8 Semester Plan for Civil Engineering, TAMU-CC

Revised 11 Apr 2023

	_			Revised 11 Apr 2023
1st Year	Course	Coure Title	SH	Pre-requisite(s) or Co-Requisite(s)
	ENGL 1301	Composition I	3	
	HIST 1301	U.S. History to 1865	3	Dro year. A grade of C or hottor in MATU 434 C Triber a continue.
1st Semester	MATH 2413	Calculus I	4	Pre-req: A grade of C or better in MATH 1316 Trigonometry or MATH
(includes	CHEM 1411	General Chemistry I	4	2312 Precalculus, or placement into MATH 2413 Calculus I
triad/tetrad)	CHEIVI 1411	·	4	Prereq: MATH 1314 - College Algebra or equivalent academic
	ENGR 1201	Introduction to Engineering	2	preparation
	UNIV 1101	University Seminar I (for triad/tetrad)	1	preparation
	ONIV 1101	Total HRS	17	
	ENGL 1302 or	Total HV2	1/	
	COMM 1311	Writing and Rhetoric OR Foundations of Communication	3	Prereq: ENGL 1301 for ENGL 1302
	PHYS 2425	University Physics I	4	Prereg: MATH 2413 Calculus I or placement beyond
2nd Semester	MATH 2414	Calculus II	4	Prereq: A grade of C or better in MATH 2413 Calculus I
(includes triad/tetrad)	COSC 1330	Program for Scientists, Engineers, and Mathematicians	3	Tracequity grade of a or section in the trace and and trace and trace are a section in the trace and trace are a section in the trace and trace are a section in the section in the trace are a section in the trace are a section in the
				Prereg: MATH 1314 - College Algebra or equivalent academic
	ENGR 1312	Engineering Graphics I	3	preparation
	UNIV 1102	First-Year Seminar II (for triad/tetrad)	1	II. spr. see
		Total HRS	18	
2nd Year				
	HIST 1302	U.S. History Since 1865	3	
				Preq: PHYS 2425 University Physics I; pre-req/co-req: MATH 2414 -
	ENGR 2325	Statics	3	Calculus II
1st Semester	DUNG 2426	University Division II	-	
	PHYS 2426	University Physics II	4	Prereq: MATH 2414 Calculus II & PHYS 2425 University Physics I
	MATH 3315	Differential Equations	3	Prereq: A grade of C or better in MATH 2414
	MATH 2415	Calculus III	4	Prereq: A grade of C or better in MATH 2414 Calculus II
		Total HRS	17	
		Language, Philosophy and Culture (3 semester hours)	3	
		Additional Science Elective: GISC 1470 Geospatial Systems I	4	
2nd Semester		or GEOL 1403 Physical Geology		
	ENGR 3322	Materials Science	3	Prereg: CHEM 1411 General Chemistry I & PHYS 2425 University Physics
	5NGB 2226		_	
	ENGR 2326	Dynamics	3	Prereq: ENGR 2325 - Statics
21 //		Total HRS	13	
3rd Year 1st Semester	POLS 2305	ILC Covernment and Delities	3	
		U.S. Government and Politics		Description MATH 2442 Colombia
	MATH 3342	Applied Probability and Statistics	3	Prereq: MATH 2413 Calculus I
	ENGR 3315	Fluid Mechanics	3	Prereq: ENGR 2326 - Dynamics and MATH 2415 - Calculus III and MATH
	ENGR 3320	Strength of Materials	3	3315 - Differential Equations Prereg: ENGR 2325 - Statics and ENGR 3322 - Materials Science
	CEEN 2315	Geomatics and Surveying Engineering	3	
	CLLIN 2313	Total HRS	15	Prereq: MATH 1316 – Trigonometry or MATH 2413 – Calculus I
	POLS 2306	State and Local Government	3	
	CEEN 3321	Structural Analysis	3	Prereq: ENGR 3320 Strength of Materials
	CLLIN 3321	Structural Arialysis	3	
2	CEEN 3320	Geotechnical Engineering I	3	Prereq: ENGR3315 – Fluid Mechanics and ENGR 3320 – Strength of
2nd Semester	CEEN 4242	Hadaa dha aa dhiidaa la aa	_	Materials.
