UNDERGRADUATE AND PROFESSIONAL MAJOR CHANGE BULLETIN NO. 10 Spring 2020

--REQUIREMENTS--

Faculty Senate approved March 5, 2020

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.

Dept	Proposed	Effective Date
Agricultural and Food Systems Revise graduation requirements, correct a prefix, and revise language for Rule 53 for Bachelor of Science in Agricultural and Food Systems - Agricultural Education.	 Agricultural Education (129 125 Credits) Combining the best of both agriculture and teaching, the Agricultural Education major prepares students to educate the next generation of agricultural leaders and consumers. Highly sought after by employers, they teach high school and middle school agricultural science classes, as well as serve as FFA advisors, adult education instructors, community outreach coordinators, university extension agents, etc. This major requires students to complete the Agricultural and Food Systems (AFS) core courses and agricultural education required courses, as well as a series of teaching and learning courses to meet initial teacher certification requirements. Students also spend a semester student teaching in an agricultural education program in a Washington high school. A student may be admitted to an AFS major upon making their intention known to the department. First Year 	8-20
	First Term Credits	
	<u>AG ED 110</u> <u>2</u>	
	ANIM SCI 101 3	
	BIOLOGY 120 [BSCI] 4	
	CHEM 101 [PSCI] or 105 [PSCI] 4	
	ECONS 101 [SSCI] 3	
	ENGLISH 101 [WRTG] 3	
	<u>HISTORY 105 [ROOT]</u> <u>3</u>	
	HORT / CROP SCI 102 3	
	Second Term Credits	
	AGTM 201 3	
	<u>ANIM SCI 101</u> <u>3</u>	
	BIOLOGY 106 or 107 ¹ 4	

CHEM 102 or 106	4	
ENGLISH 201 [WRTG] , 301 [WRTG] or 302 [M]¹	3	
HISTORY 105 [ROOT]	3	
Humanities [HUM]	3	
STAT 212 [QUAN], MATH 140 [QUAN], 171 [QUAN], or 202 [QUAN]	3 or 4	
Complete West B Exam		
Second Year		
First Term	Credits	
300-400-level Ag Elective ²	3	
AFS 101	3	
<u>AFS 201</u>	<u>3</u>	
Arts [ARTS]	3	
BIOLOGY 120 [BSCI]	4	
CHEM 101 [PSCI]	<u>4</u>	
ECONS 101 [SSCI]	<u>3</u>	
TCH LRN 301	3	
Certify in College of Education		
Second Term	Credits	
AFS 201	3	
BIOLOGY 106 or 107	4	
<u>CHEM 102</u>	<u>4</u>	
Diversity [DIVR]	3	
Humanities [HUM]	3	
SOIL SCI 201	3	
STAT 212 [QUAN], MATH 140 [QUAN], 171 [QUAN], or 202 [QUAN]	<u>3 or 4</u>	
300-400-level Agricultural Elective ²	<u>3</u>	
Apply to College of Education		
Complete Writing Portfolio		
Third Term	Credits	
TCH LRN 317 (Available summer only)	2	
Third Year		
First Term	Credits	
AFS Core Systems Elective ³	<u>3</u>	
<u>AG ED 471</u>	2	
CROP SCI 360	3	
ECONS 350 ³⁴	3	

TCH LRN 465	3
TCH LRN 466	2
300-400-level Agricultural Elective ²	3
Second Term	Credits
AFS 401 [CAPS]	3
AGTM 402	3
ED PSYCH 468	3
<u>TCH LRN 464</u>	<u>3</u>
<u>TCH LRN 465</u>	<u>3</u>
<u>TCH LRN 466</u>	<u>2</u>
TCH LRN 467 [M]	3
TCH LRN 469	2
TCH LRN 470	3
300-400-level Agricultural Elective ²	<u>3</u>
Fourth Year	
First Term	Credits
300-400-level Ag Elective ²	3
AFS Core Systems Elective ⁴	3
AG ED 440 [M]	2
AG ED 450	3
AG ED 471	2
ED PSYCH 468	<u>3</u>
	<u>-</u> <u>3</u>
<u>TCH LRN 469</u>	2
TCH LRN 470	3
Second Term	Credits
AG ED 407 [CAPS]	8
TCH LRN 415	8
Footnotes ¹ One from ENGLISH 201, 301, 302 [M] or 402 is required for admissio	un to the Teacher Education
Program. Students who take ENGLISH 302 will need to take an additic course. <u>BIOLOGY 106 is recommended.</u>	
 ² The Agricultural upper division <u>300-400-level</u> Electives (minimum 9 certification in Agricultural Education. Any 300-400-level course with subjects: AGTM, AFS, ANIM SCI, CROP SCI, ECONS, ENTOM, ENARCH, NATRS, PL P, SOE, SOIL SCI, or VIT ENOL not used to sati accepted to fulfill this requirement, per advisor approval. AG ED 430 a CASE Certification. 	one of the following CAHNRS UVR SCI, FS, HORT, IPM, LND sfy major requirements can be
⁴³ AFS Core Systems Electives: AGTM <u>305</u> , 310, ANIM SCI 464 [M], 4 ⁷ [M], CROP SCI 302, ECONS 351, HORT 320, NATRS <u>SOE</u> 300, SOI courses approved by your advisor.	72 [M], 474 [M], BIOLOGY 372 IL SCI 368, or other systems
³⁴ ECONS <u>351 and</u> 352, which is <u>are only offered in the spring</u> , may be u 350.	sed as an alternative for ECONS

Biological Sciences	Biology - Basic Medical Sciences Plan A (120) Credits)	8-2
Revise graduation requirements and	At least 40 of the 120 hours for the degree must be at	the 300-400-level.	
Rule 53 language	Candidates for the Bachelor of Science in Biology m	ust fulfill the University and	
or Bachelor of	the College of Arts and Sciences requirements for gra		
Science in	WSU general catalog. Admission to the major requir	es completion of 24	
Biology - Basic Medical Sciences	semester credits and 2.0 GPA.		
Plan A.	Honors students complete honors requirements in	place of UCORE	
	requirements. The math and science components of t	-	
	fulfilled as part of the School requirements described		
	requirements include: 120 total credits, of which 40 t		
	credits; the writing portfolio; and two writing in the r [M] in the course listings). The College of Arts and S		
	of high school foreign language or at least two semes		
	language. Bachelor of Science degree options in Biol		
	minimum of 19 semester credits of core BIOLOGY	•••	
	107, 301, 370 [M] or 372 [M], and 395 or 403 or 405		
	semester credits of biological sciences coursework se		
	your biology advisor is required. The 21 semester cre	edits must include 15 upper	
	division credits, six of which must be BIOLOGY cou		
	WSU, one additional BIOLOGY writing in the major		
	in the course listings), and one BIOLOGY Capstone		
	[CAPS] in the course listings. An overall GPA of at l		
	in all College and School requirements. A maximum that are graded S, F may be used toward fulfilling Sc		
	program options, and no other courses taken S or P c		
	fulfilling School requirements or program options. S		
	exit survey. Students may not double major or take a		
	of Biology, Zoology, or General Studies Biological S	-	
	First Year		
	First Term	Credits	
	Arts [ARTS]	3	
	BIOLOGY 106 [BSCI]	4	
	CHEM 105 [PSCI] ⁴	4	
	ENGLISH 101 [WRTG]	3	
	Second Term	Credits	
	BIOLOGY 107	4	
	CHEM 106	4	
	HISTORY 105 [ROOT]	3	
	MATH 140 [QUAN] or 171 [QUAN] ²¹	4	
	Second Year		

First Term	Cr	redits
BIOLOGY 301		<u>4</u>
CHEM 345		4
Communication [COMM] or W	ritten Communication [WRTG]	3
MBIOS 301		4
Foreign Language, if necessary	<u>needed</u> , or Electives ³²	<u>34</u>
Second Term	Cr	redits
CHEM 348		3
Social Sciences [SSCI]		3
Foreign Language, if necessary	<u>needed</u> , and/or Electives ³²	9
Complete Writing Portfolio		
Third Year		
First Term	Cr	redits
Diversity [DIVR]		3
MBIOS 303 or CHEM 370	4	<u>or 3</u>
PHYSICS 101^{43}		4
Electives ³²	3	<u>or 4</u>
Second Term	Cr	edits
Arts [ARTS], Humanities [HU]	M], or Social Sciences [SSCI]	3
PHIL 365 [HUM]		3
PHYSICS $102^{\underline{3}}$		4
Electives ³²		6
Fourth Year		
First Term	Cr	redits
Degree Program Elective ⁵⁴		2-4
Degree Program Elective [M] ⁵⁴		3
300-400-level Electives		6
Electives ³²		<u>4</u> 5
Second Term	Cr	redits
BIOLOGY Capstone [CAPS]		<u>3</u>
Degree Program Elective [M] ⁵⁴		3
Integrative Capstone [CAPS]		3
300-400-level Electives		6
Electives ³²		4

⁴ CHEM 101 may be taken prior to CHEM 105.

