



## COE – GLOBAL ENERGY INSTITUTE PROGRAMS - CATALOG YEAR 2016 - 2017

### Find the Right Educational Degree Plan

There are two distinctly different ways to pursue your education at HCC. Each pattern has its own particular purpose, and its own advantages and disadvantages. Read the descriptions carefully to make an informed choice. You must choose one of the two following patterns: The *Academic Transfer* pattern of education **OR** The *Workforce Career* pattern of education. For more information, visit our [College and Career Planner Guide](#).

## GLOBAL ENERGY INSTITUTE

### DRAFTING AND DESIGN ENGINEERING TECHNOLOGY

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**HOUSTON COMMUNITY COLLEGE SYSTEM  
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\_\_\_ FA \_\_\_ VA

<b>NAME:</b>	<b>SID#:</b>	<b>TEL#:</b>	<b>EMAIL:</b>	<b>DATE:</b>
<b>COLLEGE:</b>	<b>COU/ADV:</b>	<b>TEL#:</b>	<b>EMAIL:</b>	<b>CAT YR: 8/15/16-8/14/17</b>

**DRAFTING AND DESIGN ENGINEERING TECHNOLOGY - GENERAL COMPUTER-AIDED DESIGN DRAFTING - AAS**

HCCS Course Requirement	cr hr	Transfer Institution	Substitute Course	Substitute (SU) Transfer (TR)	Term	Credits	Grade	Approval Signature	Date
					Comment/Disapproval				
TSI testing is required prior to first enrollment.									
<b>FIRST YEAR</b>									
<b>FIRST SEMESTER</b>									
LEAD 1370 Workforce Leadership and Critical Thinking									
Skills for Student Success	3								
ENGL 1301 Composition I	3								
DFTG 1305 Technical Drafting	3								
DFTG 1309 Basic Computer-Aided Drafting	3								
MATH 1314 College Algebra	3								
<b>SEMESTER TOTAL</b>	<b>15</b>								
<b>SECOND SEMESTER</b>									
DFTG 2319 Intermediate Computer-Aided Drafting	3								
DFTG 2317 Descriptive Geometry	3								
ENGL 2311 Technical and Industrial Correspondence and Report Writing <i>OR</i>									
ENGL 1302 Composition II	3								
DFTG 1333 Mechanical Drafting	3								
XXXX #3## Approved Social/Behavioral Science Elective	3								
<b>SEMESTER TOTAL</b>	<b>15</b>								
<b>SECOND YEAR</b>									
<b>FIRST SEMESTER</b>									
DFTG 1358 Electrical/Electronics Drafting <i>OR</i>									
DFTG 1329 Electro-Mechanical Drafting	3								
DFTG 1310 Specialized Basic Computer Aided Drafting (CAD)	3								
DFTG 2323 Pipe Drafting	3								
DFTG 2330 Civil Drafting	3								
MATH 1316 Plane Trigonometry	3								
<b>SEMESTER TOTAL</b>	<b>15</b>								
<b>Continued on Page 2</b>									

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**DRAFTING AND DESIGN ENGINEERING TECHNOLOGY - GENERAL COMPUTER-AIDED DESIGN DRAFTING - AAS**

HCCS Course Requirement	cr hr	Transfer Institution	Substitute Course	Substitute (SU) Transfer (TR)	Term	Credits	Grade	Approval Signature	Date
				Comment/Disapproval					
<i>Continued from Page 1</i>									
<b>SECOND SEMESTER</b>									
DFTG 1317 Architectural Drafting- Residential	3								
ARCE 1352 Structural Drafting	3								
DFTG 2335 Advanced Technologies in.Mechanical Design and Drafting <i>OR</i>									
DFTG 2340 Solid Modeling/Design	3								
XXXX #3## Approved Humanities/Fine Arts General Ed. Elective	3								
DFTG 2338 Final Project - Advanced Drafting **	3								
<b>SEMESTER TOTAL</b>	<b>15</b>								
<b>PROGRAM TOTAL</b>	<b>60</b>								
<b>** CAPSTONE CLASS</b>									

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**COMPUTER-AIDED DRAFTING - GENERAL DRAFTING - CERTIFICATE: LEVEL I**

HCCS Course Requirement	cr hr	Transfer Institution	Substitute Course	Substitute (SU) Transfer (TR)	Term	Credits	Grade	Approval Signature	Date
					Comment/Disapproval				
<b>FIRST YEAR</b>									
<b>FIRST SEMESTER</b>									
LEAD 1370 Workforce Leadership and Critical Thinking									
Skills for Student Success	3								
DFTG 1309 Basic Computer-Aided Drafting	3								
DFTG 1305 Technical Drafting	3								
<b>SEMESTER TOTAL</b>	<b>9</b>								
<b>SECOND SEMESTER</b>									
DFTG 1358 Electrical/ Electronics Drafting <i>OR</i>									
DFTG 1329 Electro-Mechanical Drafting	3								
DFTG 2319 Intermediate Computer-Aided Drafting <i>OR</i>									
DFTG 1310 Specialized Basic Computer-Aided Drafting	3								
DFTG 1333 Mechanical Drafting	3								
DFTG 1317 Architectural Drafting- Residential	3								
<b>SEMESTER TOTAL</b>	<b>12</b>								
<b>THIRD SEMESTER</b>									
DFTG 2323 Pipe Drafting	3								
DFTG 2330 Civil Drafting	3								
ARCE 1352 Structural Drafting	3								
<b>SEMESTER TOTAL</b>	<b>9</b>								
<b>PROGRAM TOTAL</b>	<b>30</b>								

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**DRAFTING AND DESIGN ENGINEERING TECHNOLOGY - ARCHITECTURAL DRAFTING SPECIALIZATION - AAS**

