

ARCHITECTURAL DESIGN & CONSTRUCTION - COE 2020 - 2021

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Workforce Degrees and Certificates 2020-2021

CONSTRUCTION MANAGEMENT TECHNOLOGY

CONSTRUCTION MANAGEMENT TECHNOLOGY - GENERAL

Associate of Applied Science

SCH

FIRST YEAR

First Semester - Fall

EDUC 1300	Learning Framework	3
ELPT 1315	Electrical Calculations I	3
CNBT 1359	Project Scheduling	3
CNBT 1318	Construction Tools & Techniques	3
CNBT 1300	Residential & Light Commercial Blueprint Reading	3
CNBT 1311	Construction Methods & Materials I	3
Semester Total		18

Second Semester - Spring

CNBT 1342	Building Codes & Inspections	3
ELPT 1329	Residential Wiring	3
CNBT 1346	Construction Estimating I	3
CNBT 1302	Mechanical, Plumbing, & Electrical Systems in Construction I	3
CNBT 1316	Construction Technology I	3
Semester Total		15

SECOND YEAR

First Semester - Fall

XXXX #3## ¹	General Education Elective	3
CNBT 2337	Construction Estimating II	3
XXXX #3## ¹	Humanities/Fine Arts Elective	3
Semester Total		9

Second Semester - Spring

CNBT 2342	Construction Management I	3
XXXX #3## ¹	Math/Natural Science Elective	3
XXXX #3## ¹	General Education Elective	3
XXXX #3## ¹	Social/Behavioral Sciences Elective	3
Semester Total		12

Third Semester - Summer

CNBT 1391	Special Topics in Construction/Building Technology/Technician	3
CNBT 2335	Computer-Aided Construction Scheduling (Capstone)	3
Semester Total		6

Total Minimum Credits for the AAS Degree **60**

¹A list of electives appears in the Core Curriculum section of this catalog.

Workforce Degrees and Certificates 2020-2021

CONSTRUCTION MANAGEMENT TECHNOLOGY-GENERAL

Certificate - Level 1

SCH

First Semester - Fall

ELPT 1315	Electrical Calculations I	3
CNBT 1359	Project Scheduling	3
CNBT 1318	Construction Tools & Techniques	3
CNBT 1300	Residential & Light Commercial Blueprint Reading	3
CNBT 1311	Construction Methods & Materials I	3
Semester Total		15

Second Semester - Spring

CNBT 2335	Computer-Aided Construction Scheduling	3
ELPT 1329	Residential Wiring	3
CNBT 1302	Mechanical, Plumbing, & Electrical Systems in Construction I	3
CNBT 1316	Construction Technology I (Capstone)	3
Semester Total		12

Total Minimum Credits for the Level 1 Certificate **27**

Workforce Degrees and Certificates 2020-2021

CONSTRUCTION MANAGEMENT TECHNOLOGY - CONSTRUCTION GENERAL

Certificate - Level 1

SCH

First Semester - Fall

ELPT 1315	Electrical Calculations I	3
CNBT 1316	Construction Technology I	3
CNBT 1359	Project Scheduling	3
Semester Total		9
CNBT 1318	Construction Tools & Techniques	3
CNBT 1300	Residential & Light Commercial Blueprint Reading	3
CNBT 1311	Construction Methods & Materials I (Capstone)	3
Semester Total		9
Total Minimum Credits for the Level 1 Certificate		18

Workforce Degrees and Certificates 2020-2021

CONSTRUCTION MANAGEMENT TECHNOLOGY– CONSTRUCTION – BUILDING INSPECTION SPECIALIZATION

Certificate - Level 1		SCH
First Semester - Fall		
CNBT 1359	Project Scheduling	3
CNBT 1300	Residential & Light Commercial Construction Drawings	3
CNBT 1311	Construction Methods & Materials I (Capstone)	3
Semester Total		9
CNBT 1342	Building Codes & Inspections	3
CNBT 1391	Special Topics: Residential Construction Technology	3
ELPT 1391	Special Topics: Electrical and Power Transmission Installer, General	3
Semester Total		9
Total Minimum Credits for the Level 1 Certificate		18

