

UNDERGRADUATE AND PROFESSIONAL MAJOR CHANGE BULLETIN NO. 2
Fall 2022

--REQUIREMENTS--

Faculty Senate approved October 20, 2022

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.

Department	Proposed	Effective Date																										
<p>Engineering and Computer Science Revise requirements for BS in Electrical Engineering (Vancouver Only)</p>	<p>Bachelor of Science, Electrical Engineering (Vancouver only) (121 Credits)</p> <p>For the major in the Electrical Engineering degree program on the Vancouver campus, students are admitted to the Electrical Engineering major upon demonstrating they are ready to take MATH 171 (Calculus I) or higher and making their intention known to the department.</p> <p>To remain in good standing, students must complete the benchmark courses: CS 251, ECE 214, 234, 260, MATH 171, 172, 220, 273, 315, CHEM 105, PHYSICS 201 and 211, and PHYSICS 202 and 212 (or their transfer equivalents) with a grade of C or better and obtain a WSU cumulative GPA of 2.5 or higher when the final benchmark course is completed.</p> <p>No courses listed in this schedule of studies may be taken on a pass/fail basis. All upper-division electrical engineering courses must be completed with a minimum 2.0 average GPA.</p> <p>First Year</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><i>First Term</i></th> <th style="text-align: right;"><i>Credits</i></th> </tr> </thead> <tbody> <tr> <td>CHEM 105 [PSCI]</td> <td style="text-align: right;">4</td> </tr> <tr> <td>ECE 101</td> <td style="text-align: right;">2</td> </tr> <tr> <td>HISTORY 105 [ROOT]</td> <td style="text-align: right;">3</td> </tr> <tr> <td>Humanities [HUM]</td> <td style="text-align: right;">3</td> </tr> <tr> <td>MATH 171 [QUAN]</td> <td style="text-align: right;">4</td> </tr> <tr> <td colspan="2"> </td> </tr> <tr> <th style="text-align: left;"><i>Second Term</i></th> <th style="text-align: right;"><i>Credits</i></th> </tr> <tr> <td>CS 251</td> <td style="text-align: right;">4</td> </tr> <tr> <td>ENGLISH 101 [WRTG]</td> <td style="text-align: right;">3</td> </tr> <tr> <td>MATH 172</td> <td style="text-align: right;">4</td> </tr> <tr> <td>PHYSICS 201 [PSCI]</td> <td style="text-align: right;">3</td> </tr> <tr> <td>PHYSICS 211 [PSCI]</td> <td style="text-align: right;">1</td> </tr> </tbody> </table>	<i>First Term</i>	<i>Credits</i>	CHEM 105 [PSCI]	4	ECE 101	2	HISTORY 105 [ROOT]	3	Humanities [HUM]	3	MATH 171 [QUAN]	4	 		<i>Second Term</i>	<i>Credits</i>	CS 251	4	ENGLISH 101 [WRTG]	3	MATH 172	4	PHYSICS 201 [PSCI]	3	PHYSICS 211 [PSCI]	1	<p>8-24</p>
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Second Year

<i>First Term</i>	<i>Credits</i>
Biological Sciences [BSCI]	3 or 4
ECE 214	3
MATH 220	2
MATH 273	2
PHYSICS 202	3
PHYSICS 212	1

<i>Second Term</i>	<i>Credits</i>
Diversity [DIVR]	3
ECE 234	3
ECE 260	4
ECONS 101 [SSCI] or 102 [SSCI]	3
MATH 315	3
Complete Writing Portfolio	

Third Year

<i>First Term</i>	<i>Credits</i>
ECE 321	3
ECE 325	4
ECE Elective ¹	3
ENGLISH 402 [WRTG]	3
STAT 360	3

<i>Second Term</i>	<i>Credits</i>
<u>ECE 311</u>	<u>3</u>
ECE 341	3
ECE 370	3
ECE Electives ¹	<u>9</u> <u>6</u>

Fourth Year

<i>First Term</i>	<i>Credits</i>
ECE 411	3
ECE 451	2
ECE Electives ¹	<u>9</u> <u>1</u> <u>2</u>

<i>Second Term</i>	<i>Credits</i>
Arts [ARTS]	3
ECE 405 [M]	3
ECE 452 [M] [CAPS]	3