HCCS Course Requirement	cr	Transfer	Substitute	Substitute (SU)	Term	Credits	Grade	Approval	Date
	hr	Institution	Course	Transfer (TR)				Signature	
Comment/Disapproval									
TSI testing is required prior to first enroll.									
<b>FIRST YEAR</b>									
<b>FIRST SEMESTER</b>									
LEAD 1370 Workforce Leadership and Critical Thinking									
Skills for Student Success	3								
ENGL 1301 Composition I	3								
DFTG 1305 Technical Drafting	3								
DFTG 1309 Basic Computer-Aided Drafting	3								
MATH 1314 College Algebra	3								
<b>SEMESTER TOTAL</b>	<b>15</b>								
<b>SECOND SEMESTER</b>									
DFTG 2319 Intermediate Computer-Aided Drafting	3								
DFTG 1317 Architectural Drafting-Residential	3								
XXXX #3## Social/Behavioral Science Gen. Ed Elective	3								
MATH 1316 Plane Trigonometry	3								
ARCE 1352 Structural Drafting	3								
<b>SEMESTER TOTAL</b>	<b>15</b>								
<b>SECOND YEAR</b>									
<b>FIRST SEMESTER</b>									
XXXX #3## Humanities/Fine Arts General Ed. Elective	3								
DFTG 2300 Intermediate Architectural Drafting-Residential	3								
ENGL 2311 Technical and Industrial Correspondence									
and Report Writing <i>OR</i>									
ENGL 1302 Composition II	3								
DFTG 2330 Civil Drafting	3								
DFTG 1376 Revit Residential	3								
<b>SEMESTER TOTAL</b>	<b>15</b>								
<b>Continued on Page 2</b>									

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**DRAFTING AND DESIGN ENGINEERING TECHNOLOGY - ARCHITECTURAL DRAFTING SPECIALIZATION - AAS**

HCCS Course Requirement	cr hr	Transfer Institution	Substitute Course	Substitute (SU) Transfer (TR)	Term	Credits	Grade	Approval Signature	Date
					Comment/Disapproval				
<b>Continued from Page 1</b>									
<b>SECOND SEMESTER</b>									
DFTG 2331 Advanced Technologies in Architectural Design and Drafting	3								
DFTG 1392 Special Topics in Architectural Drafting and Architectural CAD/CADD	3								
DFTG 2328 Architectural Drafting- Commercial Residential **	3								
ARCE 2352 Mechanical and Electrical Systems <b>OR</b>									
DFTG #3## Program Related Elective	3								
DFTG 2338 Final Project - Advanced Drafting <b>OR</b>									
DFTg 2381 Cooperative Education - Drafting and Design Technology/Technician, General	3								
<b>SEMESTER TOTAL</b>	<b>15</b>								
<b>PROGRAM TOTAL</b>	<b>60</b>								
<b>** CAPSTONE COURSE</b>									

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**COMPUTER-AIDED DRAFTING - ARCHITECTURAL DRAFTING SPECIALIZATION - CERTIFICATE: LEVEL I**

HCCS Course Requirement	cr	Transfer	Substitute	Substitute (SU)	Term	Credits	Grade	Approval	Date
	hr	Institution	Course	Transfer (TR)	Comment/Disapproval			Signature	
<b>FIRST YEAR</b>									
<b>FIRST SEMESTER</b>									
LEAD 1370 Workforce Leadership and Critical Thinking Skills for Student Success	3								
DFTG 1309 Basic Computer-Aided Drafting	3								
DFTG 1305 Technical Drafting	3								
<b>SEMESTER TOTAL</b>	<b>9</b>								
<b>SECOND SEMESTER</b>									
ARCE 1352 Structural Drafting	3								
DFTG 1317 Architectural Drafting-Residential	3								
DFTG 2319 Intermediate Computer-Aided Drafting	3								
DFTG 2330 Civil Drafting	3								
<b>SEMESTER TOTAL</b>	<b>12</b>								
<b>THIRD SEMESTER</b>									
DFTG 1376 Revit Residential	3								
ARCE 2352 Mechanical and Electrical Systems <i>OR</i>									
DFTG #3## Program Related Elective	3								
DFTG 2328 Architectural Drafting- Commercial <i>**</i>	3								
<b>SEMESTER TOTAL</b>	<b>9</b>								
<b>PROGRAM TOTAL</b>	<b>31</b>								
<b>** CAPSTONE CLASS</b>									

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**DRAFTING AND DESIGN ENGINEERING TECHNOLOGY - CIVIL DESIGN DRAFTING SPECIALIZATION - AAS**

HCCS Course Requirement	cr	Transfer	Substitute	Substitute (SU)	Term	Credits	Grade	Approval	Date
	hr	Institution	Course	Transfer (TR)				Signature	
Comment/Disapproval									
TSI testing is required prior to first enrollment.									
<b>FIRST YEAR</b>									
<b>FIRST SEMESTER</b>									
LEAD 1370 Workforce Leadership and Critical Thinking									
Skills for Student Success	3								
ENGL 1301 Composition I	3								
DFTG 1305 Technical Drafting	3								
DFTG 1309 Basic Computer-Aided Drafting	3								
MATH 1314 College Algebra	3								
<b>SEMESTER TOTAL</b>	<b>15</b>								
<b>SECOND SEMESTER</b>									
DFTG 2319 Intermediate Computer-Aided Drafting	3								
SRVY 1301 Introduction to Surveying	3								
DFTG 1310 Specialized Basic Computer Aided Drafting <i>OR</i>									
DFTG #3## Drafting Elective	3								
DFTG 2317 Descriptive Geometry	3								
MATH 1316 Plane Trigonometry	3								
<b>SEMESTER TOTAL</b>	<b>15</b>								
<b>SECOND YEAR</b>									
<b>FIRST SEMESTER</b>									
XXXX #3## Social/Behavioral Science/Gen. Ed. Elective	3								
SRVY 1341 Land Surveying	3								
DFTG 2321 Topographical Drafting <i>OR</i>									
DFTG 2375 Introduction to GIS	3								
ENGL 2311 Technical and Industrial Correspondence and Report Writing <i>OR</i>									
ENGL 1302 Composition II	3								
DFTG 2330 Civil Drafting	3								
<b>SEMESTER TOTAL</b>	<b>15</b>								

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**DRAFTING AND DESIGN ENGINEERING TECHNOLOGY - CIVIL DESIGN DRAFTING SPECIALIZATION - AAS**

