



SCIENCE, TECHNOLOGY, ENGINEERING AND MATHEMATICS PROGRAMS - CATALOG YEAR 2015 - 2016

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](#).

ACADEMIC DEGREE PLANS

Associate in Science 2-3
 Chemistry - Associate of Science 4-5
 Engineering Science - Associate of Science in Engineering Science (ASES). . . 6-7
 Geology - Associate of Science 8-9
 Mathematics - Associate of Science 10-11
 Physics - Associate of Science. 12-13

WORKFORCE CAREERS

DRAFTING AND DESIGN ENGINEERING TECHNOLOGY

General Drafting - AAS 14
 General Drafting - Certificate Level I 15
 Architectural Drafting Specialization - AAS 16
 Architectural Drafting Specialization - Certificate Level I. 17
 Civil Design Drafting Specialization - AAS. 18
 Civil/Structural Drafting Specialization - Certificate Level I 19
 Electrical Design Specialization - AAS 20
 Electro - Mechanical Design Specialization - Certificate Level I 21
 Mechanical Design Specialization - AAS 22
 Mechanical Design Specialization - CAD - Certificate Level I 23
 Piping Design Drafting Specialization - AAS 24
 Pipe Drafting Specialization - Certificate Level I 25

ELECTRONICS ENGINEERING TECHNOLOGY

Biomedical Electronics Specialization - AAS 26
 Electrical Power Specialization - AAS 27
 Computer Engineering Technology Specialization - AAS 28
 Basic Electronics - Certificate Level I. 29

Computer Servicing/Networks - Certificate Level I. 30

INSTRUMENTATION AND CONTROLS ENGINEERING TECHNOLOGY

Instrumentation and Controls Engineering Technology - AAS 31
 Instrumentation and Controls Engineering Technology - Certificate Level II . 32

PETROLEUM ENGINEERING TECHNOLOGY

Petroleum Engineering Technology - AAS 33-34
 Petroleum Engineering Technology - Certificate Level II. 35

PROCESS TECHNOLOGY

Process Technology - AAS 36
 Process Technology - Process Operator - Certificate Level II. 37

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

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

ASSOCIATE IN 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.									
REQUIRED ACADEMIC CORE									
FIRST YEAR									
FIRST SEMESTER									
EDUC 1300 Learning Framework	3								
ENGL 1301 Composition I	3								
HIST #3## American History									
<i>(May choose from HIST 1301, 1302, 2301, 2328, 2381)</i>	3								
XXXX #3## Transferable Elective	3								
A. MATH #3## Mathematics	3								
SEMESTER TOTAL	15								
SECOND SEMESTER									
ENGL 1302 Composition II OR									
ENGL 2311 Technical and Industrial Correspondence and Report Writing	3								
HIST #3## American History									
<i>(May choose from HIST 1301, 1302, 2301, 2328, 2381)</i>	3								
A. MATH #3## Mathematics	3								
B. XXXX #3## Natural Science Elective	3								
C. XXXX #3## Creative Arts Elective	3								
SEMESTER TOTAL	15								
SECOND YEAR									
FIRST SEMESTER									
D. XXXX #3## Language, Philosophy and Culture	3								
E. GOVT 2305 Federal Government	3								
A. MATH #3## Mathematics	3								
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ASSOCIATE IN SCIENCE

	HCCS Course Requirement	cr hr	Transfer Institution	Substitute Course	Substitute (SU) Transfer (TR)	Term	Credits	Grade	Approval Signature	Date
						Comment/Disapproval				
B.	XXXX #3## Natural Science Elective	3								
F.	XXXX #3## Social/Behavioral Science Elective	3								
	SEMESTER TOTAL	15								
	SECOND SEMESTER									
E.	GOVT 2306 Texas Government	3								
G.	XXXX #3## Component Area Option OR									
	XXXX #3## Transferable Elective	3								
B.	XXXX #3## Natural Science Elective with Lab	4								
	XXXX #3## Transferable Elective	3								
	XXXX #2## Transferable Elective	2								
	SEMESTER TOTAL	15								
	PROGRAM TOTAL	60								

ADDITIONAL COMMENTS & NOTES:

The student must earn a minimum 2.0 GPA on sixty (60) total college-level semester hours, must complete a minimum eighteen (18) hours of coursework in the Houston Community College, must complete TSI requirement unless exempt, and have an application to graduate on file in the Registrar's office in order to graduate.

