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

CLICK ON YOUR PLAN. GO TO THAT PAGE.



BIOTECHNOLOGY	ELECTRONICS ENGINEERING TECHNOLOGY
Biotechnology - AAS	Biomedical Electronics Specialization - AAS
CHEMICAL LABORATORY TECHNOLOGY	Environmental Control Technologies
Chemical Laboratory Technology - AAS	Engineering Technology - Sustainable and Renewable Energy - AAS 30 Engineering Technology - Sustainable and Renewable Energy - CERT 31  Instrumentation and Controls Engineering Technology  Instrumentation and Controls Engineering Technology
DRAFTING AND DESIGN ENGINEERING TECHNOLOGY	Instrumentation and Controls Engineering Technology - <b>AAS</b>
General Drafting - AAS	Solar Energy Technology: Photovoltaic - CERT
CAD - Designer - Architectural Drafting Specialization - <b>CERT</b> 19 CAD - Designer - Electro - Mechanical Drafting Specialization - <b>CERT</b> 20	
CAD - Designer - Mechanical Drafting Specialization - CERT	
CAD - Designer - Piping Drafting Specialization - CERT	
CAD - Designer - Basic Piping Drafting - MSA	UPDATED: 09/23/2014
	UPDATED: 09/23/2014

Updat	ed: 7/2	2/2013	HOUST	ON COM	MUNITY CO	OLLEGE SYSTEM		Page 1 of 1
F	A	VA EDUC	ATIONAL	PLAN/T	RANSFER S	SUBSTITUTION PETITION		rage rorr
NAMI	E:			SS#:				
COLL	EGE:				COUNSELOR	/ADVISOR:	CATALOG YE	AR: 13-14
		В	BIOTECHN	OLOGY-	ASSOCIATE I	N APPLIED SCIENCE		
		HCCS Course Requirement	Transfer / S	ubstitutior	Substitute (SU)	Comment/Disapproval	Approval	Date
		· ·	Institution	Course	Transfer (TR)	,	Signature	
TSI testi	ing is req	uired prior to first enrollment.				This award is deactivated as of June 1, 2013.		
FIRST	YEAR					New students will not be admitted into the program.		
FIRST	SEMES	STER				The program is currently in teach-out status.		
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 <b>OR</b>						
CHEM	1411	General Chemistry I						
Seco	ND SEN	MESTER						
BITC	2411	Biotechnology Laboratory Instrumentation						
BIOL	1406	General Biology I						
ENGL	1301	Composition I						
BITC	1370	Introduction to Biochemistry						
	SEME							
SCIT	2401	Applied Organic Chemistry I <u>OR</u>						
CHEM	2423	Organic Chemistry I						
XXXX	#3##	Social/Behavioral Science General Ed. Elective						
SECO	ND YE	AR						
FIRST	SEMES	STER						
BITC		Cell Culture Techniques						
BITC	2441	Molecular Biology Techniques						
BIOL	2420	Microbiology						
BIOL	2401	Anatomy and Physiology I <u>OR</u>						
SCIT	1407	Applied Human Anatomy and Physiology I						
		MESTER						
BITC	2445	Medical Biotechnology						
XXXX		Humanities/Fine Arts General Ed. Elective						
BITC	2386	Internship- Biological Technology/Technician <b>OR</b>						
BITC	1491	Special Topics in Biological Tech/Technician						
BITC	2472	Immunological Methods and Techniques						

Updated: 7/2	2/2013	HOUST	ON COM	MUNITY CO	OLLEGE SYSTEM		Dans 4 of 4
FA	_ VA EDUC	ATIONAL	PLAN/T	RANSFER S	SUBSTITUTION PETITION		Page 1 of 1
NAME:				SS#:		DATE:	
COLLEGE				COUNSELOR	A/ADVISOR:	CATALOG YE	AR: 13-14
		BIOTECHNO			E - BIOTECHNOLOGY		
	HCCS Course Requirement	Transfer / S Institution	ubstitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
FIRST YEAR					This award is deactivated as of June 1, 2013.		
					New students will not be admitted into the program.		
					The program is currently in teach-out status.		
FIRST SEME	STER						
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 SEI	MESTER						
BITC 1402	Biotechnology Laboratory Methods						
	and Techniques						
BITC 1370							
BIOL 1406	•						
THIRD SEME	STER						
BITC 1491	Special Topics in Biological Technology/						
	Technician						
BITC 2411							
	5, ,						
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Updated: 7/2	22/2013	HOUST	ON COM	MUNITY CC	LLEGE SYSTEM		Page 1 of 1
FA	_ VA EDUC	ATIONAL	PLAN/TI	RANSFER S	UBSTITUTION PETITION		- age i oi i
NAME:			,	SS#:		DATE:	
COLLEGE:				/ADVISOR:	CATALOG YE	AR: 13-14	
		NGINEERI			SSOCIATE IN APPLIED SCIENCE		
	HCCS Course Requirement	Transfer / S	ubstitution	Substitute (SU)	Comment/Disapproval	Approval	Date
		Institution	Course	Transfer (TR)		Signature	
TSI testing is re	quired prior to first enroll				This award is deactivated as of September 1, 2013.		
FIRST YEAR					New students will not be admitted into the program.		
FIRST SEME	STER				The program is currently in teach-out status.		
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 SE	MESTER						
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 SEME	STER						
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 YE	AR						
FIRST SEME	STER						
SCIT 1543	Applied Analytical Chemistry						
SOCI 1301	Introduction to Sociology						
CTEC 2470	Process Control and Design						
PTAC 2420	Process Technology II- Systems						
SECOND SE	MESTER						
CTEC 2386	Internship- Chemical Technology/Tech. <b>OR</b>						
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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FA VA EDUC	ATIONAL	PLAN/T	- <b>49</b> 0 - 0- =			
NAME:			SS#:		DATE:	
COLLEGE:			COUNSELOR	/ADVISOR:	CATALOG YE	AR: 13-14
CHEMICAL	LABORATO	RY TECI	HNOLOGY- AS	SSOCIATE IN APPLIED SCIENCE		
HCCS Course Requirement	Transfer / S Institution	ubstitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
TSI testing is required prior to first enrollment.				This award is deactivated as of September 1, 2013.		
				New students will not be admitted into the program.		
FIRST YEAR				The program is currently in teach-out status.		
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>						
ÇHEM 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 24	443, CTEC 2445, CTEC	1401, EPTC 1427, EPTC 2414 or other department approved ele	ctive.	

