

UNDERGRADUATE AND PROFESSIONAL MAJOR CHANGE BULLETIN NO. 1

Spring 2026

--REQUIREMENTS--

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

Department	Proposed														
<p>Animal Sciences Revise requirements for BS in Animal Sciences - Accelerated Pre-Veterinary Option</p>	<p>Animal Sciences – Accelerated Pre-Veterinary Option (127 Credits)</p> <p>NOTE: Students must complete a minimum of 90 undergraduate credits – including 30 credits of 300-level course work - and be accepted into the Veterinary Medicine program to complete this option.</p> <p>In order to meet the increasing demand for food-animal veterinarians, the Department of Animal Sciences and the College of Veterinary Medicine have created a combined program designed to train selected, highly qualified students to earn both a Bachelor of Science in Animal Sciences and a Doctor of Veterinary Medicine (DVM) degree within a seven-year program. Students will take a three-year animal science program, including all UCORE requirements, animal sciences requirements, and pre-veterinary medicine requirements. The program includes mathematics; chemistry, including organic and biochemistry; general biology; physics; and animal sciences courses, including an introduction to livestock; then further education in animal nutrition, breeding and genetics, reproduction, and the economics of animal management. Students will then enter the College of Veterinary Medicine and complete the requirements for total hours and 300-400-level hours to earn the BS in Animal Sciences. Students will continue the curriculum, leading to the DVM degree, for a total of seven years of college work.</p> <p>Qualified students in the Department of Animal Sciences with high scholastic achievement and demonstrated experience and interest in working with livestock will be invited to apply for the accelerated program during the second semester of the first year. Selected students are admitted to the major in the first semester of the sophomore year. Application and acceptance procedures for the DVM program are the same as those for other applicants. Successful participants will complete the three-year animal sciences program and begin the veterinary medicine curriculum in their fourth year of study. If the student is not accepted or withdraws from the DVM program, the student is required to complete additional undergraduate coursework to earn the BS in Animal Sciences.</p> <table border="1" data-bbox="342 1528 1429 1869"> <thead> <tr> <th colspan="2">First Year</th> </tr> <tr> <th><i>First Term</i></th> <th><i>Credits</i></th> </tr> </thead> <tbody> <tr> <td>ANIM SCI 101</td> <td>3</td> </tr> <tr> <td>ANIM SCI 172, <u>or</u> 174, or 178</td> <td>1</td> </tr> <tr> <td>ANIM SCI 180</td> <td>1</td> </tr> <tr> <td>CHEM 105 [PSCI]</td> <td>4</td> </tr> <tr> <td>HISTORY 105 [ROOT]</td> <td>3</td> </tr> </tbody> </table>	First Year		<i>First Term</i>	<i>Credits</i>	ANIM SCI 101	3	ANIM SCI 172, <u>or</u> 174, or 178	1	ANIM SCI 180	1	CHEM 105 [PSCI]	4	HISTORY 105 [ROOT]	3
First Year															
<i>First Term</i>	<i>Credits</i>														
ANIM SCI 101	3														
ANIM SCI 172, <u>or</u> 174, or 178	1														
ANIM SCI 180	1														
CHEM 105 [PSCI]	4														
HISTORY 105 [ROOT]	3														

MATH Requirement ¹	4
<i>Second Term</i>	<i>Credits</i>
BIOLOGY 106 [BSCI]	4
CHEM 106	4
ENGLISH 101 [WRTG]	3
H D 205 [COMM] or Communication [COMM]/[WRTG]	3 or 4
MATH Requirement or Electives ¹	2 or 3
Second Year	
<i>First Term</i>	<i>Credits</i>
ANIM SCI Electives ²	3
BIOLOGY 107	4
CHEM 345	4
UCORE Inquiry ³	6
<i>Second Term</i>	<i>Credits</i>
ANIM SCI 240	3
ECONS 101 [SSCI]; <u>102 [SSCI]</u> ; or <u>ECONS 198</u>	3
MBIOS 301	4
STAT 212 [QUAN]	4
UCORE Inquiry ³	3
Complete Writing Portfolio	
Third Year	
<i>First Term</i>	<i>Credits</i>
ANIM SCI 313	4
ANIM SCI 330	3
ANIM SCI 380	1
ANIM SCI 440 [M], 464 [CAPS] [M], 472 [CAPS] [M], or 488 [M] ⁴	3
CHEM 370 or MBIOS 303	3 or 4
<i>Second Term</i>	<i>Credits</i>
ANIM SCI 350	3
ANIM SCI 351	1
ANIM SCI 408 [M], 451 [M], 473 [M], 474 [CAPS] [M], or 485 [M] ⁴	3
ANIM SCI Electives ²	6
PHYSICS 101	3
PHYSICS 111	1
Fourth Year	
<i>First Term</i>	<i>Credits</i>