Workforce Degrees and Certificates 2020-2021

DRAFTING & DESIGN ENGINEERING TECHNOLOGY

DRAFTING & DESIGN ENGINEERING TECHNOLOGY - COMPUTER-AIDED DRAFTING - GENERAL

Associate of Applied Science

SCH

FIRST YEAR

First Semester - Fall

EDUC 1300	Learning Framework	3
ENGL 1301	Composition I	3
DFTG 1305	Technical Drafting	3
DFTG 1309	Basic Computer-Aided Drafting	3
MATH 1314	College Algebra	3
Semester Total		15

Second Semester - Spring

DFTG 2319	Intermediate Computer-Aided Drafting	3
DFTG 2317	Descriptive Geometry	3
ENGL 1302	Composition II OR	
ENGL 2311	Technical & Business Writing	3
DFTG 1333	Mechanical Drafting	3
XXXX #3## ¹	Social/Behavioral Sciences Elective	3
Semester Total		15

SECOND YEAR

First Semester - Fall

DFTG 1358	Electrical/Electronics Drafting OR	
DFTG 1329	Electro-Mechanical Drafting	3
DFTG 1310	Specialized Basic Computer Aided Drafting (CAD)	3
DFTG 2323	Pipe Drafting	3
DFTG 1330	Civil Drafting I	3
MATH 1316	Plane Trigonometry	3
Semester Total		15

Second Semester - Spring

DFTG 1317	Architectural Drafting-Residential	3
ARCE 1352	Structural Drafting	3
DFTG 2335	Advanced Technologies in Mechanical Design & Drafting OR	
DFTG 2340	Solid Modeling/Design	3
XXXX #3## ¹	Humanities/Fine Arts Elective	3
DFTG 2338	Final Project - Advanced Drafting (Capstone)	3
Semester Total		15

Total Minimum Credits for the AAS Degree

60

¹A list of electives appears in the Core Curriculum section of this catalog.

Workforce Degrees and Certificates 2020-2021

DRAFTING & DESIGN ENGINEERING TECHNOLOGY - COMPUTER-AIDED DRAFTING - GENERAL

Certificate - Level 1		SCH
First Semester - Fall		
DFTG 1309	Basic Computer-Aided Drafting	3
DFTG 1305	Technical Drafting	3
Semester Total		6
Second Semester - Spring		
DFTG 1358	Electrical/Electronics Drafting OR	
DFTG 1329	Electro-Mechanical Drafting	3
DFTG 2319	Intermediate Computer-Aided Drafting OR	
DFTG 1310	Specialized Basic Computer Aided Drafting (CAD)	3
DFTG 1333	Mechanical Drafting	3
DFTG 1317	Architectural Drafting-Residential	3
Semester Total		12
Third Semester - Summer		
DFTG 2323	Pipe Drafting	3
DFTG 1330	Civil Drafting I	3
ARCE 1352	Structural Drafting (Capstone)	3
Semester Total		9
Total Minimum Credits for the Level 1 Certificate		27

Workforce Degrees and Certificates 2020-2021

DRAFTING & DESIGN ENGINEERING TECHNOLOGY - COMPUTER-AIDED DRAFTING - ARCHITECTURAL SPECIALIZATION

Associate of Applied Science

SCH

FIRST YEAR

First Semester - Fall

EDUC 1300	Learning Framework	3
ENGL 1301	Composition I	3
DFTG 1305	Technical Drafting	3
DFTG 1309	Basic Computer-Aided Drafting	3
MATH 1314	College Algebra	3
Semester Total		15

Second Semester - Spring

DFTG 2319	Intermediate Computer-Aided Drafting	3
DFTG 1317	Architectural Drafting-Residential	3
XXXX #3##'	Social/Behavioral Sciences Elective	3
MATH 1316	Plane Trigonometry	3
ARCE 1352	Structural Drafting	3
Semester Total		15

SECOND YEAR

First Semester - Fall

XXXX #3##'	Humanities/Fine Arts Elective	3
DFTG 2300	Intermediate Architectural Drafting-Residential	3
ENGL 1302	Composition II OR	
ENGL 2311	Technical & Business Writing	3
DFTG 1330	Civil Drafting I	3
DFTG 1376	Revit Residential	3
Semester Total		15

Workforce Degrees and Certificates 2020-2021

Second Semester - Spring

DFTG 2331	Advanced Technologies in Architectural Design & Drafting	3
DFTG 1392	Special Topics in Architectural Drafting & Architectural CAD/CADD	3
DFTG 2328	Architectural Drafting - Commercial (Capstone)	3
ARCE 2352	Mechanical & Electrical Systems OR	
XXXX #3## ²	Program Approved Elective	3
DFTG 2338	Final Project - Advanced Drafting OR	
DFTG 2381	Cooperative Education - Drafting & Design Technology/Technician, General	3
	Semester Total	15
Total Minimum Credits for the AAS Degree		60

¹A list of electives appears in the Core Curriculum section of this catalog.