Ipdated: 7/22/2013 HOUSTON COMMUNITY COLLEGE SYSTEM						
FA	VA EDUC	ATIONAL PLA	N/TRANSFER S	SUBSTITUTION PETITION		Page 2 of 2
NAME:			SS#:			
COLLEGE:			COUNSELOR	/ADVISOR:	CATALOG YEA	AR: 13-14
	CHEMICAL	LABORATORY T	TECHNOLOGY- AS	SSOCIATE IN APPLIED SCIENCE		
	HCCS Course Requirement		tution Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
SECOND SEN				This award is deactivated as of September 1, 2013.		
	Applied Organic Chemistry II <u>OR</u>			New students will not be admitted into the program.		
	Organic Chemistry II			The program is currently in teach-out status.		
	Department Approved Program-					
	d Elective*					
	Cooperative Education <u>OR</u>					
	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, C	TEC 2443, CTEC 2445, CTEC	1401, EPTC 1427, EPTC 2414 or other department approved ele	ctive.	

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FA	_ VA EDUC	ATIONAL PL	AN/T	RANSFER S	SUBSTITUTION PETITION		rage 1011
NAME:				SS#:		DATE:	
COLLEGE	1			COUNSELOR	/ADVISOR:	CATALOG YE	AR: 13-14
		EMICAL LABO	ORAT	ORY TECHNO	DLOGY - CERTIFICATE		_
	HCCS Course Requirement	Transfer / Subst Institution C	titutior Course		Comment/Disapproval	Approval Signature	Date
FIRST SEME					This award is deactivated as of September 1, 2013.		
ENGR 1201	Introduction to Engineering				New students will not be admitted into the program.		
CTEC 1213					The program is currently in teach-out status.		
MATH 1314	College Algebra						
SCIT 1414	Applied General Chemistry I OR						
CHEM 1411	General Chemistry I						
SECOND SE	MESTER						
SCIT 2401	Applied Organic Chemistry I OR						
CHEM 2423	Organic Chemistry I						
SCIT 1543	Applied Analytical Chemistry						
THIRD SEME	STER						
SCIT 2402	Applied Organic Chemistry II OR						
CHEM 2425	Organic Chemistry II						
CTEC 1441	Applied Instrumental Analysis						

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FA	VA EDUC	ATIONAL	PLAN/TI	RANSFER S	UBSTITUTION PETITION		raye i oi i
NAME:			,	SS#:		DATE:	
COLLEGE:				/ADVISOR:	CATALOG YE	AR: 13-14	
	CHEMICAL LABORATORY	TECHNOI			- POLYMER TECHNOLOGY SPECIALIZ	•	
	HCCS Course Requirement	Transfer / S Institution	Substitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
FIRST YEAR					This award is deactivated as of September 1, 2013.		
FIRST SEMES	TER				New students will not be admitted into the program.		
CTEC 1213 MATH 1314	Introduction to Engineering Introduction to Chemical Technology College Algebra				The program is currently in teach-out status.		
	General Chemistry I <u>OR</u>						
SCIT 1414	Applied General Chemistry I						4
SECOND SEM	ESTER Organic Chemistry I <u>OR</u>						
SCIT 2401	Applied Organic Chemistry I						
CTEC 2441	Polymers I						
SCIT 1543	Applied Analytical Chemistry						
THIRD SEMES	TER						
	Applied Instrumental Analysis I						
CTEC 2443	Polymers II						
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VA EDUC	ALIONAL	PI AN/I	RVNCFFB	UBSTITUTION PETITION		
				ODOTITO HORT ETITION		
NAME:			SS#:		DATE:	
			<b>COUNSELOR</b>	/ADVISOR:	CATALOG YE	AR: 13-14
DRAFTING AND 1	DESIGN EN	IGINEER	ING TECHNO	LOGY - AAS - GENERAL DRAFTIN	NG	
HCCS Course Requirement	Transfer / S Institution	ubstitution Course		Comment/Disapproval	Approval Signature	Date
red prior to first enrollment.						
ER						
Workforce Development with Critical Thinking						
Composition I						
Technical Drafting						
<u> </u>						
College Algebra						
STER						
Intermediate Computer-Aided Drafting						
Electrical/ Electronics Drafting <u>OR</u>						
Electro-Mechanical Drafting						
Technical and Industrial Correspondence						
and Report Writing <u>OR</u>						
Composition II						
Social/Behavioral Science Gen. Ed Elective						
ER						
Machine Drafting						
Pipe Drafting						
Specialized Basic Computer Aided Drafting (CAD)						
Descriptive Geometry						
Plane Trigonometry						
STER						
Civil Drafting						
Structural Drafting						
Architectural Drafting- Residential						
Advanced Technologies in.Mechanical Design						
and Drafting <u>OR</u>						
Drafting Elective						
Humanities/Fine Arts General Ed. Elective						
	HCCS Course Requirement  ed prior to first enrollment.  ER  Workforce Development with Critical Thinking Composition I Technical Drafting Basic Computer-Aided Drafting College Algebra  STER Intermediate Computer-Aided Drafting Electrical/ Electronics Drafting Electrical and Industrial Correspondence and Report Writing OR Composition II Mechanical Drafting Social/Behavioral Science Gen. Ed Elective  ER  Machine Drafting Pipe Drafting Specialized Basic Computer Aided Drafting (CAD) Descriptive Geometry Plane Trigonometry  STER Civil Drafting Structural Drafting Architectural Drafting-Residential Advanced Technologies in.Mechanical Design and Drafting OR Drafting Elective	HCCS Course Requirement  Institution  Transfer / S Institution  Transfer / Institute	HCCS Course Requirement  Institution Course  ed prior to first enrollment.  ER  Workforce Development with Critical Thinking Composition I Technical Drafting Basic Computer-Aided Drafting College Algebra  STER Intermediate Computer-Aided Drafting Electrical/ Electronics Drafting Electrical/ Electronics Drafting Technical and Industrial Correspondence and Report Writing OR Composition II Mechanical Drafting Social/Behavioral Science Gen. Ed Elective  ER  Machine Drafting Pipe Drafting Specialized Basic Computer Aided Drafting (CAD) Descriptive Geometry Plane Trigonometry STER Civil Drafting Structural Drafting Structural Drafting-Residential Advanced Technologies in.Mechanical Design and Drafting OR Drafting Elective	DRAFTING AND DESIGN ENGINEERING TECHNO  HCCS Course Requirement  Transfer / Substitution Institution Course  Remain Composition I Fechnical Drafting Basic Computer-Aided Drafting Basic Computer-Aided Drafting Electrical/ Electronics Drafting Electrical/ Electronics Drafting Electrical/ Electronics Drafting Belectrical/ Electronics Drafting Belectrical/ Electronics Drafting Electrical/ Electronics Drafting Electrical/ Electronics Drafting Electro-Mechanical Drafting Electrical And Industrial Correspondence and Report Writing OR Electrony Writing OR Electrony Electronics Drafting Enchnical and Industrial Correspondence and Report Writing OR Electrony Writing OR Electrony Electronics Drafting Enchined and Industrial Correspondence and Report Writing OR Electrony Writing OR Enchined Brafting Social/Behavioral Science Gen. Ed Elective  ER Machine Drafting Specialized Basic Computer Aided Drafting (CAD) Descriptive Geometry Plane Trigonometry STER Civil Drafting Architectural Drafting-Residential Advanced Technologies in.Mechanical Design and Drafting OR Drafting Elective	DRAFTING AND DESIGN ENGINEERING TECHNOLOGY - AAS - GENERAL DRAFTIN HCCS Course Requirement Transfer / Substitution Institution od prior to first enrollment.  ER Workforce Development with Critical Thinking Composition I Technical Drafting Sasic Computer-Aided Drafting College Algebra STER Intermediate Computer-Aided Drafting Electrical/ Electronics Drafting OR Electrical/ Electronics Drafting OR Composition II Mechanical Drafting Social/Behavioral Science Gen. Ed Elective  ER Machine Drafting Social/Behavioral Science Gen. Ed Elective  ER Machine Drafting Specialized Basic Computer Aided Drafting (CAD) Descriptive Geometry Plane Trigonometry STER STER STER STER STER STER STER STER	DRAFTING AND DESIGN ENGINEERING TECHNOLOGY - AAS - GENERAL DRAFTING  HCCS Course Requirement  Transfer / Substitution Institution Course  de prior to first enrollment.  ER  Workforce Development with Critical Thinking Composition I Technical Drafting Basic Computer-Aided Drafting College Algebra STER Intermediate Computer-Aided Drafting Leitertical Drafting Technical Draf