DVM Coursework	15
<i>Second Term</i>	<i>Credits</i>
DVM Coursework	15

Footnotes

¹MATH requirement may be satisfied by completing MATH 106 and 108, 140 [QUAN], or 171 [QUAN].

²ANIM SCI Electives (9 credits): Any 300-400-level ANIM SCI course not S, F-graded and not used to fulfill other requirements, or advisor.

³Must complete 3 of these 4 UCORE designations: ARTS, DIVR, EQJS, HUM.

⁴To fulfill UCORE [CAPS] requirement, must include one of the following courses: ANIM SCI 464 [CAPS], 472 [CAPS], or 474 [CAPS].

Animal Sciences
Revise requirements for BS in Animal Sciences - Animal Science, Technology, and Production Option

Animal Sciences – Animal Science, Technology, and Production Option (120 Credits)

Honors students complete the Honors College requirements, which replace the UCORE requirements.
Newly matriculated students may be admitted to the animal sciences major upon making their intent to the department.

Current students seeking admission to the major must have a cumulative GPA of 2.0 or better and be in good academic standing with the University.

First Year	
<i>First Term</i>	<i>Credits</i>
ANIM SCI 101	3
ANIM SCI 180	1
CHEM 101 [PSCI] or 105 [PSCI]	4
HISTORY 105 [ROOT]	3
MATH Requirement ¹	3 or 4
<i>Second Term</i>	<i>Credits</i>
BIOLOGY 106 [BSCI]	4
CHEM 102 or 106	4
ENGLISH 101 [WRTG]	3
H D 205 [COMM] (recommended) or other [COMM] course	3 or 4
Second Year	
<i>First Term</i>	<i>Credits</i>
BIOLOGY 107	4
Lab Management Requirement ²	1
UCORE Inquiry ³	3
MATH Requirement and /or Electives ¹	6
<i>Second Term</i>	<i>Credits</i>
ANIM SCI 240	3

ECONS 101 [SSCI]; 102 [SSCI] or ECONS 198	3
STAT 212 [QUAN], 412, or PSYCH 311 [QUAN] ⁴	3 or 4
UCORE Inquiry ³	3
Electives	3
Complete Writing Portfolio	
Third Year	
<i>First Term</i>	<i>Credits</i>
ANIM SCI 313	4
ANIM SCI 330	3
ANIM SCI 380	1
ANIM SCI Group 1 Elective ⁵	2 or 3
Business and Economics Course ⁶	3
Electives	3
<i>Second Term</i>	<i>Credits</i>
ANIM SCI 350	3
ANIM SCI 351	1
ANIM SCI Group 1 Elective ⁵	2 or 3
Business and Economics Course ⁶	3
UCORE Inquiry ³	3
VET CLIN 361, 367, or VET PH 308	3 or 4
Fourth Year	
<i>First Term</i>	<i>Credits</i>
Ag Sciences Elective ⁷	3
ANIM SCI 464 [CAPS] [M] or 472 [CAPS] [M] ⁸	3
ANIM SCI Group 2 Electives ⁹	6
Electives ¹⁰	3
<i>Second Term</i>	<i>Credits</i>
ANIM SCI Group 2 Electives ⁹	6
Electives ¹⁰	11

Footnotes

¹ MATH requirement may be satisfied by completing MATH 106 and 108, 140 [QUAN], 171 [QUAN], or 202 [QUAN].

² Lab Management Requirement courses (One course) include ANIM SCI 166, 172, 174 (Fall-only), 178, 280 (Spring only).

