

# ACADEMIC DEGREE PLANS - ASSOCIATE IN SCIENCE - YEAR 2013 - 2014

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**Generic Degree Transfer Advising Plan** .....2  
**Engineering Science - AS** .....4

Mathematics (choose one) ..... 3 hrs  
 MATH 1314, 1316, 1324, 1325, 1332, 1342,  
 2412, 2413, 2414, 2415

Natural Science with lab ..... 4 hrs  
 ASTR 1403, 1404; BIOL 1308 & 1108, 1309 & 1109, 1406,  
 1407, 1411, 1413, 2401, 2402, 2406, 2416, 2420, 2428;  
 CHEM 1405, 1407, 1411, 1412, 1413, 1414, 2423, 2425;  
 ENVR 1401; GEOL 1401, 1402, 1403, 1404; PHYS 1401,  
 1402, 2325 & 2125, 2326 & 2126.

*Note: Course must have a lab. Please see p. 63 for Natural Science core curriculum restrictions.*

Natural Science (lab optional) ..... 3 hrs  
 ANTH 2301; ASTR 1303, 1304, 1403, 1404; BIOL 1308,  
 1309,1322, 1406, 1407, 1411, 1413, 2401, 2402, 2406, 2416,  
 2420, 2428; CHEM 1305, 1307, 1405, 1407, 1411, 1412,  
 1413, 1414, 2423, 2425; DANC 2325; ENVR 1301, 1401;  
 GEOG 1301; GEOL 1345, 1347, 1401, 1402, 1403, 1404;  
 PHYS 1305, 1307, 1401, 1402, 2325, 2326.

*Note: Please see p. 63 for Natural Science core curriculum restrictions.*

American History (choose two) ..... 6 hrs  
 Choose one from HIST 1301 or 1302  
 Choose one from HIST 1301, 1302, 2301, 2328,  
 2371 or 2381

GOVT 23## Government I ..... 3 hrs  
 GOVT 23## Government II ..... 3 hrs

Visual/Performing Arts (choose 3 hours) ..... 3 hrs  
 ARTS 1301, 1303, 1304, 1311, 1312, 1316, 1317, 2316,  
 2317, 2323, 2324, 2326, 2327, 2333, 2334, 2341, 2342, 2346,  
 2347, 2348, 2349, 2356, 2357, 2366, 2367; DANC 1112,  
 1113, 1210, 1211, 1301, 1305, 1306, 1341, 1342, 1345, 1346,  
 1347, 1348, 1349, 2112, 2113, 2210, 2301, 2303, 2325, 2341,  
 2342, 2345, 2346, 2347, 2351, 2352, 2389; DRAM 1161,  
 1162, 1310, 1320, 1322, 1330, 1341, 1351, 1352, 2331, 2336,

2337, 2338, 2351, 2361, 2363, 2366, 2367, 2389; MUAP  
 1101-2292 (Music Lessons); MUSI 1131, 1135, 1139, 1140,  
 1159, 1160, 1161, 1163, 1164, 1166, 1168, 1181, 1182,  
 1183, 1184, 1188, 1190, 1192, 1211, 1212, 1216, 1217,  
 1223, 1226, 1227, 1229, 1239, 1254, 1301, 1306, 1308,  
 1309, 1310, 1386, 2135, 2139, 2140, 2159, 2160, 2161,  
 2163, 2164, 2181, 2182, 2211, 2212, 2216, 2217, 2223,  
 2227, 2229, 2239, 2241, 2258, 2266, 2386

Social/Behavioral Science (choose one) .....3 hrs  
 ANTH 2302, 2346, 2351; ECON 2301, 2302, 2311; GEOG  
 1302, 1303, 2312; GOVT 2304; HIST 2389; PHIL 2307;  
 PSYC 2301, 2389; SOCI 1301, 1306, 2301, 2319, 2336,  
 2374; TECA 1354

Cross/Multicultural Studies (choose one) .....3 hrs  
 ANTH 2302, 2346, 2351; ARTS 1301, 1303, 1304; ECON  
 2311; ENGL .....  
 2322, 2323, 2327, 2328, 2332, 2333, 2334, 2335, 2336,  
 2341,2342, 2343, 2353, 2374; DANC 2303, EDUC 1325;  
 GEOG 1302,1303, 2312; HIST 2311,2312, 2321, 2322,  
 2328, 2381; HUMA 1301, 1305, 2319, 2323; MUSI 1306,  
 1308,1309; PHED 1304; PHIL 1301, 1304, 2307, 2316,  
 2317, 2321; PSYC 2370; SOCI 1301, 2319, 2374; SPCH  
 1318; any Foreign Language 1411, 1412, 2311, or 2312.

