

Name: \_\_\_\_\_

Proposed Date of Graduation: \_\_\_\_ / \_\_\_\_ / \_\_\_\_\_

S Number: \_\_\_\_\_

Advisor: \_\_\_\_\_

Term	Grade	Sem	Year	Dept	No	Course	Credit	Pre- (Co-) Reqs	Comments	
FRESHMAN	FAL (1) 16.0			BIOL		Life Science Elective <sup>a</sup>	3			
				SCHE	132L	General Chemistry Lab	1	(SCHE 132)		
				SCHE	132	General Chemistry Lecture	3			
				SENL	101	Freshman Composition I	3			
				ENGR	120	Freshman Engineering I	2			
			SMAT	211	Calculus I	4				
	SPR (2) 16.0			ECON		Economics Elective <sup>a</sup>	3			
				SENL	102	Freshman Composition II	3	SENL 101		
				ENGR	130	Freshman Engineering II	2	ENGR 120		
				SMAT	212	Calculus II	4	SMAT 211		
			SPHY	213	General Physics I Lecture	3	SMAT 211			
		SPHY	213L	General Physics I Lab	1	(SPHY213)				
SOPHOMORE	FAL (3) 17.0			CIEN	201	Surveying	3	(SMAT 211)		
				CIEN	224	Statics	3	SMAT 212 SPHY 213, 213L		
				CIEN	311	Comp Aided Methods in CE	3	ENGR 130		
				ENGR	230	Tech Communications	2	SENL 101		
				ENGR	320	Probability & Statistics	2	SMAT 212		
				SPHY	215	General Physics II Lecture	3	SMAT 212 SPHY 213		
			SPHY	214L	General Physics II Lab	1	(SPHY215)			
	SPR (4) 16.0			CIEN	321	Eng Fluid Mechanic	3	(MEEN 225 SPHY 215, 214L)		
				CIEN	325	Intro to Enviro Eng	3	SCHE 132, 132L		
				MATH	364	Calculus III <sup>b</sup>	4	SMAT 212		
			MEEN	225	Dynamics	3	CIEN 224 SMAT 212			
		MEEN	227	Mech of Materials	3	CIEN 224				
JUNIOR	FAL (5) 18.0					Social Science Elective <sup>a</sup>	3			
				CIEN	361	Structural Analysis	3	MEEN 227		
				CIEN	421	Water & Wastewater Analysis	3	CIEN 325		
				CIEN	423	Hydraulics & Hydrology	3	CIEN 321		
				CIEN	424	Geotechnical Engineering I	3	(CIEN 321)		
			HIST		History Elective #1 <sup>a</sup>	3				
	SPR (6) 17.0			CIEN	310	Engineering Economy	3	SECO 211 or 221		
				CIEN	327	Construction Materials Lab	2	MEEN 227		
				CIEN	381	Transportation Eng I	3	CIEN 201		
				CIEN	469	Structural Steel Design	3	CIEN 361		
			ENGR	330	Diff Equations for Engineers <sup>b</sup>	3	MATH 364			
		ENGL		English Lit Elective <sup>a</sup>	3	SENL 101,102				
SENIOR	FAL (7) 14.0			MEEN	300	Thermodynamics or Fund of	3	SPHY215B for MEEN 300		
				ELEN	352	Electrical Eng <sup>c</sup>	3	SMAT 212 for ELEN352		
				CIEN		Enviro / Water Res Elective <sup>a</sup>	3	See course reqs		
				CIEN	470	Concrete Design	3	CIEN 361 (327)		
				CIEN	478	Engineering Management	3	CIEN 310,311,381		
			CIEN	482	Senior Design Project I	2	CIEN 325,361,381,423 (424)			
	SPR (8) 14.0						Arts Elective <sup>a</sup>	3		
							CE Technical Elective <sup>a</sup>	3	See course reqs	
				CIEN	483	Senior Design Project II	2	CIEN 482		
				ENGR	400	Engineering Seminar	1	Senior Standing		
			HIST		History Elective #2 <sup>a</sup>	3				
						Health / PE Elective <sup>a</sup>	2			

**Additional Requirements**

REQT	GRD	SEM	YR	DEPT	NO	CR	REQT	GRD	SEM	YR	DEPT	NO	CR
African Am Experience <sup>a</sup>						3	Department Comprehensive				CIEN	000	0
Service Learning				SVLR		3	Writing Proficiency				SENL	001	0

Footnotes:

<sup>a</sup> The elective choices are shown on the next page.