 ³² Students are encouraged to pursue a minor in other areas of more in-depth science minor. ⁴³ An elective may be substituted for PHYSICS 101 and 102 if it is not required for entrance to a graduate or professional program. ⁵⁴ Degree Program Electives (8 credits required): Approved courses are BIOLOGY 315, 321 [M], 324, 350, 352, 353, 393 [M], <u>one from 395 or 403 or 405, 418 [M]; MBIOS 304, 305, 401, 413, 414, 423, 440, 442, 446; NEUROSCI 301, 403 [M], 404, and 430 [M].</u> 		²¹ MATH 106 may be taken the first semester as a prerequisite to other MATH courses and as a co- requisite to CHEM 105. MATH 108 may also be needed. In addition to either MATH 140 or 171, a	
* An elective may be substituted for PHYSICS 101 and 102 if it is not required for entrance to a graduate or professional program. ** Degree Pragram Electices (8 credits required): Approved courses are BIOLOCY 315, 321 [M], 324, 330, 352, 353, 393 [M], and 100 and 500 (410 (M]). Molection 305 or 400 or 400 (400, 410 (M]). Molection 305, 410 (M, 44, and 450 (M)). 8- Biological Sciences Biology - Basic Medical Sciences Plan B (120 Hours) At least 40 of the 120 eredits for the degree must be at the 300-400 level. 8- Revise graduation requirements and Rule 53 language to general catalog. Admission to the major requires completion of 24 senset recedits and 2.0 GPA. 8- Modical Sciences Honors students complete honors requirements in place of UCORE requirements. The math and science components of those requirements are fulfilled as part of the School requirements described bolow. Other University requirements include 15: 120 total credits. of which 40 must be 300-400-level credits; the writing portfolio; and two writing in the major courses (identified by IM] in the course listings). The College of Arts and Science requires two years of high school foreign language or at least two semesters of college-level foreign language. Bachelor of Science degree options in Biology and Zoology require a minimum of 19 semester credits of biological sciences coursework selected in consultation with your biology advision is required. The 21 semester credits or moust include 15 upper division credits, six of which must be BIOLOGY courses taken in residence at WSU, one additional BIOLOGY writing in the major course (identified by IM] in the course listings. An overall GPA of at least 2.0 must be maintained in all College and School requirements. A maximum of 4 credits of courseswork that are graded S.F. may be used		statistics course is highly recommended, and for some programs, required.	
are professional program. ** Depree Program Flexities (8 credits required): Approved courses are BIOLOGY 315, 321 [M], 324, 350, 352, 353, 393 [M], one from 325 or 400 are 405, 418 [M], IMBIOS 304, 305, 401, 413, 414, 423, 440, 442, 446, NEUROSCI 301, 403 [M], 404, and 430 [M]. Biological Sciences Plan B (120 Hours) At least 40 of the 120 credits for the degree must be at the 300 -400 level. Candidates for the Bachelor of Sciences requirements for graduation as described in the College of Arts and Sciences requirements for graduation as described in the WSU general catalog. Admission to the major requires completion of 24 semester credits and 2.0 GPA. Biology - Basic Honors students complete honors requirements in place of UCORE Honors students complete honors requirements are fulfilled as part of the School requirements described below. Other University requirements include: 120 total credits, of which 40 must be 300-400-level credits; the writing portfolio; and two writing in the major courses (identified by [M] in the course listings). The College of Arts and Sciences requires two years of high school foreign language or at least two semesters of college-level foreign language. Bachelor of Science degree options in Biology and Zoology require a minimum of 19 semester credits of biological sciences course (identified by [M] in the course listings, and one BIOLOGY courses (BIOLOGY 106, 107, 301, 370 [M] or 372 [M], and 395 or 403 or 405. An additional 21 semester credits of biological sciences taken S or P can be applied toward fulfilling School requirements, and sciences at the astimum of 40 credits, six of which must be BIOLOGY courses (identified by [M] in the course listings, and one BIOLOGY courses (identified by [M] in the course listings. An overall GPA of at least 2.0 must be maintained in all College and School requirements. S or P can be applied to			
350, 352, 353, 393 (M) one from 395 or 400 erd/05, 418 (M); MBIOS 304, 305, 401, 413, 414, 423, 440, 442, 446; NEUROSCI 301, 403 [M], 404, and 430 [M]. 8 Biological Sciences Revise graduation requirements and Rule 53 language for Bachelor of Science in Biology must fulfill the University and the College of Arts and Sciences requirements for graduation as described in the WSU general catalog. Admission to the major requires completion of 24 senset reredits and 2.0 GPA. 8 Medical Sciences Plan B. Honors students complete honors requirements for graduation as described in the WSU general catalog. Admission to the major requires completion of 24 senset reredits and 2.0 GPA. 8 Honors students complete honors requirements for graduation as described below. Other University requirements. The math and science components of those requirements are fulfilled as part of the School requirements described below. Other University requirements include: 120 total credits, of which 40 must be 300-400-level credits; the writing portfolio; and two writing in the major courses (identified by [M] in the course listings). The College of Arts and Sciences requires two years of high school foreign language or at least two senseters of college-tevel foreign language. Bachelor of Science degree options in Biology and Zoology require a minimum of 19 semester credits of core BIOLOGY courses (BIOLOGY 106, 107, 301, 370 [M] or 372 [M], and 395 or 403 or 405. An additional 21 semester credits of biological sciences coursework selected in consultation with your biology advisor is requirements. A maximum of 4 credits of coursework that are graded S. F may be used toward fulfilling School requirements or program options. Students must complete an exit survey. Students may not double major or take a minor in any combination of Biology. Zoology, or General S		or professional program.	
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Arts [ARTS] 3 BIOLOGY 106 [BSCI] 4 CHEM 105 [PSCI] ⁴ 4		First Year	
BIOLOGY 106 [BSCI] 4 CHEM 105 [PSCI] ⁴ 4		First Term Credits	
BIOLOGY 106 [BSCI] 4 CHEM 105 [PSCI] ⁴ 4		Arts [ARTS] 3	
CHEM 105 [PSCI] ⁴ 4			
HISTORY 105 [ROOT] 3			
		HISTORY 105 [ROOT] 3	

Second Term	Credits
BIOLOGY 107	4
CHEM 106	4
ENGLISH 101 [WRTG]	3
MATH 140 [QUAN] or 171 [QUAN] ²¹	4
Second Year	
First Term	Credits
BIOLOGY 301	<u>4</u>
Communication [COMM] or Written Communication [WRTG]	
CHEM 345	4
MBIOS 301	4
PHYSICS 101^{32}	4
Second Term	Credits
CHEM 348	3
MBIOS 305	3
MBIOS 306	2
PHYSICS 102^{32}	4
Social Sciences [SSCI]	3
Complete Writing Portfolio	
Third Year	
First Term	Credits
Degree Program Elective ⁴³	3 or 4
Diversity [DIVR]	3
MBIOS 303 or CHEM 370	4 <u>or 3</u>
Foreign Language, if necessary needed, and/or Electives ⁵⁴	6 <u>or 7</u>
Second Term	Credits
PHIL 365 [HUM], or Humanities [HUM]	3
Degree Program Elective ⁴³	6 - 8
Foreign Language, if necessary needed, and/or Electives ⁵⁴	6
Fourth Year	
First Term	Credits
Arts [ARTS], Humanities [HUM], or Social Sciences [SSCI]	3
Degree Program Elective ⁴³	3 or 4
Degree Program Elective $[M]^{4\underline{3}}$	2 - 4
Electives ⁵⁴	7
Second Term	Credits
BIOLOGY Capstone [CAPS]	<u>3</u>

