

## Engineering Related Technologies Degree Plans

- 2 Drafting and Design Technology
- 4 Electronic Engineering Technology

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

\_\_\_ FA \_\_\_ VA

NAME:	SS#:	DATE:
COLLEGE:	COUNSELOR/ADVISOR:	CATALOG YEAR: 03-04

TSI requirements are applicable. **DRAFTING AND DESIGN TECHNOLOGY - AAS - ARCHITECTURAL DRAFTING SPECIALIZATION**

HCCS Course Requirement	Transfer/ Institution	Substitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
<b>FIRST YEAR</b>						
<b>FIRST SEMESTER</b>						
DFTG 1305 Technical Drafting						
ENGL 1301 Composition I						
MATH 1314 College Algebra						
PSYC 2301 Introduction to Psychology						
DFTG 1309 Basic Computer-Aided Drafting						
<b>SECOND SEMESTER</b>						
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						
<b>SECOND YEAR</b>						
<b>FIRST SEMESTER</b>						
DFTG 1309 Basic Computer-Aided Drafting						
(Repeat for credit using different software)						
DFTG 2340 Solid Modeling Design						
DFTG #3## Advanced Computer-Aided Drafting Elective						
DFTG 2328 Architectural Drafting-Commercial						
ENGL 2311 Technical and Industrial Correspondence and Report Writing						
<b>SECOND SEMESTER</b>						
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						
OR Capstone Design Project*						

\*Program advisement required prior to enrollment.

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: 03-04

TSI requirements are applicable. **DRAFTING AND DESIGN TECHNOLOGY - AAS - ELECTROMECHANICAL DESIGN SPECIALIZATION**

HCCS Course Requirement	Transfer/ Institution	Substitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
<b>FIRST YEAR</b>						
<b>FIRST SEMESTER</b>						
DFTG 1305 Technical Drafting						
ENGL 1301 Composition I						
MATH 1314 College Algebra						
PSYC 2301 Introduction to Psychology						
DFTG 1309 Basic Computer-Aided Drafting						
<b>SECOND SEMESTER</b>						
DFTG 1329 Electromechanical Drafting						
DFTG 2319 Intermediate Computer-Aided Drafting						
XXXX #3## Approved Humanities/Fine Arts Elective						
DFTG 2317 Descriptive Geometry						
MATH 1316 Plane Trigonometry						
<b>SECOND YEAR</b>						
<b>FIRST SEMESTER</b>						
DFTG 1309 Basic Computer-Aided Drafting						
(Repeat for credit using different software)						
DFTG 2340 Solid Modeling/Design						
DFTG #3## Advanced Computer-Aided Drafting Elective						
DFTG 1358 Electrical/Electronics Drafting						
ENGL 2311 Technical and Industrial Correspondence and Report Writing						
<b>SECOND SEMESTER</b>						
DFTG 2304 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 OR Capstone Design Project*						

\* Program advisement required prior to enrollment.

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: 03-04

TSI requirements are applicable. **DRAFTING AND DESIGN TECHNOLOGY - AAS - MECHANICAL DESIGN SPECIALIZATION**

HCCS Course Requirement	Transfer/ Institution	Substitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
<b>FIRST YEAR</b>						
<b>FIRST SEMESTER</b>						
DFTG 1305 Technical Drafting						
ENGL 1301 Composition I						
MATH 1314 College Algebra						
PSYC 2301 Introduction to Psychology						
DFTG 1309 Basic Computer-Aided Drafting						
<b>SECOND SEMESTER</b>						
DFTG 1333 Mechanical Drafting						
DFTG 2319 Intermediate Computer-Aided Drafting						
XXXX #3## Approved Humanities/Fine Arts Elective						
DFTG 2317 Descriptive Geometry						
MATH 1316 Plane Trigonometry						
<b>SECOND YEAR</b>						
<b>FIRST SEMESTER</b>						
DFTG 1309 Basic Computer-Aided Drafting						
(Repeat for credit using different software)						
DFTG 2340 Solid Modeling/Design						
DFTG #3## Advanced Computer-Aided Drafting Elective						
DFTG 2302 Machine Drafting						
ENGL 2311 Technical and Industrial Correspondence and Report Writing						
<b>SECOND SEMESTER</b>						
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 OR Capstone Design Project*						

• Program advisement required prior to enrollment.

