

Science and Engineering-Related Technologies

Biotechnology

- 2 Biotechnology-AAS
- 3 Biotechnology-Certificate

Chemical Laboratory Technology

- 4 Chemical Laboratory Technology-AAS
- 6 **Chemical Analytical Instrumentation-Advanced Technical Certificate***
- 7 Chemical Laboratory Technology-Certificate
- 8 Chemical Laboratory Technology-Municipal and Industrial Water Treatment Operation-Certificate
- 9 Chemical Laboratory Technology - Polymer Technology Specialization - Certificate

Drafting and Design Technology

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

Electronic Engineering Technology

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

- 29 Network/Security-Certificate

Horticulture

- 30 Horticulture-AAS
- 32 Landscape Horticulture-Certificate
- 33 Golf Course Operations/Grounds Management-AAS
- 35 Golf Course Technician-Certificate
- 36 Golf Course Landscape/Equipment Technician-Marketable Skills Achievement Award
- 37 Nursery and Floral Production-Certificate
- 38 Gulf Coast Gardener Award-Marketable Skills Achievement Award

Instrumentation Technology

- 39 Instrumentation Technology-AAS
- 40 Instrumentation Technology-Certificate
- 41 Instrumentation Technology-Fuel Cell Specialization-Certificate

Process Technology

- 42 Process Technology-AAS
- 43 Process Piping Technology-Certificate

Veterinary Paramedic

- 44 Veterinary Paramedic-Certificate

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

___ FA ___ VA

NAME:	SS#:	DATE:
COLLEGE:	COUNSELOR/ADVISOR:	CATALOG YEAR: 05-06

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 1401 Biotechnology Laboratory Instrumentation						
BITC 1311 Introduction to Biotechnology						
ENGL 1301 Composition I						
XXXX#3## Computer Applications Elective*						
SECOND SEMESTER						
BITC 1402 Biotechnology Laboratory Methods and Techniques						
BIOL 1406 General Biology I						
CHEM1411 General Chemistry I OR						
SCIT 1414 Applied General Chemistry I						
BITC 1370 Introduction to Biochemistry						
THIRD SEMESTER						
SCIT 2401 Applied Organic Chemistry I OR						
CHEM2423 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 2401 Molecular Biology Techniques						
BIOL 2420 Microbiology						
BIOL 2402 Anatomy and Physiology I						
SECOND SEMESTER						
BITC 2386 Internship-Biological Technology/Technician						
BITC 2471 Medical Biotechnology						
XXXX#3## Approved Humanities/Fine Arts General Education Elective						
BITC 2472 Immunological Methods and Techniques						

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

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

___ FA ___ VA

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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
FIRST YEAR						
FIRST SEMESTER						
ENGL 1301 Composition I						
MATH 1314 College Algebra						
CTEC 1213 Introduction to Chemical Technology						
XXXX #3## Computer Applications 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 Gen. Ed. 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**						
SECOND SEMESTER (SEE PAGE 2)						

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

___ FA ___ VA

NAME:	SS#:	DATE:
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DRAFTING AND DESIGN 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 2317 Descriptive Geometry						
MATH 1316 Plane Trigonometry						
SECOND YEAR						
FIRST SEMESTER						
DFTG 1370 Basic Computer-Aided Drafting- Microstation						
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 2370 Intermediate Computer-Aided Drafting- Microstation						
DFTG 2310 Structural Drafting						
DFTG 2381 Cooperative Education						

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

___ FA ___ VA

NAME:	SS#:	DATE:
COLLEGE:	COUNSELOR/ADVISOR:	CATALOG YEAR: 05-06

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 2380 Cooperative Education						
DFTG 1370 Basic Computer-Aided Drafting- Microstation						
DFTG 2340 Solid Modeling/Design						
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 2370 Intermediate Computer-Aided Drafting- Microstation						
DFTG 2316 Electrical Drafting						
DFTG 2381 Cooperative Education						

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

___ FA ___ VA

NAME:	SS#:	DATE:
COLLEGE:	COUNSELOR/ADVISOR:	CATALOG YEAR: 05-06

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 1370 Basic Computer-Aided Drafting- Microstation						
DFTG 2340 Solid Modeling/Design						
DFTG 2302 Machine Drafting						
ENGL 2311 Technical and Industrial Correspondence and Report Writing						
DFTG 2380 Cooperative Education						
SECOND SEMESTER						
DFTG 2306 Machine Design						
DFTG 1329 Electromechanical Drafting						
DFTG 2370 Intermediate Computer-Aided Drafting Microstation						
DFTG 2358 Advanced Machine Design						
DFTG 2381 Cooperative Education						

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

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

___ FA ___ VA

NAME:	SS#:	DATE:
COLLEGE:	COUNSELOR/ADVISOR:	CATALOG YEAR: 05-06

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 1370 Basic Computer-Aided Drafting- Microstation						
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 2370 Intermediate Computer-Aided Drafting- Microstation						
DFTG 2371 Advanced Technologies in Process Plant Design						
DFTG 2381 Cooperative Education						

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

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

___ FA ___ VA

NAME:	SS#:	DATE:
COLLEGE:	COUNSELOR/ADVISOR:	CATALOG YEAR: 05-06

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						
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						
CHEM1413 College Chemistry I						

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

___ FA ___ VA

NAME:	SS#:	DATE:
COLLEGE:	COUNSELOR/ADVISOR:	CATALOG YEAR: 05-06

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 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						
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: 05-06

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: 05-06

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## Approved Humanities/Fine Arts Gen. Ed. Elective						
XXXX #3## Program-Related Elective OR						
ITCC 2432 CCNA 5: Advanced Routing						

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

___ FA ___ VA

NAME:	SS#:	DATE:
COLLEGE:	COUNSELOR/ADVISOR:	CATALOG YEAR: 05-06

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						

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

___ FA ___ VA

NAME:	SS#:	DATE:
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HORTICULTURE - AAS - GOLF COURSE OPERATIONS/GROUNDS MANAGEMENT

HCCS Course Requirement	Transfer/ Institution	Substitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
FIRST YEAR						
FIRST SEMESTER						
HALT 1301 Principles of Horticulture						
XXXX#3## Computer Applications Elective*						
HALT 1396 Special Topics in Nursery Operations and Management						
HALT 1170 First Aid/CPR						
HALT 1327 Horticultural Equipment Management						
HALT 1324 Turfgrass Science and Management						
SECOND SEMESTER						
HALT 1370 Golf Course Irrigation						
MATH 1332 Mathematics for Liberal Arts						
XXXX#3## Humanities/Fine Arts Elective						
HALT 2318 Soil Fertility and Fertilizers						
HALT 1372 Golf Course Grounds Equipment and Shop Operations						
HALT 1382 Cooperative Educaton-Turf and Turfgrass Management						
SECOND YEAR						
FIRST SEMESTER						
XXXX#3## Social/Behavioral Science Elective						
HALT 1373 Golf Course Design and Construction						
HALT 1345 Golf/Sports Field/Park Management						
HALT 1374 Golf Course Trees and Shrubs						
SECOND SEMESTER						
BIOL 1411 General Botany OR						
CHEM1405 Introductory Chemistry I						
XXXX#3## Humanities/Fine Arts Elective						
HALT 1320 Horticultural Calculations						
HALT 2323 Horticultural Pest Control						
THIRD SEMESTER (ON PAGE 2)						