	CEEN 4312	Hydraulics and Hydrology	3	Prereq: ENGR 3315 – Fluid Mechanics.
	CEEN 4304	Construction Materials Design	3	Prereq: ENGR 3320 Strength of Materials
		Technical Elective	3	
		Total HRS	18	
4th Year				
		Social and Behavioral Sciences	3	
	ENGR 4240			Prereq: CEEN 3320 Geotechnical Engineering I & CEEN 3321 Structural
	ENGR 4240	Social and Behavioral Sciences Project Management (Major GPA of 2.25)	3	Prereq: CEEN 3320 Geotechnical Engineering I & CEEN 3321 Structural Engineering
	ENGR 4240			
1.1.5	ENGR 4240 ENGR 4420			Engineering
1st Semester		Project Management (Major GPA of 2.25)	2	Engineering Prereq: PHYS 2426 University Physics II and (MATH 3342 Applied
1st Semester	ENGR 4420	Project Management (Major GPA of 2.25) Engineering Lab Measurement	4	Engineering Prereq: PHYS 2426 University Physics II and (MATH 3342 Applied Probability and Statistics <i>or</i> MATH 3345 Statistical Modeling and Data
1st Semester		Project Management (Major GPA of 2.25)	2	Engineering Prereq: PHYS 2426 University Physics II and (MATH 3342 Applied Probability and Statistics <i>or</i> MATH 3345 Statistical Modeling and Data Analysis)
1st Semester	ENGR 4420 CEEN 4325	Project Management (Major GPA of 2.25) Engineering Lab Measurement Reinforced Concrete Design	2 4 3	Engineering Prereq: PHYS 2426 University Physics II and (MATH 3342 Applied Probability and Statistics or MATH 3345 Statistical Modeling and Data Analysis) Prereq: CEEN 3321 Structural Analysis; prereq or co-req CEEN 4304 Construction Materials Design
1st Semester	ENGR 4420	Project Management (Major GPA of 2.25) Engineering Lab Measurement	4	Engineering Prereq: PHYS 2426 University Physics II and (MATH 3342 Applied Probability and Statistics or MATH 3345 Statistical Modeling and Data Analysis) Prereq: CEEN 3321 Structural Analysis; prereq or co-req CEEN 4304 Construction Materials Design Prereq: CEEN 3321 Structural Analysis; prereq or co-req CEEN 4304
1st Semester	ENGR 4420 CEEN 4325	Project Management (Major GPA of 2.25) Engineering Lab Measurement Reinforced Concrete Design Structural Steel Design	2 4 3	Engineering Prereq: PHYS 2426 University Physics II and (MATH 3342 Applied Probability and Statistics or MATH 3345 Statistical Modeling and Data Analysis) Prereq: CEEN 3321 Structural Analysis; prereq or co-req CEEN 4304 Construction Materials Design
1st Semester	ENGR 4420 CEEN 4325	Project Management (Major GPA of 2.25) Engineering Lab Measurement Reinforced Concrete Design Structural Steel Design Total HRS	2 4 3 3 15	Engineering Prereq: PHYS 2426 University Physics II and (MATH 3342 Applied Probability and Statistics or MATH 3345 Statistical Modeling and Data Analysis) Prereq: CEEN 3321 Structural Analysis; prereq or co-req CEEN 4304 Construction Materials Design Prereq: CEEN 3321 Structural Analysis; prereq or co-req CEEN 4304
1st Semester	ENGR 4420 CEEN 4325 CEEN 4323	Project Management (Major GPA of 2.25) Engineering Lab Measurement Reinforced Concrete Design Structural Steel Design Total HRS Creative Arts	2 4 3 3 15 3	Engineering Prereq: PHYS 2426 University Physics II and (MATH 3342 Applied Probability and Statistics or MATH 3345 Statistical Modeling and Data Analysis) Prereq: CEEN 3321 Structural Analysis; prereq or co-req CEEN 4304 Construction Materials Design Prereq: CEEN 3321 Structural Analysis; prereq or co-req CEEN 4304 Construction Materials Design