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: 03-04

TSI requirements are applicable. **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
<b>FIRST YEAR</b>						
<b>FIRST SEMESTER</b>						
DFTG 1305 Technical Drafting						
ENGL 1301 Composition I						
MATH 1314 College Algebra						
PSYC 2301 Introduction to Psychology						
DFTG 1309 Basic Computer-Aided Drafting						
<b>SECOND SEMESTER</b>						
DFTG 2323 Pipe Drafting						
DFTG 2319 Intermediate Computer-Aided Drafting						
XXXX #3## Approved Humanities/Fine Arts Elective						
DFTG 2317 Descriptive Geometry						
MATH 1316 Plane Trigonometry						
<b>SECOND YEAR</b>						
<b>FIRST SEMESTER</b>						
DFTG 1309 Basic Computer-Aided Drafting 3 (Repeat for credit using different software)						
DFTG 2340 Solid Modeling/ Design						
DFTG #3## Advanced Computer-Aided Drafting Elective						
DFTG 2345 Advanced Pipe Drafting						
ENGL 2311 Technical and Industrial Correspondence and Report Writing						
<b>SECOND SEMESTER</b>						
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 OR Capstone Design Project*						

Program advisement required prior to enrollment.

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: 03-04

TSI requirements are applicable. **ELECTRONIC ENGINEERING TECHNOLOGY -AAS - BIOMEDICAL ELECTRONICS SPECIALIZATION**

HCCS Course Requirement	Transfer/ Institution	Substitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
<b>FIRST YEAR</b>						
<b>FIRST SEMESTER</b>						
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						
<b>SECOND SEMESTER</b>						
MATH 1316 Plane Trigonometry						
CETT 1405 AC Circuits						
CETT 1429 Solid State Devices						
CPMT 1403 Introduction to Computer Technology						
<b>THIRD SEMESTER</b>						
MATH 1325 Elements of Calculus						
PHYS 1401 College Physics I						
<b>SECOND YEAR</b>						
<b>FIRST SEMESTER</b>						
ENGL 2311 Technical and Industrial Correspondence and Report Writing						
CETT 1331 Technical Programming						
CETT 1457 Linear Integrated Circuits						
BIOM 1309 Applied Biomedical Equipment Technology						
XXXX #3## Approved Humanities/Fine Arts Elective						
<b>SECOND SEMESTER</b>						
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						

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

\_\_\_ FA \_\_\_ VA

NAME:	SS#:	DATE:
COLLEGE:	COUNSELOR/ADVISOR:	CATALOG YEAR: 03-04

TSI requirements are applicable. **ELECTRONIC ENGINEERING TECHNOLOGY -AAS - COMPUTER NETWORKING SPECIALIZATION**

HCCS Course Requirement	Transfer/ Institution	Substitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
<b>FIRST YEAR</b>						
<b>FIRST SEMESTER</b>						
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						
<b>SECOND SEMESTER</b>						
MATH 1316 Plane Trigonometry						
CETT 1405 AC Circuits						
CETT 1429 Solid State Devices						
CPMT 1403 Introduction to Computer Technology						
<b>THIRD SEMESTER</b>						
MATH 1325 Elements of Calculus						
PHYS 1401 College Physics I						
<b>SECOND YEAR</b>						
<b>FIRST SEMESTER</b>						
ENGL 2311 Technical and Industrial Correspondence and Report Writing						
CETT 1331 Technical Programming Program-related Elective						
CPMT 1449 Computer Networking Technology						
XXXX #3## Approved Humanities/Fine Arts Elective						
<b>SECOND SEMESTER</b>						
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: 03-04

TSI requirements are applicable. **ELECTRONIC ENGINEERING TECHNOLOGY -AAS - COMPUTER ENGINEERING TECHNOLOGY SPECIALIZATION**

HCCS Course Requirement	Transfer/ Institution	Substitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
<b>FIRST YEAR</b>						
<b>FIRST SEMESTER</b>						
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						
<b>SECOND SEMESTER</b>						
MATH 1316 Plane Trigonometry						
CETT 1405 AC Circuits						
CETT 1429 Solid State Devices						
CPMT 1403 Introduction to Computer Technology						
<b>THIRD SEMESTER</b>						
MATH 1325 Elements of Calculus						
ENGL 2311 Technical and Industrial Correspondence and Report Writing						
<b>SECOND YEAR</b>						
<b>FIRST SEMESTER</b>						
CETT 1331 Technical Programming						
PHYS 1401 College Physics I						
CETT 1457 Linear Integrated Circuits						
CETT 1445 Microprocessor						
XXXX #3## Approved Humanities/Fine Arts Elective						
<b>SECOND SEMESTER</b>						
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: 03-04

