

Science and Engineering and Mathematics Programs

Engineering and Technology

Biotechnology

- 2 Biotechnology-AAS
- 3 Biotechnology-Certificate

Chemical Engineering Technology

- 4 Chemical Engineering Technology- AAS

Chemical Laboratory Technology

- 5 Chemical Laboratory Technology-AAS
- 7 Chemical Laboratory Technology-Certificate
- 8 Chemical Laboratory Technology - Polymer Technology Specialization - Certificate

Computer and Electronic(s) Engineering Technology

- 9 Biomedical Electronics Specialization-AAS
- 10 Computer Networking Specialization-AAS
- 11 Computer Engineering Technology Specialization-AAS
- 12 CISCO Router Technology Specialization-AAS
- 13 CISCO Router Technology-Certificate
- 14 CISCO Router Technology-Enhanced Skills Certificate
- 15 Wireless Telecommunications Specialization-AAS
- 16 Wireless Telecommunications Specialization-Certificate
- 17 Basic Electronics-Certificate
- 18 Computer Servicing/Networks-Certificate
- 19 Network Security-Certificate

Drafting and Design Engineering Technology

- 20 Drafting and Design Engineering Technology-General Drafting- AAS
- 21 Computer- Aided Drafting- General Drafting Certificate
- 22 Architectural Drafting Specialization- AAS
- 23 Computer- Aided Drafting- Architectural Drafting Specialization- Certificate

- 24 Electromechanical Design Specialization-AAS
- 25 Computer- Aided Drafting- Electromechanical Design Specialization-Certificate
- 26 Mechanical Design Specialization-AAS
- 27 Computer- Aided Drafting- Mechanical Design Specialization-Certificate
- 28 Process Piping Design Specialization- AAS
- 29 Computer- Aided Drafting- Process Piping Design Specialization- Certificate
- 30 Computer- Aided Drafting- Designer- Certificate
- 31 Computer- Aided Drafting- Designer- Architectural Drafting Specialization- Certificate
- 32 Computer- Aided Drafting- Designer- Piping Drafting Specialization- Certificate
- 33 Computer- Aided Drafting- Designer- Mechanical Drafting Specialization- Certificate
- 34 Computer- Aided Drafting- Designer- Electro- Mechanical Drafting Spec.- Certificate
- 35 Computer- Aided Drafting- Designer- Civil/Structural Drafting Specialization- Certificate
- 36 Computer- Aided Drafting- Designer- Basic Piping Drafting-MSA

Instrumentation and Controls Engineering Technology

- 37 Instrumentation and Controls Engineering Technology-AAS
- 38 Instrumentation and Controls Engineering Technology-Certificate

Petroleum Engineering Technology

- 39 Petroleum Engineering Technology- AAS
- 40 Petroleum Engineering Technology- Certificate

Process Technology

- 41 Process Technology-AAS
- 42 Process Technology-Process Operator-Certificate

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

NAME:	SS#:	DATE:
COLLEGE:	COUNSELOR/ADVISOR:	CATALOG YEAR: 08-09

BIOTECHNOLOGY- ASSOCIATE IN APPLIED SCIENCE

HCCS Course Requirement	Transfer/ Institution	Substitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
FIRST YEAR						
FIRST SEMESTER						
MATH 1314 College Algebra						
BITC 1402 Biotechnology Laboratory Methods and Techniques						
BITC 1311 Introduction to Biotechnology						
CHEM 1411 General Chemistry I OR						
SCIT 1414 Applied 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 Science General Education Elective						
BITC 1491 Special Topics in Biological Technology/ Technician						
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 1445 Medical Biotechnology						
XXXX #3## Approved Humanities/Fine Arts General Education Elective						
BITC 2472 Immunological Methods and Techniques						
BITC 2386 Internship- Biological Technology/Technician						

* The Computer Applications Elective may be chosen from the following courses: ITSC 1309 Integrated Software Applications I, POFI 1301 Computer Applications I, or BCIS 1405 Business Computer Application.