HCCS Course Requirement	cr hr	Transfer Institution	Substitute Course	Substitute (SU) Transfer (TR)	Term	Credits	Grade	Approval Signature	Date
<b>Continued from Page 1</b>									
<b>SECOND SEMESTER</b>									
ARCE 1352 Structural Drafting	3								
DFTG 2370 Intermediate CAD (Microstation)	3								
XXXX #3## Humanities/Fine Arts General Ed. Elective	3								
SRVY 2348 Plane Surveying	3								
DFTG 2374 Civil 3D **	3								
<b>SEMESTER TOTAL</b>	<b>15</b>								
<b>PROGRAM TOTAL</b>	<b>60</b>								
<b>** CAPSTONE COURSE</b>									

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**COMPUTER-AIDED DRAFTING - CIVIL/STRUCTURAL DESIGN DRAFTING SPECIALIZATION - CERTIFICATE: LEVEL I**

HCCS Course Requirement	cr	Transfer	Substitute	Substitute (SU)	Term	Credits	Grade	Approval	Date
<b>FIRST YEAR</b>									
<b>FIRST SEMESTER</b>									
LEAD 1370 Workforce Leadership and Critical Thinking									
Skills for Student Success	3								
DFTG 1309 Basic Computer-Aided Drafting	3								
DFTG 1305 Technical Drafting	3								
<b>SEMESTER TOTAL</b>	<b>9</b>								
<b>SECOND SEMESTER</b>									
DFTG 1310 Specialized Basic Computer Aided Drafting	3								
DFTG 2319 Intermediate Computer-Aided Drafting	3								
SRVY 1301 Introduction to Surveying	3								
DFTG 2330 Civil Drafting	3								
<b>SEMESTER TOTAL</b>	<b>12</b>								
<b>THIRD SEMESTER</b>									
SRVY 1341 Land Surveying	3								
DFTG 2374 Civil 3-D	3								
ARCE 1352 Structural Drafting	3								
<b>SEMESTER TOTAL</b>	<b>9</b>								
<b>PROGRAM TOTAL</b>	<b>30</b>								

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**DRAFTING AND DESIGN ENGINEERING TECHNOLOGY - ELECTRICAL DESIGN SPECIALIZATION - AAS**

HCCS Course Requirement	cr hr	Transfer Institution	Substitute Course	Substitute (SU) Transfer (TR)	Term	Credits	Grade	Approval Signature	Date
					Comment/Disapproval				
TSI testing is required prior to enrollment.									
<b>FIRST YEAR</b>									
<b>FIRST SEMESTER</b>									
LEAD 1370 Workforce Leadership and Critical Thinking									
Skills for Student Success	3								
ENGL 1301 Composition I	3								
DFTG 1305 Technical Drafting	3								
DFTG 1309 Basic Computer-Aided Drafting	3								
MATH 1314 College Algebra	3								
<b>SEMESTER TOTAL</b>	<b>15</b>								
<b>SECOND SEMESTER</b>									
DFTG 1333 Mechanical Drafting	3								
DFTG 2319 Intermediate Computer-Aided Drafting	3								
XXXX #3## Approved Humanities/Fine Arts Elective	3								
DFTG 1329 Electro-mechanical Drafting	3								
MATH 1316 Plane Trigonometry	3								
<b>SEMESTER TOTAL</b>	<b>15</b>								
<b>SECOND YEAR</b>									
<b>FIRST SEMESTER</b>									
DFTG 1310 Specialized Basic Computer Aided Drafting (CAD)	3								
DFTG 2317 Descriptive Geometry	3								
DFTG 1358 Electrical/Electronics Drafting	3								
DFTG 2302 Machine Drafting	3								
XXXX #3## Approved Social/Behavioral Science Elective	3								
<b>SEMESTER TOTAL</b>	<b>15</b>								
<b>Continued on Page 2</b>									

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**DRAFTING AND DESIGN ENGINEERING TECHNOLOGY - ELECTRICAL DESIGN SPECIALIZATION - AAS**

HCCS Course Requirement	cr	Transfer	Substitute	Substitute (SU)	Term	Credits	Grade	Approval	Date
<i>Continued from Page 1</i>	hr	Institution	Course	Transfer (TR)	Comment/Disapproval			Signature	
<b>SECOND SEMESTER</b>									
DFTG 2335 Advanced Technologies in Mechanical Design and Drafting	3								
DFTG 2340 Solid Modeling/Design	3								
DFTG 2305 Printed Circuit Board Design <span style="color: red; text-decoration: underline;">OR</span>									
DFTG #3## Drafting Related Elective	3								
ENGL 2311 Technical and Industrial Correspondence and Report Writing <span style="color: red; text-decoration: underline;">OR</span>									
ENGL 1302 Composition II	3								
DFTG 2307 Electrical Drafting <span style="color: red; text-decoration: underline;">**</span>	3								
<b>SEMESTER TOTAL</b>	<b>15</b>								
<b>PROGRAM TOTAL</b>	<b>60</b>								
 <span style="color: red; text-decoration: underline;">** CAPSTONE CLASS</span>									

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**COMPUTER-AIDED DRAFTING - ELECTRICAL DRAFTING SPECIALIZATION - CERTIFICATE: LEVEL I**

HCCS Course Requirement	cr hr	Transfer Institution	Substitute Course	Substitute (SU) Transfer (TR)	Term	Credits	Grade	Approval Signature	Date
					Comment/Disapproval				
<b>FIRST YEAR</b>									
<b>FIRST SEMESTER</b>									
LEAD 1370 Workforce Leadership and Critical Thinking									
Skills for Student Success	3								
DFTG 1309 Basic Computer-Aided Drafting	3								
DFTG 1305 Technical Drafting	3								
<b>SEMESTER TOTAL</b>	<b>9</b>								
<b>SECOND SEMESTER</b>									
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								
<b>SEMESTER TOTAL</b>	<b>12</b>								
<b>THIRD SEMESTER</b>									
DFTG 2302 Machine Drafting	3								
DFTG 2335 Advanced Technologies in Mechanical Design and Drafting <i>OR</i>									
DFTG 2340 Solid Modeling/Design	3								
DFTG 1329 Electromechanical Drafting <b>**</b>	3								
<b>SEMESTER TOTAL</b>	<b>9</b>								
<b>PROGRAM TOTAL</b>	<b>30</b>								
<b>** CAPSTONE CLASS</b>									