- A. Mathematics** May choose from: MATH 1314, MATH 1316, MATH 1324, MATH 1325, MATH, 1332, MATH 1342, MATH 1350, MATH 1442, MATH 2318, MATH 2320, MATH 2412, MATH 2413
- B. Natural Science:** May choose from ANTH 2301, ASTR 1303, ASTR 1304, ASTR 1403, ASTR 1404, BIOL 1308, BIOL 1309, BIOL 1322, BIOL 1406, BIOL 1407, CHEM 1105, CHEM 1305, CHEM 1405, CHEM 1411, CHEM 1412, CHEM 1413, ENVR 1301, GEOG 1301, GEOL, 1345, GEOL 134, GEOL 1403, GEOL 1404, PHYS 1305, PHYS 1401, PHYS 1402, PHYS 2325, PHYS 2326
- C. Creative Arts:** May choose ARTS 1301, ARTS 1303, ARTS 1304, DANC 2303, DRAM, 1310, DRAM 2361, DRAM 2366, ENGL 2307, ENGL 2308, HUMA 1301, MUSI 1301, MUSI 1306, MUSI 1310
- D. Language, Philosophy and Culture (3 hours) Choose One:** ENGL 2322, ENGL 2323, ENGL 2327, ENGL 2328, ENGL 2332, ENGL 2333, ENGL 2342, ENGL 2343, ENGL 2351, HIST 2311, HIST 2312, HUMA 2319, PHIL 1301, PHIL 1304, PHIL 2306, PHIL 2307, PHIL 2316, PHIL 2317
- E. Government:** May choose GOVT 2305, 2306.
- F. Social/Behavioral Science:** May choose ANTH 2302, 2346, 2351; ECON 2301, 2302, 2311; GEOG 1302 ,1303, 2312; GOVT 2304; HIST 2389; PHIL 2307; PSYC 2301, 2389; SOCI 1301, 1306, 2301,2319, 2336, 2374;TECA 1354.
- G. Component Area Option:** ANTH 2101, ANTH 2302, ARAB 1411, ARAB 1412, CHIN 1411, CHIN 1412, COMM 1307, COSC 1436, DRAM 1351, FREN 1411, FREN 1412, GERM 1411, GERM 1412, JAPN 1411, JAPN 1412, KORE 1411, KORE 1412, MATH 2414, MATH 2415, PHED 1304, PHED 1306, PHIL 2303, PHYS 2125, PHYS 2126, SPAN 1411, SPAN 1412, SPCH 1315, SPCH 1318, VIET 1411, VIET 1412

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CHEMISTRY- ASSOCIATE OF 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.									
SUGGESTED 2 YEAR PLAN									
FIRST YEAR									
FIRST SEMESTER - FALL									
EDUC 1300 Learning Framework	3								
ENGL 1301 Composition I	3								
XXXX #3## American History Elective* ¹	3								
MATH 2413 Calculus I	4								
CHEM 1411 General Chemistry I	4								
SEMESTER TOTAL	17								
SECOND SEMESTER - SPRING									
ENGL 1302 Composition II	3								
XXXX #3## American History Elective* ¹	3								
MATH 2414 Calculus II	4								
CHEM 1412 General Chemistry II	4								
XXXX #3## Social/Behavioral Science Elective* ⁴	3								
SEMESTER TOTAL	17								
SECOND YEAR									
FIRST SEMESTER - FALL									
HUMA #3## Elective* ²	3								
GOVT 2305 Federal Government	3								
CHEM 2423 Organic Chemistry I	4								
PHYS 2325 University Physics I	3								
PHYS 2125 Physics Laboratory I	1								
SEMESTER TOTAL	14								
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ENGINEERING SCIENCE - ASSOCIATE OF SCIENCE IN ENGINEERING SCIENCE (ASES)