## Required Academic Core\*

ENGL 1301 Composition I..... 3 hrs  
 ENGL 1302 Composition II..... 3 hrs

Oral Communication (choose one) 3 hrs  
 ARAB 1411,1412; COMM 1307; CHIN 1411, 1412; FREN  
 1411, 1412; GERM 1411,1412; JAPN 1411, 1412; KORE  
 1411, 1412; RUSS 1411, 1412; SPAN 1411, 1412; SPCH  
 1311, 1315, 1318, 1321, 1342, 2335, or 2341; TURK 1491,  
 1492; VIET 1411, 1412

Humanities (choose one)..... 3 hrs  
 ENGL 2307, 2308, 2322, 2323, 2327, 2328, 2332, 2333,  
 2334, 2335, 2336, 2341, 2342, 2343, 2351, 2353, 2374; PHIL  
 2306, 2316, 2317

## Other Required Courses

Additional Mathematics (May choose any college-level  
 mathematics, PHIL 2303, or PSYC 2317) .....6 hrs  
 Additional Natural Science with lab .....4 hrs  
 College-Level Electives ..... 7 hrs

*\*No one course may be used to fulfill more than one core category.*

**HOUSTON COMMUNITY COLLEGE SYSTEM - ASSOCIATE IN SCIENCE  
EDUCATIONAL PLAN/TRANSFER SUBSTITUTION PETITION**

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

<b>NAME:</b>	<b>ID#:</b>	<b>DATE:</b>
<b>COLLEGE:</b>	<b>COUNSELOR/ADVISOR:</b>	<b>CATALOG YEAR: 13-14</b>

**GENERIC DEGREE TRANSFER ADVISING PLAN**

	HCCS Course Requirement	Transfer / Substitution Institution	Substitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
	<b>REQUIRED ACADEMIC CORE</b>						
	<b>FIRST YEAR</b>						
	<b>FIRST SEMESTER</b>						
	ENGL 1301 English Composition I (010)						
<b>a.</b>	American History I (060)						
<b>b.</b>	Oral Communication (3 hrs.) (011)						
<b>c.</b>	College-level Mathematics (3 hrs.) (020)						
<b>d.</b>	Transferable elective (3 hrs)						
	<b>SECOND SEMESTER</b>						
	ENGL 1302 English Composition II (010)						
<b>e.</b>	American History II (3 hrs.) (060)						
<b>f.</b>	Social/Behavioral Science (3 hrs.) (080)						
<b>g.</b>	Natural Science (Lab optional, 3 hrs.) (030)						
<b>h.</b>	College-level Mathematics (3 hrs.) (021)						
	<b>SECOND YEAR</b>						
	<b>FIRST SEMESTER</b>						
<b>i.</b>	Humanities (3 hrs.) (040)						
	GOVT 2301 American Government I (070)						
<b>j.</b>	Cross Cultural Studies (3 hrs.) (090)						
<b>g.</b>	Natural Science with Lab (4 hrs.) (030)						
<b>d.</b>	Transferable elective (3 hrs)						
	<b>SECOND SEMESTER</b>						
	GOVT 2302 American Government II (070)						
<b>k.</b>	Visual & Performing Arts (3 hrs.) (050)						
<b>h.</b>	College-level Mathematics (3 hrs.) (021)						
<b>g.</b>	Natural Science with Lab (4 hrs.) (030)						
<b>d.</b>	Transferable elective (1 hrs)						

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**GENERIC DEGREE TRANSFER ADVISING PLAN**

	HCCS Course Requirement	Transfer / Substitution Institution	Substitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date

**ADDITIONAL COMMENTS:**

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**NOTES:**

The student must earn a minimum 2.0 GPA on sixty (60) total college-level semester hours, must complete a minimum eighteen (18) hours of coursework in the Houston Community College, must complete TSI requirement unless exempt, and have an application to graduate on file in the Registrar’s office in order to graduate.

