



## COE – GLOBAL ENERGY INSTITUTE PROGRAMS - CATALOG YEAR 2017 - 2018

### 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 & DESIGN ENGINEERING TECHNOLOGY

Computer-Aided Drafting - General - AAS . . . . .	2-3
Computer-Aided Drafting - General - Certificate: Level I . . . . .	4
Computer-Aided Drafting - Architectural Specialization - AAS . . . . .	5-6
Computer-Aided Drafting - Architectural Specialization - Certificate: Level I . . . . .	7
Computer-Aided Drafting - Civil Specialization - AAS . . . . .	8-9
Computer-Aided Drafting - Civil Specialization - Certificate: Level I . . . . .	10
Computer-Aided Drafting - Electrical Specialization - AAS . . . . .	11-12
Computer-Aided Drafting - Electrical Specialization - Certificate: Level I . . . . .	13
Computer-Aided Drafting - Mechanical Specialization - AAS . . . . .	14-15
Computer-Aided Drafting - Mechanical Specialization - Certificate: Level I . . . . .	16
Computer-Aided Drafting - Pipe Specialization - AAS . . . . .	17-18
Computer-Aided Drafting - Pipe Specialization - Certificate: Level I . . . . .	19

### ELECTRONICS ENGINEERING TECHNOLOGY

Biomedical Electronics Specialization - AAS . . . . .	20-21
Electrical Power Specialization - AAS . . . . .	22
<i>(Deactivation pending SACSCOC approval. Enrollment is closed to new students.)</i>	

Computer Engineering Technology Specialization - AAS . . . . .	23-24
Basic Electronics - Certificate: Level II . . . . .	25
Computer Servicing/Networks - Certificate: Level I . . . . .	26

### INSTRUMENTATION & CONTROLS ENGINEERING TECHNOLOGY

Instrumentation & Controls Engineering Technology - AAS . . . . .	27-28
Instrumentation & Controls Engineering Technology - Certificate: Level II . . . . .	29

### PETROLEUM ENGINEERING TECHNOLOGY

Petroleum Engineering Technology - AAS . . . . .	30-31
Petroleum Engineering Technology - Certificate: Level II . . . . .	32

### PROCESS TECHNOLOGY

Process Technology - AAS . . . . .	33-34
Process Technology - Process Operator - Certificate: Level II . . . . .	35

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

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

NAME:	SID#:	TEL#:	EMAIL:	DATE:
COLLEGE:	COU/ADV:	TEL#:	EMAIL:	CAT YR: 8/15/17-8/14/18

**DRAFTING & DESIGN ENGINEERING TECHNOLOGY - COMPUTER-AIDED DRAFTING - GENERAL - 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>									
EDUC 1300 Learning Framework <sup>A</sup>	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 & Business Writing <i>OR</i>									
ENGL 1302 Composition II	3								
DFTG 1333 Mechanical Drafting	3								
XXXX #3## Social/Behavioral Sciences Elective <sup>B</sup>	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 & DESIGN ENGINEERING TECHNOLOGY - COMPUTER-AIDED DRAFTING - GENERAL - 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## Humanities/Fine Arts Elective <sup>C</sup>	3								
DFTG 2338 Final Project - Advanced Drafting <sup>#</sup>	3								
<b>SEMESTER TOTAL</b>	<b>15</b>								
<b>PROGRAM TOTAL</b>	<b>60</b>								
<b># CAPSTONE COURSE</b>									

- A. **Student Success Course:** Students are required to complete **EDUC 1300** within their first 12 semester credit hours of instruction. Students enrolling at HCC with 12 or more hours completed should consult with an academic advisor to select an appropriate course substitution.
- B. **Humanities/Fine Arts: *May choose from*** – **ARTS** 1301, 1303, 1304, **COMM** 2366, **DANC** 2303, **DRAM** 1310, 2316, 2366, **ENGL** 2322, 2323, 2327, 2328, 2332, 2333, 2342, 2343, 2351, **HIST** 1301, 1302, 2311, 2312, 2321, 2322, 2301, 2327, 2328, 2381, **HUMA** 1301, 1305, 1311, 2319, 2323, **MUSI** 1306, 1310, **PHIL** 1301, 1304, 2306, 2307, 2316, World Languages (**ARAB** 1411, 1412, **CHIN** 1411, 1412, **FREN** 1411, 1412, **GERM** 1411, 1412, **JAPN** 1411, 1412, **KORE** 1411, 1412, **SPAN** 1411, 1412).
- C. **Social/Behavioral Sciences: *May choose from*** – **ANTH** 2346, 2351, **ECON** 1301, 2301, 2302, **EDUC** 1300, **GEOG** 1302, 1303, **GOVT** 2305, 2306, **PSYC** 2301, 2314, 2316, 2319, **SOCI** 1301, 1306, 2301, 2336, **TECA** 1354.



