

Applied Sciences and Engineering Technologies Pathways

Advertising and Graphic Design Pathway Certificate (C30100P)

Requires the completion of the following courses: (16 Semester Hours)

DES 135 Principles and Elements of Design 1

GRD 121 Drawing Fundamentals 1

GRD 141 Graphic Design 1

GRD 151 Computer Design Basics

GRD 160 Photo Fundamentals 1

Broadcasting and Production Technology Audio Pathway Diploma (D301201P)

Requires the completion of the following courses: (40 Semester Hours)

ENG 111 Writing & Inquiry

PSY 150 General Psychology

BPT 110 Introduction to Broadcasting

BPT 111 Broadcast Law and Ethics

BPT 112 Broadcast Writing

BPT 113 Broadcast Sales

BPT 121 Broadcast Speech 1

BPT 131 Audio/Radio Production 1

BPT 132 Audio/Radio Production 2

BPT 135 Radio Performance 1

BPT 136 Radio Performance 2

BPT 137 Radio Performance 3

CIS 110 Introduction to Computers

WBL 111 Work-Based Learning

Broadcasting and Production Technology Video Pathway Diploma (D301202P)

Requires the completion of the following courses: (40 Semester Hours)

ENG 111 Writing & Inquiry

PSY 150 General Psychology

BPT 110 Introduction to Broadcasting

BPT 111 Broadcast Law and Ethics

BPT 112 Broadcast Writing

BPT 113 Broadcast Sales

BPT 231 Video/TV Production 1

BPT 232 Video/TV Production 2

BPT 235 TV Performance 1

BPT 236 TV Performance 2

BPT 237 TV Performance 3

CIS 110 Introduction to Computers

WBL 111 Work-Based Learning

Building Construction Technology Pathway Diploma (D35140P)

Requires the completion of the following courses: (41 Semester Hours)

ENG 111 Writing & Inquiry

MAT 110 Math Measurement and Literacy

BPR 130 Print Reading: Construction

CST 131 OSHA/Safety/Certification

CST 221 Statics/Structures

CAR 111 Carpentry 1

ARC 112 Construction Materials and Methods

ARC 131 Building Codes

CMT 120 Codes and Inspections

WOL 110 Basic Construction Skills

SST 140 Green Building and Design Concepts

ACA 115 Success and Study Skills

**Building Construction Technology Elem Carpentry Pathway
Certificate (C351409P)**

Requires the completion of the following courses: (14 Semester Hours)

BPR 130 Print Reading: Construction

CAR 111 Carpentry 1

WOL 110 Basic Construction Skills

**Building Construction Technology ADV Carpentry Pathway
Certificate (C351402P)**

Requires the completion of the following courses: (14 Semester Hours)

CMT 120 Codes and Inspections

CAR 112 Carpentry 2

CST 131 OSHA/Safety/Certification

**Building Construction Technology Basic Plumbing Pathway
Certificate (C351403P)**

Requires the completion of the following courses: (14 Semester Hours)

BPR 130 Print Reading: Construction

PLU 111 Introduction to Basic Plumbing

WOL 110 Basic Construction Skills

CST 131 OSHA/Safety/Certification

PLU 221 Commercial/Industrial Plumbing

**Building Construction Technology Pathway Certificate
(C351408P)**

Requires the completion of the following courses: (14 Semester Hours)

BPR 130 Print Reading: Construction

PLU 111 Introduction to Basic Plumbing

WOL 110 Basic Construction Skills

CST 251 Electrical Wiring Systems

MAS 140 Introduction to Masonry

**Building Construction Technology Basic Carpentry Pathway
Certificate (C351409P)**

Requires the completion of the following courses: (18 Semester Hours)

BPR 130 Print Reading: Construction

CAR 111 Carpentry 1

ARC 112 Construction Materials and Methods

ARC 131 Building Codes

Computer Engineering Technology Pathway Diploma (D40160P)

Requires the completion of the following courses: (41 Semester Hours)

ENG 111 Writing & Inquiry

MAT 110 Math Measurement and Literacy

PSY 150 General Psychology

ELC 138 DC Circuit Analysis

ELC 139 AC Circuit Analysis

ELN 131 Analog Electronics 1

ELN 133 Digital Electronics

CET 111 Computer Upgrade/Repair 1

CET 161 Procedural Programming

CIS 110 Introduction to Computers

ELN 152 Fabrication Techniques

ELC 127 Software for Technicians

EGR 110 Introduction to Engineering Technology

ACA 115 Success and Study Skills

Computer Integrated Machining Pathway Certificate (C50210P)

Requires the completion of the following courses: (16 Semester Hours)

BPR 130 Print Reading: Construction

MAC 121 Introduction to CNC

MAC 141 Machining Applications 1

MAC 142 Machining Applications 2

MAC 141A Machining Applications 1 Lab

MAC 142A Machining Applications 2 Lab

Computer Integrated Machining Pathway Diploma (D50210P)

Requires the completion of the following courses: (48 Semester Hours)

