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

<table>
<thead>
<tr>
<th>Faculty Advisor</th>
<th>Student Name</th>
<th>Student Number</th>
<th>Class Year</th>
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### FRESHMAN – FALL
- **CM131** General Chemistry I (4 cr)
- **PH131** Fund. Physics I (4 cr)
- **UNIV190** Clarkson Seminar
- **MA131** Calculus I
- **FY/PE110** First Year Seminar (0 cr)

### FRESHMAN – SPRING
- **CM132** General Chemistry II (4 cr)
- **PH132** Fund. Physics II (4 cr)
- **ES110** Engineering & Society
- **MA132** Calculus II
- **ES100** Intro. Computer (2 cr)

### SOPHOMORE – FALL
- **CE212** Intro. Engineering Design (F) 1.5 / C1
- **MA251** Calculus III
- **CH210** Molecular Properties (F)

### SOPHOMORE – SPRING
- **CE340** Intro. Environmental Eng. (S)
- **ES300** Fluid Mechanics
- **MA232** Differential Equations

### JUNIOR & SENIOR YEARS

#### Elective
- **BY320** Microbiology (S)
- **ES340** Thermodynamics
- **CE479** Water & Wastewater Treatment (F) 3 / C1
- **EC350** Econ. Principles / Eng. Econ.
- **STAT383** Probability & Statistics
- **CE491** Senior Design (S) 3 / C1 / TECH
- **ES499** Prof. Experience (0 cr)

**OTHER COURSES**
- **CE481** Haz. Waste Eng. (Even Fall, 2.5 / C1)
- **CE482** Env. Systems Analysis Design (Odd Fall, 2)
- **CE486** Industrial Ecology (Even Fall, 1)

## ENVIRONMENTAL ENG. CURRICULUM OPTIONS

### Thesis Option

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.

### Double Major Option
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.

### Core Professional Electives List

- **CE461** Haz. Waste Eng. (Even Fall, 2.5 / C1) 1
- **CE462** Env. Systems Analysis Design (Odd Fall, 2)
- **CE486** Industrial Ecology (Even Fall, 1)
  
### OTHER COURSES

(not counted toward degree requirements)
- **CGI**
- **C5O**
- **EC**
- **IA**
- **IG**
- **STS**

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<th>Course</th>
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<tr>
<td>ABC123</td>
<td>Sem</td>
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<tr>
<td>KA1</td>
<td></td>
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<td>KA2</td>
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### Clarkson Common Experience (KA/UC) Checklist

At least 4 of 6 Knowledge Areas

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<tr>
<th>Category</th>
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<tr>
<td>CGI</td>
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One course with two Knowledge Areas (UC)

- **ABC123** Sem

Four additional Knowledge Area courses

- **ES110** Sem STS
- **EC350** Sem EC
- **ABC123** Sem KA1
- **ABC123** Sem KA1

### CEE Design Credits (16.5 required)

- **Civil Req.** 10.5

### Comm. Points

(6.0 required)

- **Civil Req.** 6.0

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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/BE312, CE315, CE316, CE477, EES36, or course designated by CEE Chair.
4 Complete these 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.