

SCIENCE, TECHNOLOGY, ENGINEERING AND MATHEMATICS PROGRAMS - YEAR 2013 - 2014



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<i>(Deactivated as of June 1, 2013)</i>	

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UPDATED: 09/23/2014

**HOUSTON COMMUNITY COLLEGE SYSTEM
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NAME:	SS#:	DATE:
COLLEGE:	COUNSELOR/ADVISOR:	CATALOG YEAR: 13-14

BIOTECHNOLOGY- ASSOCIATE IN APPLIED SCIENCE

HCCS Course Requirement	Transfer / Substitution Institution	Substitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
TSI testing is required prior to first enrollment.				<i>This award is deactivated as of June 1, 2013.</i>		
FIRST YEAR				<i>New students will not be admitted into the program.</i>		
FIRST SEMESTER				<i>The program is currently in teach-out status.</i>		
ENGR 1201 Introduction to Engineering						
BITC 1311 Introduction to Biotechnology						
BITC 1402 Biotechnology Laboratory Methods and Techniques						
MATH 1314 College Algebra						
SCIT 1414 Applied General Chemistry I OR						
CHEM 1411 General Chemistry I						
SECOND SEMESTER						
BITC 2411 Biotechnology Laboratory Instrumentation						
BIOL 1406 General Biology I						
ENGL 1301 Composition I						
BITC 1370 Introduction to Biochemistry						
THIRD SEMESTER						
SCIT 2401 Applied Organic Chemistry I OR						
CHEM 2423 Organic Chemistry I						
XXXX #3## Social/Behavioral Science General Ed. Elective						
SECOND YEAR						
FIRST SEMESTER						
BITC 2431 Cell Culture Techniques						
BITC 2441 Molecular Biology Techniques						
BIOL 2420 Microbiology						
BIOL 2401 Anatomy and Physiology I OR						
SCIT 1407 Applied Human Anatomy and Physiology I						
SECOND SEMESTER						
BITC 2445 Medical Biotechnology						
XXXX #3## Humanities/Fine Arts General Ed. Elective						
BITC 2386 Internship- Biological Technology/Technician OR						
BITC 1491 Special Topics in Biological Tech/Technician						
BITC 2472 Immunological Methods and Techniques						

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NAME:	SS#:	DATE:
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BIOTECHNOLOGY - CERTIFICATE - BIOTECHNOLOGY

HCCS Course Requirement	Transfer / Substitution Institution	Substitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
FIRST YEAR				<i>This award is deactivated as of June 1, 2013.</i>		
				<i>New students will not be admitted into the program.</i>		
				<i>The program is currently in teach-out status.</i>		
FIRST SEMESTER						
ENGR 1201 Introduction to Engineering						
BITC 1311 Introduction to Biotechnology						
ENGL 1301 Composition I						
MATH 1314 College Algebra						
CHEM 1411 General Chemistry I OR						
SCIT 1414 Applied General Chemistry I						
SECOND SEMESTER						
BITC 1402 Biotechnology Laboratory Methods and Techniques						
BITC 1370 Introduction to Biochemistry						
BIOL 1406 General Biology I						
THIRD SEMESTER						
BITC 1491 Special Topics in Biological Technology/ Technician						
BITC 2411 Biotechnology Laboratory Instrumentation						

**HOUSTON COMMUNITY COLLEGE SYSTEM
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NAME:	SS#:	DATE:
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CHEMICAL ENGINEERING TECHNOLOGY- ASSOCIATE IN APPLIED SCIENCE

HCCS Course Requirement	Transfer / Substitution Institution	Substitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
TSI testing is required prior to first enroll				<i>This award is deactivated as of September 1, 2013.</i>		
FIRST YEAR				<i>New students will not be admitted into the program.</i>		
FIRST SEMESTER				<i>The program is currently in teach-out status.</i>		
ENGR 1201 Introduction to Engineering						
CTEC 1391 Special Topics in Chemical Technology/Technician						
PTAC 1308 Safety, Health, and Environment I						
ENGL 1301 Composition I						
MATH 1314 College Algebra						
SECOND SEMESTER						
SCIT 1414 Applied General Chemistry I <u>OR</u>						
CHEM 1411 General Chemistry						
SCIT 1418 Applied Physics I <u>OR</u>						
PHYS 1401 College Physics I						
MATH 1325 Elements of Calculus with Applications						
PTAC 1332 Process Instrumentation I						
THIRD SEMESTER						
CTEC 1470 Principles of Pipeline Technology						
SCIT 2401 Applied Organic Chemistry I <u>OR</u>						
CHEM 2423 Organic Chemistry I						
PTAC 1410 Process Technology I- Equipment						
SECOND YEAR						
FIRST SEMESTER						
SCIT 1543 Applied Analytical Chemistry						
SOCI 1301 Introduction to Sociology						
CTEC 2470 Process Control and Design						
PTAC 2420 Process Technology II- Systems						
SECOND SEMESTER						
CTEC 2386 Internship- Chemical Technology/Tech. <u>OR</u>						
CTEC 1391 Special Topics in Chemical Technology/Technician						
PTAC 2446 Process Troubleshooting						
XXXX #3## Humanities/Fine Arts General Ed. Elective						
CTEC 2445 Unit Operations						

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CHEMICAL LABORATORY TECHNOLOGY- ASSOCIATE IN APPLIED SCIENCE

HCCS Course Requirement	Transfer / Substitution Institution	Substitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
TSI testing is required prior to first enrollment.				<i>This award is deactivated as of September 1, 2013.</i>		
				<i>New students will not be admitted into the program.</i>		
FIRST YEAR				<i>The program is currently in teach-out status.</i>		
FIRST SEMESTER						
ENGR 1201 Introduction to Engineering						
CTEC 1213 Introduction to Chemical Technology						
ENGL 1301 Composition I						
MATH 1314 College Algebra						
XXXX #3## Department Approved Elective						
PSYC 2301 Introduction to Psychology						
SECOND SEMESTER						
SCIT 1414 Applied General Chemistry I <u>OR</u>						
CHEM 1411 General Chemistry I						
BIOL 1406 General Biology I OR						
PHYS 1401 College Physics						
MATH 1342 Statistics						
XXXX #3## Humanities/Fine Arts General Ed. Elective						
THIRD SEMESTER						
SCIT 1543 Applied Analytical Chemistry						
SCIT 1415 Applied General Chemistry II <u>OR</u>						
CHEM 1412 General Chemistry II						
SECOND YEAR						
FIRST SEMESTER						
CTEC 1441 Applied Instrumental Analysis I						
SCIT 2401 Applied Organic Chemistry I <u>OR</u>						
CHEM 2423 Organic Chemistry I						
XXXX #4## Department Approved Program-Related Elective*						
(Continued on page 2)						

