

Science and Engineering-related Technologies

Biotechnology

- 2 Biotechnology AAS
- 3 Biotechnology Certificate

Chemical Laboratory

- 4 Chemical Laboratory Technology AAS
- 6 Chemical Laboratory Technology Certificate
- 7 Chemical Laboratory Technology - Municipal and Industrial Water Treatment Operation
- 8 Chemical Laboratory Technology - Certificate - Polymer Technology Specialization

Drafting and Design Technology

- 9 Architectural Drafting AAS
- 10 Architectural Drafting Certificate
- 11 Electromechanical Design AAS
- 12 Electromechanical Design Certificate
- 13 Mechanical Design AAS
- 14 Mechanical Design Certificate
- 15 Process Piping Design Specialization - AAS
- 16 Process Piping Design Specialization - Certificate
- 17 Computer Aided Drafting Certificate

Electronic Engineering Technology

- 18 Biomedical Electronics AAS
- 19 Computer Networking AAS
- 20 Computer Engineering Technology AAS
- 21 CISCO Router Technology AAS
- 22 CISCO Router Technology Certificate
- 23 CISCO Router Technology (Enhanced Skills Certificate)
- 24 Telecommunications AAS
- 25 Telecommunications Certificate
- 26 Basic Electronics Certificate
- 27 Computer Servicing/Networks Certificate
- 28 Network/Security Certificate

Horticulture

- 29 Horticulture AAS
- 31 Landscape Horticulture Certificate
- 32 Golf Course Management Certificate
- 33 Golf Course Landscape/Equipment Technician Certificate (Marketable Skills Achievement)
- 34 Nursery and Floral Production Certificate
- 35 Gulf Coast Gardener Award (Marketable Skills Achievement)

Instrumentation Technology

- 36 Instrumentation Technology AAS
- 37 Instrumentation Technology Certificate
- 38 Instrumentation Technology - Certificate - Fuel Cell Specialization

Process Technology

- 39 Process Technology AAS
- 40 Process Piping Technology Certificate

Veterinary Paramedic

- 41 Veterinary Paramedic Certificate

**HOUSTON COMMUNITY COLLEGE SYSTEM
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NAME:	SS#:	DATE:
COLLEGE:	COUNSELOR/ADVISOR:	CATALOG YEAR: 04-05

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 1311 Introduction to Biotechnology						
ENGL 1301 Composition I						
XXXX#3## Computer Applications Elective*						
BIOL 1406 General Biology I						
SECOND SEMESTER						
BITC 1401 Biotechnology Laboratory Instrumentation						
BIOL 1407 General Biology II						
CHEM1411 General Chemistry I OR						
SCIT 1414 Applied General Chemistry I						
BIOL 2420 Microbiology						
THIRD SEMESTER						
BITC 1402 Biotechnology Laboratory Methods and Techniques						
CHEM1412 General Chemistry II OR						
SCIT 1415 Applied General Chemistry II						
SCIT 1543 Applied Analytical Chemistry						
SECOND YEAR						
FIRST SEMESTER						
BITC 2401 Molecular Biology Techniques						
BITC 2431 Cell Culture Techniques						
XXXX #3## Social Science General Education Elective						
XXXX #3## Approved Humanities/Fine Arts Gen. Ed. Elective						
SECOND SEMESTER						
BITC 2471 Medical Biotechnology						
BITC 2386 Internship - Biological Technology/Technician						
XXXX #4## Department Approved Program-Related Elective						

*POFI 1301, ITSC 1309, COSC 1401 or BCIS 1405.

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DRAFTING AND DESIGN TECHNOLOGY - AAS - ARCHITECTURAL DRAFTING SPECIALIZATION

HCCS Course Requirement	Transfer/Substitution Institution	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 2317 Descriptive Geometry						
MATH 1316 Plane Trigonometry						
SECOND YEAR						
FIRST SEMESTER						
DFTG 1309 Basic Computer-Aided Drafting (Repeat for credit using different software)						
DFTG 2340 Solid Modeling/Design						
DFTG 2380 Cooperative Education						
DFTG 2328 Architectural Drafting-Commercial						
ENGL 2311 Technical and Industrial Correspondence and Report Writing						
SECOND SEMESTER						
DFTG 2352 Mechanical and Electrical Systems						
DFTG 2330 Civil Drafting						
DFTG 2319 Intermediate Computer-Aided Drafting (Repeat for credit using different software)						
DFTG 2310 Structural Drafting						
DFTG 2380 Cooperative Education						

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DRAFTING AND DESIGN TECHNOLOGY - AAS - ELECTROMECHANICAL DESIGN 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 1329 Electromechanical Drafting						
DFTG 2319 Intermediate Computer-Aided Drafting						
XXXX #3## Approved Humanities/Fine Arts Gen. Ed. Elective						
DFTG 2317 Descriptive Geometry						
MATH 1316 Plane Trigonometry						
SECOND YEAR						
FIRST SEMESTER						
DFTG 1309 Basic Computer-Aided Drafting						
(Repeat for credit using different software)						
DFTG 2340 Solid Modeling/Design						
DFTG 2380 Cooperative Education						
DFTG 1358 Electrical/Electronics Drafting						
ENGL 2311 Technical and Industrial Correspondence and Report Writing						
SECOND SEMESTER						
DFTG 2305 Printed Circuit Board Design						
DFTG 2308 Instrumentation Drafting						
DFTG 2319 Intermediate Computer-Aided Drafting						
(Repeat for credit using different software)						
DFTG 2316 Electrical Drafting						
DFTG 2380 Cooperative Education						