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

___ FA ___VA

NAME:	SS#:	DATE:
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CHEMICAL ENGINEERING TECHNOLOGY- ASSOCIATE IN APPLIED SCIENCE

HCCS Course Requirement	Transfer/Substitution Institution	Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
TSI Testing is required prior to first enrollment.						
FIRST YEAR						
FIRST SEMESTER						
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 OR				
CHEM 1411		General Chemistry				
SCIT 1418		Applied Physics I OR				
PHYS 1401		College Physics I				
MATH 1325		Elements of Calculus with Applications				
PTAC 1332		Process Instrumentation I				
THIRD SEMESTER						
CTEC 1419		Special Topics in Chemical Technology/Technician				
SCIT 2401		Applied Organic Chemistry I OR				
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 1491		Special Topics in Chemical Technology/Technician				
PTAC 2420		Process Technology II- Systems				
SECOND SEMESTER						
CTEC 2386		Internship- Chemical Technology/Technician				
PTAC 2446		Process Troubleshooting				
XXXX #3##		Approved Humanities/Fine Arts General Education Elective				
CTEC 2445		Unit Operations				

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

NAME:	SS#:	DATE:
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CHEMICAL LABORATORY TECHNOLOGY- ASSOCIATE IN APPLIED SCIENCE

HCCS Course Requirement	Transfer/ Institution	Substitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
TSI Testing is required prior to first enrollment.						
FIRST YEAR						
FIRST SEMESTER						
ENGL 1301		Composition I				
MATH 1314		College Algebra				
CTEC 1213		Introduction to Chemical Technology				
XXXX #3##		Department Approved Elective				
PSYC 2301		Introduction to Psychology OR				
PSYC 2303		Business Psychology				
SECOND SEMESTER						
SCIT 1414		Applied General Chemistry I OR				
CHEM 1411		General Chemistry I				
BIOL 1406		General Biology I OR				
PHYS 1401		College Physics				
MATH 1342		Statistics				
XXXX #3##		Approved Humanities/Fine Arts General Education Elective				
THIRD SEMESTER						
SCIT 1543		Applied Analytical Chemistry				
SCIT 1415		Applied General Chemistry II OR				
CHEM 1412		General Chemistry II				
SECOND YEAR						
FIRST SEMESTER						
CTEC 1541		Applied Instrumental Analysis I				
SCIT 2401		Applied Organic Chemistry I OR				
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.

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

___ FA ___VA

NAME:	SS#:	DATE:
COLLEGE:	COUNSELOR/ADVISOR:	CATALOG YEAR: 08-09

ELECTRONIC ENGINEERING TECHNOLOGY -AAS - BIOMEDICAL ELECTRONICS SPECIALIZATION

HCCS Course Requirement	Transfer/Substitution Institution	Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
FIRST YEAR						
FIRST SEMESTER						
ENGL 1301 Composition I						
MATH 1314 College Algebra						
PSYC 2302 Applied Psychology OR						
PSYC 2301 Introduction to Psychology						
CETT 1403 DC Circuits						
CETT 1425 Digital Fundamentals						
SECOND SEMESTER						
MATH 1316 Plane Trigonometry						
CETT 1405 AC Circuits						
CETT 1429 Solid State Devices						
CPMT 1303 Introduction to Computer Technology						
THIRD SEMESTER						
MATH 1325 Elements of Calculus						
PHYS 1401 College Physics I						
SECOND YEAR						
FIRST SEMESTER						
BIOM 1309 Applied Biomedical Equipment Technology						
XXXX #3## Approved Humanities/Fine Arts Gen. Ed. Elective						
ENGL 2311 Technical and Industrial Correspondence and Report Writing						
CETT 1331 Technical Programming						
CETT 1457 Linear Intergrated Circuites						
SECOND SEMESTER						
BIOM 2331 Biomedical Clinical Instrumentation						
BIOM 2489 Internship-Biomedical Engineering-Related Technology/Technician						
POFM 1313 Medical Terminology I						
PHYS 1402 College Physics II OR						
CHEM 1413 College Chemistry I						