³ Must complete 3 of these 4 UCORE designations: ARTS, DIVR, EQJS, HUM.

⁴ Students who have not yet completed a [QUAN] course should select STAT 212 or PSYCH 311.

⁵ ANIM SCI Group 1 Electives (Two courses) include ANIM SCI 205, 260, 266, 267, 274, 285, 314, 345, 346, 360, and other course by advisor.

⁶ Business and Economics Electives (Two courses) include ACCTG 230; B LAW 210; ECONS 330, 335, 350, 351, 352, 450, and other approved by advisor.

- ⁷ Ag Sciences Electives: Any level AFS, AGTM, CROP SCI, ENTOM, FS, HORT, and SOIL SCI course. To meet University requirement for upper division coursework, students may need to select a 300-400 level course.
- ⁸ ANIM SCI 474 [CAPS][M] may be taken as an alternative in Spring semester.
- ⁹ ANIM SCI Group 2 Electives (Four courses) must include one [M] course. Students may choose any of the following courses that have been used to fulfill other requirements: ANIM SCI 314, 345, 346, 360, 378, 408 [M], 440 [M], 451 [M], 454, 460, 464 [CAPS] [M], 472 [M], 473 [M], 474 [CAPS] [M], 478 [M], 485 [M], 488 [M], and other courses as approved by advisor.
- ¹⁰ Elective courses should include sufficient credits and 300-400-level coursework to meet the University requirement of 120 credits and upper-division coursework.

Animal Sciences
 Revise
 requirements for
 BS in Animal
 Sciences - Pre-
 Veterinary
 Medicine/Science
 Option

Animal Sciences – Pre-Veterinary Medicine/Science Option (120 Credits)

Newly matriculated students may be admitted to the animal sciences major upon making their intent to the department.

Current students seeking admission to the major must have a cumulative GPA of 2.0 or better and be in good academic standing with the University.

First Year	
<i>First Term</i>	<i>Credits</i>
ANIM SCI 101	3
ANIM SCI 180	1
CHEM 105 [PSCI]	4
HISTORY 105 [ROOT]	3
MATH Requirement ¹	3 or 4
<i>Second Term</i>	<i>Credits</i>
BIOLOGY 106 [BSCI]	4
CHEM 106	4
ENGLISH 101 [WRTG]	3
MATH Requirement, and/or Electives ¹	5
Second Year	
<i>First Term</i>	<i>Credits</i>
BIOLOGY 107	4
CHEM 345	4
H D 205 [COMM] (recommended) or Communication [COMM]/[WRTG]	3 or 4
Lab Management Requirement ²	1
UCORE Inquiry ³	3
<i>Second Term</i>	<i>Credits</i>
ANIM SCI 240	3
CHEM 370 or MBIOS 303	3 or 4
STAT 212 [QUAN], 412, or PSYCH 311 [QUAN] ⁴	3 or 4
UCORE Inquiry ³	3
Electives	3
Complete Writing Portfolio	

Third Year	
<i>First Term</i>	<i>Credits</i>
ANIM SCI 313	4
ANIM SCI 330	3
ANIM SCI 380	1
MBIOS 301	4
200-300-level ANIM SCI Electives ⁵	2 or 3
<i>Second Term</i>	<i>Credits</i>
ANIM SCI 350	3
ANIM SCI 351	1
ECONS 101 [SSCI]; <u>102 [SSCI]</u> ; or ECONS 198	3
PHYSICS 101	3
PHYSICS 111	1
UCORE Inquiry ³	3
200-300-level ANIM SCI Electives ⁵	2 or 3
Fourth Year	
<i>First Term</i>	<i>Credits</i>
ANIM SCI 464 [CAPS] [M] or 472 [CAPS] [M] ⁶	3
400-level ANIM SCI Electives ⁷	5 or 6
Electives ⁸	7
<i>Second Term</i>	<i>Credits</i>
BIOLOGY 324, VET CLIN 361, or VET PH 308	3 or 4
400-level ANIM SCI Electives [M] ⁷	3
Electives ⁸	9
Footnotes	
¹ MATH requirement may be satisfied by completing MATH 106 and 108, 140 [QUAN], or 171 [QUAN].	
² Lab Management Requirement courses (One course) include ANIM SCI 166, 172, 174 (Fall-only), 178, 280 (Spring only).	
³ Must complete 3 of these 4 UCORE designations: ARTS, DIVR, EQJS, HUM.	
⁴ Students who have not yet completed a [QUAN] course should select STAT 212 or PSYCH 311.	
⁵ 200-300-level ANIM SCI Electives: Select two courses from: ANIM SCI 205, 260, 266, 267, 274, 285, 314, 345, 346, 360, or as approved by advisor.	
⁶ Students may substitute ANIM SCI 474 [CAPS] [M] in the spring.	
⁷ 400-level ANIM SCI Electives: Select three courses from ANIM SCI 408 [M], 440 [M], 451 [M], 454, 460, 464 [M], 472 [M], 473 [M], 474 [M], 478 [M], 481, 485 [M], or 488 [M] not used to fulfill a major requirement, or as approved by advisor. Students are required to complete two [M] courses to meet University requirements.	
⁸ Elective courses should include sufficient credits and 300-400-level coursework to meet the University requirement of 120 credits and 40 credits of upper-division coursework.	