	Degree Program Elective ⁴³	3 or 4	
	Degree Program Elective [M] ^{4<u>3</u>}	3 or 4	
	Integrative Capstone [CAPS]	3	
	Electives ⁵⁴	6	
	Footnotes		
	⁺ CHEM 101 may be taken prior to CHEM 105.		
	²¹ MATH 106 may be taken the first semester as a prerequisite to other MA' requisite to CHEM 105. MATH 108 may also be needed. In addition to ei statistics course is highly recommended, and for some programs, required	ither MATH 140 or 171, a	
	³² An elective may be substituted for PHYSICS 101 and 102 if it is not requ or professional program.	ired for entrance to a graduate	
	 ⁴³ Degree Program Electives: A combination of 39 science credits, with 21 courses, is required. 20 credits must be selected from the following list an one each BIOLOGY, MBIOS, and NEUROSCI: BIOLOGY 251, 315, 32 393 [M], <u>one from 395 or 403, or</u> 405, 418 [M]; MBIOS 304, 360 [M], 40 440, 442, 446; NEUROSCI 301, 403 [M], 404, and 430 [M]. <u>Coursework 400-level coursework to meet the University requirement of 40 upper diverses</u> ⁵⁴ Students are encouraged to pursue a minor. 	d must include a minimum of 1 [M], 324, 333, 350, 352, 353, 01, 402 [M], 413, 414, 423, must include sufficient 300-	
Biological Sciences	Ecology and Evolutionary Biology (120 Credits)		8-20
Revise graduation	Candidates for the Bachelor of Science in Biology must f	ulfill the University and	
requirements and	the College of Arts and Sciences requirements for graduar		
Rule 53 language	WSU general catalog. Admission to the major requires co		
for Bachelor of	semester credits and 2.0 GPA.		
Science in			
Biology - Ecology	Honors students complete honors requirements in place o	fUCORE	
and Evolutionary	requirements. The math and science components of those		
Biology Option.	fulfilled as part of the School requirements described belo	-	
	requirements include: 120 total credits, of which 40 must		
	credits; the writing portfolio; and two writing in the major		
	[M] in the course listings). The College of Arts and Scien	۰. ۲۰۰ (۲۰۰۰)	
	of high school foreign language or at least two semesters		
	language. Bachelor of Science degree options in Biology		
	minimum of 19 semester credits of core BIOLOGY cours	•••	
	107, 301, 370 [M] or 372 [M], and 395 or 403 or 405). An		
	semester credits of biological sciences coursework selected		
	your biology advisor is required. The 21 semester credits		
	division credits, six of which must be BIOLOGY courses	taken in residence at	
	WSU, one additional BIOLOGY writing in the major cou	rse (identified by [M]	
	in the course listings), and one BIOLOGY Capstone cour	se (identified by the	
	[CAPS] in the course listings. An overall GPA of at least	2.0 must be maintained	
	in all College and School requirements. A maximum of 4	credits of coursework	
	that are graded S, F may be used toward fulfilling School	*	
	program options, and no other courses taken S or P can be		
	fulfilling School requirements or program options. Studer	-	
	exit survey. Students may not double major or take a mine		
	of Biology, Zoology, or General Studies Biological Scien	ces.	

First Year	
First Term	Credits
Arts [ARTS]	3
BIOLOGY 106 [BSCI]	4
CHEM 105 [PSCI] ¹	4
HISTORY 105 [ROOT]	3
Second Term	Credits
BIOLOGY 107	4
CHEM 106	4
ENGLISH 101 [WRTG]	3
MATH 140 [QUAN] or 171 [QUAN] ¹	4
Second Year	
First Term	Credits
CHEM 345	4
Communication [COMM] or Written Communication [WRTG]	3
Humanities [HUM]	3
PHYSICS 101 or 201	4
Second Term	Credits
BIOLOGY <u>370 [M] or 372 [M]</u>	4
PHYSICS 102 or 202	4
Program Option Courses or Electives ^{2,3}	4
Social Sciences [SSCI]	3
Complete Writing Portfolio	
Third Year	
First Term	Credits
Arts [ARTS], Humanities [HUM], or Social Sciences [SSCI]	3
BIOLOGY 301	4
Program Option Courses or Electives ^{2,3}	7
Foreign Language, if needed, or Electives ⁴	3 or 4
Second Term	Credits
Diversity [DIVR]	3
Program Option Courses or Electives ^{2,3}	6 or 7
STAT 212, 412, or PSYCH 311	3 or 4
Foreign Language, if needed, or Electives ⁴	3 or 4
Fourth Year	
First Term	Credits
BIOLOGY Capstone [CAPS]	<u>3</u>