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**DRAFTING AND DESIGN ENGINEERING TECHNOLOGY - MECHANICAL DESIGN SPECIALIZATION - AAS**

HCCS Course Requirement	cr hr	Transfer Institution	Substitute Course	Substitute (SU) Transfer (TR)	Term	Credits	Grade	Approval Signature	Date
					Comment/Disapproval				
TSI testing is required prior to enrollment.									
<b>FIRST YEAR</b>									
<b>FIRST SEMESTER</b>									
LEAD 1370 Workforce Leadership and Critical Thinking									
Skills for Student Success	3								
ENGL 1301 Composition I	3								
DFTG 1305 Technical Drafting	3								
DFTG 1309 Basic Computer-Aided Drafting	3								
MATH 1314 College Algebra	3								
<b>SEMESTER TOTAL</b>	<b>15</b>								
<b>SECOND SEMESTER</b>									
DFTG 1333 Mechanical Drafting	3								
DFTG 2319 Intermediate Computer-Aided Drafting	3								
XXXX #3## Approved Humanities/Fine Arts Elective	3								
DFTG 2302 Machine Drafting	3								
MATH 1316 Plane Trigonometry	3								
<b>SEMESTER TOTAL</b>	<b>15</b>								
<b>SECOND YEAR</b>									
<b>FIRST SEMESTER</b>									
DFTG 2335 Advanced Technologies in Mechanical Design and Drafting	3								
DFTG 2317 Descriptive Geometry	3								
DFTG 2306 Machine Design	3								
DFTG 1310 Specialized Basic Computer Aided Drafting (CAD)	3								
XXXX #3## Approved Social/Behavioral Science Elective	3								
<b>SEMESTER TOTAL</b>	<b>15</b>								
<b>Continued on Page 2</b>									

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**DRAFTING AND DESIGN ENGINEERING TECHNOLOGY - MECHANICAL DESIGN SPECIALIZATION - AAS**

HCCS Course Requirement	cr	Transfer	Substitute	Substitute (SU)	Term	Credits	Grade	Approval Signature	Date
	hr	Institution	Course	Transfer (TR)	Comment/Disapproval				
Continued from Page 1									
<b>SECOND SEMESTER</b>									
DFTG 2340 Solid Modeling/Design	3								
DFTG 2338 Final Project - Advanced Drafting <i>OR</i> **									
DFTG 2381 Cooperative Education - Drafting and Design Technology/Technician, General **	3								
DFTG 2358 Advanced Machine Design	3								
ENGL 2311 Technical and Industrial Correspondence and Report Writing <i>OR</i>									
ENGL 1302 Composition II	3								
DFTG #3## Program Related Elective	3								
<b>SEMESTER TOTAL</b>	<b>15</b>								
<b>PROGRAM TOTAL</b>	<b>60</b>								
<b>** CAPSTONE CLASS</b>									

HOUSTON COMMUNITY COLLEGE SYSTEM  
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<b>NAME:</b>		<b>SID#:</b>	<b>TEL#:</b>	<b>EMAIL:</b>	<b>DATE:</b>
<b>COLLEGE:</b>	<b>COU/ADV:</b>	<b>TEL#:</b>	<b>EMAIL:</b>	<b>CAT YR: 8/15/16-8/14/17</b>	

**COMPUTER-AIDED DRAFTING - MECHANICAL DESIGN SPECIALIZATION - CERTIFICATE: LEVEL I**

HCCS Course Requirement	cr hr	Transfer Institution	Substitute Course	Substitute (SU) Transfer (TR)	Term	Credits	Grade	Approval Signature	Date
<b>FIRST YEAR</b>									
<b>FIRST SEMESTER</b>									
LEAD 1370 Workforce Leadership and Critical Thinking Skills for Student Success	3								
DFTG 1309 Basic Computer-Aided Drafting	3								
DFTG 1305 Technical Drafting	3								
<b>SEMESTER TOTAL</b>	<b>9</b>								
<b>SECOND SEMESTER</b>									
DFTG 1333 Mechanical Drafting	3								
DFTG 2319 Intermediate Computer-Aided Drafting	3								
DFTG 2302 Machine Drafting	3								
DFTG 2340 Solid Modeling/Design	3								
<b>SEMESTER TOTAL</b>	<b>12</b>								
<b>THIRD SEMESTER</b>									
DFTG 2306 Machine Design	3								
DFTG 2317 Descriptive Geometry	3								
DFTG 2335 Advanced Technologies in Mechanical Design and Drafting	3								
<b>SEMESTER TOTAL</b>	<b>9</b>								
<b>PROGRAM TOTAL</b>	<b>30</b>								



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<b>COLLEGE:</b>	<b>COU/ADV:</b>	<b>TEL#:</b>	<b>EMAIL:</b>	<b>CAT YR: 8/15/16-8/14/17</b>

**DRAFTING AND DESIGN ENGINEERING TECHNOLOGY - PIPING DESIGN DRAFTING SPECIALIZATION - AAS**

HCCS Course Requirement	cr	Transfer	Substitute	Substitute (SU)	Term	Credits	Grade	Approval	Date
TSI testing is required prior to first enrollment.									
<b>FIRST YEAR</b>									
<b>FIRST SEMESTER</b>									
LEAD 1370 Workforce Leadership and Critical Thinking									
Skills for Student Success	3								
ENGL 1301 Composition I	3								
DFTG 1305 Technical Drafting	3								
DFTG 1309 Basic Computer-Aided Drafting	3								
MATH 1314 College Algebra	3								
<b>SEMESTER TOTAL</b>	<b>15</b>								
<b>SECOND SEMESTER</b>									
DFTG 2319 Intermediate Computer-Aided Drafting	3								
XXXX #3## Humanities/Fine Arts General Ed. Elective	3								
DFTG 2323 Pipe Drafting	3								
DFTG 1333 Mechanical Drafting	3								
DFTG 2317 Descriptive Geometry	3								
<b>SEMESTER TOTAL</b>	<b>15</b>								
<b>SECOND YEAR</b>									
<b>FIRST SEMESTER</b>									
DFTG 1395 Special Topics in Mechanical Drafting and Mechanical Drafting CAD/CADD	3								
DFTG 2308 Instrumentation Drafting	3								
DFTG #3## Drafting Related Elective	3								
MATH 1316 Plane Trigonometry	3								
XXXX #3## Social/Behavioral Science General Ed. Elective	3								
<b>SEMESTER TOTAL</b>	<b>15</b>								
<b>Continued on Page 2</b>									

