--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. The text under the heading titled *Proposed* will show strikethroughs for deletions, and underlines for additions, as needed. Note: Items marked {S} have been streamlined and do not require Catalog Subcommittee review.

Dept	Proposed	Effective Date
Economic Sciences Revise requirements for minor in Environmental and Resource Economics and Management	**Environmental and Resource Economics and Management** The minor in Environmental and Resource Economics and Management requires ~~16~~ a minimum of 18 ~~hours~~ credits. The following courses are required: ECONS 101, 301 or 305, 326, and 330~~, 430 or 433, and 431~~; one of ECONS 430, 431, or 433 ~~301, 305, or 326~~; and ~~4~~3 elective credits in ECONS. 9 hours of upper-division work must be taken in residence at WSU or through WSU-approved education abroad or educational exchange courses. A student wishing to declare a minor should consult with an advisor as early as possible to develop the required program.	**8-19**
Educational Leadership, Sport Studies, and Educational/Counseling Psychology Revise graduation requirements for Bachelor of Science in Kinesiology - Sport Science	**Sport Science (120 Hours)** **First Year** *First Term* — *Hours* ENGLISH 101 [WRTG] — 3 Humanities [HUM] — 3 KINES 138 — 1 KINES 199 — 3 PSYCH 105 [SSCI] — 3 Cognate[1] — 3 *Second Term* — *Hours* BIOLOGY 140 [BSCI] — 3 HISTORY 105 [ROOT] — 3 KINES 201 — 3 KINES 262 — 4 STAT 212 [QUAN] or PSYCH 311 [QUAN] — 4 **Second Year**	**8-19**

First Term	*Hours*
BIOLOGY 102, 106, or 107	4
KINES 264	3
KINES 266	3
SOC 245	3
Cognate[1]	3

Second Term	*Hours*
Arts [ARTS]	3
CHEM 101 [PSCI] or 105 [PSCI]	4
Communication [COMM]	3
~~Creative & Professional Arts [ARTS]~~	3
Cognate[1]	6
Complete Writing Portfolio	

Third Year

First Term	*Hours*
BIOLOGY 251	4
KINES 311	3
KINES 361	3
KINES 362	3

Second Term	*Hours*
Diversity [DIVR]	3
KINES 312 [M]	3
KINES 380	3
KINES 390	1
Electives	6

Fourth Year

First Term	*Hours*
KINES 313	3
KINES 461 [M]	3
KINES 484 [CAPS]	3
Cognate[1]	5 - 7

Second Term	*Hours*
KINES 485 [2]	12 or 10

Footnotes

[1] Cognate (17 - 19 credits): Choose from ANTH 205, 405, ATH T 263, 267, BIOLOGY 107 (if not used to fulfill major requirement) 220, 315 (if not used to fulfill major requirement) 490, CES 222, 308,

	CHEM 102, 106, <u>345, COM 225, 478,</u> H D 101, 220, 306, 307, 308, 405, KINES 305, <u>411, 412, 413, 414,</u> 490, 499, <u>MATH 106, 108, 140, 171,</u> MBIOS 101, 301, 303, 305, PHIL 365, ~~PSYCH 230, 333, 361, 470,~~ PHYSICS 101, 102, <u>PSYCH 230, 265, 320, 321, 324, 333, 350, 361, 363, 470,</u> SOC 101, 250, 334, 356, SPMGT 101 (if not <u>used to fulfill major requirement)</u> or as approved by advisor. Must include sufficient 300-400-level courses to meet the University requirement of 40 upper-division credits. [2] Minimum 10 credits required.	
Neuroscience Revise certification and graduation requirements for the Bachelor of Science in Neuroscience - General Option	**Neuroscience - General Option (120 Hours)** Students may certify in general neuroscience (including Pre-Medical/Pre-Dental and Pre-Veterinary options) after completing a minimum of 24 semester hours with a 3.0 minimum GPA overall, and a 3.0 minimum GPA in ~~BIOLOGY 106,~~ BIOLOGY 107, CHEM 105, CHEM 106 or 116, MATH 140 or 171, <u>NEUROSCI 301, NEUROSCI 302,</u> PHYSICS 101 or 201 or 205, and PHYSICS 102 or 202 or 206 or CHEM 345. **First Year** *First Term* *Hours* CHEM 105 [PSCI] 4 ENGLISH 101 [WRTG] 3 MATH 140 [QUAN] or 171 [QUAN] 4 ~~NEUROSCI 138~~ ~~1~~ PSYCH 105 [SSCI] 3 *Second Term* *Hours* BIOLOGY 107 [BSCI] 4 CHEM 106 4 ~~Creative & Professional Arts [ARTS]~~ ~~3~~ HISTORY 105 [ROOT] 3 <u>NEUROSCI 201 [COMM]</u> <u>3</u> **Second Year** *First Term* *Hours* BIOLOGY 106 4 CHEM 345 4 ~~Communication [COMM] or Written Communication [WRTG]~~ ~~3~~ <u>NEUROSCI 301[1]</u> <u>3</u> PHYSICS 101 or 201 4 *Second Term* *Hours* <u>Creative & Professional Arts [ARTS]</u> <u>3</u>	**8-19**