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**DRAFTING & DESIGN ENGINEERING TECHNOLOGY - COMPUTER-AIDED DRAFTING - ARCHITECTURAL 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 enroll.									
<b>FIRST YEAR</b>									
<b>FIRST SEMESTER</b>									
EDUC 1300 Learning Framework <sup>A</sup>	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 Sciences Elective <sup>B</sup>	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 Elective <sup>C</sup>	3								
DFTG 2300 Intermediate Architectural Drafting-Residential	3								
ENGL 2311 Technical & Business Writing <u>OR</u>									
ENGL 1302 Composition II	3								
DFTG 2330 Civil Drafting	3								
DFTG 1376 Revit Residential	3								
<b>SEMESTER TOTAL</b>	<b>15</b>								
<b>SECOND SEMESTER</b>									
DFTG 2331 Advanced Technologies in Architectural Design and Drafting	3								

(Continued on Page 2)

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**DRAFTING & DESIGN ENGINEERING TECHNOLOGY - COMPUTER-AIDED DRAFTING - ARCHITECTURAL 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>									
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 <sup>D</sup>	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>									

- A. Student Success Course:** Students are required to complete **EDUC 1300** within their first 12 semester credit hours of instruction. Students enrolling at HCC with 12 or more hours completed should consult with an academic advisor to select an appropriate course substitution.
- B. Humanities/Fine Arts: *May choose from*** – **ARTS** 1301, 1303, 1304, **COMM** 2366, **DANC** 2303, **DRAM** 1310, 2316, 2366, **ENGL** 2322, 2323, 2327, 2328, 2332, 2333, 2342, 2343, 2351, **HIST** 1301, 1302, 2311, 2312, 2321, 2322, 2301, 2327, 2328, 2381, **HUMA** 1301, 1305, 1311, 2319, 2323, **MUSI** 1306, 1310, **PHIL** 1301, 1304, 2306, 2307, 2316, World Languages (**ARAB** 1411, 1412, **CHIN** 1411, 1412, **FREN** 1411, 1412, **GERM** 1411, 1412, **JAPN** 1411, 1412, **KORE** 1411, 1412, **SPAN** 1411, 1412).
- C. Social/Behavioral Sciences: *May choose from*** – **ANTH** 2346, 2351, **ECON** 1301, 2301, 2302, **EDUC** 1300, **GEOG** 1302, 1303, **GOVT** 2305, 2306, **PSYC** 2301, 2314, 2316, 2319, **SOCI** 1301, 1306, 2301, 2336, **TECA** 1354.
- D. Program Approved Electives: *May choose from*** – **ARCE** 2352, **DFTG** 1301, 302, 1305, 1309, 1310, 1313, 1315, 1317, 1329, 1331, 1333, 1335, 1341, 1344, 1345, 1348, 1352, 1354, 1356, 1358, 1370, 1376, 1391, 1391 - *Auto-ISO*, 1392 - *Architectural Desktop I*, 1392 - *Green Building*, 1392 - *Revit Residential*, 1393, 1394, 1395, 1396 - *Piping Design Systems (PDS)*, 1396 - *Smart Plant 3D(SP3D)*, 2300, 2302, 2304, 2305, 2306, 2307, 2308, 2310, 2316, 2317, 2319, 2321, 2323, 2328, 2330, 2331, 2332, 2335, 2336, 2338, 2340, 2345, 2352, 2358, 2370, 2371, 2372, 2373, 2374, 2375, 2380, 2381.

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**DRAFTING & DESIGN ENGINEERING TECHNOLOGY - COMPUTER-AIDED DRAFTING - ARCHITECTURAL 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>									
DFTG 1309 Basic Computer-Aided Drafting	3								
DFTG 1305 Technical Drafting	3								
<b>SEMESTER TOTAL</b>	<b>6</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 <sup>A</sup>	3								
DFTG 2328 Architectural Drafting - Commercial #	3								
<b>SEMESTER TOTAL</b>	<b>9</b>								
<b>PROGRAM TOTAL</b>	<b>27</b>								
<b># CAPSTONE COURSE</b>									

A. Program Approved Electives: *May choose from* – ARCE 2352, DFTG 1301, 302, 1305, 1309, 1310, 1313, 1315, 1317, 1329, 1331, 1333, 1335, 1341, 1344, 1345, 1348, 1352, 1354, 1356, 1358, 1370, 1376, 1391, 1391 - Auto-ISO, 1392 - Architectural Desktop I, 1392 - Green Building, 1392 - Revit Residential, 1393, 1394, 1395, 1396 - Piping Design Systems (PDS), 1396 - Smart Plant 3D(SP3D), 2300, 2302, 2304, 2305, 2306, 2307, 2308, 2310, 2316, 2317, 2319, 2321, 2323, 2328, 2330, 2331, 2332, 2335, 2336, 2338, 2340, 2345, 2352, 2358, 2370, 2371, 2372, 2373, 2374, 2375, 2380, 2381.

