|  |  |  |
| --- | --- | --- |
| **General Education Components**[[1]](#footnote-1) **(15 semester hours)** | | |
|  | Engineering Be Creative | 3 s.h. |
| GEOG:1070 | Contemporary Environmental Issues (satisfies Approved Course Subjects GEC and Sustainability Intro Core Course) | 3 s.h. |
| GEOG:2013 | Introduction to Sustainability (satisfies Approved Course Subjects GEC and Sustainability Intro Core Course) | 3 s.h. |
| ENGL:1510 or JMC:1800 | Introduction to Environmental Literature  Twenty-first-Century Science: Environmental Communication in the Digital Age (satisfies CLAS GEC and Sustainability Intro Core Course) | 3 s.h. |
|  | Course to fulfill the Communication, Ethics, and Interpretation Course Requirement (see Note 2) | 3 s.h. |
| **Statistics Elective (3 semester hours)**  *(Choose One)* | | |
| CBE:3020  STAT:2020 | Statistics for Chemical and Environmental Engineering (offered Spring semesters)  Probability and Statistics for Engineering and Physical Sciences | 3 s.h.  3 s.h. |
| **Advanced Chemistry/Science Electives**[[2]](#footnote-2) **(6 semester hours)** | | |
| CHEM:4873 | Atmospheric & Environmental Chemistry (satisfies Advanced Chemistry Course and Dynamics of Natural Systems requirement) | 3 s.h. |
|  | Advanced Science Course | 3 s.h. |
| **Free Electives (the following 12 semester hour)** | | |
| CBE:4410 | Sustainable Systems (satisfies Sustainability Project Course, *offered Spring semesters*) | 3 s.h. |
| EES:1080 or EES:1085 | Introduction to Environmental Science  Fundamentals of Environmental Science  (satisfies Sustainability Intro Core Course) | 3 s.h. |
|  | Dynamics of Human Systems course (see Note 2) | 3 s.h. |
|  | Additional Sustainability Certificate course or 3000-level science or engineering course | 3 s.h. |

Note 1: Completion of all the courses listed above will result in the completion of a B.S. Degree in Chemical Engineering and a Certificate in Sustainability. Make sure you apply for the Sustainability Certificate on MyUI.

Note 2: The Certificate in Sustainability requires 12 s.h. Introductory Core courses, 3 s.h. from each of the 3 Breath Electives categories (Dynamics of Natural Systems, Dynamics of Human Systems, & Communication, Ethics, and Interpretation) and 3 s.h. from the Project/Integrative Systems category, for a total of 24 s.h. (see the Sustainability section in the UI General Catalog[[3]](#footnote-3)).

1. Specific requirements are given on the College of Engineering website: <https://www.engineering.uiowa.edu/current-students/academic-information/general-education-component> [↑](#footnote-ref-1)
2. <https://cbe.engineering.uiowa.edu/undergraduate-program/undergraduate-handbook/chemical-engineering-curriculum#Advanced%20Chemical%20Science%20Electives>. Discuss with your CBE faculty advisor if you have questions about your advanced chemistry/science electives. [↑](#footnote-ref-2)
3. <https://catalog.registrar.uiowa.edu/university-college/sustainability/certificate/> [↑](#footnote-ref-3)