²Consult with an advisor to select an appropriate elective.

Workforce Degrees and Certificates 2020-2021

DRAFTING & DESIGN ENGINEERING TECHNOLOGY - COMPUTER-AIDED DRAFTING - ARCHITECTURAL SPECIALIZATION

Certificate - Level 1		SCH
First Semester - Fall		
DFTG 1309	Basic Computer-Aided Drafting	3
DFTG 1305	Technical Drafting	3
Semester Total		6
Second Semester - Spring		
ARCE 1352	Structural Drafting	3
DFTG 1317	Architectural Drafting-Residential	3
DFTG 2319	Intermediate Computer-Aided Drafting	3
DFTG 1330	Civil Drafting I	3
Semester Total		12
Third Semester - Summer		
DFTG 1376	Revit Residential	3
ARCE 2352	Mechanical & Electrical Systems OR	
XXXX #3## ¹	Program Approved Elective	3
DFTG 2328	Architectural Drafting - Commercial (Capstone)	3
Semester Total		9
Total Minimum Credits for the Level 1 Certificate		27

¹Consult with an advisor to select an appropriate elective.

Workforce Degrees and Certificates 2020-2021

DRAFTING & DESIGN ENGINEERING TECHNOLOGY - COMPUTER-AIDED DRAFTING - CIVIL SPECIALIZATION

Associate of Applied Science **SCH**

FIRST YEAR

First Semester - Fall

EDUC 1300	Learning Framework	3
ENGL 1301	Composition I	3
DFTG 1305	Technical Drafting	3
DFTG 1309	Basic Computer-Aided Drafting	3
MATH 1314	College Algebra	3
Semester Total		15

Second Semester - Spring

DFTG 2319	Intermediate Computer-Aided Drafting	3
SRVY 1301	Introduction to Surveying	3
DFTG 1310	Specialized Basic Computer Aided Drafting (CAD) OR	
DFTG #3## ²	Drafting Elective	3
DFTG 2317	Descriptive Geometry	3
MATH 1316	Plane Trigonometry	3
Semester Total		15

SECOND YEAR

First Semester - Fall

XXXX #3## ¹	Social/Behavioral Sciences Elective	3
SRVY 1341	Land Surveying	3
DFTG 2321	Topographical Drafting OR	
DFTG 2375	Introduction to GIS	3
ENGL 1302	Composition II OR	
ENGL 2311	Technical & Business Writing	3
DFTG 1330	Civil Drafting I	3
Semester Total		15

Second Semester - Spring

ARCE 1352	Structural Drafting	3
DFTG 2370	Intermediate CAD (Microstation)	3
XXXX #3## ¹	Humanities/Fine Arts Elective	3
SRVY 2348	Plane Surveying	3
DFTG 2374	Civil 3D OR	
DFTG 2338	Final Project - Advanced Drafting (Capstone)	3
Semester Total		15

Total Minimum Credits for the AAS Degree **60**

¹A list of electives appears in the Core Curriculum section of this catalog.

²Consult with an advisor to select an appropriate elective.

Workforce Degrees and Certificates 2020-2021

DRAFTING & DESIGN ENGINEERING TECHNOLOGY - COMPUTER-AIDED DRAFTING - CIVIL SPECIALIZATION

Certificate - Level 1		SCH
First Semester - Fall		
DFTG 1309	Basic Computer-Aided Drafting	3
DFTG 1305	Technical Drafting	3
Semester Total		6
Second Semester - Spring		
DFTG 1310	Specialized Basic Computer Aided Drafting (CAD)	3
DFTG 2319	Intermediate Computer-Aided Drafting	3
SRVY 1301	Introduction to Surveying	3
DFTG 1330	Civil Drafting I	3
Semester Total		12
Third Semester - Summer		
SRVY 1341	Land Surveying	3
ARCE 1352	Structural Drafting	3
DFTG 2374	Civil 3-D OR	
DFTG 2338	Final Project - Advanced Drafting (Capstone)	3
Semester Total		9
Total Minimum Credits for the Level 1 Certificate		27