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

___ FA ___VA

NAME:	SS#:	DATE:
COLLEGE:	COUNSELOR/ADVISOR:	CATALOG YEAR: 08-09

ELECTRONIC ENGINEERING TECHNOLOGY -AAS - COMPUTER NETWORKING SPECIALIZATION

HCCS Course Requirement	Transfer/ Institution	Substitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
FIRST YEAR						
FIRST SEMESTER						
ENGL 1301 Composition I						
MATH 1314 College Algebra						
PSYC 2302 Applied Psychology OR						
PSYC 2301 Introduction to Psychology						
CETT 1403 DC Circuits						
CETT 1425 Digital Fundamentals						
SECOND SEMESTER						
MATH 1316 Plane Trigonometry						
CETT 1405 AC Circuits						
CETT 1429 Solid State Devices						
CPMT 1303 Introduction to Computer Technology						
THIRD SEMESTER						
MATH 1325 Elements of Calculus						
PHYS 1401 College Physics I						
SECOND YEAR						
FIRST SEMESTER						
ENGL 2311 Technical and Industrial Correspondence and Report Writing						
CETT 1331 Technical Programming						
XXXX #4## Program-Related Elective						
CPMT 1449 Computer Networking Technology						
XXXX #3## Approved Humanities/Fine Arts Gen. Ed. Elective						
SECOND SEMESTER						
PHYS 1402 College Physics II OR						
CHEM 1413 College Chemistry I						
CPMT 1411 Introduction to Computer Maintenance						
CPMT 2449 Advanced Computer Networking Technology						
XXXX #3## Program-Related Elective						

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

___ FA ___VA

NAME:	SS#:	DATE:
COLLEGE:	COUNSELOR/ADVISOR:	CATALOG YEAR: 08-09

ELECTRONIC ENGINEERING TECHNOLOGY -AAS - COMPUTER ENGINEERING TECHNOLOGY SPECIALIZATION

HCCS Course Requirement	Transfer/ Institution	Substitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
FIRST YEAR						
FIRST SEMESTER						
ENGL 1301 Composition I						
MATH 1314 College Algebra						
PSYC 2302 Applied Psychology OR						
PSYC 2301 Introduction to Psychology						
CETT 1403 DC Circuits						
CETT 1425 Digital Fundamentals						
SECOND SEMESTER						
MATH 1316 Plane Trigonometry						
CETT 1405 AC Circuits						
CETT 1429 Solid State Devices						
CPMT 1403 Introduction to Computer Technology						
THIRD SEMESTER						
MATH 1325 Elements of Calculus						
ENGL 2311 Technical and Industrial Correspondence and Report Writing						
SECOND YEAR						
FIRST SEMESTER						
CETT 1331 Technical Programming						
PHYS 1401 College Physics I						
CETT 1457 Linear Integrated Circuits						
CETT 1445 Microprocessor						
XXXX #3## Approved Humanities/Fine Arts Gen. Ed. Elective						
SECOND SEMESTER						
PHYS 1402 College Physics II OR						
CHEM 1413 College Chemistry I						
CETT 2435 Advanced Microprocessor						
CPMT 1411 Introduction to Computer Maintenance						
XXXX #3## Program-Related Elective						