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**DRAFTING & DESIGN ENGINEERING TECHNOLOGY - COMPUTER-AIDED DRAFTING - CIVIL 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>									
EDUC 1300 Learning Framework <sup>A</sup>	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 <b>OR</b>									
DFTG #3## Drafting Elective <sup>D</sup>	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 Sciences Elective <sup>C</sup>	3								
SRVY 1341 Land Surveying	3								
DFTG 2321 Topographical Drafting <b>OR</b>									
DFTG 2375 Introduction to GIS	3								
ENGL 2311 Technical & Business Writing <b>OR</b>									
ENGL 1302 Composition II	3								
DFTG 2330 Civil Drafting	3								
<b>SEMESTER TOTAL</b>	<b>15</b>								

(Continued on Page 2)



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**DRAFTING & DESIGN ENGINEERING TECHNOLOGY - COMPUTER-AIDED DRAFTING - CIVIL 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>									
ARCE 1352 Structural Drafting	3								
DFTG 2370 Intermediate CAD (Microstation)	3								
XXXX #3## Humanities/Fine Arts Elective <sup>B</sup>	3								
SRVY 2348 Plane Surveying	3								
DFTG 2374 Civil 3D <sup>#</sup>	3								
<b>SEMESTER TOTAL</b>	<b>15</b>								
<b>PROGRAM TOTAL</b>	<b>60</b>								
<b># CAPSTONE COURSE</b>									

- A. **Student Success Course:** Students are required to complete **EDUC 1300** within their first 12 semester credit hours of instruction. Students enrolling at HCC with 12 or more hours completed should consult with an academic advisor to select an appropriate course substitution.
- B. **Humanities/Fine Arts: *May choose from*** – **ARTS** 1301, 1303, 1304, **COMM** 2366, **DANC** 2303, **DRAM** 1310, 2316, 2366, **ENGL** 2322, 2323, 2327, 2328, 2332, 2333, 2342, 2343, 2351, **HIST** 1301, 1302, 2311, 2312, 2321, 2322, 2301, 2327, 2328, 2381, **HUMA** 1301, 1305, 1311, 2319, 2323, **MUSI** 1306, 1310, **PHIL** 1301, 1304, 2306, 2307, 2316, World Languages (**ARAB** 1411, 1412, **CHIN** 1411, 1412, **FREN** 1411, 1412, **GERM** 1411, 1412, **JAPN** 1411, 1412, **KORE** 1411, 1412, **SPAN** 1411, 1412).
- C. **Social/Behavioral Sciences: *May choose from*** – **ANTH** 2346, 2351, **ECON** 1301, 2301, 2302, **EDUC** 1300, **GEOG** 1302, 1303, **GOVT** 2305, 2306, **PSYC** 2301, 2314, 2316, 2319, **SOCI** 1301, 1306, 2301, 2336, **TECA** 1354.
- D. **Drafting Electives: *May choose from*** – **DFTG** 1301, 1302, 1310, 1313, 1315, 1317, 1329, 1331, 1333, 1335, 1341, 1344, 1345, 1348, 1352, 1354, 1356, 1358, 1370, 1376, 1391, 1391 - *Auto-ISO*, 1392 - *Architectural Desktop I*, 1392 - *Green Building*, 1392 - *Revit Residential*, 1393, 1394, 1395, 1396 - *Piping Design Systems (PDS)*, 2300, 2302, 2304, 2305, 2306, 2307, 2308, 2310, 2316, 2321, 2323, 2328, 2331, 2332, 2335, 2336, 2338, 2340, 2345, 2352, 2358, 2371, 2372, 2373, 2375, 2380, 2381.



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**DRAFTING & DESIGN ENGINEERING TECHNOLOGY - COMPUTER-AIDED DRAFTING - ELECTRICAL 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>									
EDUC 1300 Learning Framework <sup>A</sup>	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## Humanities/Fine Arts Elective <sup>B</sup>	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## Social/Behavioral Sciences Elective <sup>C</sup>	3								
<b>SEMESTER TOTAL</b>	<b>15</b>								

(Continued on Page 2)

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**DRAFTING & DESIGN ENGINEERING TECHNOLOGY - COMPUTER-AIDED DRAFTING - ELECTRICAL 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 2335 Advanced Technologies in Mechanical Design and Drafting	3								
DFTG 2340 Solid Modeling/Design	3								
DFTG 2305 Printed Circuit Board Design <b>OR</b>									
DFTG #3## Drafting Related Elective	3								
ENGL 2311 Technical & Business Writing <b>OR</b>									
ENGL 1302 Composition II	3								
DFTG 2307 Electrical Drafting #	3								
<b>SEMESTER TOTAL</b>	<b>15</b>								
<b>PROGRAM TOTAL</b>	<b>60</b>								
<b># CAPSTONE COURSE</b>									