Chemical Engineering and Bioengineering

Bioengineering – Pre-Med – Biomedical Systems Option (128 Credits)

At least 50 of the total credits required for this degree must be in 300-400-level courses.

Revise requirements for BS in Bioengineering - Pre-Med - Biomedical Systems Option

Students who plan to pursue pre-med studies should consult their advisor for further information about appropriate courses.

Admission to the Major Criteria – Bioengineering Program

Incoming first-year students, transfer students, and students changing from a different major may be admitted to the Bioengineering degree program upon completion of MATH 171 with a C or better or concurrent enrollment in CHEM 105 with a C or better or concurrent enrollment in MATH 171 with a C or better. To remain in the major the student must maintain a grade of C or better in all courses and maintain ~~good academic standing (i.e., a 2.0 or higher GPA each semester)~~ an overall cumulative GPA of 2.0 at WSU) a cumulative GPA of at least 2.5 and a semester GPA of at least 2.5

Students who are deficient under the University’s Academic Regulations 38 and 39 or whose GPA in Bioengineering courses falls below 2.0 are subject to loss of eligibility of the major. The Bioengineering undergraduate studies committee will determine the eligibility for readmission and probation conditions for students who are deficient and apply for re-entry into the major.

Graduation Requirements

No Washington State University courses listed in this schedule of study may be taken on a pass/fail basis, with the exception of BIO ENG 140, 488, 495, 499, and ENGR 489, all listed BIO ENG courses, required for the major, and the prerequisites to these courses must be completed with a grade of C or better.

First Year	
<i>First Term</i>	<i>Credits</i>
BIO ENG 140	1
CHEM 105 [PSCI]	4
ENGR 120 ¹	2
HISTORY 105 [ROOT] or 305 [ROOT]	3
MATH 171 [QUAN]	4
<i>Second Term</i>	<i>Credits</i>
BIOLOGY 107 [BSCI]	4
CHEM 106 or 116	4
ENGLISH 101 [WRTG]	3
MATH 172 or 182	4
UCORE Inquiry ²	3
Second Year	
<i>First Term</i>	<i>Credits</i>
<u>BIO ENG 201</u>	<u>3</u>
CHE 201	3
CHEM 345	4
MATH 220 or 230	2 or 3
MATH 273 or 283	2
PHYSICS 201 and 211, or 205	4 or 5
<i>Second Term</i>	<i>Credits</i>

