

**Bachelor of Science, CIVIL ENGINEERING**  
**Curriculum Requirements/Recommended Program of Study**

**HOUSTON COMMUNITY COLLEGE**

**PRAIRIE VIEW A&M UNIVERSITY**

**FRESHMAN YEAR**

CHEM 1411, General Chemistry I  
CHEM 1412, General Chemistry II  
COSC 1420/1401, Programming C++/Intro to Comp  
ENGL 1301, Composition I  
ENGL 2311, Technical Writing  
HIST 1301, United States History to 1877  
MATH 2413, Calculus I  
MATH 2414 Calculus II  
PHYS 2325/2125, Gen. Tech. Physics I & Lab  
**Select one from:**  
SPCH 1311, Fund. to Speech  
SPCH 1315, Public Speaking

CHEM 1033/1011, Gen. Chemistry I & Lab  
CHEM 1043/1021, Gen. Chemistry II & Lab  
ELEG 1043, Computer Application in Engr.  
ENGL 1123, Freshman Composition I  
ENGL 1143, Technical Writing  
HIST 1313, The US to 1876  
MATH 1124, Calculus I  
MATH 2024 Calculus II  
PHYS 2513/2511, Univ. Physics I & Lab  
**Select one from:**  
SPCH 1003, Fund. of Speech Comm.  
SPCH 1003, Fund of Speech Comm.

**SOPHOMORE YEAR**

DRFT 2319, Interm Computer-Aided Drafting  
ENGR 2301, Engineering Statics  
ENGR 2302, Engineering Dynamics  
ENGR 2332, Engineering Mechanics of Mat.  
GOVT 2301, Amer. Govt.: Natl., State & Local I  
GOVT 2302, Amer. Govt.: Natl., State & Local II  
HIST 1302, United States History from 1877  
MATH 2320, Ordinary Differential Equations  
PHYS 2326/2126, Gen. Tech. Physics II & Lab  
**Select one from: (Humanities Electives)**  
ENGL 2333, Survey of World Literature II  
ENGL 2322, Survey of British Literature I  
ENGL 2323, Survey of British Literature II  
ARTS 1303, Art History I  
ARTS 1304, Art History II  
ARTS 1301, Arts Appreciation  
DRAM 1310, Intro to Theatre  
MUSI 1306, Music Appreciation  
MUSI 1308, Music Literature I  
MUSI 1309, Music Literature II  
PHIL 1311, Introduction to Philosophy  
PHIL 1302, Introduction to Ethics  
HIST 2311, Survey of Western Civilization I  
HIST 2312, Survey of Western Civilization II  
SOC1 1301, Intro to Sociology  
SOC1 2301, Marriage and the Family  
PSYC 2316, Psychology of Personality

MCEG 1213, Creative Engineering I  
CVEG 2043, Engineering Mechanics I  
CVEG 2053, Engineering Mechanics II  
CVEG 2063, Mechanics of Materials  
POSC 1113, American Government I  
POSC 1123, American Government II  
HIST 1323, The US 1876 to Present  
MATH 2043, Differential Equations  
PHYS 2523/2521, Univ. Physics II & Lab  
**Select one from: (Humanities Electives)**  
ENGL 2153, Intro. to Literature  
ENGL 2263, English Literature I  
ENGL 2273, English Literature II  
ARTS 2223, History of Art I  
ARTS 2233, History of Art II  
ARTS 1203, Intro. to Visual Arts  
DRAM 1103, Intro to Theatre  
MUSC 1313, Music in Contemporary Life  
MUSC 2312, Music Literature I  
MUSC 2322, Music Literature II  
PHIL 2013, Intro to Philosophy  
PHIL 2023, Intro to Ethics  
HIST 1813, Civilization I  
HIST 1823, Civilization II  
SOCG 1013, Intro to Sociology  
SOCG 2013, The Family  
PSYC 513, Psychology of Personality

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**JUNIOR YEAR AT PVAMU**

*First Semester Hours*

MATH 3023 Probability & Statistics	3
CVEG 3073 Structural Analysis	3
CVEG 3063 Hydraulics	3
CHEG 3003 Engineering Economy	3
HIST 1313 U.S. to 1876	3
Visual & Performing Arts Elective	3

*Total*    **16**

*Second Semester Hours*

CVEG 3023 Geotechnical Engineering	3
CVEG 3083 Steel Design	3
CVEG 3053 Transportation Engineering	3
CVEG 3051 Professional Engineering I	1
CVEG 3043 Environmental Engineering	3
CVEG 3031 Construction Materials Laboratory	1
HIST 1323 1876 to Present	3

*Total*    **17**

**SUMMER SESSIONS**

*First Semester Hours*

*CVEG 4156 Civil Engineering Internship II	6
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*Total*    **6**

**SENIOR YEAR AT PVAMU**

*First Semester Hours*

CVEG 4013 Reinforced Concrete	3
Technical Elective	3
CVEG 4053 Transportation Engr. Design	3
CVEG 4473 Senior Design & Prof. I	3
CVEG 4043 Environmental Engr. Design	3

*Total*    **15**

*Second Semester Hours*

CVEG 4063 Water Resources Engr.	3
Behavioral or Social Science Elective	3
MATH 4173 Advanced Math for Engr.	3
CVEG 4483 Senior Design & Prof. II	3
Technical Elective	3

*Total*    **15**

**A total of 69 hours will transfer to Prairie View A & M University from Houston Community College.**