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FA	VA EDUCA	ATIONAL	PLAN/TF	RANSFER S	UBSTITUTION PETITION		rage 1011
NAME:				SS#:		DATE:	
COLLEGE				COUNSELOR	/ADVISOR:	CATALOG YE	AR: 13-14
		GN ENGIN	•		Y - CERTIFICATE - GENERAL D		
	HCCS Course Requirement	Transfer / S Institution	ubstitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
FIRST YEAR							
FIRST SEME							
LEAD 1200							
DFTG 1309	Basic Computer-Aided Drafting						
DFTG 1405	Technical Drafting						
SECOND SE	MESTER						
	Electrical/ Electronics Drafting <u>OR</u>						
	Electro-Mechanical Drafting						
	Intermediate Computer-Aided Drafting <b>OR</b>						
DFTG 1310							
DFTG 1333							
	Architectural Drafting- Residential						
2110 1017	Themseever 21 mining Teenania						
THIRD SEME	STER						
DFTG 2323	Pipe Drafting						
DFTG 2330							
ARCE 1352							
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Jpdated: 06/	/18/2013	HOUST	ON COM	MUNITY COL	LEGE SYSTEM		Page 1 of 1
FA	_ VA EDUC	ATIONAL	PLAN/T	RANSFER SU	IBSTITUTION PETITION		rage i oi i
NAME:				SS#:	DATE:		
COLLEGE	:			COUNSELOR/A	ADVISOR:	CATALOG YE	AR: 13-14
	DRAFTING AND DESIGN ENGI	NEERING	TECHNO	LOGY - AAS - A	ARCHITECTURAL DRAFTING S	SPECIALIZATION	
	HCCS Course Requirement	Transfer / S Institution	ubstitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
TSI testing is red	quired prior to first enroll.						
FIRST YEAR							
First Seme	STER						
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 SE							
DFTG 2319	1 &						
DFTG 1317							
XXXX #3##							
MATH 1316	<u> </u>						
ARCE 1352	Structural Drafting						
SECOND YE	AR						
FIRST SEME	STER						
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	1						
DFTG 1392	1 1						
	Architectural CAD/CADD						
DFTG 1376							
SECOND SE							
DFTG 2331	<u> </u>						
	and Drafting						
ARCE 2352	Mechanical and Electrical Systems						
DFTG 2330							
DFTG 2328	Architectural Drafting- Commercial						
	Residential						
DFTG #3##	Drafting Elective						

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NAME:	AHONAL	SS#:	OBOTITOTION I ETITION	DATE:	
COLLEGE:		COUNSELOR	/ADVISOR:	CATALOG YE	 ΛD: 12_1 <i>/</i>
DRAFTING AND DESIGN ENGINEER	RING TECH				
HCCS Course Requirement	Transfer / S	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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NAME:	DATIONAL		DATE:				
COLLEGE:			SS#: COUNSELOR/A	ADVISOR:	CATALOG YE	AR: 13-14	
	NGINEERIN			- CIVIL DESIGN DRAFTING SPE			
HCCS Course Requirement	Transfer / S Institution	ubstitution 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 Thinkit ENGL 1301 Composition I	ng						
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 <i>OR</i>							
DFTG #3## Drafting Elective							
DFTG 2317 Descriptive Geometry							
DFTG 2330 Civil Drafting							
XXXX #3## Social/Behavioral Science/Gen. Ed. Elective							
AXAX #5## 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						<u> </u>	

Update	a: 06/	17/2013	HOUST	ОИ СОМ	MUNITY CC	LLEGE SYSTEM		Page 1 of 1
F	١	VA EDUC	ATIONAL	PLAN/TI	RANSFER S	UBSTITUTION PETITION		- age 1 of 1
NAME	:			,	SS#:		DATE:	
COLLE	EGE:				COUNSELOR	/ADVISOR:	CATALOG YE	AR: 13-14
			ERING TE			ICATE - CIVIL DESIGN DRAFTING SE	PECIALIZATION	
		HCCS Course Requirement	Transfer / S Institution	ubstitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
FIRST Y								
FIRST S								
LEAD		Workforce Development with Critical Thinking						
DFTG		Basic Computer-Aided Drafting						
DFTG	1405	Technical Drafting						
SECONI								
		Specialized Basic Computer Aided Drafting						
		Intermediate Computer-Aided Drafting						
SRVY		Introduction to Surveying						
ARCE	1352	Structural Drafting						
THIRD S								
SRVY		Land Surveying						
DFTG	1393	Special topics in Civil Drafting and						
		Civil Engineering						
DFTG	2330	Civil Drafting						