BIO ENG 210	3
CHEM 348	4
MATH 315	3
MBIOS 303	4
PHYSICS 202 and 212, or 206	4 or 5
Complete Writing Portfolio	
Third Year	
<i>First Term</i>	<i>Credits</i>
<u>BIO ENG 305</u>	<u>3</u>
BIO ENG 310	3
BIO ENG 315	3
BIO ENG 325 [M]	2
BIOLOGY 106	4
C E 211	3
STAT 370 or 423	3
<i>Second Term</i>	<i>Credits</i>
BIO ENG 305	3
<u>BIO ENG 325 [M]</u>	<u>2</u>
BIO ENG 350	3
BIO ENG 360	3
E E 261	3
ENGLISH 402 [WRTG] or 403 [WRTG]	3
Fourth Year	
<i>First Term</i>	<i>Credits</i>
BIO ENG 410 [M]	3
BIO ENG 420	3
BIO ENG 430	3
ECONS 101 [SSCI] or 102 [SSCI] or 198	3
UCORE Inquiry ²	3
<i>Second Term</i>	<i>Credits</i>
BIO ENG 411 [CAPS]	3
BIO ENG 440	3
Bioengineering Electives ³	3
MBIOS 301, 305, 401, or 413	3 or 4
UCORE Inquiry ²	3
Complete BIO ENG Exit Interview	

Footnotes

¹3 credit 300-400 level engineering course may be substituted for ENGR 120 by approval of advisor.

²Must complete 3 of these 4 UCORE designations: ARTS, DIVR, EQJS, HUM.

³Bioengineering Electives (3 credits): Any 400-level BIO ENG course or ENGR 489 not used to fulfill major requirements. A maximum of 3 credits is allowed in ENGR 489 or BIO ENG 488, 495, and 499 combined.

Chemical Engineering and Bioengineering
Revise requirements for BS in Bioengineering - Pre-Med - Cellular and Molecular Option

Bioengineering – Pre-Med – Cellular and Molecular Option (128 Credits)

At least 50 of the total credits required for this degree must be in 300-400-level courses.

Students who plan to pursue pre-med studies should consult their advisor for further information about appropriate courses.

Admission to the Major Criteria – Bioengineering Program

Incoming first-year students, transfer students, and students changing from a different major may be admitted to the Bioengineering degree program upon completion of MATH 171 with a C or better or concurrent enrollment in CHEM 105 with a C or better or concurrent enrollment in MATH 171 with a C or better and CHEM 105 with a C or better or concurrent enrollment. To remain in the major the student must maintain a grade of C or better in all courses and maintain good academic standing (i.e., a 2.0 or higher GPA each semester and an overall cumulative GPA of 2.0 at WSU) a cumulative GPA of at least 2.5 and a semester GPA of at least 2.0

Students who are deficient under the University’s Academic Regulations 38 and 39 or whose GPA in Bioengineering courses falls below 2.0 are subject to loss of eligibility of the major. The Bioengineering undergraduate studies committee will determine the eligibility for readmission and probation conditions. Students who are deficient and apply for re-entry into the major.

Graduation Requirements

No Washington State University courses listed in this schedule of study may be taken on a pass/fail basis with the exception of BIO ENG 140, 488, 495, 499, and ENGR 489, all listed BIO ENG courses, required courses, and the prerequisites to these courses must be completed with a grade of C or better.

First Year	
<i>First Term</i>	<i>Credits</i>
BIO ENG 140	1
CHEM 105 [PSCI]	4
ENGR 120 ¹	2
HISTORY 105 [ROOT] or 305 [ROOT]	3
MATH 171 [QUAN]	4
<i>Second Term</i>	<i>Credits</i>
BIOLOGY 107 [BSCI]	4
CHEM 106 or 116	4
ENGLISH 101 [WRTG]	3
MATH 172 or 182	4
UCORE Inquiry ²	3
Second Year	
<i>First Term</i>	<i>Credits</i>

<u>BIO ENG 201</u>	<u>3</u>
CHE 201	3
CHEM 345	4
MATH 220 or 230	2 or 3
MATH 273 or 283	2
PHYSICS 201 and 211, or 205	4 or 5
<i>Second Term</i>	<i>Credits</i>
BIO ENG 210	3
CHEM 348	4
MATH 315	3
MBIOS 303	4
PHYSICS 202 and 212, or 206	4 or 5
Complete Writing Portfolio	
Third Year	
<i>First Term</i>	<i>Credits</i>
<u>BIO ENG 305</u>	<u>3</u>
BIO ENG 310	3
BIO ENG 315	3
BIO ENG 325 [M]	2
BIOLOGY 106	4
MBIOS 301, 305, 401, or 413	3 or 4
STAT 370 or 423	3
<i>Second Term</i>	<i>Credits</i>
BIO ENG 305	3
<u>BIO ENG 325 [M]</u>	<u>2</u>
BIO ENG 350	3
BIO ENG 360	3
ENGLISH 402 [WRTG] or 403 [WRTG]	3
Technical Elective ³	3
Fourth Year	
<i>First Term</i>	<i>Credits</i>
BIO ENG 410 [M]	3
BIO ENG 456	3
BIO ENG 475	3
<u>Cellular and Molecular Option Course⁴</u>	<u>3</u>
ECONS 101 [SSCI], 102 [SSCI], or 198	3