- A. **Student Success Course:** Students are required to complete **EDUC 1300** within their first 12 semester credit hours of instruction. Students enrolling at HCC with 12 or more hours completed should consult with an academic advisor to select an appropriate course substitution.
- B. **Humanities/Fine Arts: *May choose from*** – **ARTS** 1301, 1303, 1304, **COMM** 2366, **DANC** 2303, **DRAM** 1310, 2316, 2366, **ENGL** 2322, 2323, 2327, 2328, 2332, 2333, 2342, 2343, 2351, **HIST** 1301, 1302, 2311, 2312, 2321, 2322, 2301, 2327, 2328, 2381, **HUMA** 1301, 1305, 1311, 2319, 2323, **MUSI** 1306, 1310, **PHIL** 1301, 1304, 2306, 2307, 2316, World Languages (**ARAB** 1411, 1412, **CHIN** 1411, 1412, **FREN** 1411, 1412, **GERM** 1411, 1412, **JAPN** 1411, 1412, **KORE** 1411, 1412, **SPAN** 1411, 1412).
- C. **Social/Behavioral Sciences: *May choose from*** – **ANTH** 2346, 2351, **ECON** 1301, 2301, 2302, **EDUC** 1300, **GEOG** 1302, 1303, **GOVT** 2305, 2306, **PSYC** 2301, 2314, 2316, 2319, **SOCI** 1301, 1306, 2301, 2336, **TECA** 1354.
- D. **Drafting Electives: *May choose from*** – **DFTG** 1301, 1302, 1313, 1315, 1317, 1331, 1335, 1341, 1344, 1345, 1348, 1352, 1354, 1356, 1370, 1376, 1391, 1391 - *Auto-ISO*, 1392 - *Architectural Desktop I*, 1392 - *Green Building*, 1392 - *Revit Residential*, 1393, 1394, 1395, 1396 - *Piping Design Systems (PDS)*, 1396 - *Smart Plant 3D(SP3D)*, 2300, 2304, 2305, 2306, 2308, 2310, 2316, 2321, 2323, 2328, 2330, 2331, 2332, 2336, 2338, 2345, 2352, 2358, 2370, 2371, 2372, 2373, 2374, 2375, 2380, 2381.



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

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

NAME:	SID#:	TEL#:	EMAIL:	DATE:
COLLEGE:	COU/ADV:	TEL#:	EMAIL:	CAT YR: 8/15/17-8/14/18

**DRAFTING & DESIGN ENGINEERING TECHNOLOGY - COMPUTER-AIDED DRAFTING - MECHANICAL 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>									
EDUC 1300 Learning Framework <sup>A</sup>	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## Humanities/Fine Arts Elective <sup>B</sup>	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## Social/Behavioral Sciences Elective <sup>C</sup>	3								
<b>SEMESTER TOTAL</b>	<b>15</b>								
<b>(Continued on Page 2)</b>									

**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>	CAT YR: 8/15/17-8/14/18

**DRAFTING & DESIGN ENGINEERING TECHNOLOGY - COMPUTER-AIDED DRAFTING - MECHANICAL SPECIALIZATION - 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 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 & Business Writing <i>OR</i>									
ENGL 1302 Composition II	3								
DFTG #3## Program Related Elective <sup>D</sup>	3								
<b>SEMESTER TOTAL</b>	<b>15</b>								
<b>PROGRAM TOTAL</b>	<b>60</b>								
<b>** CAPSTONE COURSE</b>									

- A. **Student Success Course:** Students are required to complete **EDUC 1300** within their first 12 semester credit hours of instruction. Students enrolling at HCC with 12 or more hours completed should consult with an academic advisor to select an appropriate course substitution.
- B. **Humanities/Fine Arts: *May choose from*** – **ARTS** 1301, 1303, 1304, **COMM** 2366, **DANC** 2303, **DRAM** 1310, 2316, 2366, **ENGL** 2322, 2323, 2327, 2328, 2332, 2333, 2342, 2343, 2351, **HIST** 1301, 1302, 2311, 2312, 2321, 2322, 2301, 2327, 2328, 2381, **HUMA** 1301, 1305, 1311, 2319, 2323, **MUSI** 1306, 1310, **PHIL** 1301, 1304, 2306, 2307, 2316, World Languages (**ARAB** 1411, 1412, **CHIN** 1411, 1412, **FREN** 1411, 1412, **GERM** 1411, 1412, **JAPN** 1411, 1412, **KORE** 1411, 1412, **SPAN** 1411, 1412).
- C. **Social/Behavioral Sciences: *May choose from*** – **ANTH** 2346, 2351, **ECON** 1301, 2301, 2302, **EDUC** 1300, **GEOG** 1302, 1303, **GOVT** 2305, 2306, **PSYC** 2301, 2314, 2316, 2319, **SOCI** 1301, 1306, 2301, 2336, **TECA** 1354.
- D. **Program Related Elective: *May choose from*** – **DFTG** 1301, 1302, 1305, 1309, 1310, 1313, 1315, 1317, 1329, 1331, 1333, 1335, 1341, 1344, 1345, 1348, 1352, 1354, 1356, 1358, 1370, 1376, 1391, 1391 - *Auto-ISO*, 1392 - *Architectural Desktop I*, 1392 - *Green Building*, 1392 - *Revit Residential*, 1393, 1394, 1395, 396 - *Piping Design Systems (PDS)*, 1396 - *Smart Plant 3D(SP3D)*, 2300, 2302, 2304, 2305, 2306, 2307, 2308, 2310, 2316, 2317, 2319, 2321, 2323, 2328, 2330, 2331, 2332, 2335, 2336, 2345, 2352, 2370, 2371, 2372, 2373, 2374, 2375, 2380.