Workforce Degrees and Certificates 2020-2021

DRAFTING & DESIGN ENGINEERING TECHNOLOGY - COMPUTER-AIDED DRAFTING - ELECTRICAL SPECIALIZATION

Associate of Applied Science **SCH**

FIRST YEAR

First Semester - Fall

EDUC 1300	Learning Framework	3
ENGL 1301	Composition I	3
DFTG 1305	Technical Drafting	3
DFTG 1309	Basic Computer-Aided Drafting	3
MATH 1314	College Algebra	3
Semester Total		15

Second Semester - Spring

DFTG 1333	Mechanical Drafting	3
DFTG 2319	Intermediate Computer-Aided Drafting	3
XXXX #3## ¹	Humanities/Fine Arts Elective	3
DFTG 1329	Electro-Mechanical Drafting	3
MATH 1316	Plane Trigonometry	3
Semester Total		15

SECOND YEAR

First Semester - Fall

DFTG 1310	Specialized Basic Computer Aided Drafting (CAD)	3
DFTG 2317	Descriptive Geometry	3
DFTG 1358	Electrical/Electronics Drafting	3
DFTG 2340	Solid Modeling/Design	3
XXXX #3## ¹	Social/Behavioral Sciences Elective	3
Semester Total		15

Second Semester - Spring

DFTG 2335	Advanced Technologies in Mechanical Design & Drafting	3
DFTG 2302	Machine Drafting	3
DFTG 2305	Printed Circuit Board Design OR	
XXXX #3## ²	Program Approved Elective	3
ENGL 1302	Composition II OR	
ENGL 2311	Technical & Business Writing	3
DFTG 2307	Electrical Drafting (Capstone)	3
Semester Total		15

Total Minimum Credits for the AAS Degree **60**

¹A list of electives appears in the Core Curriculum section of this catalog.

²Consult with an advisor to select an appropriate elective.

Workforce Degrees and Certificates 2020-2021

DRAFTING & DESIGN ENGINEERING TECHNOLOGY - COMPUTER-AIDED DRAFTING - ELECTRICAL SPECIALIZATION

Certificate - Level 1		SCH
First Semester - Fall		
DFTG 1309	Basic Computer-Aided Drafting	3
DFTG 1305	Technical Drafting	3
Semester Total		6
Second Semester - Spring		
DFTG 1310	Specialized Basic Computer Aided Drafting (CAD)	3
DFTG 2319	Intermediate Computer-Aided Drafting	3
DFTG 1333	Mechanical Drafting	3
DFTG 1358	Electrical/Electronics Drafting	3
Semester Total		12
Third Semester - Summer		
DFTG 2335	Advanced Technologies in Mechanical Design & Drafting OR	
DFTG 2340	Solid Modeling/Design	3
DFTG 1329	Electro-Mechanical Drafting	3
DFTG 2302	Machine Drafting (Capstone)	3
Semester Total		9
Total Minimum Credits for the Level 1 Certificate		27

Workforce Degrees and Certificates 2020-2021

DRAFTING & DESIGN ENGINEERING TECHNOLOGY - COMPUTER-AIDED DRAFTING - MECHANICAL SPECIALIZATION

Associate of Applied Science SCH

FIRST YEAR

First Semester - Fall

EDUC 1300	Learning Framework	3
ENGL 1301	Composition I	3
DFTG 1305	Technical Drafting	3
DFTG 1309	Basic Computer-Aided Drafting	3
MATH 1314	College Algebra	3
Semester Total		15

Second Semester - Spring

DFTG 1333	Mechanical Drafting	3
DFTG 2319	Intermediate Computer-Aided Drafting	3
XXXX #3## ¹	Humanities/Fine Arts Elective	3
DFTG 2340	Solid Modeling/Design	3
MATH 1316	Plane Trigonometry	3
Semester Total		15

SECOND YEAR

First Semester - Fall

DFTG 2335	Advanced Technologies in Mechanical Design & Drafting	3
DFTG 2317	Descriptive Geometry	3
DFTG 2306	Machine Design	3
DFTG 2302	Machine Drafting	3
XXXX #3## ¹	Social/Behavioral Sciences Elective	3
Semester Total		15

Second Semester - Spring

DFTG 1310	Specialized Basic Computer Aided Drafting (CAD)	3
DFTG 2338	Final Project - Advanced Drafting OR	
DFTG 2381	Cooperative Education - Drafting & Design Technology/Technician, General	3
ENGL 1302	Composition II OR	
ENGL 2311	Technical & Business Writing	3
XXXX #3## ²	Program Approved Elective	3
DFTG 2358	Advanced Machine Design (Capstone)	3
Semester Total		15

Total Minimum Credits for the AAS Degree **60**

¹A list of electives appears in the Core Curriculum section of this catalog.