	Integrative Capstone [CAPS] 3	
	Program Option Courses or Electives ³ 11	
	Second Term Credits	
	BIOLOGY <u>395, 403, or 405</u> 3	
	Program Option Courses or Electives ^{2,3} 13 or	
	Complete School of Biological Sciences Exit Survey	
	Footnotes ¹ MATH 106 may be taken as a pre-/co-requisite to CHEM 105 and other MATH courses. MATH 108 may also be needed.	
	 ² Ecology and Evolution Option requirements include one course from the Physiology Emphasis area (BIOLOGY 350 or BIOLOGY 420); 12 total credits from the Ecology Emphasis (BIOLOGY 330, 410, 462, 469 [M], 483 [M] [CAPS]) and the Evolution/Organismal Emphasis (BIOLOGY 322 [M], 324, 332 [M], 335 [M], 408 [CAPS], 409, 412, 418, 423, 428, 432 [M], 438 [M]). At least one course must be from the Ecology Emphasis and one course from the Evolution/Organismal Emphasis. 	
	 ³ All biology majors must complete 21 semester credits of biological coursework including 15 upper- division credits, 6 of which must be a BIOLOGY prefix taken in residence at WSU. Approved courses include 200-400-level BIOLOGY courses except those used to fulfill core requirements (BIOLOGY 106. 107, 301, <u>370 [M] or 372 [M], one from 395, 403, or 405</u>), and any courses approved by advisor. A maximum of 4 credits of coursework graded S/F may be used toward fulfilling departmental requirements or program options and must be approved by advisor. Coursework must include a total of two BIOLOGY [M] courses and sufficient 300-400-level coursework to meet the University requirement of 40 upper division credits 	
	 ⁴ Two years of high school foreign language or at least two semesters of college-level foreign language are required by the College of Arts and Sciences for graduation. 	
Biological Sciences	Biology - Education Option (120 Credits)	8-20
Revise graduation	Can didates for the Dash alar of Science in Dialogrammet fulfill the University and	
0	Candidates for the Bachelor of Science in Biology must fulfill the University and	
requirements and	the College of Arts and Sciences requirements for graduation as described in the	
requirements and Rule 53 language	the College of Arts and Sciences requirements for graduation as described in the WSU general catalog. Admission to the major requires completion of 24	
requirements and Rule 53 language for Bachelor of	the College of Arts and Sciences requirements for graduation as described in the	
requirements and Rule 53 language for Bachelor of Science in	the College of Arts and Sciences requirements for graduation as described in the WSU general catalog. Admission to the major requires completion of 24 semester credits and 2.0 GPA.	
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requirements and Rule 53 language for Bachelor of Science in Biology -	the College of Arts and Sciences requirements for graduation as described in the WSU general catalog. Admission to the major requires completion of 24 semester credits and 2.0 GPA. Honors students complete honors requirements in place of UCORE requirements. The math and science components of those requirements are fulfilled as part of the School requirements described below. Other University	
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requirements and Rule 53 language for Bachelor of Science in Biology -	the College of Arts and Sciences requirements for graduation as described in the WSU general catalog. Admission to the major requires completion of 24 semester credits and 2.0 GPA. Honors students complete honors requirements in place of UCORE requirements. The math and science components of those requirements are fulfilled as part of the School requirements described below. Other University requirements include: 120 total credits, of which 40 must be 300-400-level credits; the writing portfolio; and two writing in the major courses (identified by [M] in the course listings). The College of Arts and Sciences requires two years of high school foreign language or at least two semesters of college-level foreign language. Bachelor of Science degree options in Biology and Zoology require a minimum of 19 semester credits of core BIOLOGY courses (BIOLOGY 106, 107, 301, 370 [M] or 372 [M], and 395 or 403 or 405). An additional 21 semester credits of biological sciences coursework selected in consultation with	
requirements and Rule 53 language for Bachelor of Science in Biology -	the College of Arts and Sciences requirements for graduation as described in the WSU general catalog. Admission to the major requires completion of 24 semester credits and 2.0 GPA. Honors students complete honors requirements in place of UCORE requirements. The math and science components of those requirements are fulfilled as part of the School requirements described below. Other University requirements include: 120 total credits, of which 40 must be 300-400-level credits; the writing portfolio; and two writing in the major courses (identified by [M] in the course listings). The College of Arts and Sciences requires two years of high school foreign language or at least two semesters of college-level foreign language. Bachelor of Science degree options in Biology and Zoology require a minimum of 19 semester credits of core BIOLOGY courses (BIOLOGY 106, 107, 301, 370 [M] or 372 [M], and 395 or 403 or 405). An additional 21 semester credits of biological sciences coursework selected in consultation with your biology advisor is required. The 21 semester credits must include 15 upper	
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requirements and Rule 53 language for Bachelor of Science in Biology -	the College of Arts and Sciences requirements for graduation as described in the WSU general catalog. Admission to the major requires completion of 24 semester credits and 2.0 GPA. Honors students complete honors requirements in place of UCORE requirements. The math and science components of those requirements are fulfilled as part of the School requirements described below. Other University requirements include: 120 total credits, of which 40 must be 300-400-level credits; the writing portfolio; and two writing in the major courses (identified by [M] in the course listings). The College of Arts and Sciences requires two years of high school foreign language or at least two semesters of college-level foreign language. Bachelor of Science degree options in Biology and Zoology require a minimum of 19 semester credits of core BIOLOGY courses (BIOLOGY 106, 107, 301, 370 [M] or 372 [M], and 395 or 403 or 405). An additional 21 semester credits of biological sciences coursework selected in consultation with your biology advisor is required. The 21 semester credits must include 15 upper division credits, six of which must be BIOLOGY courses taken in residence at WSU, one additional BIOLOGY writing in the major course (identified by [M]	
requirements and Rule 53 language for Bachelor of Science in Biology -	the College of Arts and Sciences requirements for graduation as described in the WSU general catalog. Admission to the major requires completion of 24 semester credits and 2.0 GPA. Honors students complete honors requirements in place of UCORE requirements. The math and science components of those requirements are fulfilled as part of the School requirements described below. Other University requirements include: 120 total credits, of which 40 must be 300-400-level credits; the writing portfolio; and two writing in the major courses (identified by [M] in the course listings). The College of Arts and Sciences requires two years of high school foreign language or at least two semesters of college-level foreign language. Bachelor of Science degree options in Biology and Zoology require a minimum of 19 semester credits of core BIOLOGY courses (BIOLOGY 106, 107, 301, 370 [M] or 372 [M], and 395 or 403 or 405). An additional 21 semester credits of biological sciences coursework selected in consultation with your biology advisor is required. The 21 semester credits must include 15 upper division credits, six of which must be BIOLOGY courses taken in residence at WSU, one additional BIOLOGY writing in the major course (identified by [M] in the course listings), and one BIOLOGY Capstone course (identified by [M]	
requirements and Rule 53 language for Bachelor of Science in Biology -	the College of Arts and Sciences requirements for graduation as described in the WSU general catalog. Admission to the major requires completion of 24 semester credits and 2.0 GPA. Honors students complete honors requirements in place of UCORE requirements. The math and science components of those requirements are fulfilled as part of the School requirements described below. Other University requirements include: 120 total credits, of which 40 must be 300-400-level credits; the writing portfolio; and two writing in the major courses (identified by [M] in the course listings). The College of Arts and Sciences requires two years of high school foreign language or at least two semesters of college-level foreign language. Bachelor of Science degree options in Biology and Zoology require a minimum of 19 semester credits of core BIOLOGY courses (BIOLOGY 106, 107, 301, 370 [M] or 372 [M], and 395 or 403 or 405). An additional 21 semester credits of biological sciences coursework selected in consultation with your biology advisor is required. The 21 semester credits must include 15 upper division credits, six of which must be BIOLOGY courses taken in residence at WSU, one additional BIOLOGY writing in the major course (identified by [M] in the course listings), and one BIOLOGY Capstone course (identified by the [CAPS] in the course listings. An overall GPA of at least 2.0 must be maintained	
requirements and Rule 53 language for Bachelor of Science in Biology -	the College of Arts and Sciences requirements for graduation as described in the WSU general catalog. Admission to the major requires completion of 24 semester credits and 2.0 GPA. Honors students complete honors requirements in place of UCORE requirements. The math and science components of those requirements are fulfilled as part of the School requirements described below. Other University requirements include: 120 total credits, of which 40 must be 300-400-level credits; the writing portfolio; and two writing in the major courses (identified by [M] in the course listings). The College of Arts and Sciences requires two years of high school foreign language or at least two semesters of college-level foreign language. Bachelor of Science degree options in Biology and Zoology require a minimum of 19 semester credits of core BIOLOGY courses (BIOLOGY 106, 107, 301, 370 [M] or 372 [M], and 395 or 403 or 405). An additional 21 semester credits of biological sciences coursework selected in consultation with your biology advisor is required. The 21 semester credits must include 15 upper division credits, six of which must be BIOLOGY courses taken in residence at WSU, one additional BIOLOGY writing in the major course (identified by [M] in the course listings), and one BIOLOGY Capstone course (identified by [M]	

program options, and no other courses taken S or P can be applied toward fulfilling School requirements or program options. Students must complete an exit survey. Students may not double major or take a minor in any combination of Biology, Zoology, or General Studies Biological Sciences.

Students completing this degree will earn a B.S. in Biology. In order to obtain teaching credentials in the State of Washington, students must complete additional requirements. Completion of the Master in Teaching (MIT) program at WSU will meet <u>state</u> certification requirements (for details, please see https://education.wsu.edu/graduate/mit/). A 3.0 is the minimum GPA for admission to the MIT program at WSU. Students obtaining Biology Education Option would also be competitive for other post-baccalaureate teacher certification programs.

First Year	
First Term	Credits
Arts [ARTS]	3
BIOLOGY 106 [BSCI]	4
CHEM 105 [PSCI] ¹	4
HISTORY 105 [ROOT]	3
Second Term	Credits
BIOLOGY 107	4
CHEM 106	4
ENGLISH 101 [WRTG]	3
ENGR 120	2
Humanities [HUM]	3
Second Year	
First Term	Credits
BIOLOGY 301	4
CHEM 345	4
Diversity [DIVR]	3
TCH LRN 301	3
Foreign Language, if needed ²	0 - 4
Second Term	Credits
CHEM 370 or MBIOS 303	3 or 4
Communication [COMM] or Written Communication [WRTG]	3
MATH 140 [QUAN] or 171 [QUAN] ¹	4
PSYCH 105 [SSCI]	3
Foreign Language, if needed, or Electives ²	3 or 4
Complete Writing Portfolio	
Third Year	
First Term	Credits
Arts [ARTS], Humanities [HUM], or Social Sciences [SSCI]	3