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.									
REQUIRED ACADEMIC CORE									
SUGGESTED 2 YEAR PLAN									
FIRST YEAR									
FIRST SEMESTER - FALL									
HIST 1301 American History I	3								
ENGL 1301 Composition I	3								
MATH 2413 Calculus I	4								
CHEM 1411 General Chemistry I	4								
ENGR 1201 Introduction to Engineering	2								
SEMESTER TOTAL	16								
SECOND SEMESTER - SPRING									
ENGR 1204 Engineering Graphics	2								
ENGL 1302 Grammar and Composition II	3								
MATH 2414 Calculus II	4								
PHYS 2325 University Physics I	3								
PHYS 2125 University Physics I Laboratory	1								
GOVT 2306 Texas Government	3								
GOVT 2305 <i>may be substituted for GOVT 2306</i>									
SEMESTER TOTAL	16								
SECOND YEAR									
FIRST SEMESTER - FALL									
ENGR 2304 Programming for Engineers	3								
ECON 2301 Macroeconomics OR									
ECON 2302 Microeconomics	3								
ENGR 2301 Engineering Mechanics—Statics	3								
MATH 2415 Calculus III (Multi-Variable Calculus)	4								
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ENGINEERING SCIENCE - ASSOCIATE OF SCIENCE IN ENGINEERING SCIENCE (ASES)

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)									
PHYS 2326 University Physics II	3								
PHYS 2126 University Physics II Laboratory	1								
SEMESTER TOTAL	17								
SECOND SEMESTER - SPRING									
ENGR 2405 Electrical Circuit I	4								
MATH 2320 Differential Equations	3								
XXXX #3## Engineering Elective*	3								
XXXX #3## Creative Arts Core**	3								
XXXX #3## Language, Philosophy and Culture***	3								
SEMESTER TOTAL	16								
PROGRAM TOTAL	65								

ADDITIONAL COMMENTS & NOTES:

- * **Engineering Elective** - Choose from: Students interested in pursuing mechanical or civil engineering should take **ENGR 2302: Engineering Mechanics—Dynamics** as the engineering elective. Students interested in pursuing electrical engineering should take **COSC 1436** as the engineering elective. Students interested in pursuing industrial engineering should ENGR 23xx—Engineering Economics as the engineering elective.
Note: Industrial engineering as a completion degree is not currently offered by UTT.
- ** **Creative Arts Core** - Choose from: **ARTS 1301** Art Appreciation, **DRAM 1310** Introduction to Theatre or **MUSI 1306** Music Appreciation
- *** **Language, Philosophy and Culture (3 hours) Choose One:** ENGL 2322, ENGL 2323, ENGL 2327, ENGL 2328, ENGL 2332, ENGL 2333, ENGL 2342, ENGL 2343, ENGL 2351, HIST 2311, HIST 2312, HUMA 2319, PHIL 1301, PHIL 1304, PHIL 2306, PHIL 2307, PHIL 2316, PHIL 2317