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

___ FA ___VA

NAME:	SS#:	DATE:
COLLEGE:	COUNSELOR/ADVISOR:	CATALOG YEAR: 08-09

ELECTRONIC ENGINEERING TECHNOLOGY -AAS - CISCO ROUTER TECHNOLOGY SPECIALIZATION

HCCS Course Requirement	Transfer/Substitution Institution	Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
FIRST YEAR						
FIRST SEMESTER						
ENGL 1301 Composition I						
MATH 1314 College Algebra						
PSYC 2302 Applied Psychology OR						
PSYC 2301 Introduction to Psychology						
CETT 1403 DC Circuits						
CETT 1425 Digital Fundamentals						
SECOND SEMESTER						
MATH 1316 Plane Trigonometry						
CETT 1405 AC Circuits						
CPMT 1411 Introduction to Computer Maintenance						
CPMT 1303 Introduction to Computer Technology						
Third Semester						
ENGL 2311 Technical and Industrial Correspondence and Report Writing						
CETT 1429 Solid State Devices						
SECOND YEAR						
FIRST SEMESTER						
PHYS 1401 College Physics I						
ITCC 1406 CCNA2: Router and Routing Basics						
CPMT 2449 Advanced Computer Networking Technology						
ITCC 1402 CCNA 1: Networking Basics						
SECOND SEMESTER						
ITCC 1442 CCNA 3: Switching Basics and Intermediate Routing						
ITCC 1446 CCNA 4: WAN Technologies						
XXXX #3## Approved Humanities/Fine Arts Gen. Ed. Elective						
XXXX #3## Program-Related Elective OR						
ITCC 2432 CCNP 1: Advanced Routing						

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

___ FA ___VA

NAME:	SS#:	DATE:
COLLEGE:	COUNSELOR/ADVISOR:	CATALOG YEAR: 08-09

ELECTRONIC ENGINEERING TECHNOLOGY - AAS - WIRELESS TELECOMMUNICATIONS SPECIALIZATION

HCCS Course Requirement	Transfer/Substitution Institution	Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
FIRST YEAR						
FIRST SEMESTER						
ENGL 1301 Composition I						
MATH 1314 College Algebra						
PSYC 2302 Applied Psychology OR						
PSYC 2301 Introduction to Psychology						
CETT 1403 DC Circuits						
CETT 1425 Digital Fundamentals						
SECOND SEMESTER						
MATH 1316 Plane Trigonometry						
CETT 1405 AC Circuits						
CETT 1429 Solid State Devices						
CPMT 1449 Computer Networking Technology OR						
ITCC 1402 CCNA 1: Networking Basics						
THIRD SEMESTER						
CPMT 1303 Introduction to Computer Technology						
PHYS 1401 College Physics I						
SECOND YEAR						
FIRST SEMESTER						
ENGL 2311 Technical and Industrial Correspondence and Report Writing						
CETT 1331 Technical Programming						
CETT 1457 Linear Integrated Circuits						
ITSY 1417 Wireless Foundations						
SECOND SEMESTER						
EECT 2439 Communications Circuits						
XXXX #3## Approved Humanities/Fine Arts Gen. Ed. Elective						
ITSY 1427 Telecommunications Media: Physical Layer Implementation OR						
EECT 1440 Telecommunications Transmission Media						
ITSY 2417 Wireless Security Development						

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

___ FA ___VA

NAME:	SS#:	DATE:
COLLEGE:	COUNSELOR/ADVISOR:	CATALOG YEAR: 08-09

DRAFTING AND DESIGN ENGINEERING TECHNOLOGY- AAS- GENERAL DRAFTING

HCCS Course Requirement	Transfer/Substitution Institution	Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
TSI Testing is required prior to first enrollment						
FIRST YEAR						
FIRST SEMESTER						
DFTG 1305 Technical Drafting						
ENGL 1301 Composition I						
MATH 1314 College Algebra						
PSYC 2301 Introduction to Psychology						
DFTG 1309 Basic Computer-Aided Drafting						
SECOND SEMESTER						
DFTG 2319 Intermediate Computer-Aided Drafting						
DFTG 1358 Electrical/ Electronics Drafting						
DFTG 1333 Mechanical Drafting						
MATH 1316 Plane Trigonometry						
XXXX #3## Approved Humanities/Fine Arts Elective						
SECOND YEAR						
FIRST SEMESTER						
DFTG 2317 Descriptive Geometry						
DFTG 2335 Advanced Technologies in Mechanical Design and Drafting						
DFTG 2302 Machine Drafting						
DFTG 1317 Architectural Drafting- Residential						
ENGL 2311 Technical and Industrial Correspondence and Report Writing						
SECOND SEMESTER						
DFTG 1310 Basic Computer- Aided Drafting- Microstation						
ARCE 1352 Structural Drafting						
DFTG 2330 Civil Drafting						
DFTG 2323 Pipe Drafting						
DFTG 2381 Cooperative Education OR						
DFTG 2338 Final Project						

