



B.S. in Construction Engineering Curriculum for Students Enrolling in Fall 2026

Department of the Built Environment

120 Credit Hours

Recommended Course Sequence

FRESHMAN

First Semester							Second Semester						
Course	Course Title	Area	Credits	Semester	Passing Grade	Act. Grade	Course	Course Title	Area	Credits	Semester	Passing Grade	Act. Grade
ARTS 101, ARTS 310, ARAB 101, ASLS 203, CHIN 101, ENGL 204, ENGL 205, ENGL 206, ENGL 207, FREN 101, HIND 101, HONR 101, JAPN 101, KORE 101, PORT 101, SPAN 101, THAR 101	Elective Arts and Humanities [NP] <i>Note: ENGL 204, ENGL 205, ENGL 206, and ENGL 207 require ENGL 101 and ENGL 102 as prerequisites.</i>	GEP 1.1	3		D		CSDP 120	Introduction to Computer Programming [PR: MATH 110]	SC	3		C	
CHEM 111	Principles of Chemistry I [CR: CHEM 113]	SC	3		C		ENGL 102	Principles of Composition II [PR: ENGL 101]	GEP 5.2	3		C	
CHEM 113	Principles of Chemistry I Laboratory [CR: CHEM 111]	SC	1		C		ENVS 101	Introduction to Environmental Sciences [NP]	GEP 3	3		C	
ENGE 100	First-Year Orientations with Engineering [NP]	GEP 6.1	1		D		MATH 211	Calculus II [PR: MATH 112]	SC	4		C	
ENGL 101	Principles of Composition I [NP]	GEP 5.1	3		C		PHYS 161	General College Physics I [PR: MATH 112/CR: PHYS 163]	GEP 3	3		C	
MATH 112	Calculus I [PR: MATH 110]	GEP 4	4		C		PHYS 163	General College Physics I Laboratory [CR: PHYS 161]	GEP 3	1		C	
Total			15				Total			17			

SOPHOMORE

First Semester							Second Semester						
Course	Course Title	Area	Credits	Semester	Passing Grade	Act. Grade	Course	Course Title	Area	Credits	Semester	Passing Grade	Act. Grade
CENG 201	Engineering Graphics [NP]	CC	3		C		CENG 214	Surveying and Geomatics [PR: CENG 201, MATH 112]	CC	3		C	
ECON 201	Principles of Economics (Macro) [PR: MATH 102 or Higher]	GEP 2	3		C		CENG 230	Construction Materials [PR: CHEM 111, PHYS 161]	CC	3		C	
ENGE 260	Statics [PR: MATH 112]	CC	3		C		CRJS 101, ECON 202, GEOG 201, GEOG 202, HIST 101, HIST 102, HIST 201, HIST 202, HONR 201, HUEC 203, HUEC 220, HUEC 361, PHIL 201, PHIL 202, POLI 200, POLI 220, POLI 342, PSYC 100, SOCI 101, SOCI 201	Elective Social and Behavioral Sciences [PR: As specified by the selected course]	GEP 2	3		D	
MATH 212	Calculus III [PR: MATH 211]	SC	4		C		ENGL 203	Fundamentals of Contemporary Speech [PR: ENGL 101, ENGL 102]	GEP 1.2	3		C	
PHYS 262	General College Physics II [PR: PHYS 161, PHYS 163/CR: PHYS 264]	SC	3		C		MATH 241	Differential Equations [PR: MATH 211]	SC	3		C	
PHYS 264	General College Physics II Laboratory [CR: PHYS 262]	SC	1		C								
Total			17				Total			15			

JUNIOR

First Semester							Second Semester						
Course	Course Title	Area	Credits	Semester	Passing Grade	Act. Grade	Course	Course Title	Area	Credits	Semester	Passing Grade	Act. Grade
BUAD 213	Business Software Applications [NP]	GEP 6.2	3		D		BUAD 311	Justice and Diversity in Organizations [PR: ENGL 102]	GEP 6.3	3		D	
CENG 325	Construction Methods and Equipment [PR: CENG 201, CENG 230, PHYS 262]	CC	3		C		CENG 310	Structural Analysis [PR: ENGE 362, MATH 241]	CC	3		C	
CENG 363	Properties and Mechanics of Materials Lab [PR: CENG 230/CR: ENGE 362]	CC	1		C		CENG 350	Fluid Mechanics and Hydraulics [PR: MATH 241, PHYS 161]	CC	3		C	
ENGE 320	Statistics and Probability for Engineers [PR: MATH 211]	CC	3		C		CENG 386	Construction Planning and Scheduling [PR: CENG 230, ENGE 320]	CC	3		C	
ENGE 362	Mechanics of Materials [PR: ENGE 260, MATH 211]	CC	3		C		CENG 445	Construction Cost Estimating and Control [PR: CENG 201, CENG 230]	CC	3		C	
ENGL 305, ENGL 310	Technical Writing [PR: ENGL 101, ENGL 102, ENGL 203], or Advanced Composition [PR: ENGL 101, ENGL 102]	GEP 5.3	3		D								
Total			16				Total			15			
							Summer Semester						
							Course	Course Title	Area	Credits	Semester	Passing Grade	Act. Grade
							CENG 395	Internship [PR: Junior Standing, Permission of Instructor]	CC	1		S	
							Total			1			

SENIOR

First Semester							Second Semester						
Course	Course Title	Area	Credits	Semester	Passing Grade	Act. Grade	Course	Course Title	Area	Credits	Semester	Passing Grade	Act. Grade
CENG 410	Structural Steel Design [PR: CENG 310]	CC	3		C		CENG 412	Reinforced Concrete Design [PR: CENG 310]	CC	3		C	
CENG 420	Construction Engineering Systems [PR: CENG 386, ENGE 320]	CC	3		C		CENG 440	Construction Safety and Health Management [PR: CENG 425]	CC	3		C	
CENG 425	Construction Project Management [PR: CENG 325, CENG 386]	CC	3		C		CENG 458	Construction Engineering Design Project [PR: Senior Standing, CENG 425, CENG 445]	CC	3		C	
CENG 427	Soil Mechanics and Foundation Engineering [PR: CHEM 111, CENG 230, ENGE 362]	CC	3		C		CENG 305, CENG 320, CENG 326, CENG 330, CENG 360, CENG 416, CENG 430, CENG 450, CENG 499, ENGE 370	Core Elective Course [PR: As specified by the selected course]	CC	3		C	
Total			12				Total			12			

Abbreviations: NP- No Prerequisites, PR- Prerequisite, CR- Corequisite, SOPH- Sophomore Standing, JUNI- Junior Standing, SENR- Senior Standing, GEP- General Education Program, CC- Core Courses, SC- Supporting Courses