	Diversity [DIVR] — 3 ~~NEUROSCI 301~~ — ~~3~~ <u>NEUROSCI 302</u> — <u>3</u> PHYSICS 102 or 202 — 4 Neuroscience Electives[1,2] — ~~5~~ <u>4</u> Complete Writing Portfolio	

Third Year

First Term	Hours
Behavior Course[2,3]	3 or 4
<u>BIOLOGY/MBIOS 301</u>	<u>4</u>
~~MBIOS 303~~	~~4~~
Statistics Course[3,4]	3 or 4
Neuroscience Electives[1,2]	~~4~~<u>5</u>

Second Term	Hours
Humanities [HUM]	3
NEUROSCI 404	4
Electives[4,5]	~~10~~<u>8</u>

Fourth Year

First Term	Hours
NEUROSCI 430 [M]	4
Electives[4,5]	11

Second Term	Hours
NEUROSCI 403 [M]	3
NEUROSCI 490 [CAPS]	3
Electives[4,5]	9

Footnotes

[1] PSYCH 372 may be taken in place of NEUROSCI 301 with department permission

[1,2] Neuroscience Electives (9 credits): Approved courses include BIOLOGY 301, 315, 321, 340, 352, 353, 354, 438, 456; MATH 340; MBIOS ~~301,~~ <u>303,</u> 304, 305, 401, 404, 413; NEUROSCI 305, 409, 425, 426; PHYSICS 466; PSYCH 265, 312, 333, 350, 361, 372, 384, 464, 470, 490, 491; VET PH 308. Other courses may be allowed by department consent. <u>Courses may not be used to fulfill more than one requirement.</u> Please see your advisor.

[2,3] Choose one course from: NEUROSCI 305, 333, or 409.

[3,4] Choose one course from: PSYCH 311, STAT 212, 360, 370, or 412.

[4,5] Elective choices should include 300-400 level coursework to meet the University minimum requirement of 40 upper division credits.

| **Neuroscience**
Revise certification and graduation requirements for the Bachelor of Science in Neuroscience - | **Neuroscience - Pre-Medical and Pre-Dental Option (120 Hours)** | **8-19** |

Pre-Medical and Pre-Dental Option	Students may certify in general neuroscience (including Pre-Medical/Pre-Dental and Pre-Veterinary options) after completing a minimum of 24 semester hours with a 3.0 minimum GPA overall, and a 3.0 minimum GPA in ~~BIOLOGY 106,~~ BIOLOGY 107, CHEM 105, CHEM 106 or 116, MATH 140 or 171, <u>NEUROSCI 301, NEUROSCI 302,</u> PHYSICS 101 or 201 or 205, and PHYSICS 102 or 202 or 206 or CHEM 345.	

Students are encouraged to take the MCAT after completion of the third year.

First Year

First Term	*Hours*
CHEM 105 [PSCI]	4
ENGLISH 101 [WRTG]	3
MATH 140 [QUAN] or 171 [QUAN]	4
~~NEUROSCI 138~~	~~1~~
PSYCH 105 [SSCI]	3

Second Term	*Hours*
BIOLOGY 107 [BSCI]	4
CHEM 106	4
~~Creative & Professional Arts [ARTS]~~	~~3~~
HISTORY 105 [ROOT]	3
<u>NEUROSCI 201 [COMM]</u>	<u>3</u>

Second Year

First Term	*Hours*
BIOLOGY 106	4
CHEM 345	4
~~Communication [COMM] or Written Communication [WRTG]~~	~~3~~
<u>NEUROSCI 301[1]</u>	<u>3</u>
PHYSICS 101 or 201	4

Second Term	*Hours*
CHEM 348	4
<u>Creative & Professional Arts [ARTS]</u>	<u>3</u>
Diversity [DIVR]	3
~~NEUROSCI 301~~	~~3~~
<u>NEUROSCI 302</u>	<u>3</u>
PHYSICS 102 or 202	4
Complete Writing Portfolio	