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

___ FA ___VA

NAME:	SS#:	DATE:
COLLEGE:	COUNSELOR/ADVISOR:	CATALOG YEAR: 08-09

DRAFTING AND DESIGN ENGINEERING TECHNOLOGY- AAS-ARCHITECTURAL DRAFTING SPECIALIZATION

HCCS Course Requirement	Transfer/ Institution	Substitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
First Year						
FIRST SEMESTER						
DFTG 1305 Technical Drafting						
ENGL 1301 Composition I						
MATH 1314 College Algebra						
PSYC 2301 Introduction to Psychology						
DFTG 1309 Basic Computer- Aided Drafting						
SECOND SEMESTER						
DFTG 1317 Architectural Drafting- Residential						
DFTG 2319 Intermediate Computer- Aided Drafting						
XXXX #3## Approved Humanities/ Fine Arts Elective						
DFTG 2330 Civil Drafting						
MATH 1316 Plane Trigonometry						
Second Year						
FIRST SEMESTER						
DFTG 2317 Descriptive Geometry						
DFTG 2300 Intermediate Architectural Drafting- Residential						
DFTG 1392 Special Topics in Architectural Drafting and Architectural CAD/CADD						
ARCE 1352 Structural Drafting						
ENGL 2311 Technical and Industrial Correspondence and Report Writing						
SECOND SEMESTER						
DFTG 1310 Basic Computer- Aided Drafting- Microstation						
DFTG 2328 Architectural Drafting- Commercial						
DFTG 2331 Advanced Technologies in Architectural Design and Drafting						
ARCE 2352 Mechanical and Electrical Systems						
DFTG 2381 Cooperative Education OR						
DFTG 2338 Final Project						

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

___ FA ___VA

NAME:	SS#:	DATE:
COLLEGE:	COUNSELOR/ADVISOR:	CATALOG YEAR: 08-09

DRAFTING AND DESIGN ENGINEERING TECHNOLOGY - AAS - ELECTROMECHANICAL DESIGN SPECIALIZATION

HCCS Course Requirement	Transfer/ Institution	Substitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
TSI Testing is required prior to first enrollment						
FIRST YEAR						
FIRST SEMESTER						
DFTG 1305 Technical Drafting						
ENGL 1301 Composition I						
MATH 1314 College Algebra						
PSYC 2301 Introduction to Psychology						
DFTG 1309 Basic Computer-Aided Drafting						
SECOND SEMESTER						
DFTG 1358 Electrical/Electronics Drafting						
DFTG 2319 Intermediate Computer-Aided Drafting						
XXXX #3## Approved Humanities/Fine Arts Elective						
DFTG 1333 Mechanical Drafting						
MATH 1316 Plane Trigonometry						
SECOND YEAR						
FIRST SEMESTER						
DFTG 2317 Descriptive Geometry						
DFTG 1329 Electromechanical Drafting						
DFTG 2340 Solid Modeling/Design						
DFTG 2302 Machine Drafting						
ENGL 2311 Technical and Industrial Correspondence and Report Writing						
SECOND SEMESTER						
DFTG 2305 Printed Circuit Board Design						
DFTG 1310 Basic Computer- Aided Drafting- Microstation						
DFTG 2335 Advanced Technologies in Mechanical Design and Drafting						
DFTG 1394 Special Topics in Electrical/ Electronics Drafting and Electrical/ Electronics CAD/CADD						
DFTG 2381 Cooperative Education OR						
DFTG 2338 Final Project						

