

Basic Construction Trades Career Path

Credit Requirements: 66-70 Semester Credit Hours

Recommended Sequence of Courses

First Semester – Fall

| | | |
|---------|---------------------------------------|-----------------|
| BCT 102 | Fundamentals of Building Construction | 4 |
| BCT 103 | Construction Site Layout | 4 |
| BCT 112 | Construction Print Reading | 2 |
| BCT 201 | Principles of Roof Construction | 4 |
| | | Total 14 |

Second Semester – Spring

| | | |
|---------|--------------------------------------|-----------------|
| BCT 138 | Residential Wiring | 5 |
| BCT 151 | Introduction to Residential Plumbing | 3 |
| BCT 203 | Exterior and Interior Finishes | 5 |
| | | Total 13 |

Third Semester – Summer

| | | |
|-----------|---|-----------------|
| CET 135 | Construction Contracts | 2 |
| *CET 238 | Construction Planning and Scheduling | 2 |
| CPT 101 | Introduction to Computers | 3 |
| or | | |
| EGR 110 | Introduction to Computer Environment | 3 |
| ENG 101 | English Composition I | 3 |
| ELE HUM | Select one course from Humanities Electives on page B-3 | 3 |
| | | Total 13 |

Fourth Semester – Fall

| | | |
|----------|--|-----------------|
| CET 120 | Construction Materials | 3 |
| *CET 127 | Building Construction and Print Reading | 4 |
| ELE MAT | Select one course from Mathematics Electives on page B-3 | 3 |
| ELE BCT | | |
| ADD | Select one course Basic Construction Trades Additional Electives | 3 |
| | | Total 13 |

Fifth Semester – Spring

| | | |
|-----------|---|--------------------|
| *CET 230 | Construction Management | 3 |
| *CET 245 | Cost Estimating | 3 |
| ECO 210 | Macroeconomics | 3 |
| or | | |
| PSY 201 | General Psychology | 3 |
| SPC 209 | Interpersonal Communication | 3 |
| ELE BCT | Select one course Basic Construction Trades Electives | 1-5 |
| | | Total 13-17 |

Basic Construction Trades Electives

| | | |
|---------|---------------------------------------|---|
| BCT 106 | Beginning Woodworking | 2 |
| BCT 108 | Finish Trim | 2 |
| BCT 116 | Residential Building Exam Preparation | 1 |
| BCT 158 | Introductory Building Maintenance | 5 |
| BCT 204 | Cabinet Making | 4 |
| CWE | Cooperative Work Experience | |

Basic Construction Trades Additional Electives

| | | |
|---------|---------------------------|---|
| BAF 101 | Personal Finance | 3 |
| MGT 120 | Small Business Management | 3 |
| SPA 155 | Technical Spanish I | 3 |

**These courses may be substituted as a group for a different technical subject area of at least 12 semester credit hours, which must be approved by your advisor.*

Electrical Line Worker Technology Career Path

(restricted to Electric Utility Employees)

65 Credit Hours

Core Curriculum Requirements: 18 credit hours (min. 15)

| | | |
|-----------|--|---|
| CPT 101 | Introduction to Computers | 3 |
| or | | |
| EGR 110 | Introduction to Computer Environment | 3 |
| ENG 101 | English Composition I | 3 |
| ELE HUM | Select one course from Humanities Electives on page B-3 | 3 |
| ELE MAT | Select one course from Mathematics Electives on page B-3 | 3 |
| ECO 210 | Macroeconomics | 3 |
| or | | |
| PSY 201 | General Psychology | 3 |
| SPC 205 | Public Speaking | 3 |
| or | | |
| SPC 209 | Interpersonal Communication | 3 |

Primary Path: 30 credit hours (min. 28)

| | | |
|---------|--|---|
| ELW 111 | Introduction to Electrical Line Worker | 3 |
| ELW 112 | Introduction to Electricity | 3 |
| ELW 114 | Overhead Line Construction I | 3 |
| ELW 211 | Underground Line Construction I | 3 |
| ELW 231 | Electrical Power Systems | 3 |
| ELW 115 | Overhead Line Construction II | 3 |
| ELW 116 | Overhead Line Construction III | 3 |
| ELW 117 | Overhead Line Construction IV | 3 |
| ELW 212 | Underground Line Construction II | 3 |

| | | |
|--|-------------------------------|---|
| ELW 221 | Advanced Line Construction | 3 |
| Secondary Path: 12 credit hours (min. 12) | | |
| *CWE | Cooperative Work Experience I | 4 |
| EEM 165 | Residential/Commercial Wiring | 4 |
| AHS 106 | Cardiopulmonary Resuscitation | 1 |
| AHS 114 | Basic First Aid | 1 |
| IMT 102 | Industrial Safety | 2 |

