

Equity and Justice UCORE: Summary of Catalog Updates

College of Engineering and Architecture (no. 2)

Faculty Senate approved February 16, 2023

Summary of Catalog Updates for:

Civil and Environmental Engineering;

The following schedules of studies reflect the updates to the *WSU Catalog* 4-year plans in response to the new Equity and Justice [EQJS] UCORE designation. The updates have been reviewed and approved by the respective departments and college leadership. The effective date is fall 2023 for incoming students.

The departments listed in this summary bulletin will require students to complete 6 of 7 UCOREs in these designations: ARTS, BSCI, DIVR, EQJS, HUM, PSCI, SSCI, including one lab science (BSCI or PSCI). The other UCORE requirements have not changed.

For the purpose of this summary document, the 7 UCORE designations are listed at the top of each schedule as a set and are highlighted as follows:

- Teal highlighting calls out any course that is a specified UCORE course (e.g., CHEM 101) that fulfills both a UCORE and major requirement.
- Yellow highlighting indicates a UCORE designation from which students will choose in order to fulfill the 6 of 7 requirement (e.g., “Arts [ARTS]” becomes “UCORE Inquiry”).
- The “UCORE Inquiry” footnote lists the courses from which students choose to complete the UCORE requirement.

ADVISORY NOTE: The updates below do not reflect any requirement changes that are in process for next year’s catalog. Any requirement changes will be updated with the EQJS information once approved.

Department	Summary of updated schedules of studies for EQJS									
Civil and Environmental Engineering	Civil Engineering (128 Credits)									
	ARTS, BSCI, DIVR, EQJS, HUM, PSCI, SSCI									
	Teal highlight represents a specified UCORE course from the set. <ul style="list-style-type: none">• The BSCI is specified in the context of required 15 credits of science.									
	Yellow highlight represents an open/elective UCORE course.									
	First Year									
	<i>First Term</i>									
	<table><tbody><tr><td>Arts [ARTS]</td><td>3</td></tr><tr><td>CHEM 105 [PSCI]</td><td>4</td></tr><tr><td>ENGLISH 101 [WRTG]</td><td>3</td></tr><tr><td>ENGR 120</td><td>2</td></tr><tr><td>MATH 171 [QUAN]</td><td>4</td></tr></tbody></table>	Arts [ARTS]	3	CHEM 105 [PSCI]	4	ENGLISH 101 [WRTG]	3	ENGR 120	2	MATH 171 [QUAN]
Arts [ARTS]	3									
CHEM 105 [PSCI]	4									
ENGLISH 101 [WRTG]	3									
ENGR 120	2									
MATH 171 [QUAN]	4									

UCORE Inquiry¹	3
<i>Second Term</i>	
	<i>Credits</i>
Biological Sciences [BSCI]	3
ECONS 101 [SSCI] or 102 [SSCI]	3
HISTORY 105 [ROOT]	3
MATH 172	4
MATH 220	2
Second Year	
<i>First Term</i>	
	<i>Credits</i>
CE 211	3
COM 102 [COMM] or HD 205 [COMM] or Humanities [HUM]	3
CST M 254	2
Diversity [DIVR]	3
MATH 273	2
PHYSICS 201	3
PHYSICS 211	1
UCORE Inquiry^{1,2}	6
<i>Second Term</i>	
	<i>Credits</i>
CE 203	2
CE 215	3
CHEM 106, PHYSICS 202/212, or SOE 102 ³	4
ME 212	3
ME 220	1
STAT 360 or 370	3
Complete Writing Portfolio	
Third Year	
<i>First Term</i>	
	<i>Credits</i>
CE 302	2
CE 315	3
CE 317 [M]	4
CE 330	3
CE 341	3
<i>Second Term</i>	
	<i>Credits</i>
CE 320, MSE 201, or ME 301	3
CE 321	2
CE 322	3
CE 351	3

ENGLISH 402 [WRTG] or COM 400 [COMM] ²	3
MATH 315	3
Fourth Year	
<i>First Term</i>	<i>Credits</i>
CE 463	3
CE 480 [M]	1
CE Electives ⁴	9
CE Laboratory Elective ⁵	3
<i>Second Term</i>	<i>Credits</i>
CE 465 [CAPS] [M] ⁷	4
CE Electives ⁴	9
Humanities [HUM] or COM 102 [COMM] or HD 205 [COMM] or upper-division CE Elective ^{2,7}	3
Complete Experiential Requirement ⁸	0 - 1
Exit Interview	

