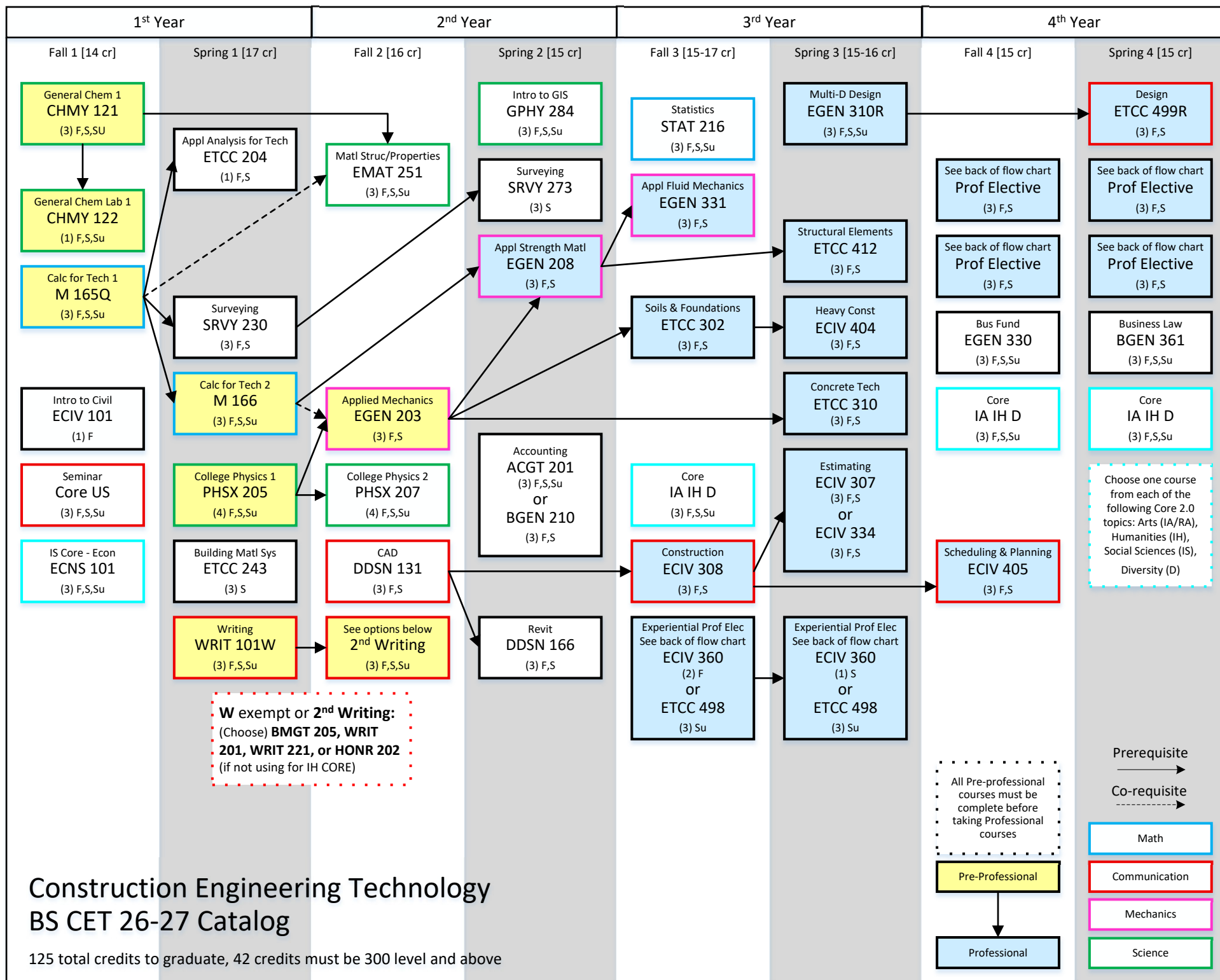




26-27 Environmental Engineering Professional Electives (Total of 18 credits required)