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**DRAFTING AND DESIGN ENGINEERING TECHNOLOGY - PIPING DESIGN DRAFTING SPECIALIZATION - AAS**

HCCS Course Requirement	cr hr	Transfer Institution	Substitute Course	Substitute (SU) Transfer (TR)	Term	Credits	Grade	Approval Signature	Date
					Comment/Disapproval				
<b>Continued from Page 1</b>									
<b>SECOND SEMESTER 15</b>									
ENGL 2311									
Technical and Industrial Correspondence and Report Writing <i>OR</i>									
ENGL 1302	3								
Composition II									
DFTG 2340	3								
Solid Modeling Design									
DFTG 2345	3								
Advanced Pipe Drafting **									
DFTG 1396									
Special Topics in Computer Graphics <i>OR</i>									
DFTG 2373	3								
Piping Design Management Systems (PDMS)									
ARCE 1352	3								
Structural Drafting									
<b>SEMESTER TOTAL</b>		<b>15</b>							
<b>PROGRAM TOTAL</b>		<b>60</b>							
<b>** CAPSTONE CLASS</b>									

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<b>COLLEGE:</b>	<b>COU/ADV:</b>	<b>TEL#:</b>	<b>EMAIL:</b>	<b>CAT YR: 8/15/16-8/14/17</b>

**COMPUTER-AIDED DRAFTING - PIPE DRAFTING SPECIALIZATION - CERTIFICATE: LEVEL I**

HCCS Course Requirement	cr hr	Transfer Institution	Substitute Course	Substitute (SU) Transfer (TR)	Term	Credits	Grade	Approval Signature	Date
					Comment/Disapproval				
<b>FIRST YEAR</b>									
<b>FIRST SEMESTER</b>									
LEAD 1370 Workforce Leadership and Critical Thinking Skills for Student Success	3								
DFTG 1309 Basic Computer-Aided Drafting	3								
DFTG 1305 Technical Drafting	3								
<b>SEMESTER TOTAL</b>	<b>9</b>								
<b>SECOND SEMESTER</b>									
DFTG 2319 Intermediate Computer-Aided Drafting	3								
DFTG 2323 Pipe Drafting	3								
DFTG 1333 Mechanical Drafting	3								
DFTG 2308 Instrumentation Drafting	3								
<b>SEMESTER TOTAL</b>	<b>12</b>								
<b>THIRD SEMESTER</b>									
ARCE 1352 Structural Drafting	3								
DFTG 1395 Special Topics in Mechanical Drafting and Mechanical Drafting CAD / CADD AutoPlant Isometrics <i>OR</i>									
DFTG 1396 Special Topics in Computer Graphics: Piping Design Systems	3								
DFTG 2345 Advanced Pipe Drafting <b>**</b>	3								
<b>SEMESTER TOTAL</b>	<b>9</b>								
<b>PROGRAM TOTAL</b>	<b>30</b>								
<b>** CAPSTONE CLASS</b>									

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**ELECTRONICS ENGINEERING TECHNOLOGY - BIOMEDICAL ELECTRONICS SPECIALIZATION - AAS**

HCCS Course Requirement	cr	Transfer	Substitute	Substitute (SU)	Term	Credits	Grade	Approval	Date
	hr	Institution	Course	Transfer (TR)				Signature	
Comment/Disapproval									
TSI testing is required prior to first enrollment.									
<b>FIRST YEAR</b>									
<b>FIRST SEMESTER</b>									
	<b>12</b>								
ENGR 1201 Introduction to Engineering	2								
MATH 1314 College Algebra	3								
CETT 1321 Electronic Fabrication	3								
CPMT 1449 Computer Networking Technology	4								
<b>SECOND SEMESTER</b>									
	<b>14</b>								
CETT 1403 DC Circuits	4								
CETT 1425 Digital Fundamentals	4								
MATH 1316 Plane Trigonometry	3								
XXXX #3## Social/Behavioral Science General Ed. Elective	3								
<b>THIRD SEMESTER</b>									
	<b>7</b>								
PHYS 1401 College Physics I	4								
XXXX #3## Humanities/Fine Arts General Ed. Elective	3								
<b>SECOND YEAR</b>									
<b>FIRST SEMESTER</b>									
	<b>14</b>								
CETT 1405 AC Circuits	4								
CETT 1429 Solid State Devices	4								
BIOM 1309 Applied Biomedical Equipment Technology	3								
XXXX #3## Program Related Elective	3								
<b>SECOND SEMESTER</b>									
	<b>13</b>								
BIOM 2331 Biomedical Clinical Instrumentation	3								
HPRS 1206 Essentials of Medical Terminology	2								
BIOM 2489 Internship - Biomedical Technology/Technician	4								
CETT 1457 Linear Integrated Circuits **	4								
<b>PROGRAM TOTAL</b>	<b>60</b>								
<b>** CAPSTONE CLASS</b>									

**HOUSTON COMMUNITY COLLEGE SYSTEM  
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**ELECTRONICS ENGINEERING TECHNOLOGY - ELECTRICAL POWER TECHNOLOGY SPECIALIZATION - AAS**

HCCS Course Requirement	cr	Transfer	Substitute	Substitute (SU)	Term	Credits	Grade	Approval	Date
	hr	Institution	Course	Transfer (TR)				Signature	
Comment/Disapproval									
TSI testing is required prior to first enrollment.									
<b>FIRST YEAR</b>									
<b>FIRST SEMESTER</b>									
	<b>12</b>								
ENGR 1201 Introduction to Engineering	2								
MATH 1314 College Algebra	3								
CETT 1321 Electronic Fabrication	3								
CPMT 1449 Computer Networking Technology	4								
<b>SECOND SEMESTER</b>									
	<b>17</b>								
CETT 1403 DC Circuits	4								
CETT 1425 Digital Fundamentals	4								
MATH 1316 Plane Trigonometry	3								
XXXX #3## Social/Behavioral Science General Ed. Elective	3								
ENGL 1301 Composition I	3								
<b>THIRD SEMESTER</b>									
	<b>7</b>								
PHYS 1401 College Physics I	4								
XXXX #3## Humanities/Fine Arts General Ed. Elective	3								
<b>SECOND YEAR</b>									
<b>FIRST SEMESTER</b>									
	<b>12</b>								
CETT 1405 AC Circuits	4								
CETT 1429 Solid State Devices	4								
CETT 1431 Programming for Discrete Electronic Devices	4								
<b>SECOND SEMESTER</b>									
	<b>12</b>								
XXXX #4## Program - Related Elective	4								
XXXX #4## Program - Related Elective	4								
CETT 1457 Linear Integrated Circuits**	4								
<b>PROGRAM TOTAL</b>	<b>60</b>								
<b>** CAPSTONE CLASS</b>									

