

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

NAME:	SS#:	DATE:
COLLEGE:	COUNSELOR/ADVISOR:	CATALOG YEAR: 09-10

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						
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 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## Humanities/Fine Arts Elective						
BITC 2472 Immunological Methods and Techniques						
BITC 2386 Internship- Biological Technology/Technician						

**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/ Institution	Substitution 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 1491 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## Humanities/Fine Arts Elective						
CTEC 2445 Unit Operations						

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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						
CTEC 1213 Introduction to Chemical Technology						
ENGL 1301 Composition I						
MATH 1314 College Algebra						
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## Humanities/Fine Arts 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.

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ELECTRONIC ENGINEERING TECHNOLOGY -AAS - BIOMEDICAL ELECTRONICS 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						
CPMT 1303 Introduction to Computer Technology						
ENGL 1301 Composition I						
MATH 1314 College Algebra						
CETT 1403 DC Circuits						
CETT 1425 Digital Fundamentals						
SECOND SEMESTER						
MATH 1316 Plane Trigonometry						
CETT 1405 AC Circuits						
CETT 1429 Solid State Devices						
XXXX #3## Social/Behavioral Science Elective						
THIRD SEMESTER						
MATH 1325 Elements of Calculus						
PHYS 1401 College Physics I						
SECOND YEAR						
FIRST SEMESTER						
BIOM 1309 Applied Biomedical Equipment Technology						
XXXX #3## Humanities/Fine Arts Elective						
ENGL 2311 Technical and Industrial Correspondence and Report Writing						
CETT 1331 Technical Programming						
CETT 1457 Linear Intergrated Circuities						
SECOND SEMESTER						
BIOM 2331 Biomedical Clinical Instrumentation						
POFM 1313 Medical Terminology I						
PHYS 1402 College Physics II OR						
CHEM 1413 College Chemistry I						
BIOM 2489 Internship-Biomedical Engineering-Related Technology/Technician						

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ELECTRONIC ENGINEERING TECHNOLOGY -AAS - COMPUTER NETWORKING 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						
CPMT 1303 Introduction to Computer Technology						
ENGL 1301 Composition I						
MATH 1314 College Algebra						
CETT 1403 DC Circuits						
CETT 1425 Digital Fundamentals						
SECOND SEMESTER						
MATH 1316 Plane Trigonometry						
CETT 1405 AC Circuits						
CETT 1429 Solid State Devices						
XXXX #3## Social/Behavioral Science Elective						
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## Humanities/Fine Arts Elective						
SECOND SEMESTER						
PHYS 1402 College Physics II OR						
CHEM 1413 College Chemistry I						
CPMT 1411 Introduction to Computer Maintenance						
XXXX #3## Program-Related Elective						
CPMT 2449 Advanced Computer Networking Technology						

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ELECTRONIC ENGINEERING TECHNOLOGY -AAS - COMPUTER ENGINEERING TECHNOLOGY 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						
CPMT 1303 Introduction to Computer Technology						
ENGL 1301 Composition I						
MATH 1314 College Algebra						
CETT 1403 DC Circuits						
CETT 1425 Digital Fundamentals						
SECOND SEMESTER						
MATH 1316 Plane Trigonometry						
CETT 1405 AC Circuits						
CETT 1429 Solid State Devices						
XXXX #3## Social/Behavioral Science Elective						
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## Humanities/Fine Arts Elective						
SECOND SEMESTER						
PHYS 1402 College Physics II OR						
CHEM 1413 College Chemistry I						
CPMT 1411 Introduction to Computer Maintenance						
XXXX #3## Program-Related Elective						
CETT 2435 Advanced Microprocessor						

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ELECTRONIC ENGINEERING TECHNOLOGY -AAS - CISCO ROUTER TECHNOLOGY SPECIALIZATION

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						
CPMT 1303		Introduction to Computer Technology				
ENGL 1301		Composition I				
MATH 1314		College Algebra				
CETT 1403		DC Circuits				
CETT 1425		Digital Fundamentals				
SECOND SEMESTER						
MATH 1316		Plane Trigonometry				
CETT 1405		AC Circuits				
CPMT 1411		Introduction to Computer Maintenance				
XXXX #3##		Social/Behavioral Science Elective				
Third Semester						
ENGL 2311		Technical and Industrial Correspondence and Report Writing				
ITCC 1401		Exploration-Network Fundamentals				
SECOND YEAR						
FIRST SEMESTER						
ITCC 1404		Cisco Expl. 2-Routing Protocols & Concepts				
CETT 1429		Solid State Devices				
ITCC 2408		Cisco Expl. 3-LAN Switching & Wireless				
CPMT 2449		Advanced Computer Networking Technology				
SECOND SEMESTER						
PHYS 1401		College Physics I				
XXXX #3##		Humanities/Fine Arts Elective				
XXXX #3##		Program-Related Elective				
ITCC 2410		Cisco Expl. 4-Accessing the WAN				