	<table border="1"> <tr> <td>UCORE Inquiry²</td> <td>3</td> </tr> <tr> <td><i>Second Term</i></td> <td><i>Credits</i></td> </tr> <tr> <td>BIO ENG 411 [CAPS]</td> <td>3</td> </tr> <tr> <td>BIO ENG 476</td> <td>3</td> </tr> <tr> <td>Bioengineering Electives^{4,5}</td> <td>6</td> </tr> <tr> <td>Cellular and Molecular Option Course⁴</td> <td><u>3</u></td> </tr> <tr> <td>UCORE Inquiry²</td> <td>3</td> </tr> </table>	UCORE Inquiry ²	3	<i>Second Term</i>	<i>Credits</i>	BIO ENG 411 [CAPS]	3	BIO ENG 476	3	Bioengineering Electives ^{4,5}	6	Cellular and Molecular Option Course ⁴	<u>3</u>	UCORE Inquiry ²	3
UCORE Inquiry ²	3														
<i>Second Term</i>	<i>Credits</i>														
BIO ENG 411 [CAPS]	3														
BIO ENG 476	3														
Bioengineering Electives ^{4,5}	6														
Cellular and Molecular Option Course ⁴	<u>3</u>														
UCORE Inquiry ²	3														
	<p>Footnotes</p> <p>¹ A 3 credit 300-400 level engineering course may be substituted for ENGR 120 by approval of advisor.</p> <p>² Must complete 3 of these 4 UCORE designations: ARTS, DIVR, EQJS, HUM.</p> <p>³ Technical Electives (3 credits): Approved courses include BIOLOGY 251, C E 211, CPT S 121, E E 214, 261, 262, ME 116, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500.</p> <p>⁴ Cellular and Molecular Option Course (6 Credits): Any two of BIO ENG 455, 456, or 476.</p> <p>^{4,5} Bioengineering Electives (6 credits): Any 400-level BIO ENG course or ENGR 489 not used to fulfill major requirements. A maximum of 3 credits is allowed in ENGR 489 and BIO ENG 488, 495, and 499 combined. Students may replace three credits with three credits of a 300-level course or an additional MBIOS 301, 305, 401, or 413 with advisor approval.</p>														
<p>Chemistry Add new undergraduate certificate on the Pullman Campus: Nuclear Science</p>	<p>Nuclear Science</p> <p>The certificate in Nuclear Science requires a minimum of 15 credits. Students are expected to have completed courses equivalent to one year of first-year chemistry for science majors through an institution of higher education before completing this certificate. The 12-credit core is: CHEM 161, CHEM 265, and CHEM 361. 3 credits of electives are selected from: CHEM 262, CHEM 365, ME 461, or ME 462. A grade of C or better must be earned in all classes that apply toward this certificate. All the courses required for this certificate have prerequisites. Please consult the catalog to ensure prerequisites have been met prior to registering for courses.</p>														
<p>{S} Data Analytics Revise requirements for undergraduate certificate: Foundations of Data Analytics</p>	<p>Foundations of Data Analytics</p> <p>The certificate in Foundations of Data Analytics showcases expertise in programming, data analysis, algebra, calculus, and statistics, empowering individuals to excel in data-driven roles. Completion of the Foundation of Data Analytics Certificate requires a total of <u>15-18</u> credits. Students are required to complete CPT S 121, DATA 115, <u>DATA 121</u> or MATH 171, <u>DATA 122</u> or CPT S 121, MATH/DATA 225, and 212 or equivalent. Students currently enrolled in the Data Analytics degree program are not eligible for the Foundations of Data Analytics certificate.</p> <p>This certificate, combined with the Intermediate Data Analytics Certificate, the Advanced Data Analytics Certificate, an internship course, and a capstone course, fulfills the major requirements of the Bachelor of Science in Data Analytics. A degree requires additional University requirements. Please consult the Data Analytics section of the Washington State University Catalog for a complete list of degree requirements.</p>														
<p>{S} Data Analytics Revise requirements for undergraduate certificate: Foundations of Data Science</p>	<p>Foundations of Data Science</p> <p>The certificate in Foundations of Data Science signifies proficiency in essential data analytics, programming, machine learning, and statistical methods, laying a strong groundwork for advanced data-driven projects. Admission to the standalone Foundations of Data Science Certificate requires <u>DATA 121</u>, MATH 171 or equivalent; and <u>DATA 122</u>, or CPT S 121, 131, or CS 121. Completion of the Certificate requires a minimum of 15 credits.</p>														

