | | |
| Rehearsal & Performance | THEA | A215 | (2) |
| | | | Total: (17.5) |

*Experienced sewers may demonstrate competency in techniques listed under Fashion A100 and A101 by taking Fashion A105, Sewing Skills Assessment.

Suggested Elective:

| | | | |
|--------------------|------|------|-----|
| Careers in Fashion | FASH | A115 | (3) |
|--------------------|------|------|-----|

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