Additional Requirements: 5 credit hours (min. 5)

| | | |
|---------|---------------------------------|---|
| ELW 110 | Electrical Computations | 2 |
| ELW 113 | National Electrical Safety Code | 3 |

**Students may substitute 4 credit hours from the EEM course listings for CWE. Any CWE must be performed in conjunction with the ELW program in order to count toward program graduation requirements.*

Electrician: Automation and Industrial Course Display

Credit Requirements: 62 Semester Credit Hours

Core Curriculum Requirements

| | | |
|----------|---|---|
| ENG 101 | English Composition I | 3 |
| ELE MAT | Select one course from Mathematics Electives on page B-4 | 3 |
| ELE HUM | Select one course from Humanities Electives on page B-3 | 3 |
| ELE SSC | Select one course from Behavioral and Social Sciences Electives on page B-4 | 3 |
| ELE ORAL | Select three hours from Oral Communications Electives | 3 |

Primary Path Requirements

| | | |
|---------|--------------------------------------|---|
| EEM 107 | Industrial Computer Techniques | 2 |
| EEM 117 | AC/DC Circuits I | 4 |
| EEM 118 | AC/DC Circuits II | 4 |
| EEM 131 | Solid State Devices | 4 |
| EEM 151 | Motor Controls I | 4 |
| EEM 217 | AC/DC Machines with Electrical Codes | 4 |
| EEM 221 | DC/AC Drives | 3 |
| EEM 251 | Programmable Controllers | 3 |

Secondary Path Requirements

| | | |
|---------|---|---|
| BCT 140 | Commercial Wiring | 3 |
| EEM 252 | Programmable Controllers Applications | 3 |
| IMT 131 | Hydraulics and Pneumatics | 4 |
| IMT 163 | Problem Solving for Mechanical Applications | 3 |

Additional Requirements

| | | |
|---------|----------------------------|---|
| IMT 210 | Basic Industrial Skills I | 3 |
| IMT 211 | Basic Industrial Skills II | 3 |

Oral Communication Electives

| | | |
|---------|-----------------------------------|---|
| ENG 260 | Advanced Technical Communications | 3 |
| HSS 201 | Issues in Humanities | 3 |
| SPC 205 | Public Speaking | 3 |
| SPC 209 | Interpersonal Communication | 3 |
| THE 101 | Introduction to Theater | 3 |

Electrician: Automation and Industrial Career Path Day

Credit Requirements: 62 Semester Credit Hours

Recommended Sequence of Courses

First Semester – Fall

| | | |
|---------|---------------------------|-----------------|
| BCT 140 | Commercial Wiring | 3 |
| EEM 117 | AC/DC Circuits I | 4 |
| IMT 131 | Hydraulics and Pneumatics | 4 |
| IMT 210 | Basic Industrial Skills I | 3 |
| | | Total 14 |

Second Semester – Spring

| | | |
|---------|----------------------------|-----------------|
| EEM 118 | AC/DC Circuits II | 4 |
| EEM 131 | Solid State Devices | 4 |
| IMT 211 | Basic Industrial Skills II | 3 |
| ENG 101 | English Composition I | 3 |
| | | Total 14 |

Third Semester – Summer

| | | |
|---------|--|-----------------|
| EEM 107 | Industrial Computer Techniques | 2 |
| EEM 217 | AC/DC Machines with Electrical Codes | 4 |
| EEM 221 | DC/AC Drives | 3 |
| ELE MAT | Select one course from Mathematics Electives on page B-4 | 3 |
| | | Total 12 |

Fourth Semester – Fall

| | | |
|---------|---|-----------------|
| EEM 151 | Motor Controls I | 4 |
| EEM 251 | Programmable Controllers | 3 |
| ELE HUM | Select one course from Humanities Electives on page B-3 | 3 |
| ELE SSC | Select one course from Behavioral and Social Sciences Electives on page B-3 | 3 |
| | | Total 13 |