**HOUSTON COMMUNITY COLLEGE SYSTEM  
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**DRAFTING & DESIGN ENGINEERING TECHNOLOGY - COMPUTER-AIDED DRAFTING - PIPE 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>									
EDUC 1300 Learning Framework <sup>A</sup>	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 Elective <sup>B</sup>	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 <sup>D</sup>	3								
MATH 1316 Plane Trigonometry	3								
XXXX #3## Social/Behavioral Sciences Elective <sup>C</sup>	3								
<b>SEMESTER TOTAL</b>	<b>15</b>								
<b>(Continued on Page 2)</b>									

**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: 8/15/17-8/14/18</b>	

**DRAFTING & DESIGN ENGINEERING TECHNOLOGY - COMPUTER-AIDED DRAFTING - PIPE SPECIALIZATION - 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>	<b>15</b>								
ENGL 2311 Technical & Business Writing <i>OR</i>									
ENGL 1302 Composition II	3								
DFTG 2340 Solid Modeling Design	3								
DFTG 2345 Advanced Pipe Drafting #	3								
DFTG 2373 Piping Design Management Systems (PDMS)	3								
ARCE 1352 Structural Drafting	3								
<b>SEMESTER TOTAL</b>	<b>15</b>								
<b>PROGRAM TOTAL</b>	<b>60</b>								
<b># CAPSTONE COURSE</b>									

- A. **Student Success Course:** Students are required to complete **EDUC 1300** within their first 12 semester credit hours of instruction. Students enrolling at HCC with 12 or more hours completed should consult with an academic advisor to select an appropriate course substitution.
- B. **Humanities/Fine Arts: *May choose from*** – **ARTS** 1301, 1303, 1304, **COMM** 2366, **DANC** 2303, **DRAM** 1310, 2316, 2366, **ENGL** 2322, 2323, 2327, 2328, 2332, 2333, 2342, 2343, 2351, **HIST** 1301, 1302, 2311, 2312, 2321, 2322, 2301, 2327, 2328, 2381, **HUMA** 1301, 1305, 1311, 2319, 2323, **MUSI** 1306, 1310, **PHIL** 1301, 1304, 2306, 2307, 2316, World Languages (**ARAB** 1411, 1412, **CHIN** 1411, 1412, **FREN** 1411, 1412, **GERM** 1411, 1412, **JAPN** 1411, 1412, **KORE** 1411, 1412, **SPAN** 1411, 1412).
- C. **Social/Behavioral Sciences: *May choose from*** – **ANTH** 2346, 2351, **ECON** 1301, 2301, 2302, **EDUC** 1300, **GEOG** 1302, 1303, **GOVT** 2305, 2306, **PSYC** 2301, 2314, 2316, 2319, **SOCI** 1301, 1306, 2301, 2336, **TECA** 1354.
- D. **Drafting Related Elective: *May choose from*** – **DFTG** 1301, 1302, 1310, 1313, 1315, 1317, 1329, 1331, 1335, 1341, 1344, 1345, 1348, 1352, 1354, 1356, 1358, 1370, 1376, 1391, 1391 - *Auto-ISO*, 1392 - *Architectural Desktop I*, 1392 - *Green Building*, 1392 - *Revit Residential*, 1393, 1394, 2300, 2302, 2304, 2305, 2306, 2307, 2310, 2316, 2321, 2328, 2330, 2331, 2332, 2335, 2336, 2338, 2352, 2358, 2370, 2371, 2372, 2374, 2375, 2380, 2381.



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

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<b>COLLEGE:</b>	<b>COU/ADV:</b>	<b>TEL#:</b>	<b>EMAIL:</b>	<b>CAT YR: 8/15/17-8/14/18</b>

**ELECTRONICS ENGINEERING TECHNOLOGY - BIOMEDICAL ELECTRONICS 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>									
EDUC 1300 Learning Framework <sup>A</sup>	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								
XXXX #3## Social/Behavioral Sciences Elective <sup>C</sup>	3								
<b>SEMESTER TOTAL</b>	<b>14</b>								
<b>THIRD SEMESTER</b>									
PHYS 1401 College Physics I	4								
XXXX #3## Humanities/Fine Arts Elective <sup>B</sup>	3								
<b>SEMESTER TOTAL</b>	<b>7</b>								
<b>SECOND YEAR</b>									
<b>FIRST SEMESTER</b>									
CETT 1405 AC Circuits	4								
CETT 1429 Solid State Devices	4								
BIOM 1309 Applied Biomedical Equipment Technology	3								
XXXX #3## Program Related Elective <sup>D</sup>	3								
<b>SEMESTER TOTAL</b>	<b>14</b>								

(Continued on Page 2)

**HOUSTON COMMUNITY COLLEGE SYSTEM  
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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)	Comment/Disapproval			Signature	
(Continued from Page 1)									
<b>SECOND SEMESTER</b>									
BIOM 2331 Biomedical Clinical Instrumentation	3								
HPRS 1206 Essentials of Medical Terminology	2								
BIOM 2489 Internship - Biomedical Technology/Technician	4								
CETT 1357 Linear Integrated Circuits #	3								
<b>SEMESTER TOTAL</b>	<b>12</b>								
<b>PROGRAM TOTAL</b>	<b>60</b>								
<b># CAPSTONE COURSE</b>									

