



## COE – ENGINEERING - CATALOG YEAR 2017 - 2018

### 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](#).

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### ENGINEERING

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

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

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

<b>NAME:</b>	<b>SID#:</b>	<b>TEL#:</b>	<b>EMAIL:</b>	<b>DATE:</b>
<b>COLLEGE:</b>	<b>COU/ADV:</b>	<b>TEL#:</b>	<b>EMAIL:</b>	<b>CAT YR: 8/15/17-8/14/18</b>

**ENGINEERING SCIENCE - ASSOCIATE OF SCIENCE**

	HCCS Course Requirement	cr hr	Transfer Institution	Substitute Course	Substitute (SU) Transfer (TR)	Term	Credits	Grade	Approval Signature	Date
						Comment/Disapproval				
	TSI testing is required prior to first enrollment.									
	<b>SUGGESTED 2 YEAR PLAN</b>									
	<b>FIRST YEAR</b>									
	<b>FIRST SEMESTER - FALL</b>									
<b>A.</b>	HIST #3## American History Elective	3								
	ENGL 1301 Composition I	3								
	MATH 2413 Calculus I	4								
	CHEM 1411 General Chemistry I	4								
	ENGR 1201 Introduction to Engineering	2								
	<b>SEMESTER TOTAL</b>	<b>16</b>								
	<b>SECOND SEMESTER - SPRING</b>									
	ENGR 1204 Engineering Graphics I	2								
	ENGL 1302 Composition II <i>OR</i>									
	ENGL 2311 Technical & Business Writing	3								
	MATH 2414 Calculus II	4								
	PHYS 2325 University Physics I	3								
	PHYS 2125 University Physics I Laboratory	1								
	GOVT 2306 Texas Government <i>OR</i>									
	GOVT 2305 Federal Government	3								
	<b>SEMESTER TOTAL</b>	<b>16</b>								
	<b>SECOND YEAR</b>									
	<b>FIRST SEMESTER - FALL</b>									
	ENGR 2304 Programming for Engineers	3								
	ECON 2301 Macroeconomics <i>OR</i>									
	ECON 2302 Microeconomics	3								
	ENGR 2301 Engineering Mechanics-Statics	3								
	MATH 2415 Calculus III	4								
	<b>(Continued on next page)</b>									

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<i>(Continued from page 1)</i>									
PHYS 2326 University Physics II	3								
PHYS 2126 University Physics II Laboratory	1								
<b>SEMESTER TOTAL</b>	<b>17</b>								
<b>SECOND SEMESTER - SPRING</b>									
ENGR 2405 Electrical Circuit I	4								
MATH 2320 Differential Equations	3								
<b>B.</b> XXXX #3## Engineering Elective	3								
<b>C.</b> XXXX #3## Creative Arts Elective	3								
<b>D.</b> XXXX #3## Language, Philosophy, & Culture Elective	3								
<b>SEMESTER TOTAL</b>	<b>16</b>								
<b>PROGRAM TOTAL</b>	<b>65</b>								

**ADDITIONAL COMMENTS & NOTES:**

- A. American History - *May choose from:*** HIST 1301, 1302, 2301, 2327, 2328, 2381.
- B. Engineering Elective - *May 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 Programming Fundamentals I* as the engineering elective.  
**Note:** Students interested in pursuing industrial engineering should take *ENGR 2308 Engineering Economics* as the engineering elective.  
**Note:** Industrial engineering as a completion degree is not currently offered by UTT.
- C. Creative Arts - *May choose from:*** ARTS 1301, 1303, 1304; COMM 2366; DANC 2303; DRAM 1310, 2361, 2366; HUMA 1301, 1311; MUSI 1306,1310.
- D. Language, Philosophy and Culture - *May choose from:*** 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.