²Consult with an advisor to select an appropriate elective.

Workforce Degrees and Certificates 2020-2021

DRAFTING & DESIGN ENGINEERING TECHNOLOGY - COMPUTER-AIDED DRAFTING - MECHANICAL SPECIALIZATION

Certificate - Level 1		SCH
First Semester - Fall		
DFTG 1309	Basic Computer-Aided Drafting	3
DFTG 1305	Technical Drafting	3
Semester Total		6
Second Semester - Spring		
DFTG 1333	Mechanical Drafting	3
DFTG 2319	Intermediate Computer-Aided Drafting	3
DFTG 2317	Descriptive Geometry	3
DFTG 2340	Solid Modeling/Design	3
Semester Total		12
Third Semester - Summer		
DFTG 2302	Machine Drafting	3
DFTG 2335	Advanced Technologies in Mechanical Design & Drafting	3
DFTG 2306	Machine Design (Capstone)	3
Semester Total		9
Total Minimum Credits for the Level 1 Certificate		27

Workforce Degrees and Certificates 2020-2021

DRAFTING & DESIGN ENGINEERING TECHNOLOGY - COMPUTER-AIDED DRAFTING - PIPE SPECIALIZATION

Associate of Applied Science **SCH**

FIRST YEAR

First Semester - Fall

EDUC 1300	Learning Framework	3
ENGL 1301	Composition I	3
DFTG 1305	Technical Drafting	3
DFTG 1309	Basic Computer-Aided Drafting	3
MATH 1314	College Algebra	3
Semester Total		15

Second Semester - Spring

DFTG 2319	Intermediate Computer-Aided Drafting	3
XXXX #3## ¹	Humanities/Fine Arts Elective	3
DFTG 2323	Pipe Drafting	3
DFTG 1333	Mechanical Drafting	3
DFTG 2317	Descriptive Geometry	3
Semester Total		15

SECOND YEAR

First Semester - Fall

DFTG 1395	Special Topics in Mechanical Drafting & Mechanical Drafting CAD/CADD	3
DFTG 2308	Instrumentation Drafting	3
XXXX #3## ²	Program Approved Elective	3
MATH 1316	Plane Trigonometry	3
XXXX #3## ¹	Social/Behavioral Sciences Elective	3
Semester Total		15

Second Semester - Spring

ENGL 1302	Composition II OR	
ENGL 2311	Technical & Business Writing	3
DFTG 2340	Solid Modeling/Design	3
DFTG 1372	Smart Plant 3D Drafting OR	
DFTG 2373	Piping Design Management Systems (PDMS)	3
ARCE 1352	Structural Drafting	3
DFTG 2345	Advanced Pipe Drafting (Capstone)	3
Semester Total		15

Total Minimum Credits for the AAS Degree **60**

¹A list of electives appears in the Core Curriculum section of this catalog.

²Consult with an advisor to select an appropriate elective.

Workforce Degrees and Certificates 2020-2021

DRAFTING & DESIGN ENGINEERING TECHNOLOGY - COMPUTER-AIDED DRAFTING - PIPE SPECIALIZATION

Certificate - Level 1		SCH
First Semester - Fall		
DFTG 1309	Basic Computer-Aided Drafting	3
DFTG 1305	Technical Drafting	3
Semester Total		6
Second Semester - Spring		
DFTG 2319	Intermediate Computer-Aided Drafting	3
DFTG 2323	Pipe Drafting	3
DFTG 1333	Mechanical Drafting	3
DFTG 2308	Instrumentation Drafting	3
Semester Total		12
Third Semester - Summer		
ARCE 1352	Structural Drafting	3
DFTG 1395	Special Topics in Mechanical Drafting & Mechanical Drafting CAD/CADD AutoPlant Isometrics OR	
DFTG 1372	Smart Plant 3D Drafting	3
DFTG 2345	Advanced Pipe Drafting (Capstone)	3
Semester Total		9
Total Minimum Credits for the Level 1 Certificate		27