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FA	VA EDUC	ATIONAL	PLAN/T	RANSFER SU	IBSTITUTION PETITION	· · · · · · · · · · · · · · · · · · ·	
NAME:				SS#:		DATE:	
COLLEGE:				COUNSELOR/A	ADVISOR:	CATALOG YEAR: 13-14	
	DRAFTING AND DESIGN ENGIN	EERING TI	ECHNOL	OGY - AAS - EL	ECTRO-MECHANICAL DESIGN	SPECIALIZATION	
	HCCS Course Requirement	Transfer / S Institution	ubstitutior Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
TSI testing is req	uired prior to first enroll.						
FIRST YEAR							
FIRST SEMES	STER						
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 SEM							
DFTG 1333	<u> </u>						
DFTG 2319	Intermediate Computer-Aided Drafting						
XXXX #3##	Humanities/Fine Arts General Ed. Elective						
	Electro-mechanical Drafting						
MATH 1316	Plane Trigonometry						
SECOND YEA							
FIRST SEMES							
	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 SEM							
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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FA	VA EDUCA	ATIONAL	PLAN/TF	RANSFER S	UBSTITUTION PETITION		
NAME:				SS#:		DATE:	
COLLEGE:				COUNSELOR	/ADVISOR:	CATALOG YE	AR: 13-14
DRA	AFTING AND DESIGN ENGINEERI	NG TECHN	•			ESIGN SPECIALIZAT	ION
	HCCS Course Requirement	Transfer / S Institution	ubstitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
FIRST YEAR							
FIRST SEMES	TER						
LEAD 1200	Workforce Development with Critical Thinking						
DFTG 1309	Basic Computer-Aided Drafting						
DFTG 1405	Technical Drafting						
SECOND SEM							
DFTG 2319	Intermediate Computer-Aided Drafting						<b>_</b>
DFTG 1333	Mechanical Drafting						
DFTG 1358	Electrical/Electronics Drafting						
THIRD SEMES							
DFTG 2302	Machine Drafting						
DFTG 2335	Advanced Technologies in Mechanical						
	Design and Drafting <u>OR</u>						
DFTG 2340	Solid Modeling/Design						
DFTG 1329	Electromechanical Drafting						

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FA	. VA EDUCA	AHONAL			UBSTITUTION PETITION		
NAME:			;	SS#:		DATE:	
COLLEGE:			(	COUNSELOR	ADVISOR:	CATALOG YE	AR: 13-14
	DRAFTING AND DESIGN ENC	GINEERING	G TECHNO	OLOGY - AAS	- PIPING DESIGN DRAFTING SI	PECIALIZATION	
	HCCS Course Requirement	Transfer / S Institution	ubstitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
	uired prior to first enrollment.						
FIRST YEAR							
FIRST SEMES	STER						
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 SEN	MESTER						
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 YEA	AR						
FIRST SEMES	STER						
	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 SEN	MESTER						
ENGL 2311	Technical and Industrial Correspondence						
	and Report Writing <i>OR</i>						
ENGL 1302	Composition II						
DFTG 2340	Solid Modeling Design <u>OR</u>						
XXXX #3##	Elective						
DFTG 2345	Advanced Pipe Drafting						
DFTG 2373	Piping Design Management Systems (PDMS)						
ARCE 1352	Structural Drafting						
							.1

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FA	VA EDUC	ATIONAL	PLAN/T	RANSFER S	UBSTITUTION PETITION		
NAME:				SS#:		DATE:	
COLLEGE	COLLEGE:			COUNSELOR/	ADVISOR:	CATALOG YE	AR: 13-14
	DRAFTING AND DESIGN ENGINE	ERING TEC	CHNOLO	GY - CERTIFIC	CATE - PIPING DESIGN DRAFTI	NG SPECIALIZATION	I
	HCCS Course Requirement	Transfer / S Institution	Substitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
FIRST YEAR							
FIRST SEME							
	Workforce Development with Critical Thinking						
	Basic Computer-Aided Drafting						
DFTG 1405	Technical Drafting						
SECOND SE	MESTER						
	Intermediate Computer-Aided Drafting						
DFTG 2323							
	Mechanical Drafting						
	Structural Drafting						
THIRD SEME	STER						
DFTG 2308	Instrumentation Drafting						
DFTG 1396	<u> </u>						
DFTG 2371	Advanced Technologies in Process Plant						
	Design (Autoplant)						
DFTG 2345	Advanced Pipe Drafting						

Updated:				OLLEGE SYSTEM		Page 1 of 1
FA VA EDUC	<u>ATIONAL</u>	PLAN/T	RANSFER S	UBSTITUTION PETITION		
NAME:			SS#:	DATE:		
COLLEGE:		(	COUNSELOR	/ADVISOR:	CATALOG YEA	AR: 13-14
	G - DESIG			ARCHITECTURAL DRAFTING SPECIA		
HCCS Course Requirement	Transfer / S Institution	ubstitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
This certificate will be deactivated as of September 1, 2011.						
No new students will be admitted into the program.						
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						
S						
SECOND SEMESTER						
DFTG 1317 Architectrual Drafting- Residential ARCE 1352 Structural Drafting						
ARCE 1352 Structural Drafting						
THIRD SEMESTER						
DFTG 2300 Intermediate Architectural Drafting- Residential						
DFTG 2328 Architectural Drafting- Commercial						

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	ATIONAL			UBSTITUTION PETITION	DATE:	
NAME:			SS#:		DATE:	
COLLEGE:			COUNSELOR	/ADVISOR:	CATALOG YE	:AR: 13-14
COMPUTER AIDED DRAFTING -	DESIGNER	- CERTIF	ICATE - ELEC	CTRO - MECHANICAL DRAFTING S	<b>PECIALIZATION</b>	
HCCS Course Requirement	Transfer / S Institution	Substitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
This certificate will be deactivated as of September 1, 2011.						
No new students will be admitted into the program.						
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:	ed: HOUSTON COMMUNITY COLLEGE SYSTEM									
FA	VA EDUC	ATIONAL	PLAN/T	RANSFER S	SUBSTITUTION PETITION		Page 1 of 1			
NAME:				SS#:		DATE:				
COLLEGE:				COUNSELOR	/ADVISOR:	CATALOG Y	EAR: 13-14			
	COMPUTER AIDED DRAFT	TING - DESI			- MECHANICAL DRAFTING S	PECIALIZATION				
	HCCS Course Requirement	Transfer / S Institution	ubstitution Course		Comment/Disapproval	Approval Signature	Date			
	will be deactivated as of September 1, 2011.									
No new student	ts will be admitted into the program.									
TSI testing is requ	uired prior to first enroll.									
FIRST YEAR										
FIRST SEMES	TED									
	Introduction to Engineering									
DFTG 1405	Technical Drafting									
	Basic Computer- Aided Drafting									
	•									
SECOND SEM	ESTER									
DFTG 1333	Mechanical Drafting									
DFTG 2302	Machine Drafting									
THIRD SEMES										
	Electro - Mechanical Drafting									
DFTG 2306	Machine Design									