- A. **Student Success Course:** Students are required to complete **EDUC 1300** within their first 12 semester credit hours of instruction. Students enrolling at HCC with 12 or more hours completed should consult with an academic advisor to select an appropriate course substitution.
- B. **Humanities/Fine Arts: *May choose from*** – **ARTS** 1301, 1303, 1304, **COMM** 2366, **DANC** 2303, **DRAM** 1310, 2316, 2366, **ENGL** 2322, 2323, 2327, 2328, 2332, 2333, 2342, 2343, 2351, **HIST** 1301, 1302, 2311, 2312, 2321, 2322, 2301, 2327, 2328, 2381, **HUMA** 1301, 1305, 1311, 2319, 2323, **MUSI** 1306, 1310, **PHIL** 1301, 1304, 2306, 2307, 2316, World Languages (**ARAB** 1411, 1412, **CHIN** 1411, 1412, **FREN** 1411, 1412, **GERM** 1411, 1412, **JAPN** 1411, 1412, **KORE** 1411, 1412, **SPAN** 1411, 1412).
- C. **Social/Behavioral Sciences: *May choose from*** – **ANTH** 2346, 2351, **ECON** 1301, 2301, 2302, **EDUC** 1300, **GEOG** 1302, 1303, **GOVT** 2305, 2306, **PSYC** 2301, 2314, 2316, 2319, **SOCI** 1301, 1306, 2301, 2336, **TECA** 1354.
- D. **Program Related Electives: *May choose from*** – **CETT** 1303, 1331, 1357, 1402, 1409, 1415, 1431, 1441, 1445, 1449, 1491, 2433, 2435, 2439, 2449; **CPMT** 1303, 1403, 1407, 1411, 1491, 1492, 2350, 2389, 2433, 2434, 2445, 2449.

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

NAME:	SID#:	TEL#:	EMAIL:	DATE:
COLLEGE:	COU/ADV:	TEL#:	EMAIL:	CAT YR: 8/15/17-8/14/18

**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			
TSI testing is required prior to first enrollment.					<i>(Deactivation pending SACSCOC approval. Enrollment is closed to new students.)</i>						
<b>FIRST YEAR</b>											
<b>FIRST SEMESTER</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>											
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>											
PHYS 1401 College Physics I	4										
XXXX #3## Humanities/Fine Arts General Ed. Elective	3										
<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										
<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 COURSE</b>											

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NAME:	SID#:	TEL#:	EMAIL:	DATE:
COLLEGE:	COU/ADV:	TEL#:	EMAIL:	CAT YR: 8/15/17-8/14/18

**ELECTRONICS ENGINEERING TECHNOLOGY - COMPUTER ENGINEERING 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>									
EDUC 1300 Learning Framework <sup>A</sup>	3								
ENGL 1301 Composition I	3								
MATH 1314 College Algebra	3								
CETT 1321 Electronic Fabrication	3								
CPMT 1449 Computer Networking Technology	4								
<b>SEMESTER TOTAL</b>	<b>16</b>								
<b>SECOND SEMESTER</b>									
CETT 1403 DC Circuits	4								
CETT 1425 Digital Fundamentals	4								
MATH 1316 Plane Trigonometry	3								
XXXX #3## Social/Behavioral Sciences Elective <sup>C</sup>	3								
<b>SEMESTER TOTAL</b>	<b>14</b>								
<b>THIRD SEMESTER</b>									
PHYS 1401 College Physics I	4								
<b>SEMESTER TOTAL</b>	<b>4</b>								
<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 Elective <sup>B</sup>	3								
<b>SEMESTER TOTAL</b>	<b>15</b>								

(Continued on Page 2)





**HOUSTON COMMUNITY COLLEGE SYSTEM  
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<b>COLLEGE:</b>	<b>COU/ADV:</b>	<b>TEL#:</b>	<b>EMAIL:</b>	CAT YR: 8/15/17-8/14/18

**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>									
EDUC 1300 Learning Framework <sup>A</sup>	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 <sup>#</sup>	4								
CPMT 1303 Introduction to Computer Technology	3								
XXXX #4## Program Related Elective <sup>B</sup>	4								
XXXX #4## Program Related Elective <sup>B</sup>	4								
<b>SEMESTER TOTAL</b>	<b>19</b>								
<b>PROGRAM TOTAL</b>	<b>43</b>								
<b># CAPSTONE COURSE</b>									

- A. **Student Success Course:** Students are required to complete **EDUC 1300** within their first 12 semester credit hours of instruction. Students enrolling at HCC with 12 or more hours completed should consult with an academic advisor to select an appropriate course substitution.
- B. **Program Related Electives:** *May choose from* – CETT 1402, 1409, 1415, 1431, 1441, 1445, 1449, 1457, 1491, 2433, 2435, 2439, 2449, CPMT 1403, 1407, 1411, 1491, 1492, 2433, 2434, 2445, 2449.