*Electives: PTAC 2314, PTAC 2334; GEOL 1403, GEOL 1404; CTEC 2441, CTEC 1349, CTEC 1345, CTEC 2443, CTEC 2445, CTEC 1401, EPTC 1427, EPTC 2414 or other department approved elective.

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CHEMICAL LABORATORY TECHNOLOGY- ASSOCIATE IN APPLIED SCIENCE

HCCS Course Requirement	Transfer / Substitution Institution	Substitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
SECOND SEMESTER				<i>This award is deactivated as of September 1, 2013.</i>		
SCIT 2402 Applied Organic Chemistry II <u>OR</u>				<i>New students will not be admitted into the program.</i>		
CHEM 2425 Organic Chemistry II				<i>The program is currently in teach-out status.</i>		
XXXX #3## Department Approved Program- Related Elective*						
CTEC 2381 Cooperative Education <u>OR</u>						
CTEC 2386 Internship-Chemical Technology/Tech. <u>OR</u>						
CTEC 2333 Comprehensive Studies in Chemical Technology						
CTEC 2431 Applied Instrumental Analysis II						

*Electives: PTAC 2314, PTAC 2334; GEOL 1403, GEOL 1404; CTEC 2441, CTEC 1349, CTEC 1345, CTEC 2443, CTEC 2445, CTEC 1401, EPTC 1427, EPTC 2414 or other department approved elective.

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CHEMICAL LABORATORY TECHNOLOGY - CERTIFICATE

HCCS Course Requirement	Transfer / Substitution Institution	Substitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
FIRST SEMESTER				<i>This award is deactivated as of September 1, 2013.</i>		
ENGR 1201 Introduction to Engineering				<i>New students will not be admitted into the program.</i>		
CTEC 1213 Introduction to Chemical Technology				<i>The program is currently in teach-out status.</i>		
MATH 1314 College Algebra						
SCIT 1414 Applied General Chemistry I OR						
CHEM 1411 General Chemistry I						
SECOND SEMESTER						
SCIT 2401 Applied Organic Chemistry I OR						
CHEM 2423 Organic Chemistry I						
SCIT 1543 Applied Analytical Chemistry						
THIRD SEMESTER						
SCIT 2402 Applied Organic Chemistry II OR						
CHEM 2425 Organic Chemistry II						
CTEC 1441 Applied Instrumental Analysis						

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CHEMICAL LABORATORY TECHNOLOGY - CERTIFICATE - POLYMER TECHNOLOGY SPECIALIZATION

HCCS Course Requirement	Transfer / Substitution Institution	Substitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
FIRST YEAR				<i>This award is deactivated as of September 1, 2013.</i>		
FIRST SEMESTER				<i>New students will not be admitted into the program.</i>		
ENGR 1201 Introduction to Engineering				<i>The program is currently in teach-out status.</i>		
CTEC 1213 Introduction to Chemical Technology						
MATH 1314 College Algebra						
CHEM 1411 General Chemistry I <i><u>OR</u></i>						
SCIT 1414 Applied General Chemistry I						
SECOND SEMESTER						
CHEM 2423 Organic Chemistry I <i><u>OR</u></i>						
SCIT 2401 Applied Organic Chemistry I						
CTEC 2441 Polymers I						
SCIT 1543 Applied Analytical Chemistry						
THIRD SEMESTER						
CTEC 1441 Applied Instrumental Analysis I						
CTEC 2443 Polymers II						

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DRAFTING AND DESIGN ENGINEERING TECHNOLOGY - AAS - GENERAL DRAFTING

HCCS Course Requirement	Transfer / Substitution Institution	Substitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
TSI testing is required prior to first enrollment.						
FIRST YEAR						
FIRST SEMESTER						
LEAD 1200 Workforce Development with Critical Thinking						
ENGL 1301 Composition I						
DFTG 1405 Technical Drafting						
DFTG 1309 Basic Computer-Aided Drafting						
MATH 1314 College Algebra						
SECOND SEMESTER						
DFTG 2319 Intermediate Computer-Aided Drafting						
DFTG 1358 Electrical/ Electronics Drafting <u>OR</u>						
DFTG 1329 Electro-Mechanical Drafting						
ENGL 2311 Technical and Industrial Correspondence and Report Writing <u>OR</u>						
ENGL 1302 Composition II						
DFTG 1333 Mechanical Drafting						
XXXX #3## Social/Behavioral Science Gen. Ed Elective						
SECOND YEAR						
FIRST SEMESTER						
DFTG 2302 Machine Drafting						
DFTG 2323 Pipe Drafting						
DFTG 1310 Specialized Basic Computer Aided Drafting (CAD)						
DFTG 2317 Descriptive Geometry						
MATH 1316 Plane Trigonometry						
SECOND SEMESTER						
DFTG 2330 Civil Drafting						
ARCE 1352 Structural Drafting						
DFTG 1317 Architectural Drafting- Residential						
DFTG 2335 Advanced Technologies in.Mechanical Design and Drafting <u>OR</u>						
DFTG #3## Drafting Elective						
XXXX #3## Humanities/Fine Arts General Ed. Elective						

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DRAFTING AND DESIGN ENGINEERING TECHNOLOGY - CERTIFICATE - GENERAL DRAFTING