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GEOLOGY - ASSOCIATE OF 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.									
REQUIRED ACADEMIC CORE									
SUGGESTED 2 YEAR PLAN									
FIRST YEAR									
FIRST SEMESTER - FALL									
EDUC 1300 Learning Framework	3								
ENGL 1301 Composition I	3								
HIST 1301 United States History, Civilization, to 1877	3								
CHEM 1411 General Chemistry I*	3								
MATH 2412 Precalculus**	4								
SEMESTER TOTAL	16								
SECOND SEMESTER - SPRING									
ENGL 1302 Composition II <i>OR</i>									
ENGL 2311 Technical Writing	3								
HIST 1302 United States History, Civilization, after 1877	3								
CHEM 1412 General Chemistry II*	3								
MATH 2413 Calculus I	4								
XXXX #3## Social/Behavioral Science Elective ¹	3								
SEMESTER TOTAL	16								
SECOND YEAR									
FIRST SEMESTER - FALL									
MATH 2414 Calculus II	4								
GOVT 2305 Federal Government	3								
PHYS 2325 University Physics I + (1 Lab)*	3								
PHYS 2125 University Physics I (Lab)									
GEOL 1403 Physical Geology*	3								
SEMESTER TOTAL	13								
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MATHEMATICS - ASSOCIATE OF 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.									
SUGGESTED 2 YEAR PLAN									
FIRST YEAR									
FIRST SEMESTER - FALL									
EDUC 1300 Learning Framework	3								
ENGL 1301 Composition I	3								
CHEM 1411 General Chemistry I	4								
MATH 2412 Precalculus	4								
SEMESTER TOTAL	14								
SECOND SEMESTER - SPRING									
ENGL 1302 Composition II	3								
CHEM 1412 General Chemistry II	4								
MATH 2413 Calculus I	4								
XXXX #3## American History Elective *1	3								
XXXX #3## Language, Philosophy and Culture Elective *2	3								
SEMESTER TOTAL	17								
SECOND YEAR									
FIRST SEMESTER - FALL									
MATH 2414 Calculus II	4								
GOVT 2305 Federal Government	3								
XXXX #3## Creative Arts Elective *3	3								
PHYS 2325 University Physics I	3								
PHYS 2125 Physics Laboratory I									
SEMESTER TOTAL	13								
(Continued on next page)									

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MATHEMATICS - ASSOCIATE OF 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)									
SECOND YEAR									
SECOND SEMESTER - SPRING									
GOVT 2306 Texas Government	3								
XXXX #3## American History Elective *1	3								
MATH 2415 Calculus III	4								
XXXX #3## Social/Behavioral Science Elective *4	3								
PHYS 2326 University Physics II	3								
PHYS 2126 Physics Laboratory II									
SEMESTER TOTAL	16								
PROGRAM TOTAL	60								

ADDITIONAL COMMENTS & NOTES:

AS MATHEMATICS (FULL CORE CURRICULUM)

Student Success course	EDUC 1300	Learning Framework	3
Written Communication	ENGL 1301-1302	English Comp I & II	6
Language, Philosophy & Culture*			3
Creative Arts Elective*			3
American History Electives*			6
Government	GOVT 2305/2306	Federal/Texas Gov't.	6
Mathematics	MATH 2412	Precalculus	4
Natural Science Electives	CHEM 1411-1412	(**Includes labs)	8
Social/Behavioral Science Elective*			3

MAJOR PREREQUISITES

MATH 2413	Calculus I	4
MATH 2414	Calculus II	4
MATH 2415	Calculus III	4
PHYS 2125	University Physics I**	
PHYS 2325	University Physics I	3
PHYS 2126	University Physics II**	
PHYS 2326	University Physics II	3
		60

**Includes labs that are required for University transfer

- *1 American History (6 hours) **Choose Two:** HIST 1301, HIST 1302, HIST 2301, HIST 2328, HIST 2381
- *2 Language, Philosophy and Culture (3 hours) **Choose One:** ENGL 2322, ENGL 2323, ENGL 2327, ENGL 2328, ENGL 2332, ENGL 2333, ENGL 2342, ENGL 2343, ENGL 2351, HIST 2311, HIST 2312, HUMA 2319, PHIL 1301, PHIL 1304, PHIL 2306, PHIL 2307, PHIL 2316, PHIL 2317
- *3 Creative Arts (3 hours) **Choose One:** ARTS 1301, ARTS 1303, ARTS 1304, DANC 2303, DRAM 1310, DRAM 2361, DRAM 2366, ENGL 2307, ENGL 2308, HUMA 1301, MUSI 1301, MUSI 1306, MUSI 1310
- *4 Social and Behavioral Sciences (3 hours) **Choose One:** ANTH 2346, ANTH 2351, ECON 2301, ECON 2302, GEOG 1302, GEOG 1303, PSYC 2301, SOCI 1301, SOCI 1306, SOCI 2336