Third Year

First Term	Hours
Behavior Course[12]	3 or 4
MBIOS 303	4
Statistics Course[23]	3 or 4
Neuroscience Electives[34]	5

Second Term	Hours
BIOLOGY/MBIOS 301	4
Humanities [HUM]	3
NEUROSCI 404	4
Electives[45]	~~6~~4

Fourth Year

First Term	Hours
NEUROSCI 430 [M]	4
Electives[45]	11

Second Term	Hours
NEUROSCI 403 [M]	3
NEUROSCI 490 [CAPS]	3
Electives[45]	9

Footnotes

[1] PSYCH 372 may be taken in place of NEUROSCI 301 with department permission

[~~1~~2] Choose one course from: NEUROSCI 305, 333, or 409.

[~~2~~3] Choose one course from: PSYCH 311, STAT 212, 360, 370, or 412.

[~~3~~4] Neuroscience Electives (5 credits): Approved courses include BIOLOGY 301, 315, 321, 340, 352, 353, 354, 438, 456; MATH 340; MBIOS ~~301,~~ 304, 305, 401, 404, 413; NEUROSCI 305, 409, 425, 426; PHYSICS 466; PSYCH 265, 312, 333, 350, 361, 372, 384, 464, 470, 490, 491; VET PH 308. Courses may not be used to fulfill more than one requirement. Other courses may be allowed by department consent. Please see your advisor.

[~~4~~5] ~~Elective choices should include 300-400 level coursework to meet the University minimum requirement of 40 upper division credits.~~ Consult your advisor regarding elective courses that may be required or recommended for admission into your future health-professions program.

| Neuroscience Revise certification and graduation requirements for the Bachelor of Science in Neuroscience - Honors Accelerated Pre-Veterinary Option | **Neuroscience – Honors Accelerated Pre-Veterinary Option (120 Hours)**

This option has been established for admission of highly academically qualified students to the Doctor of Veterinary Medicine (D.V.M.) program at the Washington State University College of Veterinary Medicine (CVM). The program of study consists of three years of undergraduate coursework that fulfills the pre-veterinary neuroscience requirements followed by the four-year D.V.M. program. Satisfactory completion of this 7-year curriculum leads to the Bachelor of Science (B.S.) in Neuroscience and Doctor of Veterinary Medicine (D.V.M.). | **8-19** |

All students who qualify for admission to the WSU Honors College are eligible to apply for pre-admission to the College of Veterinary Medicine after completion of one year in the pre-veterinary neuroscience curriculum. Interested applicants should identify themselves to the Honors College as soon as they decide to enroll at the University because the number of available seats in the B.S./D.V.M. program is limited. Early admission to the D.V.M. program requires approval of the CVM Admissions Committee. Accepted students are pre-admitted directly to the D.V.M. program. To maintain pre-admission into the D.V.M. program, accepted students must achieve an overall grade point average of 3.50 or better in all undergraduate coursework.

Students may certify in neuroscience – accelerated pre-veterinary option after completing a minimum of 24 semester hours with a 3.0 minimum GPA overall, and a 3.0 minimum GPA in each of the following courses: ~~BIOLOGY 106;~~ BIOLOGY 107; CHEM 105; CHEM 106 or 116; MATH 140 or 171; NEUROSCI 301, NEUROSCI 302; PHYSICS 101, 201 or 205; and PHYSICS 102, 202, 206, or CHEM 345. Completion of the degree requires completion of the HONORS Curriculum; a minimum of 90 undergraduate credits, including 30 upper-division credits; and one year of DVM coursework.

First Year

First Term	*Hours*
BIOLOGY 107	4
CHEM 105	4
MATH 140 or 171	4
~~NEUROSCI 138~~	~~1~~
Foreign Language (if needed)[1]	0-4

Second Term	*Hours*
CHEM 106 or 116[2]	4
ENGLISH 298	3
HONORS 270[3]	3
PHYSICS 101	4
Foreign Language (if needed)[1]	0-4

Second Year

First Term	*Hours*
BIOLOGY 106	4
HONORS 280	3
HONORS 290[2]	3
NEUROSCI 301[4]	3
PSYCH 105[3]	3

	Hours
~~Electives~~	~~2~~

Second Term	*Hours*
CHEM 345	4
~~HONORS 290[2]~~	~~3~~
<u>NEUROSCI 302</u>	<u>3</u>
PHYSICS 102	4
Behavior Requirement[45]	3 or 4
Complete Writing Portfolio	