Workforce Degrees and Certificates 2020-2021

HEATING, AIR CONDITIONING & REFRIGERATION

Heating, Air conditioning & Refrigeration

Associate of Applied Science

SCH

FIRST YEAR

First Semester - Fall

EDUC 1300	Learning Framework	3
ELPT 1315	Electrical Calculations I	3
HART 1301	Basic Electricity for HVAC	3
HART 1356 ²	EPA Recovery Certification Preparation	3
XXXX #3## ¹	General Education Elective	3
Semester Total		15

Second Semester - Spring

HART 1303	Air Conditioning Control Principles	3
HART 1307	Refrigeration Principles	3
HART 1341 ³	Residential Air Conditioning	3
HART 1345 ³	Gas & Electric Heating	3
XXXX #3## ²	Social/Behavioral Sciences Elective	3
Semester Total		15

Third Semester - Summer

HART 2334 ³	Advanced Air Conditioning Controls	3
HART 2341	Commercial Air Conditioning	3
HART 2345	Residential Air Conditioning Systems Design OR	
HART 2302	Commercial Air Conditioning System Design	3
XXXX #3## ²	Humanities/Fine Arts Elective	3
XXXX #3## ²	Math/Natural Science Elective	3
Semester Total		15

SECOND YEAR

First Semester - Fall

HART 2336	Air Conditioning Troubleshooting (Capstone)	3
HART 2342 ²	Commercial Refrigeration	3
HART 2349 ²	Heat Pumps	3
HART 2374	Building Control Systems	3
XXXX #3## ²	Humanities/Fine Arts Elective	3
Semester Total		15

Total Minimum Credits for the AAS Degree

60

¹A list of electives appears in the Core Curriculum section of this catalog.

²Employment Ready (ER) certification required.

³EPA certification required.

Workforce Degrees and Certificates 2020-2021

HEATING, AIR CONDITIONING & REFRIGERATION - ADVANCED

Certificate - Level 1

SCH

First Semester - Fall

ELPT 1315	Electrical Calculations I	3
HART 1301	Basic Electricity for HVAC	3
HART 1307	Refrigeration Principles	3
HART 1356 ¹	EPA Recovery Certification Preparation	3
Semester Total		12

Second Semester - Spring

HART 1303	Air Conditioning Control Principles	3
HART 1341	Residential Air Conditioning	3
HART 1345	Gas & Electric Heating	3
HART 2342	Commercial Refrigeration	3
HART 2334	Advanced Air Conditioning Controls	3
Semester Total		15

Third Semester - Summer

HART 2336	Air Conditioning Troubleshooting (Capstone)	3
HART 2341	Commercial Air Conditioning	3
HART 2349	Heat Pumps	3
HART 2302	Commercial Air Conditioning System Design	3
HART 2345	Residential Air Conditioning Systems Design	3
Semester Total		15

Total Minimum Credits for the Level 1 Certificate

42

¹Employment Ready (ER) certification required.

Workforce Degrees and Certificates 2020-2021

HEATING, AIR CONDITIONING & REFRIGERATION - BASIC

Certificate - Level 1		SCH
First Semester - Fall		
ELPT 1315	Electrical Calculations I	3
HART 1301	Basic Electricity for HVAC	3
HART 1356 ¹	EPA Recovery Certification Preparation	3
Semester Total		9
Second Semester - Spring		
HART 1303	Air Conditioning Control Principles	3
HART 1307	Refrigeration Principles	3
HART 1341	Residential Air Conditioning (Capstone)	3
HART 1345	Gas & Electric Heating	3
Semester Total		12
Total Minimum Credits for the Level 1 Certificate		21

¹Employment Ready (ER) certification required.

Workforce Degrees and Certificates 2020-2021

INDUSTRIAL ELECTRICITY

INDUSTRIAL ELECTRICITY - ELECTRICAL TECHNOLOGY

Associate of Applied Science

FIRST YEAR		SCH
First Semester - Fall		
EDUC 1300	Learning Framework	3
ELPT 1321	Introduction to Electrical Safety and Tools	3
ELPT 1311	Basic Electrical Theory	3
ELPT 1370	Electrical Blueprint Reading	3
ELPT 1325	National Electrical Code I	3
Semester Total		15
Second Semester - Spring		
xxxx #3## ¹	Humanities/Fine Arts Elective	3
ELPT 1329	Residential Wiring	3
ELPT 1345	Commercial Wiring	3
ELMT 1302	Solar Photovoltaic Systems	
ECON 1301	Introduction to Economics OR	3
xxxx #3## ¹	General Education Elective	3
Semester Total		15
SECOND YEAR		
First Semester - Fall		
ELPT 1371	Residential Fixtures and Controls OR	
ELPT 1372	Commercial Fixtures and Controls OR	
ELPT 1373	Photovoltaic Fixtures and Controls	3
ELPT 1341	Motor Control	3
ELPT 1355	Electronic Applications	3
MATH 1332	Contemporary Mathematics	3
ELPT 2337	Electrical Planning and Estimating OR	
ELPT 2380	Cooperative Education - Electrical and Power Transmission Installation/Installer, General	3
Semester Total		15