HOUSTON COMMUNITY COLLEGE SYSTEM Page 1 of 1									
FA VA	ATIONAL	PLAN/TF	RANSFER S	UBSTITUTION PETITION		. ugo . o			
NAME:			SS#:		DATE:				
COLLEGE:			COUNSELOR	/ADVISOR:	CATALOG YE	AR: 13-14			
	AFTING - D			ATE - PIPING DRAFTING SPECIALIZA					
HCCS Course Requirement	Transfer / S	ubstitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date			
This certificate will be deactivated as of September 1, 2011.									
No new students will be admitted into the program.									
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									
1									

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FA	_ VA EDUC	ATIONAL	PLAN/TI	RANSFER S	UBSTITUTION PETITION		
NAME:				SS#:		DATE:	
COLLEGE				COUNSELOR	/ADVISOR:	CATALOG YE	AR: 13-14
		DESIGNER -			S ACHIEVEMENT AWARD - BASIC		
	HCCS Course Requirement	Transfer / S	Substitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
	ill be deactivated as of September 1, 2011.						
No new stud	lents will be admitted into the program.						
FIRST YEAR							
FIRST SEME							
DFTG 1405							
DFTG 1309	Basic Computer- Aided Drafting						
SECOND SE							
DFTG 1371							
DFTG 2372	Piping Plans & Equipment						
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NAME:				DATE:				
COLLEGE:				COUNSELOR	ADVISOR:	CATALOG YE	AR: 13-14	
		RING TEC			MEDICAL ELECTRONICS SPECI	•		
	HCCS Course Requirement	Transfer / S Institution	ubstitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date	
TSI testing is req	uired prior to first enrollment.							
FIRST YEAR								
FIRST SEMES	STER							
LEAD     1200       MATH     1314       CETT     1321       CPMT     1449	Workforce Development with Critical Thinking  College Algebra  Electronic Fabrication  Computer Networking Technology							
SECOND SEN	MESTER							
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 SEMES								
PHYS 1401	College Physics I							
XXXX #3##	Humanities/Fine Arts General Ed. Elective							
SECOND YEA	AD.							
FIRST SEMES								
	AC Circuits							
CETT 1429	Solid State Devices							
BIOM 1309	Applied Biomedical Equipment Technology							
CETT 1331	Programming for Discrete Electronic Devices							
SECOND SEN	MESTER							
BIOM 2331	Biomedical Clinical Instrumentation							
MDCA 1313	Medical Terminology							
BIOM 2489	Internship - Biomedical Technology/Technician							
CETT 1457	Linear Integrated Circuits							

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FA	. VA EDUCA	ATIONAL	PLAN/T	RANSFER S	UBSTITUTION PETITION		
NAME:				DATE:			
COLLEGE:				COUNSELOR/	ADVISOR:	CATALOG YE	AR: 13-14
	ELECTRONICS ENGINEERIN	G TECHNO	LOGY - A	AAS - ELECTR	ICAL POWER TECHNOLOGY S	PECIALIZATION	
	HCCS Course Requirement	Transfer / S Institution	ubstitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
TSI testing is req	uired prior to first enrollment.						
FIRST YEAR							
FIRST SEMES	STER						
	Workforce Development with Critical Thinking  or Learning Framework  College Algebra  Electronic Fabrication  Computer Networking Technology  MESTER  DC Circuits  Digital Fundamentals  Plane Trigonometry  Social/Behavioral Science General Ed. Elective						
ENGL 2311	Technical and Industrial Correspondence						
	and Report Writing						
THIRD SEME	STED						
	College Physics I Humanities/Fine Arts General Ed. Elective						
SECOND YEA	\R						
FIRST SEMES	STER						
CETT 1405 CETT 1429 CETT 1331	AC Circuits Solid State Devices Programming for Discrete Electronic Devices Programmable Logic Controllers						
SECOND SEN	AESTED						
XXXX #4## ELPT 1451 CETT 1457	Program - Related Elective Electrical Machines						

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FA	VA EDUCA	ATIONAL	PLAN/T	RANSFER S	UBSTITUTION PETITION		
NAME:				SS#:	DATE:		
COLLEGE:				COUNSELOR	CATALOG YEA	AR: 13-14	
	ELECTRONICS ENGINEERING T	TECHNOLO	OGY - AA				
	HCCS Course Requirement	Transfer / S Institution	Substitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
TSI testing is requ	uired prior to first enrollment.						
FIRST YEAR							
FIRST SEMES	STER						
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 SEM							
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 SEMES							
PHYS 1401	College Physics I						
XXXX #3##	Program - Related Elective						
SECOND YEA	IR						
FIRST SEMES	STER						
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 SEM	IESTER						
CETT 1445	Microprocessor						
XXXX #4##	Program - Related Elective						
CETT 1457	Linear Integrated Circuits**						
The **capstone	course is CETT 1457 - Linear Integrated Circuits						