- a.** May choose from HIST 1301 or 1302.
- b.** May choose from ARAB 1411, 1412; COMM 1307; CHIN 1411, 1412; FREN 1411, 1412; GERM 1411, 1412; JAPN 1411, 1412; KORE 1411, 1412; RUSS 1411, 1412; SPAN 1411, 1412; TURK 1491, 1492; VIET 1411, 1412; SPCH 1311, 1315, 1318, 1321, 1342, 2335 or 2341.
- c.** May choose MATH 1314, 1316, 1324, 1325, 1332, 1342, 2412, 2413, 2414, 2415.
- d.** Transferable elective courses are college-level semester hour courses, taken to fulfill the HCC associate degree sixty-(60) semester hour requirement. Prerequisite college-level courses taken to satisfy the required HCC course curriculum can count as course electives. Students should take the bachelor degree major prerequisites as HCC electives.
- e.** May choose from HIST 1301, 1302, 2301, 2328, 2371, or 2381.
- f.** May choose from ANTH 2302, 2346, 2351; ECON 2301, 2302, 2311; GEOG 1302, 1303, 2312; GOVT 2304; HIST 2389; PHIL 2307; PSYC 2301, 2389; SOCI 1301, 1306, 2301, 2319, 2336, 2374, or TECA 1354.
- g.** May choose from 3-4 semester hours from ANTH 2301; ASTR 1303, 1304, 1403, 1404; Biology; Chemistry; DANC 2325; ENVR 1301, 1401; GEOG 1301; Geology; or Physics. (Note: two sciences must be 4 hour lab sciences).
- h.** May choose MATH 1314, 1316, 1324, 1325, 1332, 1342, 2412, 2413, 2414, 2415; PHIL 2303; or PSYC 2317.
- i.** May choose from ENGL 2322, 2323, 2327, 2328, 2332, 2333, 2334, 2335, 2336, 2341, 2342, 2343, 2353, 2374; PHIL 2306, 2316, or 2317.
- j.** Choose from ANTH 2302, 2346, 2351; ARTS 1301, 1303, 1304; DANC 2303; ECON 2311; EDUC 1325; ENGL 2322-2374; GEOG 1302, 1303, 2312; HIST 2311, 2312, 2321, 2322, 2328, 2381; HUMA 1301, 1305, 2319, 2323; MUSI 1306, 1308, 1309; PHED 1304; PHIL 1301, 1304, 2307, 2316, 2317, 2321; PSYC 2370, 2374; SOCI 1301, 2319, 2374; SPCH 1318, any Foreign Language 1411, 1412, 2311 or 2312; SPAN 2313, 2315, 2321, or 2323.
- k.** May choose 3 semester hours from any ARTS, DANC, DRAM, MUAP or MUSI.

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<b>COLLEGE:</b>	<b>COUNSELOR/ADVISOR:</b>	<b>CATALOG YEAR: 13-14</b>

**ENGINEERING SCIENCES - ENGINEERING SCIENCE - ASSOCIATE IN SCIENCE**

HCCS Course Requirement	Transfer / Substitution Institution	Substitution Course	Substitute (SU) Transfer (TR)	Comment/Disapproval	Approval Signature	Date
<b>FRESHMEN YEAR</b>						
<b>FIRST SEMESTER (FALL)</b>						
HIST 1301 American History I						
ENGL 1301 Composition I						
MATH 2413 Calculus I						
CHEM 1411 General Chemistry I						
ENGR 1201 Introduction to Engineering						
<b>SECOND SEMESTER (SPRING)</b>						
ENGR 1204 Engineering Graphics						
ENGL 1302 Composition II						
MATH 2414 Calculus II						
PHYS 2325 University Physics I						
PHYS 2125 University Physics I Laboratory						
GOVT 2305 American National Government <b>OR</b>						
GOVT 2306 Texas Government						
<b>SOPHOMORE YEAR</b>						
<b>FIRST SEMESTER (FALL)</b>						
ENGR 2304 Programming for Engineers						
ECON 2301 Economics <b>OR</b>						
ECON 2302 Economics						
ENGR 2301 Engineering Mechanics - Statics						
MATH 2415 Calculus III (Multi-Variable Calculus)						
PHYS 2326 University Physics II						
PHYS 2126 University Physics II Laboratory						
<b>SECOND SEMESTER (SPRING)</b>						
ENGR 2405 Electrical Circuits I						
MATH 2320 Differential Equations						
XXXX #3## Engineering Elective *						
XXXX #3## Visual and Performing Arts Elective †						
XXXX #3## Humanities ‡						

\* Students interested in pursuing mechanical or civil engineering should take ENGR 2302. Students interested in pursuing electrical engineering should take COSC 1436. Students interested in pursuing industrial engineering should take ENGR 23XX. † Visual and Performing Arts Elective: See HCC core list. ‡ Humanities Elective: See HCC core list.