ENG 111 Writing & Inquiry

MAT 110 Math Measurement and Literacy

BPR 111 Print Reading

MAC 121 Introduction to CNC

MAC 141 Machining Applications 1

MAC 142 Machining Applications 2

BPR 121 Blueprint Reading-Mechanical

DFT 121 Introduction to GD&T

DFT 154 Introduction to Solid Modeling

MAC 122 CNC Turning

MAC 124 CNC Milling

MAC 141A Machining Applications 1 Lab

MAC 142A Machining Applications 2 Lab

MAC 151 Machining Calculations

MAC 222 Advanced CNC Turning

MAC 224 Advanced CNC Milling

MAC 233 Applications in CNC Machining

MAC 231 Computer Aided Manufacturing 1

Electronics Engineering Technology Pathway Diploma (D40200P)

Requires the completion of the following courses: (41 Semester Hours)

ENG 111 Writing & Inquiry

MAT 110 Math Measurement and Literacy

PSY 150 General Psychology

ELC 138 DC Circuit Analysis

ELC 139 AC Circuit Analysis

ELN 131 Analog Electronics 1

ELN 133 Digital Electronics

ELC 128 Introduction to PLC

ELN 152 Fabrication Techniques

CET 111 Computer Upgrade/Repair 1

CIS 110 Introduction to Computers

ELC 127 Software for Technicians

EGR 110 Introduction to Engineering Technology

ACA 115 Success and Study Skills

Electronics Systems Technology Pathway Diploma (D35130P)

Requires the completion of the following courses: (40 Semester Hours)

ENG 111 Writing & Inquiry

MAT 110 Math Measurement and Literacy

ELC 112 DC/AC Electricity

ELC 113 Residential Wiring

ELC 117 Motors and Controls

CIS 110 Introduction to Computers

ELC 114 Commercial Wiring

ELC 115 Industrial Wiring

ELC 118 National Electrical Code

ELC 119 NEC Calculations

ELC 135 Electrical Machines

ELN 231 Industrial Controls

Manufacturing Technology Pathway Certificate (C50320P)

Requires the completion of the following courses: (16 Semester Hours)

DFT 111 Technical Drafting 1
DFT 111A Technical Drafting 1 Lab
ISC 121 Environmental Health and Safety
MAC 114 Introduction to Metrology
MEC 161 Manufacturing Processes 1
MEC 180 Engineering Materials
MAC 121 Introduction to CNC

Mechanical Drafting Technology Pathway Certificate (C50320P)

Requires the completion of the following courses: (12 Semester Hours)

DFT 151 CAD 1
DFT 152 CAD 2
DFT 111 Technical Drafting 1
DFT 112 Technical Drafting 2
DFT 111A Technical Drafting 1 Lab
DFT 112A Technical Drafting 2 Lab

Mechanical Engineering Technology Advanced Pathway Certificate (C403203P)

Requires the completion of the following courses: (15 Semester Hours)

DFT 151 CAD 1
EGR 110 Introduction to Engineering Technology
HYD 110 Hydraulics/Pneumatics 1
MAC 141 Machining Applications 1
MEC 161 Manufacturing Processes 1

Mechanical Engineering Technology Pathway Diploma (D40320P)

Requires the completion of the following courses: (37 Semester Hours)

DFT 151 CAD 1

DFT 154 Introduction to Solid Modeling

EGR 110 Introduction to Engineering Technology

HYD 110 Hydraulics/Pneumatics 1

MAC 141 Machining Applications 1

MEC 161 Manufacturing Processes 1

MEC 180 Engineering Materials

ISC 121 Environmental Health and Safety

ISC 132 Manufacturer Quality Control

ACA 115 Success and Study Skills

ENG 111 Writing & Inquiry

MAT 121 Algebra/Trigonometry 1

CIS 110 Introduction to Computers

Welding Technology Pathway Certificate (C50420P)

Requires the completion of the following courses: (18 Semester Hours)

WLD 110 Cutting Processes

WLD 115 SMAW (stick) Plate

WLD 121 GMAW (MIG) FCAW Plate

WLD 131 GTAW (TIG) Plate

WOL 110 Basic Construction Skills

Welding Technology Pathway Diploma (D50420P)

Requires the completion of the following courses: (47 Semester Hours)

ENG 111 Writing & Inquiry

MAT 110 Math Measurement and Literacy

WLD 110 Cutting Processes

WLD 115 SMAW (stick) Plate

WLD 121 GMAW (MIG) FCAW Plate

WLD 131 GTAW (TIG) Plate

WLD 141 Symbols and Specifications

BPR 111 Print Reading

WLD 116 SMAW (stick) Plate/Pipe

WLD 122 GMAW (MIG) Plate/Pipe

WLD 132 GTAW (TIG) Plate/Pipe

WLD 143 Welding Metallurgy

WLD 215 SMAW (stick) Pipe

WLD 261 Certification Practices

WOL 110 Basic Construction Skills