Footnotes

- ¹ ~~Must complete 3 of these 4 UCORE categories: ARTS, DIVR, EQJS, HUM.~~
- ² To fulfill their upper-division CE elective and technical writing requirements, students can choose one of the following course combinations: COM 400 and a 300-400-level CE elective; COM 400 and COM 102; COM 400 and H D 205; ENGLISH 402 and COM 102; ENGLISH 402 and H D 205. ~~A Humanities [HUM] course is required to fulfill UCORE requirements.~~
- ³ CHEM 106 strongly recommended for students emphasizing environmental engineering; SOE 102 strongly recommended for students emphasizing structural, geotechnical, or infrastructure engineering.
- ⁴ CE Elective courses: The 18 credits for elective courses must be distributed such that at least one course, not including the lab, is chosen from two different areas of study, which include Environmental (CE 401, 402, 403, 415, 418, 419, and 442); Geotechnical (CE 400, 425, and 435); Hydraulics (CE 416,450, 451, 456, 460, and 475); Structural (CE 414, 430, 431, 433, 434, and 436); Sustainability (CE 405, 456, and 472); and Transportation/Pavement (CE 400, 472, 473, and 476); Other approved courses include: 4 credits of CE 488, 3 credits of 498, CST M 462, 466, or as approved by advisor. Of the 18 credits for elective courses, at least three courses designated as having a design emphasis, not including the lab, must be chosen. Eligible design courses include: CE 400, 403, 419, 425, 431, 433, 434, 435, 436, 442, 450, 451, 456, 460, 473, 474, or 476.
- ⁵ CE Laboratory Elective: Choose one from CE 400, 415, or 416.
- ⁶ Course to be taken in final semester. With permission of advisor, student may substitute ENGR 421 or 431 for CE 465.

⁷ Upper-division CE Elective – any CE Elective not used to fulfill major requirements, or as approved by advisor. In addition, CE 495 and 499 cannot be used to fulfill this requirement.

⁸ Experiential Requirement: Requires completion of one of the following: 1) one credit of CE 495 or 499; 2) six or more credits of study abroad; 3) military service or participation in recognized ROTC program.

Construction Engineering (127 Credits)

ARTS, BSCI, DIVR, EQJS, HUM, PSCI, SSCI

Teal highlight represents a specified UCORE course from the set.

- The BSCI is specified in the context of required 15 credits of science.

Yellow highlight represents an open/elective UCORE course.

First Year

First Term

	<i>Credits</i>
CHEM 105 [PSCI]	4
ECONS 101 [SSCI] or 102 [SSCI]	3
HISTORY 105 [ROOT]	3
Humanities [HUM]	3
MATH 171 [QUAN]	4
UCORE Inquiry ¹	3

Second Term

	<i>Credits</i>
Arts [ARTS]	3
Biological Sciences [BSCI]	3
CST M 102	2
ENGLISH 101 [WRTG]	3
MATH 172	4
UCORE Inquiry ¹	3

Second Year

First Term

	<i>Credits</i>
CE 211	3
CST M 254	2
Diversity [DIVR]	3
PHYSICS 201	3
PHYSICS 211	1
SOE 101 or 102	4
UCORE Inquiry ¹	3

Second Term

	<i>Credits</i>
CE 203	2
CE 215	3
ME 212	3
ME 220	1

STAT 360 or 370	3
Math/Science Electives ⁴²	4
Complete Writing Portfolio	

Third Year

<i>First Term</i>	<i>Credits</i>
CE 302	2
CE 315	3
CE 330	3
COM 400 [COMM]	3
CON E 252	2
CON E 360	3

<i>Second Term</i>	<i>Credits</i>
CE 317 [M]	4
CON E 351	2
CON E 361	3
CST M 356	3
Professional Electives ²³	3

Fourth Year

<i>First Term</i>	<i>Credits</i>
CE 400	3
CE 463	3
CE 480	1
CST M 460	3
CST M 462	3
Professional Electives ²³	3
Complete Experiential Requirement ³⁴	0 - 1

<i>Second Term</i>	<i>Credits</i>
CE 465 [M] [CAPS] ⁴⁵	4
CST M 368	3
CST M 473	3
CST M 484	3
Professional Electives ²³	3
Con E Exit Survey	

Footnotes

¹ **Must complete 3 of these 4 UCORE categories: ARTS, DIVR, EQJS, HUM.**

⁴² Math/Science Electives (4 credits required): Students may select from CHEM 106, MATH 220 and 273, PHYSICS 202 and 212, SOE 110, 210.

²³ Professional Electives (9 credits required): Students must choose an area of emphasis and complete the required courses and additional professional electives: 1) Structures/Buildings: CE 414 and two from CE 431, 433, or 436; 2) Infrastructure/Pavement: CE 322, 473; and one from CE 425, 472, 474, or 476; 3) Foundations/Heavy Civil: CE 414, 433, 435; 4) Environmental Facilities: CE 341, 442; and one from CE 351, 407, 415, 416, or 418; 5) General Civil: At least 9 credits of 300-400 level CE courses not used to fulfill major requirements. 3 credits must be one of the following 400-level CE design courses: CE 403, 419, 425, 431, 433, 434, 435, 436, 442, 451, 460, 473, 474, or 476.

³⁴ Experiential Requirement: Requires completion of one of the following: 1) one credit of CE 495 or 499; 2) six or more credits of study abroad; 3) military service or participation in recognized ROTC program.

⁴⁵ CE 465 [M] [CAPS] must be taken in the final semester.