Second   S	Updated: 07/03/2013	HOUST	ON COM	MUNITY CO	LLEGE SYSTEM		Page 1 of 1
COLLEGE: COUNSELOR/ADVISOR: CATALOG YEAR: 13-14    FLECTRONICS ENGINEERING TECHNOLOGY - CERTIFICATE - BASIC ELECTRONICS	FA VA ED	UCATIONAL	PLAN/T		1 age 1 of 1		
ELECTRONICS ENGINEERING TECHNOLOGY - CERTIFICATE - BASIC ELECTRONICS  HCCS Course Requirement Transfer / Substitution Institution Course Transfer (TR) Trans	NAME:		;	SS#:		DATE:	
ELECTRONICS ENGINEERING TECHNOLOGY - CERTIFICATE - BASIC ELECTRONICS  HCCS Course Requirement Transfer / Substitution Institution Course Transfer (TR) Trans	COLLEGE:			COUNSELOR	/ADVISOR:	CATALOG YE	AR: 13-14
Institution   Course   Transfer (TR)   Signature		CS ENGINEERI	-			•	
TSI testing is required prior to first enrollment.	HCCS Course Requirement				Comment/Disapproval		Date
LEAD   1200   Workforce Development with Critical Thinking	TSI testing is required prior to first enrollment.						
LEAD   1200   Workforce Development with Critical Thinking							
MATH 1314 College Algebra	FIRST SEMESTER						
CETT         1321         Electronic Fabrication		nking					
CPMT   1449   Computer Networking Technology	MATH 1314 College Algebra						
Second Semester	CETT 1321 Electronic Fabrication						
CETT 1403 DC Circuits	CPMT 1449 Computer Networking Technology						
CETT 1403 DC Circuits							
CETT 1425 Digital Fundamentals         MATH 1316 Plane Trigonometry         Image: Company of the program Related Elective         Image: Co							
MATH 1316 Plane Trigonometry         Image: Control of the program Related Elective							
THIRD SEMESTER         SEMESTER           CETT 1405 AC Circuits         Solid State Devices**           CETT 1429 Solid State Devices**         Solid State Devices**           CPMT Introduction to Computer Technology         Solid State Devices**           XXXX #4## Program Related Elective         Solid State Devices**							
CETT 1405 AC Circuits CETT 1429 Solid State Devices** CPMT Introduction to Computer Technology XXXX #4## Program Related Elective	MATH 1316 Plane Trigonometry						
CETT 1405 AC Circuits CETT 1429 Solid State Devices** CPMT Introduction to Computer Technology XXXX #4## Program Related Elective							
CETT 1429 Solid State Devices**  CPMT Introduction to Computer Technology  XXXX #4## Program Related Elective	THIRD SEMESTER						
CPMT Introduction to Computer Technology XXXX #4## Program Related Elective	CETT 1405 AC Circuits						
XXXX #4## Program Related Elective	CETT 1429 Solid State Devices**						
	CPMT Introduction to Computer Technology						
XXXX #4## Program Related Elective	XXXX #4## Program Related Elective						
	XXXX #4## Program Related Elective						

Updated:	HOUSTON COMMUNITY COLLEGE SYSTEM								
FA	VA EDUCA	ATIONAL	PLAN/T	RANSFER S	SUBSTITUTION PETITION		Page 1 of 1		
NAME:				SS#:		DATE:			
COLLEGE:				COUNSELOR	/ADVISOR:	CATALOG YE	AR: 13-14		
]	ELECTRONICS ENGINEERING TE	CHNOLOG		•					
	HCCS Course Requirement	Transfer / S Institution	ubstitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date		
FIRST SEME	STER								
LEAD 1200	Workforce Development with Critical Thinking								
CETT 1321	Electronic Fabrication								
TECM 1301	Industrial Mathematics								
XXXX #4##	Program-Related Elective								
SECOND SE	MESTED								
XXXX #4##	Program-Related Elective								
XXXX #4## XXXX #4##	Program-Related Elective								
CPMT 1303	Introduction to Computer Technology								
CPMT 1449	Computer Networking Technology**								
CI WI 1449	Computer Networking reciniology								
The **capstor	ne course is CPMT 1449 Computer Networking Tec	chnology.							

Updated: FA	VA FDUC				LLEGE SYSTEM UBSTITUTION PETITION		Page 1 of 1
NAME:				SS#:		DATE:	
COLLEGE:				COUNSELOR	/ADVISOR·	CATALOG YE	ΔR: 13-14
OOLLLOL.		NGINEERI	<u> </u>		ERTIFICATE - NETWORK SECURITY	T OKIALOG IL	AIX. IV IT
	HCCS Course Requirement	Transfer / S			Comment/Disapproval	Approval Signature	Date
TSI testing is req	uired prior to first enrollment.						
FIRST SEMES							
ENGR 1201	Introduction to Engineering						
CPMT 1303	Introduction to Computer Technology						
CPMT 1411	Introduction to Computer Maintenance						
ITCC 1401	Exploration-Network Fundamentals						
SECOND SEN							
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						
							<u> </u>
THIRD SEME							
XXXX #3##	Department Approved Elective						
XXXX #3##	Department Approved Elective						
CPMT 2434	Network Security						
	e is deactivated as of September 1, 2011.						
No new studen	ts will be admitted into the program.						

TSI testing is required prior to  FIRST YEAR  FIRST SEMESTER  LEAD 1200 Workforce				SS#:	UBSTITUTION PETITI		Page 1 of 1	
TSI testing is required prior to  FIRST YEAR FIRST SEMESTER LEAD 1200 Workforce		TECHNO				DATE:		
TSI testing is required prior to  FIRST YEAR FIRST SEMESTER LEAD 1200 Workforce		TECHNO					DATE:	
TSI testing is required prior to  FIRST YEAR  FIRST SEMESTER  LEAD 1200 Workforce		TECHNO		COUNSELOR/	ADVISOR:	CATALOG YI	EAR: 13-14	
TSI testing is required prior to  FIRST YEAR  FIRST SEMESTER  LEAD 1200 Workforce	Course Requirement		LOGY - S	USTAINABLE .	AND RENEWABLE ENER	RGY - AAS		
FIRST YEAR FIRST SEMESTER LEAD 1200 Workforce		Transfer / S Institution	Substitution Course	Substitute (SU) Transfer (TR)	Comment/Disapp	roval Approval Signature	Date	
FIRST SEMESTER LEAD 1200 Workforce	first enroll.							
FIRST SEMESTER LEAD 1200 Workforce								
LEAD 1200 Workforce								
CPMT 1303 Introduction	e Development with Critical Thinking							
CI WII 1303 Introducti	on to Computer Technology							
PTAC 1302 Introduction	on to Process Technology							
SECOND SEMESTER								
PTRT 1301 Introducti	on to Petroleum Industry							
SOLR 1370 Principles	of Solar Photovoltaic							
WIND 1300 Introducti	on to Wind Energy							
CPMT 1449 Computer	Networking Technology							
THIRD SEMESTER								
PTRT 1470 Petroleum	Data Management I - Exploration							
PTRT 1370 Petroleum	n Geology							
SECOND YEAR								
FIRST SEMESTER								
PTAC 1308 Safety, He	ealth, and Environment I							
PTAC 1354 Industrial	Processes							
ENGL 1301 Composit	ion I							
SCIT 1414 Applied C	General Chemistry I <u>OR</u>							
	Chemistry I							
SECOND SEMESTER								
	on and Production I							
XXXX #3## Social/Beha	avioral Science/General Education Elective							
PTAC 1350 Industrial	Economics							
	hysics I <u>OR</u>							
SCIT 1418 Applied P	Physics							
THIRD SEMESTER								
MATH 1314 College A								
	Mathematics							
XXXX #3## Arts/Hum	anities/General Education Elective							

