



COE – ENGINEERING - CATALOG YEAR 2016 - 2017

Find the Right Educational Degree Plan

There are two distinctly different ways to pursue your education at HCC. Each pattern has its own particular purpose, and its own advantages and disadvantages. Read the descriptions carefully to make an informed choice. You must choose one of the two following patterns: The *Academic Transfer* pattern of education **OR** The *Workforce Career* pattern of education. For more information, visit our [College and Career Planner Guide](#).

ENGINEERING

Engineering Science - Associate of Science in Engineering Science (ASES). 2 -3

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

___ FA ___ VA

NAME:	SID#:	TEL#:	EMAIL:	DATE:
COLLEGE:	COU/ADV:	TEL#:	EMAIL:	CAT YR: 8/15/16-8/14/17

ENGINEERING SCIENCE - ASSOCIATE OF SCIENCE IN ENGINEERING SCIENCE (ASES)

HCCS Course Requirement	cr	Transfer	Substitute	Substitute (SU)	Term	Credits	Grade	Approval	Date
TSI testing is required prior to first enrollment.									
REQUIRED ACADEMIC CORE									
SUGGESTED 2 YEAR PLAN									
FIRST YEAR									
FIRST SEMESTER - FALL									
HIST 1301 American History I	3								
ENGL 1301 Composition I	3								
MATH 2413 Calculus I	4								
CHEM 1411 General Chemistry I	4								
ENGR 1201 Introduction to Engineering	2								
SEMESTER TOTAL	16								
SECOND SEMESTER - SPRING									
ENGR 1204 Engineering Graphics	2								
ENGL 1302 Grammar and Composition II	3								
MATH 2414 Calculus II	4								
PHYS 2325 University Physics I	3								
PHYS 2125 University Physics I Laboratory	1								
GOVT 2306 Texas Government	3								
GOVT 2305 <i>may be substituted for GOVT 2306</i>									
SEMESTER TOTAL	16								
SECOND YEAR									
FIRST SEMESTER - FALL									
ENGR 2304 Programming for Engineers	3								
ECON 2301 Macroeconomics OR									
ECON 2302 Microeconomics	3								
ENGR 2301 Engineering Mechanics—Statics	3								
MATH 2415 Calculus III (Multi-Variable Calculus)	4								
(Continued on next page)									

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ENGINEERING SCIENCE - ASSOCIATE OF SCIENCE IN ENGINEERING SCIENCE (ASES)

HCCS Course Requirement	cr hr	Transfer Institution	Substitute Course	Substitute (SU) Transfer (TR)	Term	Credits	Grade	Approval Signature	Date
					Comment/Disapproval				
(Continued from page 1)									
PHYS 2326 University Physics II	3								
PHYS 2126 University Physics II Laboratory	1								
SEMESTER TOTAL	17								
SECOND SEMESTER - SPRING									
ENGR 2405 Electrical Circuit I	4								
MATH 2320 Differential Equations	3								
XXXX #3## Engineering Elective*	3								
XXXX #3## Creative Arts Core**	3								
XXXX #3## Language, Philosophy and Culture***	3								
SEMESTER TOTAL	16								
PROGRAM TOTAL	65								

ADDITIONAL COMMENTS & NOTES:

- * **Engineering Elective** - Choose from: Students interested in pursuing mechanical or civil engineering should take ENGR 2302: Engineering Mechanics—Dynamics as the engineering elective. Students interested in pursuing electrical engineering should take COSC 1436 as the engineering elective. Students interested in pursuing industrial engineering should ENGR 23xx—Engineering Economics as the engineering elective.
Note: Industrial engineering as a completion degree is not currently offered by UTT.
- ** **Creative Arts Core** - Choose from: ARTS 1301 Art Appreciation, DRAM 1310 Introduction to Theatre or MUSI 1306 Music Appreciation
- *** **Language, Philosophy and Culture (3 hours) Choose One:** : ENGL 2322, 2323, 2327, 2328, 2332, 2333, 2342, 2343, 2351, HIST 2311, 2312, 2321, 2322, HUMA 1305, 2319, 2323, PHIL 1301, 1304, 2306, 2307, 2316