	BIOLOGY <u>370 [M] or </u> 372 [M]	4	
	PHYSICS 101 or 201	4	
	Program Electives ³	4	
	Second Term	Credits	
	PHYSICS 102 or 202	4	
	TCH LRN 465	3	
	Program Option Requirements ⁴	3 or 4	
	Program Electives ³	4	
	Fourth Year		
	First Term	Credits	
	BIOLOGY/TCH LRN 430	3	
	STAT 212, 412, or PSYCH 311	3 or 4	
	TCH LRN 467 [M]	3	
	TCH LRN 470	3	
	Program Electives ³	4	
	Second Term	Credits	
	BIOLOGY [CAPS] or HONORS 450 ⁵	3	
	BIOLOGY 395, 403, or 405	3	
	BIOLOGY/TCH LRN 431	3	
	Program Option Requirements ⁴	3 or 4	
	Program Electives or Electives ³	3	
	Complete School of Biological Sciences Exit Survey		
	Footnotes		
	¹ MATH 106 may be taken as a pre-/co-requisite to CHEM 105 and other MATH courses. may also be needed.		
	² The College of Arts and Sciences requires two years of high school foreign language or a college level foreign language. Two years of high school foreign language or at least two		
	college-level foreign language are required by the College of Arts and Sciences for gradu	uation.	
	³ Beyond the core requirements (BIOLOGY 106, 107, 301, <u>370 [M] or 372 [M], one from</u> 405, BIOLOGY [CAPS] or HONORS 450), all biology majors must complete 21 semest biological coursework including 15 upper-division credits, 6 of which must be a BIOLO in residence at WSU. Approved courses include 200-400-level BIOLOGY courses except fulfill core requirements, and any courses approved by advisor. A maximum of 4 credits graded S/F may be used toward fulfilling departmental requirements or program options approved by advisor.	ter credits of GY prefix taken ot those used to of coursework	
	 ⁴ Program Option requirements include one Biology Plant Elective (BIOLOGY 332[M], 4 or 420) and one Biology Animal Elective (BIOLOGY 322[M], 324, 423, 428, 432[M], or obtain an additional general science endorsement students need to pass a general science Chemistry, Physics, Biology, Earth and Space science). Students may consider taking on following courses to prepare them for general science endorsement exam: ASTRONOM GEOLOGY 102, 210. ⁵ Students in Honors College complete HONORS 450 in lieu of a BIOLOGY [CAPS] courses 	rr 438[M]). To exam (e.g., ue or more of the 135,	
Biological	Biology - Entomology Option (120 Credits)		8-20
Sciences			
Revise graduation	Candidates for the Bachelor of Science in Biology must fulfill the U		
requirements and Rule 53 language	the College of Arts and Sciences requirements for graduation as dese	cribed in the	
itare 55 lunguage	1		

for Bachelor of	WSU general catalog. Admission to the major requires completion of	of 24
Science in	semester credits and 2.0 GPA.	
Biology - Entomology	Honors students complete honors requirements in place of UCORE	
Option	requirements. The math and science components of those requirements	nts are
puon	fulfilled as part of the School requirements described below. Other	
	requirements include: 120 total credits, of which 40 must be 300-400	
	credits; the writing portfolio; and two writing in the major courses (i	
	[M] in the course listings). The College of Arts and Sciences require	s two years
	of high school foreign language or at least two semesters of college-	
	language. Bachelor of Science degree options in Biology and Zoolog	
	minimum of 19 semester credits of core BIOLOGY courses (BIOLO	
	<u>107, 301, 370 [M] or 372 [M], and 395 or 403 or 405). An additional</u> semester credits of biological sciences coursework selected in consu	
	your biology advisor is required. The 21 semester credits must inclu-	
	division credits, six of which must be BIOLOGY courses taken in re	
	WSU, one additional BIOLOGY writing in the major course (identif	
	in the course listings), and one BIOLOGY Capstone course (identified	
	[CAPS] in the course listings. An overall GPA of at least 2.0 must b	
	in all College and School requirements. A maximum of 4 credits of a	
	that are graded S, F may be used toward fulfilling School requirement	
	program options, and no other courses taken S or P can be applied to fulfilling School requirements or program options. Students must co	
	exit survey. Students may not double major or take a minor in any co	
	of Biology, Zoology, or General Studies Biological Sciences.	
	First Year	
	First Term	Credits
	BIOLOGY 106 [BSCI]	4
	CHEM 105 [PSCI] ¹	4
	Communication [COMM] or Written Communication [WRTG]	3
	HISTORY 105 [ROOT]	3
	Second Term	Credits
	BIOLOGY 107	4
	CHEM 106	4
	ENGLISH 101 [WRTG]	3
	MATH 140 [QUAN] or 171 [QUAN] ¹	4
	Second Year	
	First Term	Credits
	Arts [ARTS]	3
	CHEM 345	4
	ENTOM 343 [M]	3
	PHYSICS 101 or 201	4
	Second Term	Credits
	BIOLOGY 301	4
		Т

	Diversity [DIVR]	3	
	PHYSICS 102 or 202	4	
	Program Option Elective ²	3	
	Complete Writing Portfolio	5	
	compress mining removes		
	Third Year		
	First Term	Credits	
	BIOLOGY 322 [M], 350, or 418	4	
	BIOLOGY <u>370 [M] or</u> 372 [M]	4	
	Humanities [HUM]	3	
	Electives ³	5	
	Second Term	Credits	
	Arts [ARTS], Humanities [HUM], or Social Sciences [SSCI]	3	
	CHEM 370 or MBIOS 303	3 or 4	
	Social Sciences [SSCI]	3	
	STAT 212, 412, or PSYCH 311	3 or 4	
	Program Option Elective ²	3	
	Fourth Year		
	First Term	Credits	
	BIOLOGY 332 [M] or 420	3 or 4	
	Foreign Language, if needed, and/or Electives ^{3,4}	13	
	Second Term	Credits	
	BIOLOGY [CAPS] or HONORS 450 ⁵	3	
	BIOLOGY <u>395,</u> 403, or 405	3	
	Foreign Language, if needed, and/or Electives ^{3,4}	10	
	Complete School of Biological Sciences Exit Survey		
	Footnotes ¹ MATH 106 may be taken as a pre-/co-requisite to CHEM 105 and other MATH course may also be needed.	ses. MATH 108	
	² Entomology Program option electives include 6 credits of 300-400-level ENTOM con ENTOM 343.		
	 ³ Additional electives should be selected in consultation with a biology advisor. All bid complete 21 semester credits of biological coursework including 15 upper-division cr must be a BIOLOGY prefix taken in residence at WSU. Approved courses include 20 BIOLOGY and ENTOM courses except those used to fulfill core requirements (BIOI 301, <u>370 [M] or 372 [M]</u>, <u>one from 395</u>, 403, or 405, BIOLOGY [CAPS] or HONOR courses approved by advisor. A maximum of 4 credits of coursework graded S/F may fulfilling departmental requirements or program options and must be approved by advisor. ⁴ Two years of high school foreign language or at least two semesters of college-level for required by the College of Arts and Sciences for graduation. ⁵ Students in Honors College complete HONORS 450 in lieu of a BIOLOGY [CAPS] 	edits, 6 of which 00-400-level LOGY 106, 107, S 450), and any be used toward visor. Foreign language are	
Biological Sciences	Biology - General Option (120 Credits)		8-20
Revise graduation	Candidates for the Bachelor of Science in Biology must fulfill the	University and	

-			
Rule 53 language for Bachelor of Science in	WSU general catalog. Admission to the major requires completion of semester credits and 2.0 GPA.	<u>of 24</u>	
Biology - General	Honors students complete honors requirements in place of UCORE		
Option	requirements. The math and science components of those requirement	nts are	
option	fulfilled as part of the School requirements described below. Other		
	requirements include: 120 total credits, of which 40 must be 300-400	-	
	credits; the writing portfolio; and two writing in the major courses (i		
	[M] in the course listings). The College of Arts and Sciences require	s two years	
	of high school foreign language or at least two semesters of college-		
	language. Bachelor of Science degree options in Biology and Zoolog		
	minimum of 19 semester credits of core BIOLOGY courses (BIOLO		
	<u>107, 301, 370 [M] or 372 [M], and 395 or 403 or 405). An additiona</u>		
	semester credits of biological sciences coursework selected in consu your biology advisor is required. The 21 semester credits must inclu		
	division credits, six of which must be BIOLOGY courses taken in re-		
	WSU, one additional BIOLOGY writing in the major course (identified		
	in the course listings), and one BIOLOGY Capstone course (identifi		
	[CAPS] in the course listings). An overall GPA of at least 2.0 must b	<u>be</u>	
	maintained in all College and School requirements. A maximum of		
	coursework that are graded S, F may be used toward fulfilling School	_	
	requirements or program options, and no other courses taken S or P		
	applied toward fulfilling School requirements or program options. S complete an exit survey. Students may not double major or take a m		
	combination of Biology, Zoology, or General Studies Biological Sci	-	
	contentation of Biology, Boology, of Scholar States Biological Set		
	First Year		
	First Term	Credits	
	Arts [ARTS]	3	
	BIOLOGY 106 [BSCI]	4	
	CHEM 105 [PSCI] ¹	4	
	HISTORY 105 [ROOT]	3	
	Second Term	Credits	
	BIOLOGY 107	4	
	CHEM 106	4	
	ENGLISH 101 [WRTG]	3	
	MATH 140 [QUAN] or 171 [QUAN] ^{1}	4	
		-	
	Second Year		
	First Term	Credits	
	BIOLOGY 301	4	
	CHEM 345	4	
	Communication [COMM] or Written Communication [WRTG]	3	
	Humanities [HUM]	3	
		5	
		Crodits	
	<i>Second Term</i> BIOLOGY <u>370 [M] or 372 [M]</u>	Credits 4	