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**ELECTRONICS ENGINEERING TECHNOLOGY - COMPUTER ENGINEERING TECHNOLOGY SPECIALIZATION - AAS**

HCCS Course Requirement	cr hr	Transfer Institution	Substitute Course	Substitute (SU) Transfer (TR)	Term	Credits	Grade	Approval Signature	Date
					Comment/Disapproval				
TSI testing is required prior to first enrollment.									
<b>FIRST YEAR</b>									
<b>FIRST SEMESTER</b>									
ENGR 1201 Introduction to Engineering	2								
ENGL 1301 Composition I	3								
MATH 1314 College Algebra	3								
CETT 1321 Electronic Fabrication	3								
CPMT 1449 Computer Networking Technology	4								
<b>SECOND SEMESTER</b>									
CETT 1403 DC Circuits	4								
CETT 1425 Digital Fundamentals	4								
MATH 1316 Plane Trigonometry	3								
XXXX #3## Social/Behavioral Science General Ed. Elective	3								
<b>THIRD SEMESTER</b>									
PHYS 1401 College Physics I	4								
<b>SECOND YEAR</b>									
<b>FIRST SEMESTER</b>									
CETT 1405 AC Circuits	4								
CETT 1429 Solid State Devices	4								
CETT 1431 Programming for Discrete Electronic Devices	4								
XXXX #3## Humanities/Fine Arts General Ed. Elective	3								
<b>SECOND SEMESTER</b>									
XXXX #4## Program - Related Elective	4								
XXXX #4## Program - Related Elective	4								
CETT 1457 Linear Integrated Circuits**	4								
<b>PROGRAM TOTAL</b>	<b>60</b>								
<b>** CAPSTONE CLASS</b>									

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<b>COLLEGE:</b>	<b>COU/ADV:</b>	<b>TEL#:</b>	<b>EMAIL:</b>	<b>CAT YR: 8/15/16-8/14/17</b>

**ELECTRONICS ENGINEERING TECHNOLOGY - BASIC ELECTRONICS - CERTIFICATE: LEVEL II**

HCCS Course Requirement	cr hr	Transfer Institution	Substitute Course	Substitute (SU) Transfer (TR)	Term	Credits	Grade	Approval Signature	Date
					Comment/Disapproval				
TSI testing is required prior to first enrollment.									
<b>FIRST SEMESTER</b>									
LEAD 1370 Workforce Leadership and Critical Thinking Skills for Student Success	3								
MATH 1314 College Algebra	3								
CETT 1321 Electronic Fabrication	3								
CPMT 1449 Computer Networking Technology	4								
<b>SEMESTER TOTAL</b>	<b>13</b>								
<b>SECOND SEMESTER</b>									
CETT 1403 DC Circuits	4								
CETT 1425 Digital Fundamentals	4								
MATH 1316 Plane Trigonometry	3								
<b>SEMESTER TOTAL</b>	<b>11</b>								
<b>THIRD SEMESTER</b>									
CETT 1405 AC Circuits	4								
CETT 1429 Solid State Devices **	4								
CPMT 1303 Introduction to Computer Technology	3								
XXXX #4## Program Related Elective	4								
XXXX #4## Program Related Elective	4								
<b>SEMESTER TOTAL</b>	<b>19</b>								
<b>PROGRAM TOTAL</b>	<b>43</b>								
<b>** CAPSTONE CLASS</b>									

HOUSTON COMMUNITY COLLEGE SYSTEM
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COLLEGE: COU/ADV: TEL#: EMAIL: CAT YR: 8/15/16-8/14/17

ELECTRONICS ENGINEERING TECHNOLOGY - COMPUTER SERVICING/NETWORKS SPECIALIZATION - CERTIFICATE: LEVEL I

Table with columns: HCCS Course Requirement, cr hr, Transfer Institution, Substitute Course, Substitute (SU) Transfer (TR), Term, Credits, Grade, Comment/Disapproval, Approval Signature, Date. Includes sections for FIRST SEMESTER and SECOND SEMESTER.

\*\* CAPSTONE COURSE



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<b>COLLEGE:</b>	<b>COU/ADV:</b>	<b>TEL#:</b>	<b>EMAIL:</b>	<b>CAT YR: 8/15/16-8/14/17</b>