HCCS Course Requirement	Transfer / Substitution Institution	Substitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
FIRST YEAR						
FIRST SEMESTER						
LEAD 1200 Workforce Development with Critical Thinking						
DFTG 1309 Basic Computer-Aided Drafting						
DFTG 1405 Technical Drafting						
SECOND SEMESTER						
DFTG 1358 Electrical/ Electronics Drafting <i>OR</i>						
DFTG 1329 Electro-Mechanical Drafting						
DFTG 2319 Intermediate Computer-Aided Drafting <i>OR</i>						
DFTG 1310 Specialized Basic Computer-Aided Drafting						
DFTG 1333 Mechanical Drafting						
DFTG 1317 Architectural Drafting- Residential						
THIRD SEMESTER						
DFTG 2323 Pipe Drafting						
DFTG 2330 Civil Drafting						
ARCE 1352 Structural Drafting						

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DRAFTING AND DESIGN ENGINEERING TECHNOLOGY - AAS - ARCHITECTURAL DRAFTING SPECIALIZATION

HCCS Course Requirement	Transfer / Substitution Institution	Substitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
TSI testing is required prior to first enroll.						
FIRST YEAR						
FIRST SEMESTER						
LEAD 1200 Workforce Development with Critical Thinking						
ENGL 1301 Composition I						
DFTG 1405 Technical Drafting						
DFTG 1309 Basic Computer-Aided Drafting						
MATH 1314 College Algebra						
SECOND SEMESTER						
DFTG 2319 Intermediate Computer-Aided Drafting						
DFTG 1317 Architectural Drafting-Residential						
XXXX #3## Social/Behavioral Science Gen. Ed Elective						
MATH 1316 Plane Trigonometry						
ARCE 1352 Structural Drafting						
SECOND YEAR						
FIRST SEMESTER						
XXXX #3## Humanities/Fine Arts General Ed. Elective						
DFTG 2300 Intermediate Architectural Drafting-Residential						
ENGL 2311 Technical and Industrial Correspondence and Report Writing <u>OR</u>						
ENGL 1302 Composition II						
DFTG 1392 Special Topics in Architectural Drafting and Architectural CAD/CADD						
DFTG 1376 Revit Residential						
SECOND SEMESTER						
DFTG 2331 Advanced Technologies in Architectural Design and Drafting						
ARCE 2352 Mechanical and Electrical Systems						
DFTG 2330 Civil Drafting						
DFTG 2328 Architectural Drafting- Commercial Residential						
DFTG #3## Drafting Elective						

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DRAFTING AND DESIGN ENGINEERING TECHNOLOGY - CERTIFICATE - ARCHITECTURAL DRAFTING SPECIALIZATION

HCCS Course Requirement	Transfer / Substitution Institution	Substitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
FIRST YEAR						
FIRST SEMESTER						
LEAD 1200 Workforce Development with Critical Thinking						
DFTG 1309 Basic Computer-Aided Drafting						
DFTG 1405 Technical Drafting						
SECOND SEMESTER						
ARCE 1352 Structural Drafting						
DFTG 1317 Architectural Drafting-Residential						
DFTG 2319 Intermediate Computer-Aided Drafting						
DFTG 2328 Architectural Drafting- Commercial						
THIRD SEMESTER						
DFTG 1376 Revit Residential						
DFTG 2330 Civil Drafting						
ARCE 2352 Mechanical and Electrical Systems						

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

HCCS Course Requirement	Transfer / Substitution Institution	Substitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
TSI testing is required prior to first enrollment.						
FIRST YEAR						
FIRST SEMESTER						
LEAD 1200 Workforce Development with Critical Thinking						
ENGL 1301 Composition I						
DFTG 1405 Technical Drafting						
DFTG 1309 Basic Computer-Aided Drafting						
MATH 1314 College Algebra						
SECOND SEMESTER						
DFTG 2319 Intermediate Computer-Aided Drafting						
SRVY 1301 Introduction to Surveying <u>OR</u>						
DFTG #3## Drafting Elective						
DFTG 2317 Descriptive Geometry						
DFTG 2330 Civil Drafting						
XXXX #3## Social/Behavioral Science/Gen. Ed. Elective						
SECOND YEAR						
FIRST SEMESTER						
SRVY 1341 Land Surveying						
DFTG 2321 Topographical Drafting						
DFTG 1310 Specialized Basic Computer Aided Drafting						
ENGL 2311 Technical and Industrial Correspondence and Report Writing <u>OR</u>						
ENGL 1302 Composition II						
ARCE 1352 Structural Drafting						
SECOND SEMESTER						
MATH 1316 Plane Trigonometry						
DFTG 2370 Intermediate CAD (Microstation)						
XXXX #3## Humanities/Fine Arts General Ed. Elective						
SRVY 2348 Plane Surveying						
DFTG 1393 Special Topics in Civil Drafting and Civil Engineering CAD/CADD						

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DRAFTING AND DESIGN ENGINEERING TECHNOLOGY - CERTIFICATE - CIVIL DESIGN DRAFTING SPECIALIZATION

HCCS Course Requirement	Transfer / Substitution Institution	Substitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
FIRST YEAR						
FIRST SEMESTER						
LEAD 1200 Workforce Development with Critical Thinking						
DFTG 1309 Basic Computer-Aided Drafting						
DFTG 1405 Technical Drafting						
SECOND SEMESTER						
DFTG 1310 Specialized Basic Computer Aided Drafting						
DFTG 2319 Intermediate Computer-Aided Drafting						
SRVY 1301 Introduction to Surveying						
ARCE 1352 Structural Drafting						
THIRD SEMESTER						
SRVY 1341 Land Surveying						
DFTG 1393 Special topics in Civil Drafting and Civil Engineering						
DFTG 2330 Civil Drafting						