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PHYSICS - ASSOCIATE OF 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.									
SUGGESTED 2 YEAR PLAN									
FIRST YEAR									
FIRST SEMESTER - FALL									
EDUC 1300 Learning Framework	3								
ENGL 1301 Composition I	3								
CHEM 1411 General Chemistry I	4								
MATH 2412 Precalculus	4								
XXXX #3## American History Elective *1	3								
SEMESTER TOTAL	17								
SECOND SEMESTER - SPRING									
ENGL 1302 Composition II	3								
CHEM 1412 General Chemistry II	4								
MATH 2413 Calculus I	4								
XXXX #3## American History Elective *1	3								
XXXX #3## Language, Philosophy and Culture Elective *2	3								
SEMESTER TOTAL	17								
SECOND YEAR									
FIRST SEMESTER - FALL									
MATH 2414 Calculus II	4								
GOVT 2305 Federal Government	3								
XXXX #3## Creative Arts Elective *3	3								
PHYS 2325 University Physics I	3								
PHYS 2125 Physics Laboratory I	1								
SEMESTER TOTAL	14								
(Continued on next page)									

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DRAFTING AND DESIGN ENGINEERING TECHNOLOGY - GENERAL 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.									
FIRST YEAR									
FIRST SEMESTER									
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								
SECOND SEMESTER									
DFTG 2319 Intermediate Computer-Aided Drafting	3								
DFTG 2317 Descriptive Geometry	3								
ENGL 2311 Technical and Industrial Correspondence and Report Writing OR									
ENGL 1302 Composition II	3								
DFTG 1333 Mechanical Drafting	3								
XXXX #3## Approved Social/Behavioral Science Elective	3								
SECOND YEAR									
FIRST SEMESTER									
DFTG 2302 Machine Drafting	3								
DFTG 2323 Pipe Drafting	3								
DFTG 1310 Specialized Basic Computer Aided Drafting (CAD)	3								
DFTG 2330 Civil Drafting	3								
MATH 1316 Plane Trigonometry	3								
SECOND SEMESTER									
DFTG 1317 Architectural Drafting- Residential	3								
ARCE 1352 Structural Drafting	3								
DFTG #3## Program Related Elective	3								
DFTG 2335 Advanced Technologies in.Mechanical Design and Drafting OR									
DFTG 2338 Final Project - Advanced Drafting OR									
DFTG 2340 Solid Modeling/Design	3								
XXXX #3## Approved Humanities/Fine Arts General Ed. Elective	3								
PROGRAM TOTAL	60								

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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				
TSI testing is required prior to first enroll.									
FIRST YEAR									
FIRST SEMESTER									
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								
SECOND SEMESTER									
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								
SECOND YEAR									
FIRST SEMESTER									
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 OR									
ENGL 1302 Composition II	3								
DFTG 1392 Special Topics in Architectural Drafting and Architectural CAD/CADD	3								
DFTG 1376 Revit Residential	3								
SECOND SEMESTER									
DFTG 2331 Advanced Technologies in Architectural Design and Drafting	3								
DFTG #3## Program Related Elective	3								
DFTG 2330 Civil Drafting	3								
DFTG 2328 Architectural Drafting- Commercial Residential	3								
DFTG #3## Drafting Elective	3								
PROGRAM TOTAL	60								

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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
TSI testing is required prior to first enrollment.									
FIRST YEAR									
FIRST SEMESTER									
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								
SECOND SEMESTER									
DFTG 2319 Intermediate Computer-Aided Drafting	3								
SRVY 1301 Introduction to Surveying	3								
DFTG 1310 Specialized Basic Computer Aided Drafting <u>OR</u>									
DFTG #3## Drafting Elective	3								
DFTG 2317 Descriptive Geometry	3								
MATH 1316 Plane Trigonometry	3								
SECOND YEAR									
FIRST SEMESTER									
XXXX #3## Social/Behavioral Science/Gen. Ed. Elective	3								
SRVY 1341 Land Surveying	3								
DFTG 2321 Topographical Drafting <u>OR</u>									
DFTG 2375 Introduction to GIS	3								
ENGL 2311 Technical and Industrial Correspondence and Report Writing <u>OR</u>									
ENGL 1302 Composition II	3								
ARCE 1352 Structural Drafting	3								
SECOND SEMESTER									
DFTG 2330 Civil 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								
PROGRAM TOTAL	60								