Updated: 8/14/20	13	HOUST	ON COM	IMUNITY CO	LLEGE SYSTEM		Page 1 of 1	
FA VA	EDUCA	ATIONAL	PLAN/T	RANSFER S	UBSTITUTION PETITION	- age 1011		
NAME:				SS#:		DATE:		
COLLEGE:	COLLEGE:			COUNSELOR	/ADVISOR:	CATALOG YE	AR: 13-14	
	ENGINEERING TEC	HNOLOGY	/ - SUSTA	INABLE AND	RENEWABLE ENERGY - CERTII	FICATE		
H	CCS Course Requirement	Transfer / S Institution	ubstitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date	
FIRST YEAR								
FIRST SEMESTER								
	orkforce Development with Critical Thinking							
	roduction to Computer Technology							
	roduction to Process Technology							
SECOND SEMESTER								
	roduction to Petroleum Industry							
	nciples of Solar Photovoltaic							
	roduction to Wind Energy							
SECOND YEAR								
FIRST SEMESTER								
	Pety, Health, and Environment I							
SECOND SEMESTER								
	lustrial Economics							
SCIT 1418 App	plied Physics							
THIRD SEMESTER								
TECM 1301 Ind	lustrial Mathematics							

Updated: 07/	08/2013	HOUST	ON CON	MUNITY CO	LLEGE SYSTEM			Page 1 of 1
FA	VA EDUCA	ATIONAL	PLAN/T	RANSFER S	<b>UBSTITUTION PETITIC</b>	)N	- raye rorr	
NAME:				SS#:			DATE:	
COLLEGE:				COUNSELOR	/ADVISOR:		CATALOG YEA	AR: 13-14
	INSTRUMENTATION AND (	CONTROLS	S ENGIN	EERING TECH	INOLOGY - ASSOCIATE IN	APPLIED SC	IENCE	
	HCCS Course Requirement	Transfer / S Institution	ubstitutior Course	Substitute (SU) Transfer (TR)	Comment/Disappro	val	Approval Signature	Date
TSI testing is req	uired prior to first enroll.							
FIRST YEAR								
FIRST SEMES	STER							
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 SEN	MESTER							
INTC 1456	Instrumentation Calibration							
SPCH #3##	Speech Elective							
MATH 1316	Trigonometry							
INTC 1441	Principles of Automatic Control							
CPMT 1449	Computer Networking Technology <u>OR</u>							
ITNW 1425	Fundamentals of Networking Technologies <u>OR</u>							
ITCC 1401	Cisco Exploration I - Networking Fundamentals							
SECOND YEA	AR							
FIRST SEMES	STER							
INTC 1343	Application of Industrial Automatic Controls							
INTC 2330	Instrumentation Systems Troubleshooting							
XXXX #3##	Program Related Elective							
PHYS 1401	College Physics							
SECOND SEN	MESTER							
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							
	urse is INTC 2336, Distributed Control and Programmable Technology/Technician	Logic or INTC 23	380, Cooperati	ve Education -				

FA					LLEGE SYSTEM UBSTITUTION PETITION		Page 1 of 1
NAME:	_ 1000	AHONAL		SS#:	OBOTTOTION I ETITION	DATE:	
COLLEGE	:			CATALOG YE	 ΔR· 13 <sub>-</sub> 14		
OOLLLOL		ION AND C		ADVISOR: ING TECHNOLOGY - CERTIFICATE	CAIALOG IL	<u>AIX. 10-14</u>	
	HCCS Course Requirement	Transfer / S Institution			Comment/Disapproval	Approval Signature	Date
TSI testing is re	equired prior to first enroll.						
FIRST YEAR	2						
FIRST SEMI	ESTER						
<ul><li>LEAD 1200</li><li>INTC 1312</li><li>PTAC 1308</li><li>CETT 1403</li><li>MATH 1314</li></ul>	Instrumentation and Safety Safety, Health, and Environment I DC Circuits						
C C-							
SECOND SE							
INTC 1441							
MATH 1316	1						
MAIN 1310	Trigonometry						
THIRD SEM	ESTER						
INTC 1343							
RBTC 1301	11						
INTC 2370	<u> </u>						
INTC 2336							
XXXX #4##							
	11 1						

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FA _	_ VA EDUCA	ATIONAL	PLAN/T		- age i oi i		
NAME:				SS#:		DATE:	
COLLEGE	:			COUNSELOR	/ADVISOR:	CATALOG YE	AR: 13-14
INSTRU	MENTATION AND CONTROLS ENG	INEERING	TECHN	OLOGY - CER	TIFICATE: SOLAR ENERGY T	TECHNOLOGY - PHOTO	VOLTAIC
	HCCS Course Requirement	Transfer / S Institution	ubstitutior Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
FIDOT VEAF							
FIRST YEAR							
LEAD 1200							
SOLR 1370	1 0						
SOLR 1370	1						
MATH 1314							
SOLR 1372	<u> </u>						
50LK 1572	On-Old Boldi Energy						
SECOND SE	MESTER						
	Applied Physics						
SOLR 1470							
ELPT 1457							
	Solar Energy Systems						
	5, aj 200						
THIRD SEM	ESTER						
ELPT 1364							
	Installation/Installer, General <u>OR</u>						
ELPT 1391							
	Transmission Installer, General						
SOLR 1471	Photovoltaic Electrical Systems						

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FA	_ VA EDUC	ATIONAL	PLAN/TI	RANSFER S	UBSTITUTION PETITION		rage i oi i
NAME:				SS#:		DATE:	
COLLEGE	:			CATALOG YEA	AR: 13-14		
INST	TRUMENTATION AND CONTROLS	ENGINEER	RING TEC	TECHNOLOGY-THER	MAL		
	HCCS Course Requirement	Transfer / S Institution	ubstitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
FIRST YEAR							
FIRST SEME							
LEAD 1200 SOLR 1374 SOLR 1371	Workforce Development with Critical Thinking						
0							
SCIT 1418	Applied Physics						
SOLR 1372 CNBT 1302	Off-Grid Solar Energy						
	in Construction 1						
THIRD SEME	STER						
ELPT 1364							
	Installation/Installer, General <u>OR</u>						
ELPT 1391	Special Topics in Electrical and Power						
	Transmission Installer, General						
SOLR 1472							
	Troubleshooting						