Workforce Degrees and Certificates 2020-2021

Second Semester - Spring

ELPT 2305	Motors and Transformers	3
ELMT 1301	Programmable Logic Controllers	3
XXXX #3## ¹	Social/Behavioral Science Elective	3
ELPT 2347	Electrical Testing and Maintenance OR	
ELPT 2381	Cooperative Education - Electrical and Power Transmission Installation/Installer, General	3
ELPT 2343	Electrical Systems Design (Capstone)	3
	Semester Total	15
	Total Minimum Credits for the AAS	60

¹A list of electives appears in the Core Curriculum section of this catalog.

Workforce Degrees and Certificates 2020-2021

INDUSTRIAL ELECTRICITY - ELECTRICAL TECHNOLOGY - COMMERCIAL

Certificate - Level 1		SCH
First Semester - Fall		
ELPT 1321	Introduction to Electrical Safety and Tools	3
ELPT 1311	Basic Electrical Theory	3
ELPT 1370	Electrical Blueprint Reading OR	
ELPT 1315	Electrical Calculations I	3
Semester Total		9
Second Semester - Spring		
ELPT 1380	Cooperative Education - Electrical and Power Transmission Installation/Installer, General OR	
ELPT 1325	National Electrical Code I	3
ELPT 1345	Commercial Wiring	3
ELPT 1372	Commercial Fixtures and Controls (Capstone)	3
Semester Total		9
Total Minimum Credits for the Level 1 Certificate		18

Workforce Degrees and Certificates 2020-2021

INDUSTRIAL ELECTRICITY - ELECTRICAL POWER TECHNOLOGY

Certificate - Level 1

SCH

First Semester - Fall

ELPT 1321	Introduction to Electrical Safety & Tools	3
ELPT 1311	Basic Electrical Theory	3
ELPT 1325	National Electrical Code I	3
ELPT 1370	Electrical Blueprint Reading	3

Semester Total

12

Second Semester - Spring

ELPT 1329	Residential Wiring	3
ELPT 1371	Residential Fixtures and Controls	3
ELPT 1341	Motor Control	3
ELPT 1345	Commercial Wiring	3

Semester Total

12

Third Semester - Summer

ELMT 1301	Programmable Logic Controllers	3
ELPT 1355	Electronic Applications	3
ELPT 2337	Electrical Planning & Estimating (Capstone)	3

Semester Total

9

Total Minimum Credits for the Level 1 Certificate

33

Workforce Degrees and Certificates 2020-2021

INDUSTRIAL ELECTRICITY - INDUSTRIAL AUTOMATION TECHNOLOGY

Certificate - Level 1

SCH

First Semester - Fall

ELPT 1321	Introduction to Electrical Safety & Tools	3
ELPT 1311	Basic Electrical Theory	3
ELPT 1370	Electrical Blueprint Reading	3
ELPT 1325	National Electrical Code I	3
HYDR 1345	Hydraulics & Pneumatics	3
Semester Total		15

Second Semester - Spring

ELPT 1341	Motor Control	3
ELMT 1301	Programmable Logic Controllers	3
ELPT 1355	Electronic Applications	3
Semester Total		9

Third Semester - Summer

ELPT 2419	Programmable Logic Controllers I	4
INCR 1302	Physics of Instrumentations	3
ELPT 2449	Industrial Automation (Capstone)	4
Semester Total		11

Total Minimum Credits for the Level 1 Certificate **35**

Workforce Degrees and Certificates 2020-2021

INDUSTRIAL ELECTRICITY - SOLAR PHOTOVOLTAIC SYSTEM INSTALLER

Certificate - Level 1		SCH
First Semester - Fall		
ELPT 1321	Introduction to Electrical Safety & Tools	3
ELPT 1311	Basic Electrical Theory	3
ELPT 1325	National Electrical Code I	3
ELPT 1370	Electrical Blueprint Reading	3
Semester Total		12
Second Semester - Spring		
ELMT 1302	Solar Photovoltaic Systems	3
ELMT 1311	Solar Fundamentals (Capstone)	3
Semester Total		6
Total Minimum Credits for the Level 1 Certificate		18