**INSTRUMENTATION AND CONTROLS ENGINEERING TECHNOLOGY - ASSOCIATE OF APPLIED SCIENCE**

HCCS Course Requirement	cr hr	Transfer Institution	Substitute Course	Substitute (SU) Transfer (TR)	Term	Credits	Grade	Approval Signature	Date
					Comment/Disapproval				
TSI testing is required prior to first enroll.									
<b>FIRST YEAR</b>									
<b>FIRST SEMESTER</b>									
	<b>15</b>								
ENGR 1201 Introduction to Engineering	2								
INTC 1312 Instrumentation and Safety	3								
PTAC 1308 Safety, Health, and Environment I	3								
CETT 1403 DC Circuits	4								
MATH 1314 College Algebra	3								
<b>SECOND SEMESTER</b>									
	<b>18</b>								
INTC 1456 Instrumentation Calibration	4								
ENGL 1301 Composition I	3								
MATH 1316 Trigonometry	3								
INTC 1441 Principles of Automatic Control	4								
CPMT 1449 Computer Networking Technology <i>OR</i>									
ITNW 1425 Fundamentals of Networking Technologies <i>OR</i>									
ITCC 1401 Cisco Exploration I - Networking Fundamentals	4								
<b>SECOND YEAR</b>									
<b>FIRST SEMESTER</b>									
	<b>12</b>								
INTC 1343 Application of Industrial Automatic Controls	3								
INTC 2330 Instrumentation Systems Troubleshooting	3								
XXXX #2## Program Related Elective	2								
PHYS 1401 College Physics	4								
<b>SECOND SEMESTER</b>									
	<b>15</b>								
XXXX #3## Humanities/Fine Arts General Ed. Elective	3								
XXXX #3## Social/Behavioral Science General Ed. Elective	3								
RBTC 1301 Programmable Logic Controllers	3								
INTC 2370 Linking Process Control Systems	3								
INTC 2336 Distributed Control & Programmable Logic** <i>OR</i>									
INTC 2380 Cooperative Education-Instrumentation Technology/Technician**	3								
<b>PROGRAM TOTAL</b>	<b>60</b>								
<b>** CAPSTONE COURSE</b>									

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**INSTRUMENTATION AND CONTROLS ENGINEERING TECHNOLOGY - CERTIFICATE: LEVEL II**

HCCS Course Requirement	cr hr	Transfer Institution	Substitute Course	Substitute (SU) Transfer (TR)	Term	Credits	Grade	Approval Signature	Date
					Comment/Disapproval				
TSI testing is required prior to first enroll.									
<b>FIRST YEAR</b>									
<b>FIRST SEMESTER</b>									
LEAD 1370 Workforce Leadership and Critical Thinking									
Skills for Student Success	3								
INTC 1312 Instrumentation and Safety	3								
PTAC 1308 Safety, Health, and Environment I	3								
CETT 1403 DC Circuits	4								
MATH 1314 College Algebra	3								
<b>SEMESTER TOTAL</b>	<b>16</b>								
<b>SECOND SEMESTER</b>									
INTC 1456 Instrumentation Calibration	4								
INTC 1441 Principles of Automatic Control	4								
MATH 1316 Trigonometry	3								
<b>SEMESTER TOTAL</b>	<b>11</b>								
<b>THIRD SEMESTER</b>									
INTC 1343 Application of Industrial Automatic Controls	3								
RBTC 1301 Programmable Logic Controllers	3								
INTC 2370 Linking Process Control Systems	3								
INTC 2336 Distributed Control and Programmable Logic**	3								
XXXX #4## Approved Departmental Elective	4								
<b>SEMESTER TOTAL</b>	<b>16</b>								
<b>PROGRAM TOTAL</b>	<b>43</b>								
<b>** CAPSTONE CLASS</b>									

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**PETROLEUM ENGINEERING TECHNOLOGY - ASSOCIATE OF APPLIED SCIENCE**

HCCS Course Requirement	cr hr	Transfer Institution	Substitute Course	Substitute (SU) Transfer (TR)	Term	Credits	Grade	Approval Signature	Date
					Comment/Disapproval				
TSI testing is required prior to first enrollment.									
<b>FIRST YEAR</b>									
<b>FIRST SEMESTER</b>									
ENGR 1201 Introduction to Engineering	2								
PTRT 1301 Introduction to Petroleum Industry	3								
MATH 1314 College Algebra	3								
CPMT 1303 Introduction to Computer Technology	3								
<b>SEMESTER TOTAL</b>	<b>11</b>								
<b>SECOND SEMESTER</b>									
PTRT 1470 Petroleum Data Management I - Exploration	4								
PTRT 1370 Petroleum Geology	3								
ENGL 1301 Composition I	3								
PTRT 1313 Industrial Safety	3								
<b>SEMESTER TOTAL</b>	<b>13</b>								
<b>THIRD SEMESTER</b>									
PTRT 1472 Petroleum Data Management II- Drilling and Production	4								
<b>SEMESTER TOTAL</b>	<b>4</b>								
<b>SECOND YEAR</b>									
<b>FIRST SEMESTER</b>									
PTRT 1473 Exploration and Production II	4								
MATH 1325 Elements of Calculus with Applications	3								
PTRT 2370 Petroleum Operations	3								
XXXX #3## Program Related Elective	3								
<b>SEMESTER TOTAL</b>	<b>13</b>								
<b>(Continued on Page 2)</b>									

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**PETROLEUM ENGINEERING TECHNOLOGY - ASSOCIATE OF APPLIED SCIENCE**

HCCS Course Requirement	cr hr	Transfer Institution	Substitute Course	Substitute (SU) Transfer (TR)	Term	Credits	Grade	Approval Signature	Date
					Comment/Disapproval				
<b>(Continued from Page 1)</b>									
<b>SECOND SEMESTER</b>									
PTRT 2331 Well Completions	3								
XXXX #3## Approved Social/ Behavioral Science General Education. Elective	3								
PTRT 2323 Natural Gas Production	3								
XXXX #3## Approved Humanities/ Fine Arts General Ed. Elective	3								
<b>SEMESTER TOTAL</b>	<b>12</b>								
<b>THIRD SEMESTER</b>									
PTRT 2372 Internship/ Petroleum Technology/ Technician	3								
PTRT 2470 Petroleum Data Management III- Facilities and Performance **	4								
<b>SEMESTER TOTAL</b>	<b>7</b>								
<b>PROGRAM TOTAL</b>	<b>60</b>								
<b>** CAPSTONE CLASS</b>									

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COLLEGE:	COU/ADV:	TEL#:	EMAIL:	CAT YR: 8/15/16-8/14/17