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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
TSI testing is required prior to enrollment.									
FIRST YEAR									
FIRST SEMESTER	15								
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								
SECOND SEMESTER	15								
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								
SECOND YEAR									
FIRST SEMESTER	15								
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								
SECOND SEMESTER	15								
DFTG 2335 Advanced Technologies in Mechanical Design and Drafting	3								
DFTG 2340 Solid Modeling/Design	3								
DFTG 2305 Printed Circuit Board Design OR									
DFTG #3## Drafting Elective	3								
ENGL 2311 Technical and Industrial Correspondence and Report Writing OR									
ENGL 1302 Composition II	3								
DFTG 2307 Electrical Drafting	3								
PROGRAM TOTAL	60								

**HOUSTON COMMUNITY COLLEGE SYSTEM
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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.									
FIRST YEAR									
FIRST SEMESTER									
LEAD 1370									
Workforce Leadership and Critical Thinking Skills for Student Success	3								
ENGL 1301	3								
Composition I									
DFTG 1305	3								
Technical Drafting									
DFTG 1309	3								
Basic Computer-Aided Drafting									
MATH 1314	3								
College Algebra									
SECOND SEMESTER									
DFTG 1333	3								
Mechanical Drafting									
DFTG 2319	3								
Intermediate Computer-Aided Drafting									
XXXX #3##	3								
Approved Humanities/Fine Arts Elective									
DFTG 2302	3								
Machine Drafting									
MATH 1316	3								
Plane Trigonometry									
SECOND YEAR									
FIRST SEMESTER									
DFTG 2335									
Advanced Technologies in Mechanical Design and Drafting	3								
DFTG 2317	3								
Descriptive Geometry									
DFTG 2306	3								
Machine Design									
DFTG 1310	3								
Specialized Basic Computer Aided Drafting (CAD)									
XXXX #3##	3								
Approved Social/Behavioral Science Elective									
SECOND SEMESTER									
DFTG 2340	3								
Solid Modeling/Design									
DFTG 1345	3								
Parametric Modeling and Design									
DFTG 2358	3								
Advanced Machine Design									
ENGL 2311									
Technical and Industrial Correspondence and Report Writing <i>OR</i>									
ENGL 1302	3								
Composition II									
DFTG #3##	3								
Program Related Elective									
PROGRAM TOTAL	60								

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DRAFTING AND DESIGN ENGINEERING TECHNOLOGY - MECHANICAL DESIGN SPECIALIZATION - CAD - CERTIFICATE: LEVEL I

HCCS Course Requirement	cr hr	Transfer Institution	Substitute Course	Substitute (SU) Transfer (TR)	Term	Credits	Grade	Approval Signature	Date
					Comment/Disapproval				
FIRST YEAR									
FIRST SEMESTER									
LEAD 1370 Workforce Leadership and Critical Thinking Skills for Student Success	3								
DFTG 1305 Technical Drafting	3								
DFTG 1309 Basic Computer-Aided Drafting	3								
SEMESTER TOTAL	9								
SECOND SEMESTER									
DFTG 1333 Mechanical Drafting	3								
DFTG 2319 Intermediate Computer-Aided Drafting	3								
DFTG 2302 Machine Drafting	3								
SEMESTER TOTAL	9								
SECOND YEAR									
FIRST SEMESTER									
DFTG 2306 Machine Design	3								
DFTG 2340 Solid Modeling/Design	3								
SEMESTER TOTAL	6								
SECOND SEMESTER									
DFTG 2335 Advanced Technologies in Mechanical Design and Drafting	3								
DFTG 2358 Advanced Machine Design	3								
DFTG 2380 Cooperative Education - Drafting and Design Technology/Technician, General <u>OR</u>									
ARCE 2344 Statics and Strength of Materials	3								
SEMESTER TOTAL	9								
PROGRAM TOTAL	33								