Revised 7/26

	Rubric	No	Cr	Hrs	Title	Offered	Prerequisite
Water Resources & Environmental Engineering Elective							
At least four of these classes	ECIV	431	3		Open Channel Hydraulics	F	ECIV 333
	ECIV	435	3		Closed Conduit Hydraulics	S	ECIV 333
	EENV	432	3		Advanced Engineering Hydrology	S even	ECIV 333
	EENV	434	3		Groundwater Supply and Remediation	S	ECIV 337
	EENV	436	3		Storm Water Management Engr.	F	ECIV 333 & EENV 340 or EENV 341
	EENV	441	3		Natural Treatment Systems	S	EENV 340 or EENV 342
	EENV	443	3		Air Pollution Control	F	ECIV 337 and CHMY 141
	EENV	445	3		Hazardous Waste Treatment	F	EENV 340 or EENV 341
Engineering Tools Elective							
At least one of these	DDSN	245	3		Civil Drafting	F,S	DDSN 131
	EENV	498	3		Career Internship	F,S,Su	
	GPHY	284	3		Intro to GIS Sci and Cartography	F,S,Su	
	SRVY	230	3		Intro to Surveying for Engineers	F,S	M 171
Additional 3 credits required from the lists above or below to reach the required 18 credits. See your advisor for guidance.							
	BIOE	370	3		General Ecology	F,S	BIOB 170
	BIOM	452	3		Soil and Environmental Microbiology	S odd	CHMY 143, ENSC 245
	ECHM	405	3		Sustainable Energy	F	EMAT 251 and ECHM 307 or EMEC 320
	ECIV	406	3		Sustainability Issues in Construction	S	ECIV 308
	ECIV	444	3		Civil Engineering Computations	S	ECIV 202 and M 273
	ECIV	459	3		Sustainable Transportation and Community Health	S	ECIV 350 or consent of instructor
	EIND	425	3		Technology Entrepreneurship	F	EGEN 325 or EGEN 330
	EIND	434	3		Project Management for Engineers	F	Jr Standing
	EIND	477	3		Quality Management Systems	S	EIND 354 or EGEN 350
	ENSC	460	3		Soil Remediation	S	ENSC 245
	GPHY	384	3		Advanced GIS and Spatial Analysis	F,S	GPHY 284
	EENV	490	1-4		Undergraduate Research	F,S,Su	Consent of Instructor
	ECIV	492	1-4		Independent Study	F,S,Su	Consent of Instructor
Maximum 3 cr total					A petitioned course.		
					A course from a completed minor.		
					A course from a prior/concurrent BS/BA degree.		
					A course from a completed Honors program.		

Rubric	Number	Cr Hrs	Title	Offered	Prerequisite
Experiential Professional Electives - Minimum 3 Credits Required - Maximum 9 Credits Total					
ECIV	360	1-2	Estimating & Bidding Fundamentals (RENO)	F,S	Good Academic Standing
ECIV	460	1-2	Advanced Estimation & Bidding (RENO)	F,S	ECIV 360 & Good Academic Standing
ETCC	498	3	Career Internship	Su	Coordination with Professor Knoll Required
Technical Professional Electives - Minimum 6 Credits Required					
ECIV	307	3	Construction Estimating & Bidding	F, S	ECIV 308 (If not Taken as required course)
ECIV	334	3	Heavy Civil Construction Planning & Estimating	F	ECIV 308 (If not Taken as required course)
ECIV	350	3	Transportation Engineering	F, S	Junior Standing
ECIV	406	3	Sustainability in Construction	S	ECIV 308
ECIV	417	3	Heavy Civil Construction Practices	S	ECIV 308
ECIV	507	3	Law of The Construction Industry	F	ECIV 308
ETME	425	3	Building Systems	F	PHSX 207
SRVY	355	3	Surveying Calculations	S even	SRVY 230 Surveying
SRVY	361	3	Intro to Legal Principles in Surveying	F even	SRVY 230 Surveying
SRVY	362	3	Public Land Survey Systems	F odd	SRVY 230 Surveying
SRVY	375	3	Analyt Photo/Remote Sensing	F odd	M 165Q or M 171Q or M 181Q
SRVY	474	3	Project Design in Surveying	S odd	SRVY 230 Surveying; Co-req: DDSN 245
DDSN	245	3	Civil Drafting	F, S	DDSN 131
DDSN	266	3	Revit II	F	DDSN 166
General Professional Electives					
BMGT	322	3	Operations Management	F, S, Su	STAT 216 and Junior Standing
BMGT	329	3	Human Resource Management	F, S	BMGT 335 and BGEN 361
BMGT	335	3	Management & Organization	F, S, Su	Junior Standing
BMGT	406	3	Negotiation/Dispute Resolution	F, S	BMGT 335 and Junior Standing
BMGT	410	3	Sustainable Business Practices	S	BMGT 335 and BMKT 325
BMGT	464	3	International Management	F	BGEN242D, BMGT335 and Junior Standing
BMKT	325	3	Principles of Marketing	F, S, Su	ECNS 101
EELE	354	3	Electric Power Applications	F	M 166 and PHSX 207
EIND	300	3	Engineering Management & Ethics	F	WRIT 101W or COMX111US & Junior Standing
EIND	313	3	Work Design & Analysis	S	WRIT 101W
EIND	425	3	Technology Entrepreneurship	F	CSCI 111 or equiv. and EIND 354 or equiv.
EIND	434	3	Project Management for Engineers	F	Junior Standing
GPHY	384	3	Adv GIS and Spatial Analysis	F, S	GPHY 284 or Consent of Instructor
GPHY	426	3	Remote Sensing	S	Junior Standing or Consent of Instructor
GPHY	429	3	Applied Remote Sensing	S	Junior Standing or Consent of Instructor