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

HCCS Course Requirement	Transfer / Substitution Institution	Substitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
TSI testing is required prior to first enroll.						
FIRST YEAR						
FIRST SEMESTER						
LEAD 1200 Workforce Development with Critical Thinking						
ENGL 1301 Composition I						
DFTG 1405 Technical Drafting						
DFTG 1309 Basic Computer-Aided Drafting						
MATH 1314 College Algebra						
SECOND SEMESTER						
DFTG 1333 Mechanical Drafting						
DFTG 2319 Intermediate Computer-Aided Drafting						
XXXX #3## Humanities/Fine Arts General Ed. Elective						
DFTG 1329 Electro-mechanical Drafting						
MATH 1316 Plane Trigonometry						
SECOND YEAR						
FIRST SEMESTER						
DFTG 1310 Specialized Basic Computer Aided Drafting (CAD)						
DFTG 2317 Descriptive Geometry						
DFTG 1358 Electrical/Electronics Drafting						
DFTG 2302 Machine Drafting						
XXXX #3## Social/Behavioral Science Gen. Ed Elective						
SECOND SEMESTER						
DFTG 2306 Machine Design						
DFTG 2335 Advanced Technologies in Mechanical Design and Drafting <u>OR</u>						
DFTG 2340 Solid Modeling/Design						
DFTG 2305 Printed Circuit Board Design <u>OR</u>						
DFTG #3## Drafting Elective						
ENGL 2311 Technical and Industrial Correspondence and Report Writing <u>OR</u>						
ENGL 1302 Composition II						
DFTG 2358 Advanced Machine Design						

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DRAFTING AND DESIGN ENGINEERING TECHNOLOGY - CERTIFICATE - ELECTRO-MECHANICAL DESIGN SPECIALIZATION

HCCS Course Requirement	Transfer / Substitution Institution Course		Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
FIRST YEAR						
FIRST SEMESTER						
LEAD 1200 Workforce Development with Critical Thinking						
DFTG 1309 Basic Computer-Aided Drafting						
DFTG 1405 Technical Drafting						
SECOND SEMESTER						
DFTG 1310 Specialized Basic Computer Aided Drafting (CAD)						
DFTG 2319 Intermediate Computer-Aided Drafting						
DFTG 1333 Mechanical Drafting						
DFTG 1358 Electrical/Electronics Drafting						
THIRD SEMESTER						
DFTG 2302 Machine Drafting						
DFTG 2335 Advanced Technologies in Mechanical Design and Drafting <i>OR</i>						
DFTG 2340 Solid Modeling/Design						
DFTG 1329 Electromechanical Drafting						

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

HCCS Course Requirement	Transfer / Substitution Institution	Substitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
TSI testing is required prior to first enrollment.						
FIRST YEAR						
FIRST SEMESTER						
LEAD 1200 Workforce Development with Critical Thinking						
ENGL 1301 Composition I						
DFTG 1405 Technical Drafting						
DFTG 1309 Basic Computer-Aided Drafting						
MATH 1314 College Algebra						
SECOND SEMESTER						
DFTG 2319 Intermediate Computer-Aided Drafting						
XXXX #3## Humanities/Fine Arts General Ed. Elective						
DFTG 2323 Pipe Drafting						
DFTG 1333 Mechanical Drafting						
DFTG 2317 Descriptive Geometry						
SECOND YEAR						
FIRST SEMESTER						
DFTG 1310 Specialized Basic Computer Aided Drafting (CAD)						
DFTG 2308 Instrumentation Drafting						
DFTG 2330 Civil Drafting						
MATH 1316 Plane Trigonometry						
XXXX #3## Social/Behavioral Science General Ed. Elective						
SECOND SEMESTER						
ENGL 2311 Technical and Industrial Correspondence and Report Writing OR						
ENGL 1302 Composition II						
DFTG 2340 Solid Modeling Design OR						
XXXX #3## Elective						
DFTG 2345 Advanced Pipe Drafting						
DFTG 2373 Piping Design Management Systems (PDMS)						
ARCE 1352 Structural Drafting						

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DRAFTING AND DESIGN ENGINEERING TECHNOLOGY - CERTIFICATE - PIPING DESIGN DRAFTING SPECIALIZATION

HCCS Course Requirement	Transfer / Substitution Institution	Substitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
FIRST YEAR						
FIRST SEMESTER						
LEAD 1200 Workforce Development with Critical Thinking						
DFTG 1309 Basic Computer-Aided Drafting						
DFTG 1405 Technical Drafting						
SECOND SEMESTER						
DFTG 2319 Intermediate Computer-Aided Drafting						
DFTG 2323 Pipe Drafting						
DFTG 1333 Mechanical Drafting						
ARCE 1352 Structural Drafting						
THIRD SEMESTER						
DFTG 2308 Instrumentation Drafting						
DFTG 1396 Special Topics in Computer Graphics <u>OR</u>						
DFTG 2371 Advanced Technologies in Process Plant Design (Autoplant)						
DFTG 2345 Advanced Pipe Drafting						

Updated:
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HOUSTON COMMUNITY COLLEGE SYSTEM EDUCATIONAL PLAN/TRANSFER SUBSTITUTION PETITION

NAME:	SS#:	DATE:
COLLEGE:	COUNSELOR/ADVISOR:	CATALOG YEAR: 13-14

COMPUTER AIDED DRAFTING - DESIGNER - CERTIFICATE - ARCHITECTURAL DRAFTING SPECIALIZATION

HCCS Course Requirement	Transfer / Substitution Institution	Substitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
<i>This certificate will be deactivated as of September 1, 2011.</i>						
<i>No new students will be admitted into the program.</i>						
TSI testing is required prior to first enroll						
FIRST YEAR						
FIRST SEMESTER						
ENGR 1201 Introduction to Engineering						
DFTG 1405 Technical Drafting						
DFTG 1309 Basic Computer- Aided Drafting						
SECOND SEMESTER						
DFTG 1317 Architectural Drafting- Residential						
ARCE 1352 Structural Drafting						
THIRD SEMESTER						
DFTG 2300 Intermediate Architectural Drafting- Residential						
DFTG 2328 Architectural Drafting- Commercial						

NAME: _____ **SS#:** _____ **DATE:** _____
COLLEGE: _____ **COUNSELOR/ADVISOR:** _____ **CATALOG YEAR: 13-14**

COMPUTER AIDED DRAFTING - DESIGNER - CERTIFICATE - ELECTRO - MECHANICAL DRAFTING SPECIALIZATION

HCCS Course Requirement	Transfer / Substitution Institution	Substitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
<i>This certificate will be deactivated as of September 1, 2011.</i>						
<i>No new students will be admitted into the program.</i>						
TSI testing is required prior to first enrollment.						
FIRST YEAR						
FIRST SEMESTER						
ENGR 1201 Introduction to Engineering						
DFTG 1405 Technical Drafting						
DFTG 1309 Basic Computer- Aided Drafting						
SECOND SEMESTER						
DFTG 1333 Mechanical Drafting						
DFTG 1358 Electrical/ Electronics Drafting						
THIRD SEMESTER						
DFTG 1329 Electro- Mechanical Drafting						
DFTG 2305 Printed Circuit Board Design						