<sup>b</sup> Instead of MATH 364 and ENGR 330 (Option I), students can elect to take MATH 395 and ENGR 340 (Option II).

<sup>c</sup> ELEN 208 (Electrical Circuits I) may be substituted for ELEN 352 (Fundamentals of Electrical Engineering).

2017-2020 CURRICULUM – DEGREE REQUIREMENTS NOTES – PAGE 2

- One Hundred Twenty-Eight (128) credit hours are required to fulfill all civil engineering degree requirements
- All ENGR courses, MEEN 225 and MEEN 227 are CORE courses and must be passed with a grade of “C” or better
- All CIEN courses and CE Technical Elective require a grade of “C” or better
- Option I includes MATH 364 and ENGR 330 (Both CORE); Option II includes MATH 395 and ENGR 340 (Both CORE)
- ELEN 208 (Electrical Circuits I) may be substituted for ELEN 352 (Fundamental of Electrical Engineering)
- See the current catalog for more guidance

**Table of Civil & Environmental Engineering Electives**

Environmental / Water Resource Electives			
CIEN 461	Urban Water Resources Systems	CIEN 468	Introduction to Dam Safety & Security
CIEN 462	Design of Water & Sewage Treatment Plants	CIEN 475	Solid & Hazardous Waste Management
CIEN 463	Air Pollution Control	CIEN 476	Design of Hydraulic Structures
Civil Technical Electives			
CIEN 299	Cooperative Education	CIEN 481	Pavement Design & Management
CIEN 382	Transportation Engineering II	CIEN 485	Railway Engineering
CIEN 458	Construction Engineering	ENGR 499	Engineering Practice
CIEN 474	Geotechnical Engineering II	MGMT 300	Principles of Management
CIEN 480	Special Topics in Civil Engineering	UFOR 375	Introduction to Geographic Information Systems

**Table of Courses Requiring a “C” Grade or Better**

All CIEN Courses (Including CE Technical Elective)			
All ENGR Courses			
MEEN 225		MEEN 227	
SBIO 101 or SBIO 102	SENL 101	SMAT 211	SPHY 213
SCHE 132	SENL 102	SMAT 212	SPHY213L
SCHE 132L		MATH 395	SPHY215
			SPHY214L

**Table of Non-Technical Electives**

ALL	English Composition	SENL 101	SENL 102				
ALL	Science	SPHY 213	SPHY 213L	SPHY 215	SPHY 214L	SCHE 132	SCHE 132L
6 hrs	History	SHIS 111 HIST 410	SHIS 112 HIST 463	SHIS 230 HIST 486	HIST 311	HIST 399	HIST 401
3 hrs	Art	SFIA101 MUSC 200	ARTS 210 MUSC 250	ARTS 211 MUSC 251	ARTS 320 MUSC 352	ARTS 330 MUSC 353	ARTS 440 SPTH 360
3 hrs	Life Science	SBIO 101	SBIO 102				
3 hrs	English Literature	SENL 220	SENL 240	ENGL 204	ENGL 205		
2 hrs	Health & PE	PHED 100-250	HLTH 110-365				
3 hrs	Economics	SECO 211	SECO 221				
3 hrs	Social Science	SECO 222 SPOL 211 SPSY 201	ECON 370 POLS 320 PSYC 315	GEOG 210 POLS 402 PSYC 350	GEOG 221 SSOC 201	GEOG 401 SOCL 324	SPOL 201 SOCL 448

**Table of Electives Satisfying the African American Experience**

African American Experience					
SENL 240	ENGL 415	HIST 399	HIST 497	HUMN 366	SOCW 250
ENGL 313	ENGL 485	HIST 401	MUSC 243	HUMN 403	SOCW 450
ENGL 407	ARTS 440	HIST 419	MUSC 352	MCOM 331	SPTH 399
ENGL 413	HIST 311	HIST 496	MUSC 353	PHIL 426	