	CHEM 370 or MBIOS 303	3 or 4	
	PHYSICS 101 or 201	3 or 4 4	
	Social Sciences [SSCI]	4	
	Complete Writing Portfolio	3	
	Complete writing Portiono		
	Third Year		
	First Term	Credits	
	Diversity [DIVR]	3	
	PHYSICS 102 or 202	4	
	Foreign Language, if needed, or Electives ²	4	
	Program Option Courses or Electives ³	5 or 6	
	Second Term	Credits	
	Arts [ARTS], Humanities [HUM], or Social Sciences [SSCI]	3	
	BIOLOGY <u>395</u> , 403, or 405	3	
	Foreign Language, if needed, or Electives ²	3 or 4	
	Program Option Courses or Electives ³	6	
	Fourth Year		
	First Term	Credits	
	BIOLOGY 352 or MBIOS 401	3	
	Program Option Courses or Electives ³	13	
	Second Term	Credits	
	BIOLOGY [CAPS] or HONORS 450 ⁴	3	
	STAT 212, 412, or PSYCH 311	3 or 4	
	Program Option Courses or Electives ³	10	
	Complete School of Biological Sciences Exit Survey		
	Footnotes		
	¹ MATH 106 may be taken as a pre-/co-requisite to CHEM 105 and other MATH cours may also be needed.	ses. MATH 108	
	² Two years of high school foreign language or at least two semesters of college-level for required by the College of Arts and Sciences for graduation.	oreign language are	
	 ³ Biology General Program option courses should be selected in consultation with a bio include coursework to fulfill the University requirement of 40 upper division credits. I must complete 21 semester credits of biological coursework including 15 upper-division which must be a BIOLOGY subject (prefix) taken in residence at WSU. Approved co 400-level BIOLOGY courses except those used to fulfill core requirements (BIOLOG <u>370 [M] or 372 [M]</u>, one from 395, 403, or 405, BIOLOGY [CAPS] or HONORS 450 approved by advisor. A maximum of 4 credits of coursework graded S/F may be used departmental requirements or program options and must be approved by advisor. Courinclude a total of two BIOLOGY [M] courses. ⁴ Students in Honors College complete HONORS 450 in lieu of a BIOLOGY [CAPS] or MONORY [CAPS] or MON	All biology majors fon credits, 6 of urses include 200- Y 106. 107, 301,)), and any courses toward fulfilling rsework must	
Biological Sciences	Biology - Plant Biology Option (120 Credits)	1	8-20
Revise graduation requirements and Rule 53 language	Candidates for the Bachelor of Science in Biology must fulfill the the College of Arts and Sciences requirements for graduation as de		
for Bachelor of			

Science in	WSU general catalog. Admission to the major requires completion of	24
Biology - Plant	semester credits and 2.0 GPA.	
Biology Option	Henery students complete honory requirements in place of LICODE	
	<u>Honors students complete honors requirements in place of UCORE</u> requirements. The math and science components of those requiremen	te ara
	fulfilled as part of the School requirements described below. Other U	
	requirements include: 120 total credits, of which 40 must be 300-400	
	credits; the writing portfolio; and two writing in the major courses (id	
	[M] in the course listings). The College of Arts and Sciences requires	
	of high school foreign language or at least two semesters of college-le	
	language. Bachelor of Science degree options in Biology and Zoolog	-
	minimum of 19 semester credits of core BIOLOGY courses (BIOLO	GY 106,
	<u>107, 301, 370 [M] or 372 [M], and 395 or 403 or 405)</u> . An additional	
	semester credits of biological sciences coursework selected in consult	
	your biology advisor is required. The 21 semester credits must includ	
	division credits, six of which must be BIOLOGY courses taken in res	
	WSU, one additional BIOLOGY writing in the major course (identified in the gourse listings) and and BIOLOGY Constants gourse (identified in the gourse listings).	
	in the course listings), and one BIOLOGY Capstone course (identifie [CAPS] in the course listings. An overall GPA of at least 2.0 must be	
	in all College and School requirements. A maximum of 4 credits of c	
	that are graded S, F may be used toward fulfilling School requiremen	
	program options, and no other courses taken S or P can be applied to	
	fulfilling School requirements or program options. Students must con	
	exit survey. Students may not double major or take a minor in any co	mbination
	f Dislams 7 alsons of Community Dislams 1 Community	
	of Biology, Zoology, or General Studies Biological Sciences.	
	of Biology, Zoology, or General Studies Biological Sciences.	
	First Year	
		Credits
	First Year	Credits 3
	First Year <i>First Term</i>	
	First Year First Term Arts [ARTS] BIOLOGY 106 [BSCI]	3
	First Year <i>First Term</i> Arts [ARTS] BIOLOGY 106 [BSCI] CHEM 105 [PSCI] ¹	3 4
	First Year <i>First Term</i> Arts [ARTS] BIOLOGY 106 [BSCI] CHEM 105 [PSCI] ¹ HISTORY 105 [ROOT]	3 4 4 3
	First Year First Term Arts [ARTS] BIOLOGY 106 [BSCI] CHEM 105 [PSCI] ¹ HISTORY 105 [ROOT] Second Term	3 4 4 3 <i>Credits</i>
	First Year First Term Arts [ARTS] BIOLOGY 106 [BSCI] CHEM 105 [PSCI] ¹ HISTORY 105 [ROOT] Second Term BIOLOGY 107	3 4 3 <i>Credits</i> 4
	First Year First Term Arts [ARTS] BIOLOGY 106 [BSCI] CHEM 105 [PSCI] ¹ HISTORY 105 [ROOT] Second Term BIOLOGY 107 CHEM 106	3 4 3 <i>Credits</i> 4 4
	First Year First Term Arts [ARTS] BIOLOGY 106 [BSCI] CHEM 105 [PSCI] ¹ HISTORY 105 [ROOT] Second Term BIOLOGY 107 CHEM 106 ENGLISH 101 [WRTG]	3 4 3 <i>Credits</i> 4
	First Year First Term Arts [ARTS] BIOLOGY 106 [BSCI] CHEM 105 [PSCI] ¹ HISTORY 105 [ROOT] Second Term BIOLOGY 107 CHEM 106	3 4 3 <i>Credits</i> 4 4
	First Year First Term Arts [ARTS] BIOLOGY 106 [BSCI] CHEM 105 [PSCI] ¹ HISTORY 105 [ROOT] Second Term BIOLOGY 107 CHEM 106 ENGLISH 101 [WRTG]	3 4 3 <i>Credits</i> 4 4 3
	First Year First Term Arts [ARTS] BIOLOGY 106 [BSCI] CHEM 105 [PSCI] ¹ HISTORY 105 [ROOT] Second Term BIOLOGY 107 CHEM 106 ENGLISH 101 [WRTG] MATH 140 [QUAN] or 171 [QUAN] Second Year	3 4 3 Credits 4 4 3 4
	First Year First Term Arts [ARTS] BIOLOGY 106 [BSCI] CHEM 105 [PSCI] ¹ HISTORY 105 [ROOT] Second Term BIOLOGY 107 CHEM 106 ENGLISH 101 [WRTG] MATH 140 [QUAN] or 171 [QUAN] Second Year First Term	3 4 3 Credits 4 4 3 4 Credits
	First Year First Term Arts [ARTS] BIOLOGY 106 [BSCI] CHEM 105 [PSCI] ¹ HISTORY 105 [ROOT] Second Term BIOLOGY 107 CHEM 106 ENGLISH 101 [WRTG] MATH 140 [QUAN] or 171 [QUAN] Second Year First Term BIOLOGY 301	3 4 3 <i>Credits</i> 4 4 3 4 <i>Credits</i> 4
	First Year First Term Arts [ARTS] BIOLOGY 106 [BSCI] CHEM 105 [PSCI] ¹ HISTORY 105 [ROOT] Second Term BIOLOGY 107 CHEM 106 ENGLISH 101 [WRTG] MATH 140 [QUAN] or 171 [QUAN] Second Year First Term BIOLOGY 301 CHEM 345	3 4 3 Credits 4 4 3 4 Credits 4 4
	First Year First Term Arts [ARTS] BIOLOGY 106 [BSCI] CHEM 105 [PSCI] ¹ HISTORY 105 [ROOT] Second Term BIOLOGY 107 CHEM 106 ENGLISH 101 [WRTG] MATH 140 [QUAN] or 171 [QUAN] Second Year First Term BIOLOGY 301 CHEM 345 Humanities [HUM]	3 4 3 <i>Credits</i> 4 4 3 4 <i>Credits</i> 4
	First Year First Term Arts [ARTS] BIOLOGY 106 [BSCI] CHEM 105 [PSCI] ¹ HISTORY 105 [ROOT] Second Term BIOLOGY 107 CHEM 106 ENGLISH 101 [WRTG] MATH 140 [QUAN] or 171 [QUAN] Second Year First Term BIOLOGY 301 CHEM 345	3 4 3 Credits 4 4 3 4 Credits 4 4
	First Year First Term Arts [ARTS] BIOLOGY 106 [BSCI] CHEM 105 [PSCI] ¹ HISTORY 105 [ROOT] Second Term BIOLOGY 107 CHEM 106 ENGLISH 101 [WRTG] MATH 140 [QUAN] or 171 [QUAN] Second Year First Term BIOLOGY 301 CHEM 345 Humanities [HUM]	3 4 3 <i>Credits</i> 4 3 4 <i>Credits</i> 4 3