Updated:
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**HOUSTON COMMUNITY COLLEGE SYSTEM
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NAME:	SS#:	DATE:
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COMPUTER AIDED DRAFTING - DESIGNER - CERTIFICATE- MECHANICAL DRAFTING SPECIALIZATION

HCCS Course Requirement	Transfer / Substitution Institution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
<i>This certificate will be deactivated as of September 1, 2011. No new students will be admitted into the program.</i>					
TSI testing is required prior to first enroll.					
FIRST YEAR					
FIRST SEMESTER					
ENGR 1201	Introduction to Engineering				
DFTG 1405	Technical Drafting				
DFTG 1309	Basic Computer- Aided Drafting				
SECOND SEMESTER					
DFTG 1333	Mechanical Drafting				
DFTG 2302	Machine Drafting				
THIRD SEMESTER					
DFTG 1329	Electro - Mechanical Drafting				
DFTG 2306	Machine Design				

Updated:
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HOUSTON COMMUNITY COLLEGE SYSTEM EDUCATIONAL PLAN/TRANSFER SUBSTITUTION PETITION

NAME:	SS#:	DATE:
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COMPUTER AIDED DRAFTING - DESIGNER - CERTIFICATE - PIPING DRAFTING SPECIALIZATION

HCCS Course Requirement	Transfer / Substitution Institution	Substitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
<i>This certificate will be deactivated as of September 1, 2011.</i>						
<i>No new students will be admitted into the program.</i>						
TSI testing is required prior to first enrollment.						
FIRST YEAR						
FIRST SEMESTER						
ENGR 1201 Introduction to Engineering						
DFTG 1405 Technical Drafting						
DFTG 1309 Basic Computer- Aided Drafting						
SECOND SEMESTER						
DFTG 2323 Pipe Drafting						
DFTG 2308 Instrumentation Drafting						
THIRD SEMESTER						
ARCE 1352 Structural Drafting						
DFTG 2345 Advanced Pipe Drafting						

**HOUSTON COMMUNITY COLLEGE SYSTEM
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NAME:	SS#:	DATE:
COLLEGE:	COUNSELOR/ADVISOR:	CATALOG YEAR: 13-14

ELECTRONICS ENGINEERING TECHNOLOGY - AAS - BIOMEDICAL ELECTRONICS SPECIALIZATION

HCCS Course Requirement	Transfer / Substitution Institution	Substitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
TSI testing is required prior to first enrollment.						
FIRST YEAR						
FIRST SEMESTER						
LEAD 1200 Workforce Development with Critical Thinking						
MATH 1314 College Algebra						
CETT 1321 Electronic Fabrication						
CPMT 1449 Computer Networking Technology						
SECOND SEMESTER						
CETT 1403 DC Circuits						
CETT 1425 Digital Fundamentals						
MATH 1316 Plane Trigonometry						
XXXX #3## Social/Behavioral Science General Ed. Elective						
ENGL 2311 Technical and Industrial Correspondence and Report Writing						
THIRD SEMESTER						
PHYS 1401 College Physics I						
XXXX #3## Humanities/Fine Arts General Ed. Elective						
SECOND YEAR						
FIRST SEMESTER						
CETT 1405 AC Circuits						
CETT 1429 Solid State Devices						
BIOM 1309 Applied Biomedical Equipment Technology						
CETT 1331 Programming for Discrete Electronic Devices						
SECOND SEMESTER						
BIOM 2331 Biomedical Clinical Instrumentation						
MDCA 1313 Medical Terminology						
BIOM 2489 Internship - Biomedical Technology/Technician						
CETT 1457 Linear Integrated Circuits						

**HOUSTON COMMUNITY COLLEGE SYSTEM
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NAME:	SS#:	DATE:
COLLEGE:	COUNSELOR/ADVISOR:	CATALOG YEAR: 13-14

ELECTRONICS ENGINEERING TECHNOLOGY - AAS - ELECTRICAL POWER TECHNOLOGY SPECIALIZATION

HCCS Course Requirement	Transfer / Substitution Institution	Substitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
TSI testing is required prior to first enrollment.						
FIRST YEAR						
FIRST SEMESTER						
LEAD 1200 Workforce Development with Critical Thinking						
EDUC 1300 <i>or</i> Learning Framework						
MATH 1314 College Algebra						
CETT 1321 Electronic Fabrication						
CPMT 1449 Computer Networking Technology						
SECOND SEMESTER						
CETT 1403 DC Circuits						
CETT 1425 Digital Fundamentals						
MATH 1316 Plane Trigonometry						
XXXX #3## Social/Behavioral Science General Ed. Elective						
ENGL 2311 Technical and Industrial Correspondence and Report Writing						
THIRD SEMESTER						
PHYS 1401 College Physics I						
XXXX #3## Humanities/Fine Arts General Ed. Elective						
SECOND YEAR						
FIRST SEMESTER						
CETT 1405 AC Circuits						
CETT 1429 Solid State Devices						
CETT 1331 Programming for Discrete Electronic Devices						
RBTC 1301 Programmable Logic Controllers						
SECOND SEMESTER						
XXXX #4## Program - Related Elective						
ELPT 1451 Electrical Machines						
CETT 1457 Linear Integrated Circuits						

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NAME:	SS#:	DATE:
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ELECTRONICS ENGINEERING TECHNOLOGY - AAS - COMPUTER ENGINEERING TECHNOLOGY SPECIALIZATION

