

**UNDERGRADUATE AND PROFESSIONAL MAJOR CHANGE BULLETIN NO. 12, addendum 2**

**Spring 2023**

**Faculty Senate approved April 6, 2023**

**--REQUIREMENTS--**

The requirements listed below reflect the undergraduate major curricular changes approved by the Catalog Subcommittee since approval of the last Undergraduate Major Change Bulletin. All changes are underlined. Deletions are crossed out. The column to the far right indicates the date each change becomes effective. Note: Items marked {S} have been streamlined and do not require Catalog Subcommittee review.

<b>Department</b>	<b>Proposed</b>	<b>Effective Date</b>
<p><b>Civil and Environmental Engineering</b> Revise graduation requirements for BS in Civil Engineering</p>	<p><b>Civil Engineering (128 Credits)</b></p> <p><b>Admission to the Major Criteria</b></p> <p>Students may be admitted to the Civil Engineering degree program either in the Department of Civil and Environmental Engineering, on the Pullman campus, or in the School of Engineering and Applied Sciences, on the Tri-Cities campus.</p> <p>To be admitted to the Civil Engineering major, students must have one of the following:</p> <ul style="list-style-type: none"><li>• An 83% or higher ALEKS math placement score</li><li>• WSU enrollment in MATH 171 or equivalent credit earned with a ‘C’ or higher grade</li><li>• An AP Calculus score of ‘2’ or higher (AB or BC exam)</li></ul> <p>To remain in the Civil Engineering major, students must complete the following benchmarks:</p> <ul style="list-style-type: none"><li>• A grade of ‘C’ or better in the following courses: -- MATH 171, MATH 172 -- CE 211 -- PHYSICS 201 and 211</li><li>• A cumulative GPA of 2.5 or higher (or transfer GPA if no WSU GPA exists upon completion of the above courses)</li></ul> <p>The admission to major benchmarks are the same on all campuses, but the application process may vary. Students should consult with their advisor about their readiness for admission to the major and apply during the semester in which admission requirements will be met.</p> <p>The admission to the major is only valid for the current campus of residence. Should a student decide to change campus after admission to the major, they will need to reapply for admission to the major for the</p>	<p><b>8-23</b></p>

campus to which they transfer.

Students who are deficient under the University's Academic Regulations or whose GPA in CE courses falls below 2.0 are subject to loss of eligibility of major. The undergraduate studies committee on each campus will determine the probation conditions for academically deficient students. Students must meet the conditions of their probation during the following semester to remain admitted to the major. Students failing to meet their probationary conditions during the following semester are released from the major.

**Experiential Requirement**

To earn a B.S. degree in Civil Engineering, students must complete one of the following experiential requirements:

1. An internship of at least eight weeks duration, with at least one credit of CE 495.
2. A research position of at least eight weeks duration under the supervision of a departmental faculty member or approved mentor, with at least one credit of CE 499.
3. Study abroad for six or more credit hours. International students in the School of Engineering and Applied Sciences will meet this requirement through their study in the United States.
4. Participation in a recognized ROTC program. Veterans in the Department of Civil Environmental Engineering or in the School of Engineering and Applied Sciences will have met this requirement through their prior service in the armed forces.
5. A leadership or service experience of at least one semester, subject to departmental approval, with at least one credit of CE 499.

At least 50 of the total hours required for this degree must be in 300-400-level courses. None of the courses listed below may be taken on a pass/fail basis. A grade of C or higher in all CE courses used to fulfill major requirements is required for graduation.

Students should consult with their advisor at their campus of residence for approved alternative course sequences and choices as well as allowed substitutions to the schedule of studies listed below. At the time of admission to the CE program, all pre-existing upper-division CE coursework from previous institutions can be evaluated by the department for compliance with degree requirements on a case-by-case basis. Following admission to the CE program, all subsequent upper-division CE courses must be taken at WSU. However, an exception may be made if a student receives less than a C grade in one CE course during their last semester at WSU. With approval of the department chair, a student can make up that one course only at a different institution.

**First Year**

*First Term*

*Credits*

CHEM 105 [PSCI]	4
ENGLISH 101 [WRTG]	3
ENGR 120	2
MATH 171 [QUAN]	4
UCORE Inquiry <sup>1</sup>	3
<b><i>Second Term</i></b>	<b><i>Credits</i></b>
Biological Sciences [BSCI]	3
ECONS 101 [SSCI] or 102 [SSCI]	3
HISTORY 105 [ROOT]	3
MATH 172	4
MATH 220	2
<b>Second Year</b>	
<b><i>First Term</i></b>	<b><i>Credits</i></b>
CE 211	3
CST M 254	2
MATH 273	2
PHYSICS 201	3
PHYSICS 211	1
UCORE Inquiry <sup>1,2</sup>	6
<b><i>Second Term</i></b>	<b><i>Credits</i></b>
CE 203	2
CE 215	3
CHEM 106, PHYSICS 202/212, <u>SOE 101</u> , or SOE 102 <sup>3</sup>	4
ME 212	3
ME 220	1
STAT 360 or 370	3
Complete Writing Portfolio	
<b>Third Year</b>	
<b><i>First Term</i></b>	<b><i>Credits</i></b>
CE 302	2
CE 315	3
CE 317 [M]	4
CE 330	3
CE 341	3
<b><i>Second Term</i></b>	<b><i>Credits</i></b>
CE 320, MSE 201, or ME 301	3
CE 321	2