Foundations of Data Science of 15 credits. Students are required to complete DATA 115, 219, 301, 302, DATA 303 or MIS 372, MATH/DATA 225, and STAT/DATA 360.
Students currently enrolled in the Data Analytics degree program are not eligible for a Data Science

Molecular Biosciences
Add new undergraduate certificate on the Everett, Pullman, Tri Cities, and Vancouver Campuses:
Bioinformatics

Bioinformatics
The certificate in bioinformatics provides students with the expertise needed to analyze large-scale biological data and apply those insights to data-driven decision making. Students will complete a minimum of 15 credits of work including one course in each of four major areas, consisting of computer programming (BIO ENG 311, CPT S 111, DATA 301, or DATA 302), cell biology (BIO ENG 350, BIOLOGY 352, HORT 430, MATH/DATA 225, or NEUROSCI 403), genetics, genomics, or proteomics (BIOLOGY 335, BIOLOGY 408, BIO ENG 404) and computational biology (MBIOS 478, or CPT S 471). Students will also complete two of the following additional upper-division electives to enhance their understanding of systems biology, statistical genomics, molecular biology, genetics, bioengineering, or the application of these disciplines to real-world research problems (AFS 505, BIO ENG 455, BIO ENG 456, BIOLOGY 475, BIOLOGY 476, BIOLOGY 499, CPT S 415, CPT S 437, CPT S 440, CPT S 471, CROP SCI 495, CROP SCI 505, HORT 499, HORT 522, MATH/DATA 225, MBIOS 423, MBIOS498, NEURO SCI 495, or alternatives receiving committee approval). Students who use graduate courses for credit toward this certificate should consult the certificate program’s website, the committee, or director for instructions. Directed research credit (CROP SCI 495, BIOLOGY 499, HORT 499, MBIOS 498, NEUROSCI SCI 495, etc.) must be approved by the certificate program’s director, represent at least 2 credits of effort, and cannot be repeated to fulfill the requirements of the certificate. Approval of directed research credits should also include written confirmation of project support by a faculty sponsor. Completion of the certificate must be completed with a GPA of 2.5 or better.

Nutrition and Exercise Physiology
Revise requirements for BS in Nutrition and Exercise Physiology

Nutrition and Exercise Physiology (134133 Credits)
A student may be admitted to the nutrition and exercise physiology major upon completing the WSU general education courses (or equivalents), B.S. NEP prerequisites, a minimum GPA of 2.7 or better, and successful completion of the application to the program. Application is due ~~January 31~~ March 1 each year, to start courses in the Fall semester at WSU Spokane.
Completion of the B.S. in Nutrition and Exercise Physiology (NEP) requires a C or higher grade in all required courses required for the major and a minimum cumulative GPA of 2.5 in all required 300-400-level courses completed at WSU.