HCCS Course Requirement	Transfer / Substitution Institution	Substitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
TSI testing is required prior to first enrollment.						
FIRST YEAR						
FIRST SEMESTER						
LEAD 1200 Workforce Development with Critical Thinking						
ENGL 1301 Composition I						
MATH 1314 College Algebra						
CETT 1321 Electronic Fabrication						
CPMT 1449 Computer Networking Technology						
SECOND SEMESTER						
CETT 1403 DC Circuits						
CETT 1425 Digital Fundamentals						
MATH 1316 Plane Trigonometry						
XXXX #3## Social/Behavioral Science General Ed. Elective						
ENGL 2311 Technical and Industrial Correspondence and Report Writing						
THIRD SEMESTER						
PHYS 1401 College Physics I						
XXXX #3## Program - Related Elective						
SECOND YEAR						
FIRST SEMESTER						
CETT 1405 AC Circuits						
CETT 1429 Solid State Devices						
CETT 1331 Programming for Discrete Electronic Devices						
XXXX #3## Humanities/Fine Arts General Ed. Elective						
SECOND SEMESTER						
CETT 1445 Microprocessor						
XXXX #4## Program - Related Elective						
CETT 1457 Linear Integrated Circuits**						

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

HOUSTON COMMUNITY COLLEGE SYSTEM EDUCATIONAL PLAN/TRANSFER SUBSTITUTION PETITION

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NAME:	SS#:	DATE:
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ELECTRONICS ENGINEERING TECHNOLOGY - CERTIFICATE - BASIC ELECTRONICS

HCCS Course Requirement	Transfer / Substitution Institution	Substitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
TSI testing is required prior to first enrollment.						
FIRST SEMESTER						
LEAD 1200 Workforce Development with Critical Thinking						
MATH 1314 College Algebra						
CETT 1321 Electronic Fabrication						
CPMT 1449 Computer Networking Technology						
SECOND SEMESTER						
CETT 1403 DC Circuits						
CETT 1425 Digital Fundamentals						
MATH 1316 Plane Trigonometry						
THIRD SEMESTER						
CETT 1405 AC Circuits						
CETT 1429 Solid State Devices**						
CPMT Introduction to Computer Technology						
XXXX #4## Program Related Elective						
XXXX #4## Program Related Elective						

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COLLEGE:	COUNSELOR/ADVISOR:	CATALOG YEAR: 13-14

ELECTRONICS ENGINEERING TECHNOLOGY - CERTIFICATE - COMPUTER SERVICING/NETWORKS SPECIALIZATION						
HCCS Course Requirement	Transfer / Substitution Institution	Substitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
FIRST SEMESTER						
LEAD 1200 Workforce Development with Critical Thinking						
CETT 1321 Electronic Fabrication						
TECM 1301 Industrial Mathematics						
XXXX #4## Program-Related Elective						
SECOND SEMESTER						
XXXX #4## Program-Related Elective						
XXXX #4## Program-Related Elective						
CPMT 1303 Introduction to Computer Technology						
CPMT 1449 Computer Networking Technology**						

The **capstone course is CPMT 1449 Computer Networking Technology.

NAME:	SS#:	DATE:
COLLEGE:	COUNSELOR/ADVISOR:	CATALOG YEAR: 13-14

ELECTRONICS ENGINEERING TECHNOLOGY - CERTIFICATE - NETWORK SECURITY

HCCS Course Requirement	Transfer / Substitution Institution	Substitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
TSI testing is required prior to first enrollment.						
FIRST SEMESTER						
ENGR 1201 Introduction to Engineering						
CPMT 1303 Introduction to Computer Technology						
CPMT 1411 Introduction to Computer Maintenance						
ITCC 1401 Exploration-Network Fundamentals						
SECOND SEMESTER						
ITSY 1300 Fundamentals of Information Security						
ITNW 1351 Fundamentals of Wireless LANs						
CPMT 2449 Advanced Computer Networking Technology						
ITCC 1404 Cisco Expl. 2-Routing Protocols & Concepts						
THIRD SEMESTER						
XXXX #3## Department Approved Elective						
XXXX #3## Department Approved Elective						
CPMT 2434 Network Security						
<i>This certificate is deactivated as of September 1, 2011.</i>						
<i>No new students will be admitted into the program.</i>						

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NAME:	SS#:	DATE:
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ENGINEERING TECHNOLOGY - SUSTAINABLE AND RENEWABLE ENERGY - AAS

HCCS Course Requirement	Transfer / Substitution Institution	Substitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
TSI testing is required prior to first enroll.						
FIRST YEAR						
FIRST SEMESTER						
LEAD 1200 Workforce Development with Critical Thinking						
CPMT 1303 Introduction to Computer Technology						
PTAC 1302 Introduction to Process Technology						
SECOND SEMESTER						
PTRT 1301 Introduction to Petroleum Industry						
SOLR 1370 Principles of Solar Photovoltaic						
WIND 1300 Introduction to Wind Energy						
CPMT 1449 Computer Networking Technology						
THIRD SEMESTER						
PTRT 1470 Petroleum Data Management I - Exploration						
PTRT 1370 Petroleum Geology						
SECOND YEAR						
FIRST SEMESTER						
PTAC 1308 Safety, Health, and Environment I						
PTAC 1354 Industrial Processes						
ENGL 1301 Composition I						
SCIT 1414 Applied General Chemistry I <i>OR</i>						
CHEM 1411 General Chemistry I						
SECOND SEMESTER						
PTRT 1471 Exploration and Production I						
XXXX #3## Social/Behavioral Science/General Education Elective						
PTAC 1350 Industrial Economics						
PHYS 1401 College Physics I <i>OR</i>						
SCIT 1418 Applied Physics						
THIRD SEMESTER						
MATH 1314 College Algebra <i>OR</i>						
TECM 1301 Industrial Mathematics						
XXXX #3## Arts/Humanities/General Education Elective						

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NAME:	SS#:	DATE:
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INSTRUMENTATION AND CONTROLS ENGINEERING TECHNOLOGY - ASSOCIATE IN APPLIED SCIENCE