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ELECTRONIC ENGINEERING TECHNOLOGY - AAS - WIRELESS TELECOMMUNICATIONS SPECIALIZATION

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						
CPMT 1303 Introduction to Computer Technology						
ENGL 1301 Composition I						
MATH 1314 College Algebra						
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 1401 Exploration-Network Fundamentals						
THIRD SEMESTER						
XXXX #3## Social/Behavioral Science Elective						
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						
XXXX #3## Humanities/Fine Arts Elective						
EECT 2402 Voice over Internet Protocol (VOIP) Systems						
ITSY 2417 Wireless Security Development						
EECT 2439 Communications Circuits						

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DRAFTING AND DESIGN ENGINEERING TECHNOLOGY- AAS- GENERAL DRAFTING

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						
LEAD 1200 Workforce Development with Critical Thinking						
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## 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 Specialized Basic Computer Aided Drafting (CAD)						
ARCE 1352 Structural Drafting						
DFTG 2330 Civil Drafting						
DFTG 2323 Pipe Drafting						
DFTG 2381 Cooperative Education OR						
DFTG 2338 Final Project-Advanced Drafting						

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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
TSI Testing is required prior to first enrollment.						
FIRST YEAR						
FIRST SEMESTER						
LEAD 1200 Workforce Development with Critical Thinking						
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## 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 Tech. & Ind. Correspondence & Report Writing						
SECOND SEMESTER						
DFTG 1310 Specialized Basic Computer Aided Drafting (CAD)						
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-Advanced Drafting						

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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						
LEAD 1200 Workforce Development with Critical Thinking						
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## 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 Specialized Basic Computer Aided Drafting (CAD)						
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-Advanced Drafting						

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NAME:	SS#:	DATE:
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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						
LEAD 1200 Workforce Development with Critical Thinking						
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## 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 Specialized Basic Computer Aided Drafting (CAD)						
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-Advanced Drafting						

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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						
LEAD 1200 Workforce Development with Critical Thinking						
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## Humanities/Fine Arts Elective						
SECOND YEAR						
FIRST SEMESTER						
DFTG 1310 Specialized Basic Computer Aided Drafting (CAD)						
DFTG 2308 Instrumentation 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 2345 Advanced Pipe Drafting						
ARCE 1352 Structural Drafting						
DFTG 2371 Advanced Technologies in Process Plant Design						
DFTG 2381 Cooperative Education OR						
DFTG 2338 Final Project-Advanced Drafting						

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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						
ELPT 1311 Basic Electrical Theory						
MATH 1314 College Algebra						
SECOND SEMESTER						
ENGL 1301 Composition I						
MATH 1316 Trigonometry						
INTC 1441 Principles of Automatic Control						
XXXX #4## Department Approved Elective						
XXXX #3## Humanities/Fine Arts 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 OR						
SCIT 1418 Applied Physics I						
SECOND SEMESTER						
XXXX #3## Math/Natural Science Elective						
XXXX #3## Social/Behavioral Science Elective						
XXXX #4## Program-Related Elective						
INTC 2436 Distributed Control & Programmable Logic OR						
INTC 2480 Cooperative Education-Instrumentation Technology/Technician						

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PETROLEUM 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						
PTRT 1301 Introduction to Petroleum Industry						
MATH 1314 College Algebra						
ENGL 1301 Composition I						
PTRT 1470 Petroleum Data Management I- Exploration						
PTAC 1308 Safety, Health, and Environment I						
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						
SECOND YEAR						
FIRST SEMESTER						
PTRT 1473 Exploration and Production						
MATH 1325 Elements of Calculus with Applications						
PTRT 2370 Petroleum Operations						
XXXX #3## Humanities/ Fine Arts 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						
XXXX #3## Social/ Behavioral Science Elective						
PTRT 2372 Internship/ Petroleum Technology/ Technician						