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

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

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COLLEGE:	COU/ADV:	TEL#:	EMAIL:	CAT YR: 8/15/17-8/14/18

**INSTRUMENTATION & 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
TSI testing is required prior to first enroll.									
<b>FIRST YEAR</b>									
<b>FIRST SEMESTER</b>									
EDUC 1300 Learning Framework <sup>A</sup>	3								
PTAC 1302 Introduction To Process Technology	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								
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>SEMESTER TOTAL</b>	<b>18</b>								
<b>SECOND YEAR</b>									
<b>FIRST SEMESTER</b>									
INTC 1343 Application of Industrial Automatic Controls	3								
INTC 2330 Instrumentation Systems Troubleshooting	3								
XXXX #4## Program Related Elective <sup>D</sup>	4								
PHYS 1401 College Physics	4								
<b>SEMESTER TOTAL</b>	<b>14</b>								

(Continued on Page 2)

**HOUSTON COMMUNITY COLLEGE SYSTEM  
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NAME:	SID#:	TEL#:	EMAIL:	DATE:
COLLEGE:	COU/ADV:	TEL#:	EMAIL:	CAT YR: 8/15/17-8/14/18

**INSTRUMENTATION & 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
<i>(Continued from Page 1)</i>									
<b>SECOND SEMESTER</b>	<b>15</b>								
XXXX #3## Humanities/Fine Arts Elective <sup>B</sup>	3								
XXXX #3## Social/Behavioral Sciences Elective <sup>C</sup>	3								
RBTC 1301 Programmable Logic Controllers	3								
INTC 2370 Linking Process Control Systems # <i>OR</i>									
INTC 2336 Distributed Control & Programmable Logic # <i>OR</i>									
INTC 2380 Cooperative Education-Instrumentation Technology/Technician #	3								
<b>SEMESTER TOTAL</b>	<b>12</b>								
<b>PROGRAM TOTAL</b>	<b>60</b>								
<b># CAPSTONE COURSE</b>									

- A. Student Success Course:** Students are required to complete **EDUC 1300** within their first 12 semester credit hours of instruction. Students enrolling at HCC with 12 or more hours completed should consult with an academic advisor to select an appropriate course substitution.
- B. Humanities/Fine Arts: *May choose from*** – **ARTS** 1301, 1303, 1304, **COMM** 2366, **DANC** 2303, **DRAM** 1310, 2316, 2366, **ENGL** 2322, 2323, 2327, 2328, 2332, 2333, 2342, 2343, 2351, **HIST** 1301, 1302, 2311, 2312, 2321, 2322, 2301, 2327, 2328, 2381, **HUMA** 1301, 1305, 1311, 2319, 2323, **MUSI** 1306, 1310, **PHIL** 1301, 1304, 2306, 2307, 2316, World Languages (**ARAB** 1411, 1412, **CHIN** 1411, 1412, **FREN** 1411, 1412, **GERM** 1411, 1412, **JAPN** 1411, 1412, **KORE** 1411, 1412, **SPAN** 1411, 1412).
- C. Social/Behavioral Sciences: *May choose from*** – **ANTH** 2346, 2351, **ECON** 1301, 2301, 2302, **EDUC** 1300, **GEOG** 1302, 1303, **GOVT** 2305, 2306, **PSYC** 2301, 2314, 2316, 2319, **SOCI** 1301, 1306, 2301, 2336, **TECA** 1354.
- D. Program Related Elective: *May choose from*** – **INTC** 1305, 1312, 1343, 1371, 1401, 1441, 1450, 1456, 1491, 2330, 2339, 2370, 2436, 2473; all **INTC**, **CETT** and **CPMT** courses.

**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>	CAT YR: 8/15/17-8/14/18

**INSTRUMENTATION & 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>									
EDUC 1300 Learning Framework <sup>A</sup>	3								
PTAC 1302 Introduction To Process Technology	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 Plane 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 <sup>#</sup>	3								
XXXX #4## Approved Departmental Elective <sup>B</sup>	4								
<b>SEMESTER TOTAL</b>	<b>16</b>								
<b>PROGRAM TOTAL</b>	<b>43</b>								
<b># CAPSTONE COURSE</b>									

**A. Student Success Course:** Students are required to complete **EDUC 1300** within their first 12 semester credit hours of instruction. Students enrolling at HCC with 12 or more hours completed should consult with an academic advisor to select an appropriate course substitution.

**B. Program Related Elective: *May choose from*** – **CETT** 1402, 1405, 1409, 1415, 1425, 1429, 1431, 1441, 1445, 1449, 1457, 1491, 2433, 2435, 2439, 2449, **CPMT** 1403, 1407, 1411, 1449, 1491, 1492, 2433, 2434, 2445, 2449, **ELPT** 1441, 1445, 1451, 1457, 2419, 2449, 2455, **ENTC** 1423, 1445, 1447, 1491, 2410, 2431, 2433, **INTC** 1401, 1450, 1491, 2436, 2473, 2480, **PTAC** 1410, 2410, 2420, 2438, 2446, **RBTC** 2401.