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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				
TSI testing is required prior to first enrollment.									
FIRST YEAR									
FIRST SEMESTER									
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								
SECOND SEMESTER									
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								
SECOND YEAR									
FIRST SEMESTER									
DFTG 1310 Specialized Basic Computer Aided Drafting (CAD)	3								
DFTG 2308 Instrumentation Drafting	3								
DFTG 2330 Civil Drafting	3								
MATH 1316 Plane Trigonometry	3								
XXXX #3## Social/Behavioral Science General Ed. Elective	3								
SECOND SEMESTER									
ENGL 2311 Technical and Industrial Correspondence and Report Writing OR									
ENGL 1302 Composition II	3								
DFTG 2340 Solid Modeling Design OR									
XXXX #3## Elective	3								
DFTG 2345 Advanced Pipe Drafting	3								
DFTG 2373 Piping Design Management Systems (PDMS)	3								
ARCE 1352 Structural Drafting	3								
PROGRAM TOTAL	60								

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ELECTRONICS ENGINEERING TECHNOLOGY - BIOMEDICAL ELECTRONICS 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.									
FIRST YEAR									
FIRST SEMESTER									
ENGR 1201 Introduction to Engineering	2								
MATH 1314 College Algebra	3								
CETT 1321 Electronic Fabrication	3								
CPMT 1449 Computer Networking Technology	4								
SECOND SEMESTER									
CETT 1403 DC Circuits	4								
CETT 1425 Digital Fundamentals	4								
MATH 1316 Plane Trigonometry	3								
XXXX #3## Social/Behavioral Science General Ed. Elective	3								
THIRD SEMESTER									
PHYS 1401 College Physics I	4								
XXXX #3## Humanities/Fine Arts General Ed. Elective	3								
SECOND YEAR									
FIRST SEMESTER									
CETT 1405 AC Circuits	4								
CETT 1429 Solid State Devices	4								
BIOM 1309 Applied Biomedical Equipment Technology	3								
XXXX #3## Program Related Elective	3								
SECOND SEMESTER									
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								
PROGRAM TOTAL	60								

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ELECTRONICS ENGINEERING TECHNOLOGY - ELECTRICAL POWER 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.									
FIRST YEAR									
FIRST SEMESTER									
ENGR 1201 Introduction to Engineering	2								
MATH 1314 College Algebra	3								
CETT 1321 Electronic Fabrication	3								
CPMT 1449 Computer Networking Technology	4								
SECOND SEMESTER									
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								
THIRD SEMESTER									
PHYS 1401 College Physics I	4								
XXXX #3## Humanities/Fine Arts General Ed. Elective	3								
SECOND YEAR									
FIRST SEMESTER									
CETT 1405 AC Circuits	4								
CETT 1429 Solid State Devices	4								
CETT 1431 Programming for Discrete Electronic Devices	4								
SECOND SEMESTER									
XXXX #4## Program - Related Elective	4								
XXXX #4## Program - Related Elective	4								
CETT 1457 Linear Integrated Circuits	4								
PROGRAM TOTAL	60								

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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.									
FIRST YEAR									
FIRST SEMESTER									
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								
SECOND SEMESTER									
CETT 1403 DC Circuits	4								
CETT 1425 Digital Fundamentals	4								
MATH 1316 Plane Trigonometry	3								
XXXX #3## Social/Behavioral Science General Ed. Elective	3								
THIRD SEMESTER									
PHYS 1401 College Physics I	4								
SECOND YEAR									
FIRST SEMESTER									
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								
SECOND SEMESTER									
XXXX #4## Program - Related Elective	4								
XXXX #4## Program - Related Elective	4								
CETT 1457 Linear Integrated Circuits**	4								
PROGRAM TOTAL	60								