HCCS Course Requirement	Transfer / Substitution Institution	Substitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
TSI testing is required prior to first enroll.						
FIRST YEAR						
FIRST SEMESTER						
LEAD 1200 Workforce Development with Critical Thinking						
INTC 1312 Instrumentation and Safety						
PTAC 1308 Safety, Health, and Environment I						
CETT 1403 DC Circuits						
MATH 1314 College Algebra						
SECOND SEMESTER						
INTC 1456 Instrumentation Calibration						
SPCH #3## Speech Elective						
MATH 1316 Trigonometry						
INTC 1441 Principles of Automatic Control						
CPMT 1449 Computer Networking Technology OR						
ITNW 1425 Fundamentals of Networking Technologies OR						
ITCC 1401 Cisco Exploration I - Networking Fundamentals						
SECOND YEAR						
FIRST SEMESTER						
INTC 1343 Application of Industrial Automatic Controls						
INTC 2330 Instrumentation Systems Troubleshooting						
XXXX #3## Program Related Elective						
PHYS 1401 College Physics						
SECOND SEMESTER						
XXXX #3## Humanities/Fine Arts General Ed. Elective						
XXXX #3## Social/Behavioral Science General Ed. Elective						
RBTC 1301 Programmable Logic Controllers						
INTC 2370 Linking Process Control Systems						
INTC 2336 Distributed Control & Programmable Logic OR						
INTC 2380 Cooperative Education-Instrumentation Technology/Technician						

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

HOUSTON COMMUNITY COLLEGE SYSTEM EDUCATIONAL PLAN/TRANSFER SUBSTITUTION PETITION

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NAME:	SS#:	DATE:
COLLEGE:	COUNSELOR/ADVISOR:	CATALOG YEAR: 13-14

INSTRUMENTATION AND CONTROLS ENGINEERING TECHNOLOGY - CERTIFICATE

HCCS Course Requirement	Transfer / Substitution Institution	Substitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
TSI testing is required prior to first enroll.						
FIRST YEAR						
FIRST SEMESTER						
LEAD 1200 Workforce Development with Critical Thinking						
INTC 1312 Instrumentation and Safety						
PTAC 1308 Safety, Health, and Environment I						
CETT 1403 DC Circuits						
MATH 1314 College Algebra						
SECOND SEMESTER						
INTC 1456 Instrumentation Calibration						
INTC 1441 Principles of Automatic Control						
MATH 1316 Trigonometry						
THIRD SEMESTER						
INTC 1343 Application of Industrial Automatic Controls						
RBTC 1301 Programmable Logic Controllers						
INTC 2370 Linking Process Control Systems						
INTC 2336 Distributed Control and Programmable Logic						
XXXX #4## Approved Departmental Elective						

NAME:	SS#:	DATE:
COLLEGE:	COUNSELOR/ADVISOR:	CATALOG YEAR: 13-14

INSTRUMENTATION AND CONTROLS ENGINEERING TECHNOLOGY - CERTIFICATE: SOLAR ENERGY TECHNOLOGY - PHOTOVOLTAIC

HCCS Course Requirement	Transfer / Institution	Substitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
FIRST YEAR						
FIRST SEMESTER						
LEAD 1200 Workforce Development with Critical Thinking						
SOLR 1370 Principles of Solar Photovoltaic						
SOLR 1371 Solar Safety Operations						
MATH 1314 College Algebra						
SOLR 1372 Off-Grid Solar Energy						
SECOND SEMESTER						
SCIT 1418 Applied Physics						
SOLR 1470 PV Installation Maintenance & Troubleshooting						
ELPT 1457 Industrial Wiring						
SOLR 1373 Solar Energy Systems						
THIRD SEMESTER						
ELPT 1364 Practicum-Electrical and Power Transmission Installation/Installer, General <u>OR</u>						
ELPT 1391 Special Topics in Electrical and Power Transmission Installer, General						
SOLR 1471 Photovoltaic Electrical Systems						

Updated:
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**HOUSTON COMMUNITY COLLEGE SYSTEM
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NAME:	SS#:	DATE:
COLLEGE:	COUNSELOR/ADVISOR:	CATALOG YEAR: 13-14

INSTRUMENTATION AND CONTROLS ENGINEERING TECHNOLOGY-CERTIFICATE: SOLAR ENERGY TECHNOLOGY-THERMAL

HCCS Course Requirement	Transfer / Substitution Institution	Substitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
FIRST YEAR						
FIRST SEMESTER						
LEAD 1200 Workforce Development with Critical Thinking						
SOLR 1374 Principles of Solar Thermal Technology						
SOLR 1371 Solar Safety Operations						
MATH 1314 College Algebra						
SECOND SEMESTER						
SCIT 1418 Applied Physics						
SOLR 1372 Off-Grid Solar Energy						
CNBT 1302 Mechanical, Plumbing & Electrical Systems in Construction I						
THIRD SEMESTER						
ELPT 1364 Practicum-Electrical and Power Transmission Installation/Installer, General OR						
ELPT 1391 Special Topics in Electrical and Power Transmission Installer, General						
SOLR 1472 Solar Thermal Installation Maintenance and Troubleshooting						

Updated:
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HOUSTON COMMUNITY COLLEGE SYSTEM
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COLLEGE:	COUNSELOR/ADVISOR:	CATALOG YEAR: 13-14

INSTRUMENTATION AND CONTROLS ENGINEERING TECHNOLOGY - CERTIFICATE: WIND ENERGY TECHNOLOGY

HCCS Course Requirement	Transfer / Substitution Institution	Substitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
FIRST YEAR						
FIRST SEMESTER						
LEAD 1200 Workforce Development with Critical Thinking						
CETT 1402 Electricity Principles						
WIND 1300 Introduction to Wind Energy						
CETT 1409 DC-AC Circuits						
MATH 1314 College Algebra						
SECOND SEMESTER						
WIND 2310 Wind Turbine Materials and Electro-Mechanical Equipment						
ELMT 1305 Basic Fluid Power						
SCIT 1418 Applied Physics						
ENGL 1301 Composition I						
WIND 1302 Wind Safety						
THIRD SEMESTER						
WIND 2459 Wind Power Delivery System						

**HOUSTON COMMUNITY COLLEGE SYSTEM
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NAME:	SS#:	DATE:
COLLEGE:	COUNSELOR/ADVISOR:	CATALOG YEAR: 13-14