**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>	CAT YR: 8/15/17-8/14/18

**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>									
EDUC 1300 Learning Framework <sup>A</sup>	3								
PTRT 1301 Introduction to Petroleum Industry	3								
MATH 1314 College Algebra	3								
CPMT 1303 Introduction to Computer Technology	3								
<b>SEMESTER TOTAL</b>	<b>12</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 Calculus for Business & Social Sciences	3								
PTRT 2370 Petroleum Operations	3								
XXXX #2## Program Related Elective <sup>B</sup>	2								
<b>SEMESTER TOTAL</b>	<b>12</b>								
<b>(Continued on Page 2)</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: 8/15/17-8/14/18</b>

**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				
<i>(Continued from Page 1)</i>									
<b>SECOND SEMESTER</b>									
PTRT 2331 Well Completions	3								
XXXX #3## Social/Behavioral Sciences Elective <sup>D</sup>	3								
PTRT 2323 Natural Gas Production	3								
XXXX #3## Humanities/ Fine Arts Elective <sup>C</sup>	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 <sup>#</sup>	4								
<b>SEMESTER TOTAL</b>	<b>7</b>								
<b>PROGRAM TOTAL</b>	<b>60</b>								
<b># CAPSTONE COURSE</b>									

- A. **Student Success Course:** Students are required to complete **EDUC 1300** within their first 12 semester credit hours of instruction. Students enrolling at HCC with 12 or more hours completed should consult with an academic advisor to select an appropriate course substitution.
- B. **Program Electives: *May choose from*** – ENGR 2301, 2302, 2304, 2305, 2332, **PTAC** 1302, 1308, 1332, 1350, 1352, 1354, 2314, 2334, 2336, 2346, 2348, 2386, PTRT 2371, 2373, 2380.
- C. **Humanities/Fine Arts: *May choose from*** – ARTS 1301, 1303, 1304, **COMM** 2366, **DANC** 2303, **DRAM** 1310, 2316, 2366, **ENGL** 2322, 2323, 2327, 2328, 2332, 2333, 2342, 2343, 2351, **HIST** 1301, 1302, 2311, 2312, 2321, 2322, 2301, 2327, 2328, 2381, **HUMA** 1301, 1305, 1311, 2319, 2323, **MUSI** 1306, 1310, **PHIL** 1301, 1304, 2306, 2307, 2316, World Languages (**ARAB** 1411, 1412, **CHIN** 1411, 1412, **FREN** 1411, 1412, **GERM** 1411, 1412, **JAPN** 1411, 1412, **KORE** 1411, 1412, **SPAN** 1411, 1412).
- D. **Social/Behavioral Sciences: *May choose from*** – ANTH 2346, 2351, **ECON** 1301, 2301, 2302, **EDUC** 1300, **GEOG** 1302, 1303, **GOVT** 2305, 2306, **PSYC** 2301, 2314, 2316, 2319, **SOCI** 1301, 1306, 2301, 2336, **TECA** 1354.

**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: 8/15/17-8/14/18</b>

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

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>									
EDUC 1300 Learning Framework <sup>A</sup>	3								
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>15</b>								
<b>SECOND SEMESTER</b>									
ENGL 1301 Composition I	3								
PTRT 1470 Petroleum Data Management I - Exploration	4								
MATH 1325 Calculus for Business & Social Sciences	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 <sup>#</sup>	3								
<b>SEMESTER TOTAL</b>	<b>11</b>								
<b>PROGRAM TOTAL</b>	<b>43</b>								
<b># CAPSTONE COURSE</b>									

**A. Student Success Course:** Students are required to complete **EDUC 1300** within their first 12 semester credit hours of instruction. Students enrolling at HCC with 12 or more hours completed should consult with an academic advisor to select an appropriate course substitution.



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

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

NAME:	SID#:	TEL#:	EMAIL:	DATE:
COLLEGE:	COU/ADV:	TEL#:	EMAIL:	CAT YR: 8/15/17-8/14/18

**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>									
EDUC 1300 Learning Framework <sup>A</sup>	3								
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 Elective <sup>C</sup>	3								
<b>SEMESTER TOTAL</b>	<b>18</b>								
<b>SECOND SEMESTER</b>									
SCIT 1418 Applied Physics <i>OR</i>									
PHYS 1401 College Physics I	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>15</b>								
<b>SECOND YEAR</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>13</b>								

(Continued on Page 2)



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

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

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<b>COLLEGE:</b>	<b>COU/ADV:</b>	<b>TEL#:</b>	<b>EMAIL:</b>	<b>CAT YR: 8/15/17-8/14/18</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
<b>FIRST SEMESTER</b>									
EDUC 1300 Learning Framework <sup>A</sup>	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 <u>OR</u>									
CHEM 1411 General Chemistry I	4								
<b>SEMESTER TOTAL</b>	<b>14</b>								
<b>THIRD SEMESTER</b>									
PTAC 2420 Process Technology II - Systems <sup>#</sup>	4								
PTAC 1350 Industrial Economics	3								
PTAC 2314 Principles of Quality	3								
SCIT 1418 Applied Physics <u>OR</u>									
PHYS 1401 College Physics	4								
<b>SEMESTER TOTAL</b>	<b>14</b>								
<b>PROGRAM TOTAL</b>	<b>40</b>								
<b># CAPSTONE COURSE</b>									

**A. Student Success Course:** Students are required to complete **EDUC 1300** within their first 12 semester credit hours of instruction. Students enrolling at HCC with 12 or more hours completed should consult with an academic advisor to select an appropriate course substitution.