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DRAFTING AND DESIGN TECHNOLOGY - AAS - MECHANICAL DESIGN 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 1333 Mechanical Drafting						
DFTG 2319 Intermediate Computer-Aided Drafting						
XXXX #3## Approved Humanities/Fine Arts Gen. Ed. Elective						
DFTG 2317 Descriptive Geometry						
MATH 1316 Plane Trigonometry						
SECOND YEAR						
FIRST SEMESTER						
DFTG 1309 Basic Computer-Aided Drafting						
(Repeat for credit using different software)						
DFTG 2340 Solid Modeling/Design						
DFTG 2380 Cooperative Education						
DFTG 2302 Machine Drafting						
ENGL 2311 Technical and Industrial Correspondence and Report Writing						
SECOND SEMESTER						
DFTG 2306 Machine Design						
DFTG 1329 Electromechanical Drafting						
DFTG 2319 Intermediate Computer-Aided Drafting						
(Repeat for credit using different software)						
DFTG 2358 Advanced Machine Design						
DFTG 2380 Cooperative Education						

Note: Advanced Computer-Aided Drafting Electives: DFTG 1302, DFTG 1391, DFTG 2331, DFTG 2332 and DFTG 23

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DRAFTING AND DESIGN TECHNOLOGY - AAS - PROCESS PIPING DESIGN 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 2323 Pipe Drafting						
DFTG 2319 Intermediate Computer-Aided Drafting						
XXXX #3## Approved Humanities/Fine Arts Gen. Ed. Elective						
DFTG 2317 Descriptive Geometry						
MATH 1316 Plane Trigonometry						
SECOND YEAR						
FIRST SEMESTER						
DFTG 1309 Basic Computer-Aided Drafting						
(Repeat for credit using different software)						
DFTG 2340 Solid Modeling/ Design						
DFTG 2380 Cooperative Education						
DFTG 2345 Advanced Pipe Drafting						
ENGL 2311 Technical and Industrial Correspondence						
and Report Writing						
SECOND SEMESTER						
DFTG 2310 Structural Drafting						
DFTG 2308 Instrumentation Drafting						
DFTG 2319 Intermediate Computer-Aided Drafting						
(Repeat for credit using different software)						
DFTG #3## Advanced Computer-Aided Drafting Elective						
DFTG 2380 Cooperative Education						

Note: Advanced Computer-Aided Drafting Electives: DFTG 1302, DFTG 1391, DFTG 2331, DFTG 2332 and DFTG 2335

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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
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						
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 Intergrated Circuites						
BIOM 1309 Applied Biomedical Equipment Technology						
XXXX #3## Approved Humanities/Fine Arts Gen. Ed. Elective						
SECOND SEMESTER						
PHYS 1402 College Physics II OR						
CHEM 1413 College Chemistry I						
BIOM 2331 Biomedical Clinical Instrumentation						
BIOM 2489 Internship-Biomedical Engineering-related Technology/Technician						
POFM 1313 Medical Terminology I						

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ELECTRONIC ENGINEERING TECHNOLOGY -AAS - COMPUTER NETWORKING 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 1403 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 #3## 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						
CHEM1413 College Chemistry I						
CPMT 1411 Introduction to Computer Maintenance						
CPMT 2449 Advanced Computer Networking Technology						
XXXX#3## Program-Related Elective						

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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
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						

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ELECTRONIC ENGINEERING TECHNOLOGY -AAS - CISCO ROUTER 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						
CPMT 1411 Introduction to Computer Maintenance						
CPMT 1403 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 Cisco 2: 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## Program-Related Elective OR						
ITCC 2432 CCNA 5: Advanced Routing						
XXXX #3## Approved Humanities/Fine Arts Gen. Ed. Elective						

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ELECTRONIC ENGINEERING TECHNOLOGY - AAS - TELECOMMUNICATIONS 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						
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						
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						
EECT 2433 Telephone Systems						
EECT 2439 Communications Circuits						
XXXX#3## Program-Related Elective						

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PROCESS TECHNOLOGY - ASSOCIATE IN APPLIED SCIENCE

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						
SOCI 1301 Introduction to Sociology						
PTAC 1302 Introduction to Process Technology						
PTAC 1308 Safety, Health and Environment I						
SECOND SEMESTER						
XXXX #3## Computer Applications Elective*						
SCIT 1418 Applied Physics **						
SCIT 1414 Applied General Chemistry I						
PTAC 2410 Process Technology I - Equipment						
PTAC 1352 Process Instrumentation I						
SECOND YEAR						
FIRST SEMESTER						
SPCH 1311 Fundamentals of Speech						
PTAC 2314 Quality						
PTAC 2420 Process Technology II - Systems						
PTAC 2334 Industrial Processes						
BMGT 1301 Supervision						
SECOND SEMESTER						
PTAC 2438 Process Technology III - Operations						
PTAC 2446 Process Troubleshooting						
HRPO 2301 Human Resource Management						
XXXX #3## Approved Humanities/Fine Arts Gen. Ed. Elective						

* POFI 1301, ITSC 1309, COSC 1401 or BCIS 1405.

**PHYS 1401 may be substituted.

