

**CIVIL ENGINEERING CURRICULUM
CLASS OF 2025 and after**

Faculty Advisor		Student Name		Student Number		Class Year		
FRESHMAN – FALL				FRESHMAN – SPRING				
CM131 General Chemistry I (4 cr)	Design / KA / Comm	Semester	Grade	CM132 General Chemistry II (4 cr)	Design / KA / Comm	Semester	Grade	
PH131 Fund. Physics I (4 cr)				PH132 Fund. Physics II (4 cr)				
UNIV190 Clarkson Seminar ¹				ES110 Engineering & Society ¹	STS / TECH / C1			
MA131 Calculus I				MA132 Calculus II				
FY/PE100 First Year Seminar (0 cr)				ES100 Intro. Computer (2 cr)				
SOPHOMORE – FALL				SOPHOMORE – SPRING				
CE212 Intro. Engineering Design (F) ²	1.5 / C1			ES222 Strength of Materials				
ES220 Statics				CE305 Construction Plan. & Mgmt. (S)	1			
Elective – KA / UC				ES330 Fluid Mechanics				
MA231 Calculus III				MA232 Differential Equations				
CE301 Intro. Geospatial Analysis	TECH			ES Elective ES223 (recommended)				
JUNIOR & SENIOR YEARS								
Elective – KA / UC				CE310 Geotechnical Eng. (S)	1 / C1			
ES Elective ES260 (recommended)				CE340 Intro. Environmental Eng. (S)	1			
ES Elective ES250 or ES340				Elective – KA / UC				
CE320 Structural Analysis (F)	1 / C1			<input type="checkbox"/> CE441 Reinforced Concrete Design (S) OR <input type="checkbox"/> CE442 Steel Design (F)	3			
CE330 Water Resources Eng. I	1 / C1			CE490/1 Senior Design (S)	3 / C1 / TECH			
STAT383 Probability & Statistics				PROFESSIONAL CONCENTRATIONS (optional)				
EC350 Econ. Principles / Eng. Econ. ³	EC			Construction Engineering Management	Structural Engineering	Water Resources Engineering		
Science Elective ⁴				<input type="checkbox"/> CE411 <input type="checkbox"/> CE415 <input type="checkbox"/> CE441 <input type="checkbox"/> CE442	<input type="checkbox"/> CE420 <input type="checkbox"/> CE415 <input type="checkbox"/> CE441 <input type="checkbox"/> CE442 <input type="checkbox"/> CE490 (C1) with structures focus	<input type="checkbox"/> CE430 <input type="checkbox"/> CE470 <input type="checkbox"/> CE479 (C1) <input type="checkbox"/> CE490 (C1) with water resources focus		
Prof. Elective				One of the following: ⁵ <input type="checkbox"/> OM380 (EC); <input type="checkbox"/> OS286 (IG); <input type="checkbox"/> OM451; <input type="checkbox"/> COMM217 (C2); <input type="checkbox"/> LW270; <input type="checkbox"/> LW466; <input type="checkbox"/> EHS330; <input type="checkbox"/> FN361;	Two of the following: ^{5,6} <input type="checkbox"/> CE408; <input type="checkbox"/> CE411; <input type="checkbox"/> CE445; <input type="checkbox"/> CE448; <input type="checkbox"/> CE452; <input type="checkbox"/> CE453; <input type="checkbox"/> CE501; <input type="checkbox"/> CE512; <input type="checkbox"/> CE521; <input type="checkbox"/> CE538; <input type="checkbox"/> CE541; <input type="checkbox"/> CE549; <input type="checkbox"/> CE555	Two of the following: ⁵ <input type="checkbox"/> CE315; <input type="checkbox"/> CE340; <input type="checkbox"/> CE380 (C1); <input type="checkbox"/> CE434 (STS/C1); <input type="checkbox"/> CE435; <input type="checkbox"/> CE478; <input type="checkbox"/> CE481 (C1); <input type="checkbox"/> CE482		
Prof. Elective				AND completion of one track				
Prof. Elective				<i>Construction / Infrastructure</i> Two of the following: ⁵ <input type="checkbox"/> CE304; <input type="checkbox"/> CE315; <input type="checkbox"/> CE404; <input type="checkbox"/> CE406; <input type="checkbox"/> CE408; <input type="checkbox"/> CE410; <input type="checkbox"/> CE453; <input type="checkbox"/> CE461		One of the following: ⁵ <input type="checkbox"/> BY/EV330 (CGI/STS/C1); <input type="checkbox"/> BY431; <input type="checkbox"/> COMM428 (CGI/STS); <input type="checkbox"/> ES436 (CGI/STS); <input type="checkbox"/> EV305 (C1); <input type="checkbox"/> PHIL370 (STS/C1); <input type="checkbox"/> POL374 (CGI/STS/C1); <input type="checkbox"/> POL375 (CGI); <input type="checkbox"/> POL470 (STS/C1)		
Prof. Elective				<i>Architectural / Building</i> Two of the following: ⁵ <input type="checkbox"/> CE304; <input type="checkbox"/> CE404; <input type="checkbox"/> CE408; <input type="checkbox"/> CE409; <input type="checkbox"/> CE410; <input type="checkbox"/> CE448				
Optional: CE499 FE Exam Review (0 cr)								
ES499 Prof. Experience (0 cr)								
OTHER COURSES (not counted toward degree requirements)				CLARKSON COMMON EXPERIENCE (KA/UC) CHECKLIST			CEE DESIGN CREDITS <input type="checkbox"/> (16.5 required)	
				At least 4 of 6 Knowledge Areas <input type="checkbox"/> CGI <input type="checkbox"/> CSO <input checked="" type="checkbox"/> EC <input type="checkbox"/> IA <input type="checkbox"/> IG <input checked="" type="checkbox"/> STS			CivE Req. ⁷ 12.5	
				One course with two Knowledge Areas (UC) <input type="checkbox"/> ABC123 Sem KA1 KA2				
				Four additional Knowledge Area courses <input type="checkbox"/> ES110 Sem STS <input type="checkbox"/> EC350 Sem EC <input type="checkbox"/> ABC123 Sem KA1 <input type="checkbox"/> ABC123 Sem KA1			COMM. POINTS <input type="checkbox"/> (6.0 required) CivE Req. ⁷ 6.0	

¹ Transfers replace with KA/UC elective, if not credited.
² Transfers replace with a 400-level CE course with at least 1.5 design credits, if not credited.
³ Transfers replace with EC200, if credited with EC150 or EC151.
⁴ Any BY course (3 credits or greater), CE315, CE316, or course designated by CEE Chair.
⁵ Or course designated by CEE Chair.
⁶ CE445, CE501, CE512, CE521, CE538, CE541, CE549 are offered infrequently.
⁷ Amount gained through curriculum requirements may vary if required courses are substituted.