First Year	
<i>First Term</i>	<i>Credits</i>
BIOLOGY 106 [BSCI]	4
CHEM 101 [PSCI] or 105 [PSCI]	4
ENGLISH 101 [WRTG]	3
STAT 212 [QUAN]	4
UCORE Inquiry ¹	3
<i>Second Term</i>	<i>Credits</i>
BIOLOGY 107	4
CHEM 102 or 106	4
Communication [COMM] or Written Communication [WRTG]	3

HISTORY 105 [ROOT]	3
PSYCH 105 [SSCI]	3
Second Year	
<i>First Term</i>	<i>Credits</i>
BIOLOGY 333	3
CHEM 345	4
KINES 262 or BIOLOGY 315	4
PHYSICS 101 and 111 (if needed) ²	0 or 4
UCORE Inquiry ¹	3
<i>Second Term</i>	<i>Credits</i>
BIOLOGY 251 or 353	4
MBIOS 303	4
MBIOS 305	3
NEP 330 or MBIOS 303	3 or 4
PHYSICS 102 and 112 (if needed) ²	0 or 4
UCORE Inquiry ¹	3
Complete Writing Portfolio	
Third Year	
<i>First Term</i>	<i>Credits</i>
WSU Spokane	
NEP 320	3
NEP 340	3
NEP 362	3
NEP 400	3
NEP 463	4
<i>Second Term</i>	<i>Credits</i>
WSU Spokane	
NEP 370	3
NEP 402	3
NEP 427 [M]	4
NEP 435	3
NEP 476	3
Fourth Year	
<i>First Term</i>	<i>Credits</i>
WSU Spokane	
NEP 458	3

NEP 477	3
NEP 478	3
NEP 479	3
NEP 489	2
Second Term	Credits
WSU Spokane	
NEP 450	3
NEP 480	4
NEP 481	3
NEP 482	3
NEP 495 [CAPS] [M]	3
Third Term	Credits
NEP 490	9

Footnotes

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

²Both PHYSICS 101/111 and PHYSICS 102/112 are required for pre-health professional majors (e.g., pre-med). These courses are not required for admission into NEP, but should be taken by those students wishing to follow the pre-health professions tracks.

Public Health
Revise requirements for minor in Public Health

Public Health

Students may apply for the minor in Public Health once they have been admitted to a major, completed ~~18~~ 18 credits, and have a ~~2.5~~ 2.0 GPA. The minor in Public Health requires ~~24~~ 18 credits, including a minimum of 4 credits of 300-400-level coursework earned in WSU courses or through WSU-approved education abroad or educational exchange courses.

Courses taken to satisfy the minor must include PUBHLTH 101, 110, 301, 330, and 410; as well as 4 additional credits of PUBHLTH courses. Courses may not be used to fulfill more than one requirement for the minor. Additional courses may be substituted for these requirements with the permission of the program director.

Sociology
Add new minor on the Pullman and Global campuses: Sport and Society

Sport and Society

The minor in Sport and Society coaches students to critically examine the social, ecological, and historical dimensions of sport as a social institution. Interdisciplinary coursework explores sport's role in civic engagement, social potential as a platform for social change and development, and as a catalyst for social engagement. Students will learn about its intersections with structural inequalities related to place, race, ethnicity, social class, gender, sexuality, and (dis)ability. The minor contributes to understanding human behavior, past and present, and the dynamics, and the broader cultural significance of sport worldwide.

Students will gain the tools needed to understand sport's influence on identity, community, and how to use sport as a platform for positive social change. The minor prepares them for careers in education, health care, and other fields.

marketing and business, non-profit organizations, sport management, and advocacy. This minor is for those interested in how sport shapes, and is shaped by, society.

Students may be admitted to the minor in Sport and Society after admission into a major. The minor requires a minimum of 18 credits, at least 9 of which must be upper-division work earned in WSU courses or through WSU-approved education abroad or educational exchange programs. The 18 credits include 6 credits in Sport and Society Core Courses (SPMGT 365, SPMGT 367, and SPMGT 379), and 12 credits of Sport and Society Electives selected from the following: CES 300, CES 301, CES 302, CES 303, CES 304, CES 305, CES 306, CES 307, CES 308, CES 309, CES 310, CES 311, CES 312, CES 313, CES 314, CES 315, CES 316, CES 317, CES 318, CES 319, CES 320, CES 321, CES 322, CES 323, CES 324, CES 325, ECONS 321, HISTORY 224, HISTORY 384, KINES 201, KINES 313, SOC 103, SOC 340, SPMGT 290, SPMGT 365, SPMGT 379. Students must maintain a 2.0 average.