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

___ FA ___VA

NAME:	SS#:	DATE:
COLLEGE:	COUNSELOR/ADVISOR:	CATALOG YEAR: 08-09

DRAFTING AND DESIGN ENGINEERING TECHNOLOGY - AAS - MECHANICAL DESIGN SPECIALIZATION

HCCS Course Requirement	Transfer/ Institution	Substitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
TSI Testing is required prior to first enrollment						
FIRST YEAR						
FIRST SEMESTER						
DFTG 1305 Technical Drafting						
ENGL 1301 Composition I						
MATH 1314 College Algebra						
PSYC 2301 Introduction to Psychology						
DFTG 1309 Basic Computer-Aided Drafting						
SECOND SEMESTER						
DFTG 1333 Mechanical Drafting						
DFTG 2319 Intermediate Computer-Aided Drafting						
XXXX #3## Approved Humanities/Fine Arts Elective						
DFTG 2302 Machine Drafting						
MATH 1316 Plane Trigonometry						
SECOND YEAR						
FIRST SEMESTER						
DFTG 2340 Solid Modeling/Design						
DFTG 2317 Descriptive Geometry						
DFTG 1358 Electrical/Electronics Drafting						
DFTG 2306 Machine Drafting						
ENGL 2311 Technical and Industrial Correspondence and Report Writing						
SECOND SEMESTER						
DFTG 1310 Basic Computer- Aided Drafting- Microstation						
DFTG 1329 Electromechanical Drafting						
DFTG 2335 Advanced Technologies in Mechanical Design and Drafting						
DFTG 2358 Advanced Machine Design						
DFTG 2381 Cooperative Education OR						
DFTG 2338 Final Project						

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

___ FA ___VA

NAME:	SS#:	DATE:
COLLEGE:	COUNSELOR/ADVISOR:	CATALOG YEAR: 08-09

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

HCCS Course Requirement	Transfer/ Institution	Substitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
TSI Testing is required prior to first enrollment						
FIRST YEAR						
FIRST SEMESTER						
DFTG 1305 Technical Drafting						
ENGL 1301 Composition I						
MATH 1314 College Algebra						
PSYC 2301 Introduction to Psychology						
DFTG 1309 Basic Computer-Aided Drafting						
SECOND SEMESTER						
DFTG 2319 Intermediate Computer-Aided Drafting						
DFTG 2323 Pipe Drafting						
DFTG 2317 Descriptive Geometry						
MATH 1316 Plane Trigonometry						
XXXX #3## Approved Humanities/Fine Arts Elective						
SECOND YEAR						
FIRST SEMESTER						
DFTG 1310 Basic Computer-Aided Drafting-Microstation						
DFTG 2345 Advanced Pipe Drafting						
DFTG 1391 Special Topics in Drafting and Design Technology/ Technician, General						
DFTG 1396 Special Topics in Computer Graphics						
ENGL 2311 Technical and Industrial Correspondence and Report Writing						
SECOND SEMESTER						
DFTG 2370 Intermediate Computer-Aided Drafting- Microstation						
DFTG 2308 Instrumentation Drafting						
ARCE 1352 Structural Drafting						
DFTG 2371 Advanced Technologies in Process Plant Design						
DFTG 2381 Cooperative Education OR						
DFTG 2338 Final Project						