The **capstone course is CETT 1457 - Linear Integrated Circuits

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ELECTRONICS ENGINEERING TECHNOLOGY - BASIC ELECTRONICS - CERTIFICATE: LEVEL I

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.									
FIRST SEMESTER									
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								
SEMESTER TOTAL	13								
SECOND SEMESTER									
CETT 1403 DC Circuits	4								
CETT 1425 Digital Fundamentals	4								
MATH 1316 Plane Trigonometry	3								
SEMESTER TOTAL	11								
THIRD SEMESTER									
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								
SEMESTER TOTAL	19								
PROGRAM TOTAL	43								

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INSTRUMENTATION AND CONTROLS ENGINEERING TECHNOLOGY - ASSOCIATE IN 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.									
FIRST YEAR									
FIRST SEMESTER									
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								
SECOND SEMESTER									
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 OR									
ITNW 1425 Fundamentals of Networking Technologies OR									
ITCC 1401 Cisco Exploration I - Networking Fundamentals	4								
SECOND YEAR									
FIRST SEMESTER									
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								
SECOND SEMESTER									
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 OR									
INTC 2380 Cooperative Education-Instrumentation Technology/Technician	3								
PROGRAM TOTAL	60								

The capstone course is INTC 2336, Distributed Control and Programmable Logic or INTC 2380, Cooperative Education - Instrumentation Technology/Technician

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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.									
FIRST YEAR									
FIRST SEMESTER									
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								
SEMESTER TOTAL	16								
SECOND SEMESTER									
INTC 1456 Instrumentation Calibration	4								
INTC 1441 Principles of Automatic Control	4								
MATH 1316 Trigonometry	3								
SEMESTER TOTAL	11								
THIRD SEMESTER									
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								
SEMESTER TOTAL	16								
PROGRAM TOTAL	43								

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PETROLEUM ENGINEERING TECHNOLOGY - ASSOCIATE IN 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.									
FIRST YEAR									
FIRST SEMESTER									
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								
SEMESTER TOTAL	11								
SECOND SEMESTER									
PTRT 1470 Petroleum Data Management I - Exploration	4								
PTRT 1370 Petroleum Geology	3								
ENGL 1301 Composition I	3								
PTRT 1313 Industrial Safety	3								
SEMESTER TOTAL	13								
THIRD SEMESTER									
PTRT 1472 Petroleum Data Management II- Drilling and Production	4								
SEMESTER TOTAL	4								
SECOND YEAR									
FIRST SEMESTER									
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								
SEMESTER TOTAL	13								
(Continued on Page 2)									

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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.									
FIRST YEAR									
FIRST SEMESTER									
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								
SEMESTER TOTAL	14								
SECOND SEMESTER									
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								
SEMESTER TOTAL	17								
THIRD SEMESTER									
PTRT 1473 Exploration and Production II	4								
PTRT 1472 Petroleum Data Management II- Drilling and Production	4								
PTRT 2370 Petroleum Operations	3								
SEMESTER TOTAL	11								
PROGRAM TOTAL	42								

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PROCESS TECHNOLOGY - ASSOCIATE IN 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.									
FIRST YEAR									
FIRST SEMESTER									
LEAD 1370 Workforce Leadership and Critical Thinking									
Skills for Student Success <u>OR</u>	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								
SECOND SEMESTER									
SCIT 1418 Applied Physics <u>OR</u>									
PHYS 1401 College Physics	4								
SCIT 1414 Applied General Chemistry I <u>OR</u>									
CHEM 1411 General Chemistry I	4								
PTAC 1410 Process Technology I - Equipment	4								
PTAC 1332 Process Instrumentation I	3								
SECOND YEAR									
FIRST SEMESTER									
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								
SECOND SEMESTER									
PTAC 2438 Operations - PT III	4								
PTAC 1350 Industrial Economics	3								
XXXX #3## Approved Humanities/Fine Arts General Ed.									
Elective	3								
PTAC 2446 Process Troubleshooting	4								
PROGRAM TOTAL	60								

