



**Bachelor of Science in Civil Engineering**  
 Recommended 4-Year Course Sequence  
 2024-2025 Catalog



**FRESHMAN YEAR**

Fall					Spring				
HCC	UT Tyler	Title	HCC	UTT	HCC	UT Tyler	Title	HCC	UTT
ENGR 1201		Introduction to Engineering		2	ENGR 1304	ENGR 1204	Engineering Graphics I		3
ENGL 1301		College Composition I		3	MATH 2414		Calculus II		4
MATH 2413		Calculus I		4	PHYS2325/ 2125		University Physics I (Lecture & Lab)		4
CHEM 1311/1111		General Chemistry I (Lecture & Lab)		4		ENGR 1000	Thriving in Engineering		0
HIST 1301		United States History I		3	ENGL 2311		Technical & Business Writing		3
			16	0				14	0

**SOPHOMORE YEAR**

Fall					Spring				
HCC	UT Tyler	Title	HCC	UTT	HCC	UT Tyler	Title	HCC	UTT
CHEM 1412		General Chemistry II (lecture & lab)		4	SPCH 1315	CMST 1315	Introduction to Public Speaking		3
ENGR 2301		Engineering Mechanics - Statics		3	ENGR 2332	CENG 3306	Mechanics of Materials		3
ECON 2301 or ECON 2302		Principles of Macroeconomics or Principles of Microeconomics		3	MATH 2320	MATH 3305	Differential Equations		3
MATH 2415		Calculus III		4	ENGR 2302	CENG 3306	Engineering Mechanics - Dynamics		3
ENGR 2304		Programming for Engineers		3	GOVT 2305		Federal Government		3
					Various	Other than CHEM or PHYS	Additional Science Elective		3
			17	0				18	0

**JUNIOR YEAR**

Fall					Spring				
HCC	UT Tyler	Title	HCC	UTT	HCC	UT Tyler	Title	HCC	UTT
GOVT 2306	POLS 2306	Introductory Texas Politics		3	PHIL 2306		Introduction to Ethics		3
	CENG 3434	Civil Engineering Materials, Codes, and Specifications		4		CENG 3361	Applied Engineering Hydrology and Hydraulic Design		3
	CENG 3310	Fluid Mechanics and Hydraulics		3		CENG 3351	Transportation Engineering Systems		3
	MATH 3351	Scientists		3		CENG 3371	Introduction to Environmental Engineering		3
	CENG 4339	Civil Engineering Construction Management		3		CENG 3336	Soil Mechanics and Foundation Design		3
	CMGT 3104	Graphical Tools for Design and Modeling of Infrastructure		1		CENG 3325	Structural Analysis		3
			3	14				3	15

**SENIOR YEAR**

Fall					Spring				
HCC	UT Tyler	Title	HCC	UTT	HCC	UT Tyler	Title	HCC	UTT
	CENG 4412	Reinforced Concrete and Steel Design		4		CENG 4315	Senior Design II		3
	CENG 43XX	CE Design Elective 1		3		CENG 4341	Leadership, Professionalism, and Public Policy		3
	CENG 43XX	CE Design Elective 2		3	Various		Creative Arts (3 hrs.)	3	
	CENG 43XX	Enrichment Elective (4370, 4395, or 4399)		3		CENG Various	CENG Approved Technical Electives		3
	CENG 4115	Senior Design I		1	HIST 1302		U.S. History II		3
			0	14				6	9

<b>Total Credit Hours at Houston Community College</b>	<b>77</b>
<b>Total Credit Hours at UT Tyler</b>	<b>52</b>
<b>Total Credit Hours</b>	<b>129</b>

Other LD courses (CORE ) may either be taken at HCC or through on-line section enrollment with the MAIN Campus