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

___ FA ___VA

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

HCCS Course Requirement	Transfer/ Institution	Substitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
TSI Testing is required prior to first enrollment						
FIRST YEAR						
FIRST SEMESTER						
INTC 1312 Introduction to Instrumentation and Safety Technology						
INTC 1456 Instrumentation Calibration						
CPMT 1407 Electronic and Computer Skills						
MATH 1314 College Algebra						
SECOND SEMESTER						
ENGL 1301 English Composition						
MATH 1316 Trigonometry						
INTC 1441 Principles of Automatic Control						
XXXX #4## Department Approved Elective						
XXXX #3## Approved Humanities/Fine Arts General Education Elective						
SECOND YEAR						
FIRST SEMESTER						
INTC 1343 Application of Industrial Automatic Control						
SPCH #3## Speech Elective						
INTC 2330 Troubleshooting						
XXXX #3## Program-Related Elective						
PHYS 1401 College Physics						
SECOND SEMESTER						
XXXX #3## Math/Natural Science Elective						
XXXX #3## Social Science General Education Elective						
XXXX #3## Program-Related Elective						
INTC 2436 Distributed Control & Programmable Logic OR						
INTC 2480 Cooperative Education-Instrumentation Technology/Technician						

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

___ FA ___VA

NAME:	SS#:	DATE:
COLLEGE:	COUNSELOR/ADVISOR:	CATALOG YEAR: 08-09

PETROLEUM ENGINEERING TECHNOLOGY - ASSOCIATE IN APPLIED SCIENCE

HCCS Course Requirement	Transfer/Substitution Institution	Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
FIRST YEAR						
FIRST SEMESTER						
MATH 1314 College Algebra						
ENGL 1301 Composition I						
PTRT 1470 Petroleum Data Management I- Exploration						
PTAC 1308 Safety, Health, and Environment I						
PTRT 1301 Overview of Petroleum Industry						
SECOND SEMESTER						
CTEC 1401 Applied Petrochemical Technology						
PTRT 1471 Exploration and Production I						
PTRT 1370 Petroleum Geology						
PTRT 1472 Petroleum Data Management II- Drilling and Production						
THIRD SEMESTER						
PTRT 2380 Cooperative Education- Petroleum Technology/Technician						
SECOND YEAR						
FIRST SEMESTER						
PTRT 1473 Exploration and Production						
MATH 1325 Elements of Calculus with Applications						
PTRT 2370 Petroleum Operations						
XXXX #3## Approved Humanities/ Fine Arts General Education Elective						
SECOND SEMESTER						
PTRT 2331 Well Completions						
PTRT 2371 Principles of Reservoir Engineering						
PTRT 2470 Petroleum Data Management III- Facilities and Performance						
PTRT 2423 Natural Gas Production						
THIRD SEMESTER						
PTRT 2372 Internship/ Petroleum Technology/ Technician						
XXXX #3## Approved Social/ Behavioral Science General Education Elective						

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

___ FA ___VA

NAME:	SS#:	DATE:
COLLEGE:	COUNSELOR/ADVISOR:	CATALOG YEAR: 08-09

PROCESS TECHNOLOGY - ASSOCIATE IN APPLIED SCIENCE

HCCS Course Requirement	Transfer/ Institution	Substitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
TSI Testing is required prior to first enrollment						
FIRST YEAR						
FIRST SEMESTER						
ENGL 1301 Composition I						
MATH 1314 College Algebra						
SOCI 1301 Introduction to Sociology						
PTAC 1302 Introduction to Process Technology						
PTAC 1308 Safety, Health and Environment I						
SECOND SEMESTER						
SCIT 1418 Applied Physics *						
SCIT 1414 Applied General Chemistry I						
PTAC 1410 Process Technology I - Equipment						
PTAC 1332 Process Instrumentation I						
SECOND YEAR						
FIRST SEMESTER						
SPCH 1311 Fundamentals of Speech						
PTAC 2314 Principles of Quality						
PTAC 2420 Process Technology II - Systems						
PTAC 1354 Industrial Processes						
BMGT 1301 Supervision						
SECOND SEMESTER						
PTAC 2446 Process Troubleshooting						
HRPO 2301 Human Resource Management						
XXXX #3## Approved Humanities/Fine Arts Gen. Ed. Elective						
PTAC 2438 Process Technology III - Operations						

* PHYS 1401 may be substituted

