

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

Faculty Advisor		Student Name		Student Number		Class Year			
FRESHMAN – FALL		Design / KA / Comm	Semester	Grade	FRESHMAN – SPRING		Design / KA / Comm	Semester	Grade
CM131 General Chemistry I (4 cr)					CM132 General Chemistry II (4 cr)				
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			CE340 Intro. Environmental Eng. (S)		1		
ES220 Statics					CE380 Fund. Environmental Eng. (S)		1 / C1		
Elective – KA / UC					ES330 Fluid Mechanics				
MA231 Calculus III					MA232 Differential Equations				
CH210 Molecular Properties (F)					Elective – KA / UC				
JUNIOR & SENIOR YEARS									
Elective – KA / UC					BY320 Microbiology (S)				
ES340 Thermodynamics					CE301 Intro. Geospatial Analysis		TECH		
CE479 Water & Wastewater Treatment (F)		3 / C1			CE330 Water Resources Eng. I		1 / C1		
<input type="checkbox"/> CM221 Spectroscopy (F) OR <input type="checkbox"/> CM241 Organic Chemistry (F)					Earth Science Elective ³				
Core Prof. Elective ⁴					Core Prof. Elective ⁴				
EC350 Econ. Principles / Eng. Econ. ⁵		EC			Prof. Elective				
STAT383 Probability & Statistics					Prof. Elective				
Core Prof. Elective ⁴					Prof. Elective				
Prof. Elective					Prof. Elective				
Prof. Elective					CE491 Senior Design (S)		3 / C1 / TECH		
ES499 Prof. Experience (0 cr)					Optional: CE499 FE Exam Review (0 cr)				
ENVIRONMENTAL ENG. CURRICULUM OPTIONS									
Thesis Option		Double Major Option			Core Professional Electives List				
Students are encouraged to work with a professor in their senior year to utilize CE495 and CE496 as two of the professional electives in order to prepare an undergraduate thesis. <input type="checkbox"/> CE495 (F) <input type="checkbox"/> CE496 (S)		Refer to the Double Major curriculum sheet. Double majors will be required to complete 123 credit hours (at least one semester of 18 credit hours). The curriculum has narrowly defined elective options, leaving limited flexibility within an 8-semester timeline.			<input type="checkbox"/> CE481 Haz. Waste Eng. (Even Fall, 2.5 / C1) <input type="checkbox"/> ES432 Risk Analysis (S, 1.5) <input type="checkbox"/> CE486 Industrial Ecology (Even Fall, 1) <input type="checkbox"/> CE482 Env. Systems Analysis Design (Odd Fall, 2)				
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. ⁶ 10.5	
				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. ⁶ 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 BY/EV312, CE315, CE316, CE477, ES436, or course designated by CEE Chair. ⁴ Complete three courses from the Core Professional Electives list. ⁵ Transfers replace with EC200, if credited with EC150 or EC151. ⁶ Amount gained through curriculum requirements may vary if required courses are substituted.									