Workforce Degrees and Certificates 2020-2021

INTERIOR DESIGN

INTERIOR DESIGN

Associate of Applied Science

SCH

Prerequisite Semester

EDUC 1300	Learning Framework	3
XXXX #3##'	General Education Elective	3
Semester Total		6

FIRST YEAR

First Semester - Fall

INDS 1311	Fundamentals of Interior Design	3
INDS 1301	Basic Elements of Design	3
INDS 1319	Technical Drawing for Interior Designers	3
INDS 1370	History of Interiors	3
INDS 2321	Presentation Drawing	3
Semester Total		15

Second Semester - Spring

INDS 1349	Fundamentals of Space Planning	3
INDS 2307	Textiles for Interior Design	3
INDS 2305	Interior Design Graphics	3
INDS 2317	Rendering Techniques	3
Semester Total		12

Third Semester - Summer

ARTS 1303	Art History I	3
XXXX #3##'	Math/Natural Science Elective	3
Semester Total		6

SECOND YEAR

First Semester - Fall

INDS 2313	Residential Design I	3
INDS 1315	Materials, Methods & Estimating	3
INDS 2271	Digital Presentation Methods	2
ARTS 1304	Art History II	3
Semester Total		11

Workforce Degrees and Certificates 2020-2021

Second Semester - Spring

INDS 1345	Commercial Design I	3
INDS 2325	Professional Practices for Interior Designers	3
INDS 2237	Portfolio Presentation (Capstone)	2
INDS 2264	Practicum (or Field Experience) - Interior Design	2
	Semester Total	10
	Total Minimum Credits for the AAS Degree	60

¹A list of electives appears in the Core Curriculum section of this catalog.

Workforce Degrees and Certificates 2020-2021

INTERIOR DESIGN - INTERIOR DECORATING

Certificate - Level 1		SCH
Prerequisite Semester		
TECM 1301	Industrial Mathematics	3
Semester Total		3
First Semester - Fall		
INDS 1311	Fundamentals of Interior Design	3
INDS 1319	Technical Drawing for Interior Designers	3
INDS 1301	Basic Elements of Design	3
Semester Total		9
Second Semester - Spring		
INDS 2307	Textiles For Interior Design	3
INDS 1315	Materials, Methods & Estimating	3
INDS 2325	Professional Practices for Interior Designers (Capstone)	3
Semester Total		9
Total Minimum Credits for the Level 1 Certificate		21

Workforce Degrees and Certificates 2020-2021

INTERIOR DESIGN - KITCHEN & BATH DESIGN PROFESSIONAL

Certificate - Level 2

SCH

FIRST YEAR

First Semester - Fall

EDUC 1300	Learning Framework	3
INDS 1311	Fundamentals of Interior Design	3
INDS 1319	Technical Drawing for Interior Designers	3
INDS 2321	Presentation Drawing	3
Semester Total		12

Second Semester - Spring

INDS 2310	Kitchen & Bath Design	3
INDS 2305	Interior Design Graphics	3
INDS 1315	Materials, Methods & Estimating	3
INDS 2317	Rendering Techniques	3
Semester Total		12

SECOND YEAR

First Semester - Fall

INDS 2370	Digital Presentation Methods	3
INDS 2330	Interior Design Building Systems	3
INDS 1341	Color Theory & Appreciation	3
INDS 2315	Lighting for Interior Designers	3
Semester Total		12

Second Semester - Spring

INDS 2371	Advanced Kitchen & Bath Design	3
INDS 2325	Professional Practices for Interior Designers	3
INDS 2386	Internship - Interior Design (Capstone)	3
Semester Total		9

Total Minimum Credits for the Level 2 Certificate **45**

Workforce Degrees and Certificates 2020-2021

INTERIOR DESIGN - INTERIOR DESIGN COMMUNICATION

Occupational Skills Award		SCH
First Semester - Fall		
INDS 1319	Technical Drawing for Interior Designers	3
INDS 2321	Presentation Drawing	3
Semester Total		6
Second Semester - Spring		
INDS 2305	Interior Design Graphics	3
INDS 2317	Rendering Techniques	3
Semester Total		6
Total Minimum Credits for the Occupational Skills Award		12