ciences Assistant Option (120 Credits)		Foreign Language and/or Electives ²	6	
Complete Writing Portfolio Third Year First Term Credits Arts [ARTS], Humanities [HUM], or Social Sciences [SSCI] 3 BIOLOGY 320 [M] or 372 [M] 4 BIOLOGY 420 3 STAT 212, 412, or PSYCH 311 3 or 4 Second Term Credits BIOLOGY 323 [M] 4 BIOLOGY 323 [M] 4 BIOLOGY 323 [M] 4 BIOLOGY 323 [M] 3 Foreign Language or Electives ² 4 Program Option Courses or Electives ⁴¹ 2 or 3 Fourth Year 7 First Term Credits BIOLOGY 409 4 Program Option Courses or Electives ²³ 6 Electives 3 Second Term Credits BIOLOGY 120; [CAPS] or HONORS 450 ²⁴ 3 Program Option Courses or Electives ²³ 12 Complete School of Biological Sciences Exit Survey 7 Fornates * MATH 106 may be them as a pre-to-requisite to CHEM 105 and other MATH courses. MATH 108 may also be needed. 1 Yaw yaars of high school forcign language or at least two senseters of college-fevel foreign. language are required with a science for yadista				
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for Bachelor of	WSU general catalog. Admission to the major requires comp	pletion of 24	
Science in	semester credits and 2.0 GPA.		
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Therapy/Pre-	Honors students complete honors requirements in place of U requirements. The math and science components of those requirements of those requirements.		
Occupational	fulfilled as part of the School requirements described below.	-	
Therapy/Pre-	requirements include: 120 total credits, of which 40 must be		
Physician	credits; the writing portfolio; and two writing in the major co	ourses (identified by	
Assistant Option	[M] in the course listings). The College of Arts and Sciences		
	of high school foreign language or at least two semesters of		
	language. Bachelor of Science degree options in Biology and		
	minimum of 19 semester credits of core BIOLOGY courses 107, 301, 370 [M] or 372 [M], and 395 or 403 or 405). An a		
	semester credits of biological sciences coursework selected		
	your biology advisor is required. The 21 semester credits m		
	division credits, six of which must be BIOLOGY courses tal		
	WSU, one additional BIOLOGY writing in the major course		
	in the course listings), and one BIOLOGY Capstone course	· · · · · · · · · · · · · · · · · · ·	
	[CAPS] in the course listings. An overall GPA of at least 2.0		
	in all College and School requirements. A maximum of 4 creates that are graded S, F may be used toward fulfilling School red		
	program options, and no other courses taken S or P can be a	-	
	fulfilling School requirements or program options. Students must complete an		
	exit survey. Students may not double major or take a minor		
	of Biology, Zoology, or General Studies Biological Sciences	-	
	First Year		
	First Term	Credits	
	BIOLOGY 106 [BSCI]	4	
	CHEM 105 [PSCI] ¹	4	
	ENGLISH 101 [WRTG]	3	
	SOC 101 [SSCI]	3	
	Second Term	_	
		Credits	
	BIOLOGY 107	4	
	CHEM 106	4	
	HISTORY 105 [ROOT]	3	
	MATH 140 [QUAN] or 171 [QUAN] ¹	4	
	Second Year		
	First Term	Credits	
	ANTH 203 [DIVR] or Diversity [DIVR] ²	3	
	BIOLOGY 251 or 353	4	
	CHEM 345	4	
	PSYCH 105 [SSCI]	3	
	Second Term	Credits	
	BIOLOGY 301	4	

PHIL 365 [HUM]	3
PHYSICS 101 or 201	4
STAT 212, 412, or PSYCH 311	3 or 4
Complete Writing Portfolio	
Third Year	
First Term	Credits
BIOLOGY 315 or 354	4
BIOLOGY 393 [M], 490 [M], or BIOLOGY [M] ^{2,3,4}	2 - 4
Foreign Language, if needed, or Program Emphasis Requirements ^{2,3,4,5}	
PHYSICS 102 or 202	4
PSYCH 333	3
Second Term	Credits
Arts [ARTS]	3
BIOLOGY <u>370 [M] or</u> 372 [M]	4
H D 101 or PSYCH $361^{2,3,64}$	4
	-
Foreign Language, if needed, and/or Electives ^{5,6}	6
Fourth Year	
First Term	Credits
ENGLISH 402 [WRTG]	3
Program Emphasis Requirements or Electives ^{2,3,4,6}	12
Second Term	Credits
BIOLOGY [CAPS] or HONORS 450 ⁷	3
BIOLOGY <u>395,</u> 403, or 405	3
Program Emphasis Requirements or Electives ^{2,3,4,6}	10
Complete School of Biological Sciences Exit Survey	
Footnotes ¹ MATH 106 may be taken as a pre-/co-requisite to CHEM 105 and other MATH courses. MA	TU 109
may also be needed.	111 100
² Pre-Occupational Therapy Program emphasis (13 credits) includes ANTH 203, BIOLOGY 2 BIOLOGY 393 [M], COM 102, H D 101.	20,
³ Pre-Physical Therapy Program emphasis (8-9 credits) includes BIOLOGY 393 [M] or 490 [N 380 or BIOLOGY 350 or BIOLOGY 352, PSYCH 361 or H D 101.	M], KINES
⁴ Pre-Physician Assistant Program emphasis (14-15 credits) includes CHEM 370 or MBIOS 30 304 or 306, MBIOS 305, PSYCH 361 or H D 101. Students in this emphasis will also need to BIOLOGY [M] course to fulfill the University requirement of 2 [M] courses.	
	language are
⁵ Two years of high school foreign language or at least two semesters of college-level foreign l required by the College of Arts and Sciences for graduation.	
 ⁵ Two years of high school foreign language or at least two semesters of college-level foreign l required by the College of Arts and Sciences for graduation. ⁶ Pre-Physical Therapy / Pre-Occupational Therapy / Pre-Physician Assistant Program emphas should be selected in consultation with a biology advisor and include coursework to fulfill the requirement of 40 upper division credits. In addition to core biology courses (BIOLOGY 106 <u>370 [M] or 372 [M], one from 395, 403, or 405, BIOLOGY [CAPS] or HONORS 450</u>, all be majors must complete 21 semester credits of biological coursework including 15 upper-division of which must be a BIOLOGY prefix taken in residence at WSU. Approved program elective CHEM 370, KINES 380, MBIOS 303, 304, 305, 306, PHIL 365, and 200-400-level BIOLOC except those used to fulfill core requirements, and any courses approved by advisor. A maxin credits of coursework graded S/F may be used toward fulfilling departmental requirements. 	e University 5, 107, 301, iology ion credits, 6 es include GY courses