1st Semester	ENGR 4420 CEEN 4325	Project Management (Major GPA of 2.25) Engineering Lab Measurement Reinforced Concrete Design Structural Steel Design Total HRS	2 4 3 3 15	Engineering Prereq: PHYS 2426 University Physics II and (MATH 3342 Applied Probability and Statistics or MATH 3345 Statistical Modeling and Data Analysis) Prereq: CEEN 3321 Structural Analysis; prereq or co-req CEEN 4304 Construction Materials Design Prereq: CEEN 3321 Structural Analysis; prereq or co-req CEEN 4304
	ENGR 4420 CEEN 4325 CEEN 4323	Project Management (Major GPA of 2.25) Engineering Lab Measurement Reinforced Concrete Design Structural Steel Design Total HRS Creative Arts	2 4 3 3 15 3	Engineering Prereq: PHYS 2426 University Physics II and (MATH 3342 Applied Probability and Statistics or MATH 3345 Statistical Modeling and Data Analysis) Prereq: CEEN 3321 Structural Analysis; prereq or co-req CEEN 4304 Construction Materials Design Prereq: CEEN 3321 Structural Analysis; prereq or co-req CEEN 4304 Construction Materials Design
	ENGR 4420 CEEN 4325 CEEN 4323 CEEN 4306	Project Management (Major GPA of 2.25) Engineering Lab Measurement Reinforced Concrete Design Structural Steel Design Total HRS Creative Arts Transportation Engineering Capstone Projects	2 4 3 3 15 3 3 3	Engineering Prereq: PHYS 2426 University Physics II and (MATH 3342 Applied Probability and Statistics or MATH 3345 Statistical Modeling and Data Analysis) Prereq: CEEN 3321 Structural Analysis; prereq or co-req CEEN 4304 Construction Materials Design Prereq: CEEN 3321 Structural Analysis; prereq or co-req CEEN 4304 Construction Materials Design Prereq: CEEN 2315 – Geomatics and Surveying Engineering
	ENGR 4420 CEEN 4325 CEEN 4323 CEEN 4306	Project Management (Major GPA of 2.25) Engineering Lab Measurement Reinforced Concrete Design Structural Steel Design Total HRS Creative Arts Transportation Engineering Capstone Projects Technical Elective	2 4 3 3 15 3 3 3	Engineering Prereq: PHYS 2426 University Physics II and (MATH 3342 Applied Probability and Statistics or MATH 3345 Statistical Modeling and Data Analysis) Prereq: CEEN 3321 Structural Analysis; prereq or co-req CEEN 4304 Construction Materials Design Prereq: CEEN 3321 Structural Analysis; prereq or co-req CEEN 4304 Construction Materials Design Prereq: CEEN 3321 Structural Analysis; prereq or co-req CEEN 4304 Construction Materials Design
1st Semester 2nd Semester	ENGR 4420 CEEN 4325 CEEN 4323 CEEN 4306	Project Management (Major GPA of 2.25) Engineering Lab Measurement Reinforced Concrete Design Structural Steel Design Total HRS Creative Arts Transportation Engineering Capstone Projects	2 4 3 3 15 3 3 3	Engineering Prereq: PHYS 2426 University Physics II and (MATH 3342 Applied Probability and Statistics or MATH 3345 Statistical Modeling and Data Analysis) Prereq: CEEN 3321 Structural Analysis; prereq or co-req CEEN 4304 Construction Materials Design Prereq: CEEN 3321 Structural Analysis; prereq or co-req CEEN 4304 Construction Materials Design Prereq: CEEN 2315 – Geomatics and Surveying Engineering

Completed Hour	s	126
Completed Hour	s (includes First-Year Seminar I & II)	128