TSI requirements are applicable. **ELECTRONIC ENGINEERING TECHNOLOGY -AAS - CISCO ROUTER TECHNOLOGY SPECIALIZATION**

HCCS Course Requirement	Transfer/ Institution	Substitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
<b>FIRST YEAR</b>						
<b>FIRST SEMESTER</b>						
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						
<b>SECOND SEMESTER</b>						
MATH 1316 Plane Trigonometry						
CETT 1405 AC Circuits						
CPMT 1411 Introduction to Computer Maintenance						
CPMT 1403 Introduction to Computer Technology						
<b>THIRD SEMESTER</b>						
ENGL 2311 Technical and Industrial Correspondence and Report Writing						
CETT 1429 Solid State Devices						
<b>SECOND YEAR</b>						
<b>FIRST SEMESTER</b>						
PHYS 1401 College Physics I						
ITCC 1406 Basic Router Configuration: Cisco 2						
CPMT 2449 Advanced Computer Networking Technology						
ITCC 1402 Local Area Networks Design and Protocols: Cisco 1						
<b>SECOND SEMESTER</b>						
ITCC 1442 Local Area Management (LAN): Cisco 3						
ITCC 1446 Wide Area Management (WAN): Cisco 4						
XXXX #3## Program-Related Elective OR						
ITCC 2432 Advanced Routing Configuration: Cisco 5						
Approved Humanities/Fine Arts Elective 3						





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

\_\_\_ FA \_\_\_ VA

NAME:	SS#:	DATE:
COLLEGE:	COUNSELOR/ADVISOR:	CATALOG YEAR: 03-04

TSI requirements are applicable. **ELECTRONIC ENGINEERING TECHNOLOGY -AAS -SEMICONDUCTOR MANUFACTURING TECHNOLOGY SPECIALIZATION**

HCCS Course Requirement	Transfer/ Institution	Substitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
<b>FIRST YEAR</b>						
<b>FIRST SEMESTER</b>						
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						
<b>SECOND SEMESTER</b>						
MATH 1316 Plane Trigonometry						
CETT 1405 AC Circuits						
CETT 1429 Solid State Devices						
CPMT 1403 Introduction to Computer Technology						
<b>THIRD SEMESTER</b>						
MATH 1325 Elements of Calculus						
ENGL 2311 Technical and Industrial Correspondence and Report Writing						
<b>SECOND YEAR</b>						
<b>FIRST SEMESTER</b>						
CETT 1331 Technical Programming						
PHYS 1401 College Physics I						
CETT 1457 Linear Integrated Circuits						
SMFT 1101 Semiconductor Manufacturing Industry Overview						
SMFT 1343 Semiconductor Manufacturing Technology I Approved Humanities/Fine Arts Elective						
<b>SECOND SEMESTER</b>						
PHYS 1402 College Physics II OR						
CHEM 1413 College Chemistry I						
CETT 1445 Microprocessor						
SMFT 2341 Vacuum Principles and RF Plasma Systems						
SMFT 2343 Semiconductor Manufacturing Technology II						

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

\_\_\_ FA \_\_\_ VA

NAME:	SS#:	DATE:
COLLEGE:	COUNSELOR/ADVISOR:	CATALOG YEAR: 03-04

TSI requirements are applicable. **ELECTRONIC ENGINEERING TECHNOLOGY - AAS - TELECOMMUNICATIONS SPECIALIZATION**

HCCS Course Requirement	Transfer/ Institution	Substitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
<b>FIRST YEAR</b>						
<b>FIRST SEMESTER</b>						
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						
<b>SECOND SEMESTER</b>						
MATH 1316 Plane Trigonometry						
CETT 1405 AC Circuits						
CETT 1429 Solid State Devices						
CPMT 1403 Introduction to Computer Technology						
<b>THIRD SEMESTER</b>						
MATH 1325 Elements of Calculus						
PHYS 1401 College Physics I						
<b>SECOND YEAR</b>						
<b>FIRST SEMESTER</b>						
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 Elective						
<b>SECOND SEMESTER</b>						
PHYS 1402 College Physics II OR						
CHEM 1413 College Chemistry I						
EECT 2433 Telephone Systems						
EECT 2439 Communications Circuits						
XXXX #3## Program-Related Elective						