	<p>ECE Electives¹ 6</p> <hr/> <p>Footnotes</p> <p>¹ ECE Electives must be chosen from CS 330, 466, ECE 302, 316, 324, 327, 345, 349, 366, <u>411</u>, 414, 421, 424, 425, 461, 462, 466, 471, 476, 483, 495, 496, MECH 441, 467, 468, or be pre-approved by a faculty advisor.</p>	
<p>Environment Revise requirements for undergraduate certificate in Water Resources Science and Management</p>	<p>Water Resources Science and Management</p> <p>The Certificate in Water Resources Science and Management, administered by the School of the Environment, is an interdisciplinary certificate for students interested in water resources. The certificate includes 15 credits and an experiential requirement. Students must complete a minimum of one course from each of four water cluster areas listed below. Courses listed under more than one cluster area will not count toward two cluster areas simultaneously. Note that listed courses may require prerequisites. To ensure an interdisciplinary experience, selected courses must represent two or more different subject areas. A final grade of “C” or better is required for each course applied to the certificate and a cumulative GPA of 3.0 or better is required for the certificate program as a whole.</p> <ol style="list-style-type: none"> 1. Subsurface and Surface Hydrology: CE 351, 402, 460, SOE 250, 303, 315, 463, SOE/CE 475, SOIL SCI 414; 2. Water Chemistry/Ecology/Biology: AGTM 315, BIOLOGY 390, 465, 469, BSYSE 554, CE 341, 418, SOE 275, <u>280</u> 300, 411, 412, 417, 454, 463, 464, 465, <u>476</u> 492; 3. Water Methods & Analysis: CE 315, 341, 351, <u>407</u>, 415, 416, 418, 419, 442, 450, 451, SOE 311, SOIL SCI 468; 4. Water Policy & Management: CE 405, 456, CROP SCI 360, ECONS 330, 430, 431, HISTORY 422<u>324</u>, SOC 331, 332, SOE 438, 444, 461; <p>Experiential Requirement: In addition to the course requirements described above, the certificate also includes an experiential requirement of required attendance at a minimum of three water-related activities hosted by the certificate program. Participants in the program are required to attend Water Meeting and Social and Water Research Center Invited Lecture Event, both of which are conducted every Fall and Spring semester. Additional activities that may fulfill the Experiential Requirement include: field trips, documentary film</p>	<p>8-23</p>

	<p>screenings with discussion, and water-related internships. These additional activities require committee approval and/or competitive application.</p>	
<p>Human Development Change name of minor from Aging to Gerontology and revise requirements</p>	<p><u>Aging Gerontology Minor</u></p> <p>The minor in <u>aging gerontology</u> requires a minimum of 18 <u>hours of credits and a minimum GPA of 2.6 or better in course work used to fulfill the minor.</u></p> <p><u>Required courses including BIOLOGY 140; H D 308 or 405; PSYCH 363 or 490; SOC 356, and approved aging-related courses (6 hours) to be 15 credits selected from a list of recommended courses available from the program chair HBM 375, 497; H D 308, 360, 384, 385; KINES 264; MGMT 101, 301; PSYCH 320, 363, 490; SOC 351, 356. Course work credit hours for the minor must include a minimum of 9 hours credits of upper-division work 300-400-level courses taken in residence at WSU or through WSU-approved education abroad or educational exchange courses. Students must obtain approval of their course selection from the program chair.</u></p>	<p>8-23</p>
<p>Human Development Revise requirements for undergraduate Gerontology Certificate</p>	<p><u>Gerontology Certificate</u></p> <p>The dDepartment of Human Development <u>and the Program in Aging</u> offers a <u>Certificate in Gerontology</u>. The certificate reflects a high standard of training and experience in the<u>this</u> specific area of human development. Non-human development majors are required to complete any prerequisites for the internship requirement. The requirements include <u>6 credits in H D core courses that support the area of certification, 15 credits in required and optional courses, and 3 credits of internship that reflect the area of certification H D 405, 497, 498, an internship that reflects the area of certification, and 15 credits taken from an approved list of courses.</u> Students must maintain an overall GPA of 2.6 <u>or better</u> in those courses that count toward the certificate.</p> <p>Certificate requirements:</p> <p>Required courses: BIOLOGY 140; H D 308 or 405; HD 497; HD 498; PSYCH 363 or 490; SOC 351 or 356. Elective Courses, <u>6</u>15 credits minimum from the following: BIOLOGY <u>140</u>233; HBM 375, 497; H D 308 or 405 (if not used in required), 360, <u>384, 385</u>; KINES 264, 364; MGMT 101, 301; PHIL</p>	<p>8-23</p>

	103, 365; PSYCH 320, 363, 490 (if not used in required); SOC 250, 351, 356 (if not used in required).	
Languages, Cultures, and Race New minor: Japanese Area and Culture Studies	Japanese Area and Culture Studies A minimum of 17 credits is required. A foundation of the target language, including both JAPANESE 203 (4 credits) and JAPANESE 204 (4 credits), is required. One of the three additional required courses must be a language course taken from JAPANESE 306, 307, 308, and 361. Additional electives that may apply to the minor include JAPANESE 320, 322; CHINESE/ASIA 311, 330; ASIA/FINE ART 302; ASIA/HISTORY 374, 377, 379, 387. A minimum of 9 credits with a letter grade must be taken in residency at WSU at the 300-400 level. All courses must be passed with a grade of C or better. Courses counting towards a minor in the language may not be counted towards a major in International Area Studies (i.e., Latin America Area Studies, German Area Studies, French and Francophone Area Studies, or Russian Area Studies). For courses taken in Study Abroad Programs or as other transfer credits, please check with your advisor.	8-23