PETROLEUM ENGINEERING TECHNOLOGY - ASSOCIATE IN APPLIED SCIENCE

HCCS Course Requirement	Transfer / Substitution Institution	Substitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
TSI testing is required prior to first enrollment.						
FIRST YEAR						
FIRST SEMESTER						
LEAD 1200 Workforce Development with Critical Thinking						
PTRT 1301 Introduction to Petroleum Industry						
MATH 1314 College Algebra						
XXXX #3## General Education Elective						
CPMT 1303 Introduction to Computer Technology						
PTAC 1308 Safety, Health, and Environment I						
SECOND SEMESTER						
PTRT 1470 Petroleum Data Management I- Exploration						
PTRT 1370 Petroleum Geology						
THIRD SEMESTER						
PTRT 1472 Petroleum Data Management II- Drilling and Production						
PTRT 2373 Principles of Enhanced Oil and Gas Recovery and Hydraulic Fracturing						
SECOND YEAR						
FIRST SEMESTER						
PTRT 1473 Exploration and Production II						
MATH 1325 Elements of Calculus with Applications						
PTRT 2370 Petroleum Operations						
XXXX #3## Approved Humanities/ Fine Arts General Ed. Elective						
XXXX #3## General Education Elective						
(Continued on Page 2)						

**HOUSTON COMMUNITY COLLEGE SYSTEM
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NAME:	SS#:	DATE:
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PETROLEUM ENGINEERING TECHNOLOGY - ASSOCIATE IN APPLIED SCIENCE

HCCS Course Requirement	Transfer / Substitution Institution	Substitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
(Continued from Page 1)						
SECOND SEMESTER						
PTRT 2331 Well Completions						
XXXX #3## Approved Social/ Behavioral Science General Education. Elective						
PTRT 2423 Natural Gas Production						
THIRD SEMESTER						
PTRT 2372 Internship/ Petroleum Technology/ Technician**						
PTRT 2470 Petroleum Data Management III- Facilities and Performance						

The **capstone course is PTRT 2372 - Internship/Petroleum Technology/Technician.

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COLLEGE:	COUNSELOR/ADVISOR:	CATALOG YEAR: 13-14

PETROLEUM ENGINEERING TECHNOLOGY - CERTIFICATE - LEVEL I

HCCS Course Requirement	Transfer / Substitution Institution	Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
FIRST YEAR						
FIRST SEMESTER						
LEAD 1200		Workforce Development with Critical Thinking				
PTRT 1301		Introduction to Petroleum Industry				
TECM 1301		Industrial Mathematics				
PTAC 1308		Safety, Health, and Environment I				
CPMT 1303		Introduction to Computer Technology				
SECOND SEMESTER						
PTRT 1470		Petroleum Data Management I- Exploration				
PTAC 1354		Industrial Processes				
PTRT 1471		Exploration and Production I				
PTRT 1370		Petroleum Geology				
THIRD SEMESTER						
PTRT 1472		Petroleum Data Management II- Drilling and Production				
PTRT 2372		Internship - Petroleum Technology/Technician				

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PETROLEUM ENGINEERING TECHNOLOGY - OFFSHORE DRILLING TECHNICIAN - CERTIFICATE

HCCS Course Requirement	Transfer / Substitution Institution	Substitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
FIRST YEAR						
FIRST SEMESTER						
LEAD 1200 Workforce Development with Critical Thinking						
PTRT 1301 Introduction to Petroleum Industry						
PTAC 1308 Safety, Health, and Environment I						
SECOND SEMESTER						
PTRT 1403 Drilling						
PTRT 2331 Well Completions						
PTRT 1321 Oil Field Hydraulics						
THIRD SEMESTER						
PTRT 2372 Internship - Petroleum Technology/Technician						

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NAME:	SS#:	DATE:
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PROCESS TECHNOLOGY - ASSOCIATE IN APPLIED SCIENCE

HCCS Course Requirement	Transfer / Substitution Institution	Substitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
TSI testing is required prior to first enrollment.						
FIRST YEAR						
FIRST SEMESTER						
LEAD 1200 Workforce Development with Critical Thinking						
PTAC 1302 Introduction to Process Technology						
ENGL 1301 Composition I						
MATH 1314 College Algebra						
PTAC 1308 Safety, Health and Environment I						
XXXX #3## Social/Behavioral Science/General Education Elective						
SECOND SEMESTER						
SCIT 1418 Applied Physics <u>OR</u>						
PHYS 1401 College Physics						
SCIT 1414 Applied General Chemistry I <u>OR</u>						
CHEM 1411 General Chemistry I						
PTAC 1410 Process Technology I - Equipment						
PTAC 1332 Process Instrumentation I						
SECOND YEAR						
FIRST SEMESTER						
SPCH 1311 Introduction to Speech Communication						
PTAC 2314 Principles of Quality						
PTAC 2420 Process Technology II - Systems						
PTAC 1354 Industrial Processes						
CPMT 1303 Introduction to Computer Technology						
SECOND SEMESTER						
PTAC 2438 Operations - PT III						
PTAC 1350 Industrial Economics						
XXXX #3## Approved Humanities/Fine Arts General Ed. Elective						
PTAC 2446 Process Troubleshooting						

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PROCESS TECHNOLOGY - CERTIFICATE - PROCESS OPERATOR

HCCS Course Requirement	Transfer / Substitution Institution	Substitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
FIRST SEMESTER						
LEAD 1200 Workforce Development with Critical Thinking						
PTAC 1302 Introduction to Process Technology						
PTAC 1308 Safety, Health and Environment I						
PTAC 1410 Process Technology I - Equipment						
TECM 1301 Industrial Mathematics						
SECOND SEMESTER						
PTAC 1332 Process Instrumentation I						
PTAC 2420 Process Technology II - Systems						
PTAC 2314 Principles of Quality						
SCIT 1414 Applied General Chemistry I <i>OR</i>						
CHEM 1411 General Chemistry I						
THIRD SEMESTER						
PTAC 2438 Process Technology III - Operations**						
PTAC 2446 Process Troubleshooting						

The **capstone course is PTAC 2438 - Process Technology III - Operations.