	CE 322	3	
	CE 351	3	
	ENGLISH 402 [WRTG] or COM 400 [COMM] <sup>2</sup>	3	
	MATH 315	3	
	<b>Fourth Year</b>		
	<b><i>First Term</i></b>		<b><i>Credits</i></b>
	CE 463	3	
	CE 480 [M]	1	
	CE Electives <sup>4</sup>	9	
	CE Laboratory Elective <sup>5</sup>	3	
	<b><i>Second Term</i></b>		<b><i>Credits</i></b>
	CE 465 [CAPS] [M] <sup>6</sup>	4	
	CE Electives <sup>4</sup>	9	
	COM 102 [COMM] or HD 205 [COMM] or upper division CE Elective <sup>2,7</sup>	3 or 4	
	Complete Experiential Requirement <sup>7</sup>	0 - 1	
	Exit Interview		
	<b>Footnotes</b>		
	<sup>1</sup> Must complete 3 of these 4 UCORE categories: ARTS, DIVR, EQJS, HUM.		
	<sup>2</sup> 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.		
	<sup>3</sup> CHEM 106 strongly recommended for students emphasizing environmental engineering; SOE <u>101 or 102</u> strongly recommended for students emphasizing structural, geotechnical, or infrastructure engineering.		
	<sup>4</sup> 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.		
	<sup>5</sup> CE Laboratory Elective: Choose one from CE 400, 415, or 416.		
	<sup>6</sup> Course to be taken in final semester. With permission of advisor, student may substitute ENGR 421 or 431 for CE 465.		
	<sup>7</sup> 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.		
	<sup>8</sup> 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.		
<b>Human Development</b>	<b>Leadership Minor</b>		<b>8-23</b>

<p>New minor: Leadership</p>	<p>The interdisciplinary Leadership Minor, offered through the Center for Transformational Learning &amp; Leadership, is open to all students interested in developing high-demand applicable leadership skills. Students will learn leadership theories, examine the ethics and social responsibility of leadership, consider the centrality of diversity, equity, and inclusion to leadership, and develop leadership skills through engagement in service-learning and self-selected leadership experiences. Students can explore discipline specific leadership development through elective courses. All students will take three leadership core classes including H D 205 or H D 305; H D 315; and H D 415 or H D 416. Students will take one class in each of three categories (ethics; diversity, equity, &amp; inclusion; and leadership electives). In addition to the above courses, students will participate in an approved self-selected leadership experience where they will explore leadership theories and develop leadership skills through hands-on experiential learning, culminating in a required leadership portfolio completed through a one-credit HD 499 course. The minor requires a minimum of 19 credits. At least 9 credits must be upper-division taken in residence at WSU or through WSU-approved education abroad or educational exchange courses. A minimum cumulative GPA of 2.6 is required in courses applied to the minor.</p> <p><b>Leadership Core</b> (3 courses required): H D 205 or 305; 315; 415 or 416</p> <p><b>Ethics Elective</b> (1 course required): ASIA 320; B A 211; COM 440; CRM J 450; CST M 467; MGMT 487; NAV SCI 402; NURS 309; PHIL 103, 360, 365, 370, 450; SPMGT 365; WGSS 462/PHIL 462</p> <p><b>Diversity, Equity, &amp; Inclusion</b> (1 course required): ANTH 220, 316; CES 101, 291, 440, 462, 464, 489; COM 321; CRM J 205; H D 350, 403; HISTORY/WGSS 399; NURS 455; PSYCH 309; SOC 340; WGSS 120; WGSS/ENGLISH/SOC 300/310/300; WGSS/SOC 385</p> <p><b>Leadership Electives</b> (1 course required): AERO 311; AMDT 440; HBM 381; H D 334; I BUS 280, 480; KINES 315; MGMT 301, 401; MIL SCI 301; NAV SCI 206; NURS 405, 408; POL S 442; PSYCH 308; SOC 341; UNIV 295, 497</p> <p><b>Leadership Experience</b> (1 credit H D 499): Leadership Minor students must complete at least one applied leadership experience lasting one semester or more (Fall, Spring, or Summer Session). Not all leadership experience requires an official title or leadership position. Students must confirm leadership experience by the start of the semester in which it will be completed by emailing the Leadership Minor faculty advisor (<a href="mailto:ctl.lead@wsu.edu">ctl.lead@wsu.edu</a>) and enrolling in one (1) credit of H D 499, which will be taken during the approved leadership experience. At the conclusion of H D 499, students will produce a leadership portfolio that will highlight their experience, career goals, and leadership development. Students must complete H D 315 prior to the leadership experience.</p>	
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