Third Year

First Term	*Hours*
BIOLOGY/MBIOS 301	4
HONORS 370	3
HONORS 398[56]	0 or 1
MBIOS 303	4
NEUROSCI 430 [M]	4
NEUROSCI 450[67]	2

Second Term	*Hours*
HONORS 380	3
HONORS 390	3
HONORS 450[67]	1
NEUROSCI 403 [M]	3
NEUROSCI 490 [CAPS]	3
Statistics Course[78]	4

Fourth Year

First Term	*Hours*
VET MED 511	5
Additional D.V.M. Coursework[89]	10

Second Term	*Hours*
VET MED 520	5
VET MED 521[910]	3
Additional D.V.M. Coursework[89]	7

Footnotes

[1] Students must meet the Honors College Foreign Language requirement.

[2] Students who complete CHEM 116 fulfill the Honors College HONORS 290 requirement and another 3-credit course can be substituted.

[3] If HONORS 270 is taught by a member of the Psychology faculty, students may waive PSYCH 105. If PSYCH 105 is waived, students may need to take additional coursework to meet the 90-credit undergraduate minimum.

[4] <u>PSYCH 372 may be taken in place of NEUROSCI 301 with department permission</u>

	⁴⁵ Behavior Requirement: Choose one course from NEUROSCI 305, 333, or 409. ~~5~~6 HONORS 398 is an optional thesis-preparation course. ~~6~~7 NEUROSCI 450 is applied to the 3 credit HONORS 450 requirement. ~~7~~8 Statistics Course: Choose one course from PSYCH 311, STAT 212, 360, 370, or 412. ~~8~~9 Additional D.V.M. courses required in the first year of the D.V.M. program to satisfy the Neuroscience elective requirement for the B.S. in Neuroscience. ~~9~~10 VET MED 521 satisfies the Neuroanatomy (NEUROSCI 404) requirement for the B.S. in Neuroscience.	
Languages, Cultures, and Race Revise graduation requirements for Bachelor of Arts in Foreign Languages and Cultures - French	**French (120 Hours)** **First Year** *First Term* — *Hours* ~~CHINESE, GERMAN, SPANISH 110, 111, 120, 121, 130, or 131~~ — ~~3~~ FOR LANG 101 [DIVR], 110 [DIVR], 120 [DIVR], ~~130,~~ or 220 [DIVR] — 3 FRENCH 101, 102, 203 or Elective¹ — 4 FRENCH 105 or Elective — 1 HISTORY 105 [ROOT] — 3 SLCR Culture Course² — 3 *Second Term* — *Hours* ~~CHINESE, GERMAN, SPANISH 110, 111, 120, 121, 130, or 131~~ — ~~3~~ ENGLISH 101 [WRTG] — 3 FRENCH 102, 203 or Elective¹ — 4 FRENCH 105 or Elective — 1 Quantitative Reasoning [QUAN] — 3 SLCR Culture Course² — 3 **Second Year** *First Term* — *Hours* Biological Sciences [BSCI] with lab or SCIENCE 101 [SCI]²³ — 4 FRENCH 203 or Elective¹ — 4 FRENCH 205 or Elective — 1 Social Sciences [SSCI] — 3 Electives³⁴ — 3 *Second Term* — *Hours* ~~Communication [COMM] or Written Communication [WRTG]~~ — ~~3~~ FRENCH 110 [HUM] or 120 [HUM] — 3 FRENCH 204 — 4 FRENCH 205 or Elective — 1	**8-19**

	Hours
Physical Sciences [PSCI] with lab or SCIENCE 102 [SCI][23]	4
Electives[4]	3
Complete Writing Portfolio	

Third Year

First Term	*Hours*
Diversity [DIVR]	3
FRENCH 305 or Elective	1
FRENCH 306, 307 or 308 [M]	3
FRENCH 310, 320, 350, or 361 [COMM]	3
Humanities [HUM]	3
Electives or FOR LANG 440 if teaching major[34]	39

Second Term	*Hours*
Creative & Professional Arts [ARTS]	3
FRENCH 305 or Elective	1
FRENCH 306, 307 or 308 [M]	3
FRENCH 310, 320 [HUM] ,350, or 361	3
Electives[34]	4

Fourth Year

First Term	*Hours*
FRENCH 306, 307, or 308 [M]	3
FRENCH 310, 320, 350, or 361	3
FRENCH 310 or 410 [CAPS] or 450 [M]	3
FRENCH 405 or Elective	1
300-400 level Electives[34]	9

Second Term	*Hours*
Creative & Professional Arts [ARTS], Humanities [HUM], or Social Sciences [SSCI]	3
FRENCH 410 [CAPS] or 350 or 450 [M]	3
FRENCH 405 or Elective	1
FRENCH 408 [M]	3
FRENCH 420 [CAPS]	3
Electives[34]	6
Exit Proficiency Exam	

Footnotes

[1] Student must meet proficiency requirement to enroll in FRENCH 204.