**PETROLEUM ENGINEERING TECHNOLOGY - CERTIFICATE: LEVEL II**

HCCS Course Requirement	cr hr	Transfer Institution	Substitute Course	Substitute (SU) Transfer (TR)	Term	Credits	Grade	Approval Signature	Date
					Comment/Disapproval				
TSI testing is required prior to first enrollment.									
<b>FIRST YEAR</b>									
<b>FIRST SEMESTER</b>									
ENGR 1201 Introduction to Engineering	2								
PTRT 1301 Introduction to Petroleum Industry	3								
MATH 1314 College Algebra	3								
PTRT 1313 Industrial Safety	3								
CPMT 1303 Introduction to Computer Technology	3								
<b>SEMESTER TOTAL</b>	<b>14</b>								
<b>SECOND SEMESTER</b>									
ENGL 1301 Composition I	3								
PTRT 1470 Petroleum Data Management I - Exploration	4								
MATH 1325 Elements of Calculus with Applications	3								
PTRT 1471 Exploration and Production I	4								
PTRT 1370 Petroleum Geology	3								
<b>SEMESTER TOTAL</b>	<b>17</b>								
<b>THIRD SEMESTER</b>									
PTRT 1473 Exploration and Production II	4								
PTRT 1472 Petroleum Data Management II- Drilling and Production	4								
PTRT 2370 Petroleum Operations **	3								
<b>SEMESTER TOTAL</b>	<b>11</b>								
<b>PROGRAM TOTAL</b>	<b>42</b>								
<b>** CAPSTONE CLASS</b>									

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<b>COLLEGE:</b>	<b>COU/ADV:</b>	<b>TEL#:</b>	<b>EMAIL:</b>	<b>CAT YR: 8/15/16-8/14/17</b>

**PROCESS TECHNOLOGY - ASSOCIATE OF APPLIED SCIENCE**

HCCS Course Requirement	cr	Transfer	Substitute	Substitute (SU)	Term	Credits	Grade	Approval	Date
TSI testing is required prior to first enrollment.									
<b>FIRST YEAR</b>									
<b>FIRST SEMESTER</b>									
LEAD 1370 Workforce Leadership and Critical Thinking									
Skills for Student Success <i>OR</i>	3								
EDUC 1300 Learning Framework									
PTAC 1302 Introduction to Process Technology	3								
ENGL 1301 Composition I	3								
MATH 1314 College Algebra	3								
PTAC 1308 Safety, Health and Environment I	3								
XXXX #3## Social/Behavioral Science/General Education									
Elective	3								
<b>SEMESTER TOTAL</b>	<b>17</b>								
<b>SECOND SEMESTER</b>									
<b>SECOND YEAR</b>									
<b>FIRST SEMESTER</b>									
SCIT 1418 Applied Physics <i>OR</i>									
PHYS 1401 College Physics	4								
SCIT 1414 Applied General Chemistry I <i>OR</i>									
CHEM 1411 General Chemistry I	4								
PTAC 1410 Process Technology I - Equipment	4								
PTAC 1332 Process Instrumentation I	3								
<b>SEMESTER TOTAL</b>	<b>17</b>								
<b>SECOND SEMESTER</b>									
<b>FIRST SEMESTER</b>									
SPCH 1311 Introduction to Speech Communication	3								
PTAC 2314 Principles of Quality	3								
PTAC 2420 Process Technology II - Systems	4								
PTAC 1354 Industrial Processes	3								
<b>SEMESTER TOTAL</b>	<b>17</b>								
<b>(Continued on Page 2)</b>									

Updated: 02/24/2015

## HOUSTON COMMUNITY COLLEGE SYSTEM EDUCATIONAL PLAN/TRANSFER SUBSTITUTION PETITION

\_\_\_ FA \_\_\_ VA

NAME:	SID#:	TEL#:	EMAIL:	DATE:
COLLEGE:	COU/ADV:	TEL#:	EMAIL:	CAT YR: 8/15/16-8/14/17

**PROCESS TECHNOLOGY - ASSOCIATE OF APPLIED SCIENCE**

HCCS Course Requirement	cr hr	Transfer Institution	Substitute Course	Substitute (SU) Transfer (TR)	Term	Credits	Grade	Approval Signature	Date
					Comment/Disapproval				
(Continued from Page 1)									
<b>SECOND SEMESTER</b>									
PTAC 2438 Process Technology III - Operations **	4								
PTAC 1350 Industrial Economics	3								
XXXX #3## Approved Humanities/Fine Arts General Ed. Elective	3								
PTAC 2446 Process Troubleshooting	4								
<b>SEMESTER TOTAL</b>	<b>17</b>								
<b>PROGRAM TOTAL</b>	<b>60</b>								
<b>** CAPSTONE CLASS</b>									

**HOUSTON COMMUNITY COLLEGE SYSTEM  
EDUCATIONAL PLAN/TRANSFER SUBSTITUTION PETITION**

\_\_\_ FA \_\_\_ VA

<b>NAME:</b>	<b>SID#:</b>	<b>TEL#:</b>	<b>EMAIL:</b>	<b>DATE:</b>
<b>COLLEGE:</b>	<b>COU/ADV:</b>	<b>TEL#:</b>	<b>EMAIL:</b>	<b>CAT YR: 8/15/16-8/14/17</b>

**PROCESS TECHNOLOGY - PROCESS OPERATOR - CERTIFICATE: LEVEL II**

HCCS Course Requirement	cr hr	Transfer Institution	Substitute Course	Substitute (SU) Transfer (TR)	Term	Credits	Grade	Approval Signature	Date
					Comment/Disapproval				
<b>FIRST SEMESTER</b>									
LEAD 1370 Workforce Leadership and Critical Thinking									
Skills for Student Success <i>OR</i>									
EDUC 1300 Learning Frameworks	3								
PTAC 1302 Introduction to Process Technology	3								
PTAC 1308 Safety, Health and Environment I	3								
MATH 1314 College Algebra	3								
<b>SEMESTER TOTAL</b>	<b>12</b>								
<b>SECOND SEMESTER</b>									
PTAC 1410 Process Technology I - Equipment	4								
PTAC 1332 Process Instrumentation I	3								
PTAC 1354 Industrial Processes	3								
SCIT 1414 Applied General Chemistry I <i>OR</i>									
CHEM 1411 General Chemistry I	4								
<b>SEMESTER TOTAL</b>	<b>14</b>								
<b>THIRD SEMESTER</b>									
PTAC 1350 Industrial Economics	3								
PTAC 2314 Principles of Quality	3								
SCIT 1418 Applied Physics <i>OR</i>									
PHYS 1401 College Physics	4								
PTAC 2420 Process Technology II - Systems <b>**</b>	4								
<b>SEMESTER TOTAL</b>	<b>14</b>								
<b>PROGRAM TOTAL</b>	<b>40</b>								
<b>** CAPSTONE COURSE</b>									