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FA	VA EDUCA	ATIONAL F	PLAN/TF	RANSFER S	UBSTITUTION PETITION		- age 1 of 1		
NAME:				SS#:	DATE:				
COLLEGE:				CATALOG YE	AR: 13-14				
	INSTRUMENTATION AND CONTR	ROLS ENGI		COUNSELOR G TECHNOLO					
	HCCS Course Requirement	Transfer / Su Institution	ubstitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date		
FIDET VEAD									
FIRST YEAR FIRST SEMES	NTED.								
LEAD     1200       CETT     1402       WIND     1300       CETT     1409       MATH     1314	Workforce Development with Critical Thinking Electricity Principles Introduction to Wind Energy DC-AC Circuits College Algebra								
SECOND SEM	MESTER								
ELMT 1305 SCIT 1418 ENGL 1301 WIND 1302	Wind Turbine Materials and  Electro-Mechanical Equipment  Basic Fluid Power  Applied Physics  Composition I  Wind Safety								
THIRD SEMES									
	Wind Power Delivery System								

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FA	_ VA EDUC	ATIONAL	PLAN/T	RANSFER SUE	BSTITUTION PETITION		Page 1 01 2
NAME:	ME:			SS#:		DATE:	
COLLEGE				COUNSELOR/AL	DVISOR:	CATALOG YEAR: 13-14	
	PETROLEUM 1	ENGINEER	ING TEC	HNOLOGY - ASS	SOCIATE IN APPLIED SCIENCE		
	HCCS Course Requirement	Transfer / S Institution	ubstitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
TSI testing is red	quired prior to first enrollment.						
FIRST YEAR							
FIRST SEME							
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 SE							
PTRT 1470	<u> </u>						
PTRT 1370	Petroleum Geology						
THIRD SEME							
PTRT 1472	Petroleum Data Management II- Drilling						
	and Production						
PTRT 2373	Principles of Enhanced Oil and Gas Recovery						
	and Hydraulic Fracturing						
SECOND YE							
FIRST SEME							
PTRT 1473	Exploration and Production II						
MATH 1325	Elements of Calculus with Applications						
PTRT 2370							
XXXX #3##	Approved Humanities/ Fine Arts General Ed.						
	Elective						
XXXX #3##	General Education Elective						
	(Continued on Dage 2)						
	(Continued on Page 2)						

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	ATIONAL	PLAN/T	RANSFER S SS#:	SUBSTITUTION PETITION	1	Page 2 of 2
NAME:	ME:				DATE:	
COLLEGE:			COUNSELOR	/ADVISOR:	CATALOG YE	AR: 13-14
PETROLEUM	ENGINEER	ING TEC	CHNOLOGY - A	ASSOCIATE IN APPLIED SCIENCE	1	
HCCS Course Requirement	Transfer / S Institution	ubstitutior Course		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 Technolog	y/Technician.					

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FA	<u> </u>	VA EDUC	ATIONAL	PLAN/TF	RANSFER S	UBSTITUTION PETITION		Page 1011
NAME:				DATE:				
COLLE	EGE:				CATALOG YE	AR: 13-14		
			UM ENGIN			GY - CERTIFICATE - LEVEL I	•	
		HCCS Course Requirement	Transfer / S Institution	ubstitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
FIRST Y								
FIRST S	SEMES							
LEAD		Workforce Development with Critical Thinking						
PTRT		Introduction to Petroleum Industry						
TECM		Industrial Mathematics						
PTAC		Safety, Health, and Environment I						
CPMT	1303	Introduction to Computer Technology						
0	0							
SECONE								4
PTRT		Petroleum Data Management I- Exploration						
PTAC		Industrial Processes						4
PTRT		Exploration and Production I						
PTRT	13/0	Petroleum Geology						4
T (	<u> </u>							
THIRD S								
PTRT	1472	Petroleum Data Management II- Drilling						
DEDE	2252	and Production						
PTRT	2372	Internship - Petroleum Technology/Technician						
							•	

Updated:		HOUST	ON COM	MUNITY CC	LLEGE SYSTEM		Page 1 of 1
FA	_ VA EDUC	ATIONAL	PLAN/TF	RANSFER S	UBSTITUTION PETITION		rage i oi i
NAME:				SS#:		DATE:	
COLLEGE	:		/ADVISOR:	CATALOG YE	AR: 13-14		
		RING TEC			E DRILLING TECHNICIAN - CERTIF		
	HCCS Course Requirement	Transfer / S Institution	ubstitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
FIRST YEAR							
FIRST SEME							
LEAD 1200	1						
PTRT 1301	Introduction to Petroleum Industry						
PTAC 1308	Safety, Health, and Environment I						
SECOND SE	MESTER						
PTRT 1403							
PTRT 2331	Well Completions						
PTRT 1321							
	0.1. 0.10.10.10.10.10.10.10.10.10.10.10.10.10						
THIRD SEME	ESTER						
	Internship - Petroleum Technology/Technician						
	The state of the s						

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FA	VA EDUCA	ATIONAL	PLAN/T	RANSFER S	UBSTITUTION PETITION		rage i oi i
NAME:				DATE:			
COLLEGE:				COUNSELOR	/ADVISOR:	CATALOG YE	AR: 13-14
		CESS TECI	•		E IN APPLIED SCIENCE	<b>!</b>	
	HCCS Course Requirement	Transfer / S Institution	Substitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
TSI testing is req	uired prior to first enrollment.						
FIRST YEAR							
FIRST SEMES	STER						
LEAD       1200         PTAC       1302	Workforce Development with Critical Thinking 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 SEN							
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 YEA							
FIRST SEMES							
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 SEM							
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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FA	VA EDUC	ATIONAL	PLAN/TI	RANSFER S	SUBSTITUTION PETITION		rage i oi i
NAME:		,	SS#:	DATE:			
COLLEGE:				CATALOG YE	AR: 13-14		
		ESS TECHN	OLOGY -	- CERTIFICAT	ΓΕ - PROCESS OPERATOR	•	
	HCCS Course Requirement	Transfer / S Institution	ubstitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
FIRST SEMES	STER						
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 SEM							
PTAC 1332	Process Instrumentation I						
PTAC 2420	Process Technology II - Systems						
PTAC 2314	Principles of Quality						
SCIT 1414	Applied General Chemistry I <u>OR</u>						
CHEM 1411	General Chemistry I						
THIRD SEMES							
PTAC 2438	Process Technology III - Operations**						
PTAC 2446	Process Troubleshooting						
The **capstone co	ourse is PTAC 2438 - Process Technology III - Operations	<b>5.</b>					