[2] SLCR Culture Course (6 credits): Choose from CHINESE 111, 120, 121, 131; GERMAN 110, 120; SPANISH 110, 111, 120, 121; JAPANESE 120, or 123.

[23] To meet University and College of Arts and Sciences requirements, students must take a [BSCI] course with lab and [PSCI] course with lab or SCIENCE 101 [SCI] and SCIENCE

	102 [SCI]. SCIENCE 101 [SCI] is offered Fall semester and is a prerequisite for SCIENCE 102 [SCI]. SCIENCE 102 [SCI] is offered Spring semester.	
	[34] Electives must be represented by an approved university minor in a second foreign language; 16 credits in a concentrated related field; or a second major in another field. Electives should include sufficient 300-400 level coursework to meet University requirement of 40 upper division credits.	

Physics & Astronomy
Revise graduation requirements for Bachelor of Science in Physics - Standard Option. (Standard Physics)

Physics - Standard Option (121 Hours)

8-19

First Year

First Term	*Hours*
CHEM 105 [PSCI]	4
ENGLISH 101 [WRTG]	3
MATH 171 [QUAN]	4
PHYSICS 188	1
Social Sciences [SSCI]	3

Second Term	*Hours*
CHEM 106 or 116	4
HISTORY 105 [ROOT]	3
MATH 172	4
PHYSICS 189	1
PHYSICS 201	4

Second Year

First Term	*Hours*
Biological Sciences [BSCI]	3
MATH 220	2
MATH 273	2
PHYSICS 202	4
PHYSICS 303	3
Foreign Language, if ~~necessary~~ needed[1]	0-4

Second Term	*Hours*
~~Creative & Professional~~ Arts [ARTS]	3
MATH 315	3
PHYSICS 304	3
PHYSICS 330	3
Foreign Language, if ~~necessary~~ needed[1]	0-4
Complete Writing Portfolio	

Third Year

First Term	*Hours*
CPT S ~~111,~~ 121, E E 221, or MATH 300	2-4

	Diversity [DIVR]	3
	Humanities [HUM]	3
	MATH Elective¹²	3
	PHYSICS 320	3
	PHYSICS 341	3
	Second Term ***Hours***	
	<u>COM 400 [COMM], ENGLISH 301 [WRTG], or</u> ENGLISH 402 [WRTG] [M]	3
	MATH Elective¹²	3
	PHYSICS 342	3
	<u>PHYSICS 410</u>	<u>3</u>
	~~PHYSICS 415 [M]~~	3
	PHYSICS 499	1
	Standard Option Elective²³	3
	Fourth Year	
	First Term ***Hours***	
	~~Creative & Professional~~ Arts [ARTS], Humanities [HUM], or Social Sciences [SSCI]	3
	~~PHYSICS 410~~	3
	PHYSICS 450	3
	PHYSICS 490 [M]	1
	Standard Option Electives²³	3̶6
	Technical Elective³⁴	3
	Second Term ***Hours***	
	Integrative Capstone [CAPS]	3
	<u>PHYSICS 415 [M]</u>	<u>3</u>
	Standard Option Electives²³	9̶6
	Technical Elective³⁴	4̶3

Footnotes

[1] MATH Electives (6 ~~hours~~<u>credits</u>): Choose from 300-400-level MATH courses not used to fulfill other requirements.

[2] Standard Option Electives (15 ~~hours~~<u>credits</u>): Choose from 300-400-level ASTRONOM and PHYSICS courses not used to fulfill other requirements.

[3] Technical Electives (7̶6 ~~hours~~<u>credits</u>, at least 4̶3 must be 300-400 level): Choose from ASTRONOM, CHEM, MATH, or PHYSICS courses not used to fulfill other requirements.

Teaching and Learning Revise requirements for middle level science add-	**Specific Subject Teacher Certificate (0 Hours)**	**8-19**

on endorsement for the Bachelor of Arts in Elementary Education	**ADD-ON ENDORSEMENTS** **Middle Level Science**: BIOLOGY <u>106,</u> 107, BIOLOGY/TCH LRN 430, CHEM 101, PHYSICS 150, <u>SCIENCE 101, 102; SOE 101,</u> ~~TCH LRN 304~~.	