Biological Sciences	Zoology - Accelerated Pre-Veterinary Option (125 Credits)	:
Revise graduation	The Accelerated Pre-Veterinary Option track allows qualified students to earn	
requirements and		
Rule 53 language	both a Bachelor of Science in Zoology and Doctor of Veterinary Medicine within	
for Bachelor of	a seven-year span. Interested students must be advised by faculty in the School	
Science in	of Biological Sciences, and should contact the school no later than the first	
	semester of the sophomore year. Candidates for the Bachelor of Science in	
Zoology -	Zoology must fulfill the University and the College of Arts and Sciences	
Accelerated Pre-	requirements for graduation as described in the WSU general catalog. Students	
Veterinary Option	must complete a minimum of 90 undergraduate credits, including 30 credits of	
	300-400 level coursework, and be accepted into the Veterinary Medicine	
	program to complete this degree.	
	Honors students complete honors requirements in place of UCORE	
	requirements. The math and science components of those requirements are	
	fulfilled as part of the School requirements described below. Other University	
	requirements include: 120 total credits, of which 40 must be 300-400-level	
	credits; the writing portfolio; and two writing in the major courses (identified by	
	[M] in the course listings). The College of Arts and Sciences requires two years	
	of high school foreign language or at least two semesters of college-level foreign	
	language. Bachelor of Science degree options in Biology and Zoology require a	
	minimum of 19 semester credits of core BIOLOGY courses (BIOLOGY 106,	
	107, 301, 370 [M] or 372 [M], and 395 or 403 or 405). An additional 21	
	semester credits of biological sciences coursework selected in consultation with	
	your biology advisor is required. The 21 semester credits must include 15 upper	
	division credits, six of which must be BIOLOGY courses taken in residence at	
	WSU, one additional BIOLOGY writing in the major course (identified by [M]	
	in the course listings), and one BIOLOGY Capstone course (identified by the	
	[CAPS] in the course listings). VET MED credits fulfill other Program Option	
	electives requirements. An overall GPA of at least 2.0 must be maintained in all	
	College and School requirements. A maximum of 4 credits of coursework that	
	are graded S, F may be used toward fulfilling School requirements or program	
	options, and no other courses taken S or P can be applied toward fulfilling	
	School requirements or program options. Students must complete an exit survey.	
	Students may not double major or take a minor in any combination of Biology,	
	Zoology, or General Studies Biological Sciences.	
	This track allows qualified students to earn both a Bachelor of Science in	
	Zoology and Doctor of Veterinary Medicine within a seven-year span. Interested	
	students must be advised by faculty in the School of Biological Sciences, and	
	should contact the school no later than the first semester of the sophomore year.	
	For more information about the Accelerated Pre-Vet Option program contact the	
	School of Biological Sciences.	
	NOTE: Students must complete a minimum of 90 undergraduate credits	
	including 30 credits of 300-400 level coursework - and be accepted into the	
	Veterinary Medicine program to complete this degree.	
	First Year	
	First Year Credits	
	Arts [ARTS] 3	

BIOLOGY 106 [BSCI]	4	
CHEM 105 [PSCI] ¹	4	
HISTORY 105 [ROOT]	3	
Second Term	Credits	
BIOLOGY 107	4	
CHEM 106	4	
ENGLISH 101 [WRTG]	3	
MATH 140 [QUAN] or 171 [QUAN] ¹	4	
Second Year		
First Term	Credits	
BIOLOGY 301	4	
CHEM 345	4	
Communication [COMM] or Written Communication [WRTG]	3	
Humanities [HUM]	3	
Second Term	Credits	
Arts [ARTS], Humanities [HUM], or Social Sciences [SSCI]	3	
CHEM 370 or MBIOS 303	3 or 4	
PHYSICS 101 or 201	4	
STAT 212, 412, or PSYCH 311	3 or 4	
Complete Writing Portfolio		
Third Year		
First Term	Credits	
BIOLOGY [CAPS] or HONORS 450 ²	3	
BIOLOGY 321 [M] or BIOLOGY 322 [M]	4	
PHYSICS 102 or 202	4	
Foreign Language, if needed, and/or Elective ^{3,4}	6	
Second Term	Credits	
BIOLOGY <u>370 [M] or 372 [M]</u>	4	
BIOLOGY <u>395,</u> 403, or 405	3	
Diversity [DIVR]	3	
Social Sciences [SSCI]	3	
Foreign Language, if needed, or Elective ^{3,4}	4	
Fourth Year		
First Term	Credits	
VET MED 510	4	
VET MED 511 ^{5<u>4</u>}	5	
VET MED 513	4	
VET MED 568	2	
VET MED 586	1	

	Note: VET MED credits fulfill Zoology Program option electives requirements	
	Second Term Credits	
	VET MED 512 4	
	VET MED 520 ⁵⁶ 5	
	VET MED 521 3	
	VET MED 534 3	
	VET MED 545 3	
	VET MED 580 1	
	Complete School of Biological Sciences Exit Survey	
	 Footnotes ¹ MATH 106 may be taken as a pre-/co-requisite to CHEM 105 and other MATH courses. MATH 108 may also be needed. 	
	² Students in Honors College complete HONORS 450 in lieu of a BIOLOGY [CAPS] course.	
	³ Two years of high school foreign language or at least two semesters of college-level foreign language are required by the College of Arts and Sciences for graduation.	
	⁴ Students are required to complete a minimum of 90 undergraduate credits – including 30 credits of 300-	
	400 level coursework prior to starting coursework as a DVM student. ⁵⁴ Counts as Anatomy option requirement toward the Zoology degree	
	$\frac{65}{2}$ Counts as Physiology option requirement toward the Zoology degree.	
Biological Sciences	Zoology - General Option (120 Credits)	8-20
Revise graduation requirements and	Candidates for the Bachelor of Science in Zoology must fulfill the University	
Rule 53 language	and the College of Arts and Sciences requirements for graduation as described in the WSU general catalog. Admission to the major requires completion of 24	
for Bachelor of	semester credits and 2.0 GPA.	
Science in	semester eredits and 2.0 Gr A.	
Zoology - General	Honors students complete honors requirements in place of UCORE	
Option	requirements. The math and science components of those requirements are	
	fulfilled as part of the School requirements described below. Other University	
	requirements include: 120 total credits, of which 40 must be 300-400-level	
	credits; the writing portfolio; and two writing in the major courses (identified by	
	[M] in the course listings). The College of Arts and Sciences requires two years	
	of high school foreign language or at least two semesters of college-level foreign	
	language. Bachelor of Science degree options in Biology and Zoology require a	
	minimum of 19 semester credits of core BIOLOGY courses (BIOLOGY 106,	
	<u>107, 301, 370 [M] or 372 [M], and 395 or 403 or 405). An additional 21</u> semester credits of biological sciences coursework selected in consultation with	
	your biology advisor is required. The 21 semester credits must include 15 upper	
	division credits, six of which must be BIOLOGY courses taken in residence at	
	WSU, one additional BIOLOGY writing in the major course (identified by [M]	
	in the course listings), and one BIOLOGY Capstone course (identified by the	
	[CAPS] in the course listings. An overall GPA of at least 2.0 must be maintained	
	in all College and School requirements. A maximum of 4 credits of coursework	
	that are graded S, F may be used toward fulfilling School requirements or	
	<u>program options, and no other courses taken S or P can be applied toward</u> fulfilling School requirements or program options. Students must complete an	

xit survey. Students may not double major or take a minor in any co of Biology, Zoology, or General Studies Biological Sciences.	JIIOIIIauloii
First Year	
First Term	Credits
Arts [ARTS]	3
BIOLOGY 106 [BSCI]	4
CHEM 105 [PSCI] ¹	4
HISTORY 105 [ROOT]	3
Second Term	Credits
BIOLOGY 107	4
CHEM 106	4
ENGLISH 101 [WRTG]	3
MATH 140 [QUAN] or 171 [QUAN]	4
Second Year	
First Term	Credits
CHEM 345	4
Communication [COMM] or Written Communication [WRTG]	3
Humanities [HUM]	3
Program Option Courses, Foreign Language, and/or Electives ^{2,3}	7
Second Term	Credits
Arts [ARTS], Humanities [HUM], or Social Sciences [SSCI]	3
BIOLOGY 301	4
Diversity [DIVR]	3
Program Option Courses, Foreign Language, and/or Electives ^{2,3}	3 - 6
STAT 212, 412, or PSYCH 311	3 or 4
Complete Writing Portfolio	
Third Year	
First Term	Credits
BIOLOGY 321 [M], 322 [M], or 324	4
PHYSICS 101 or 201	4
Program Option Course or Electives ^{2,3}	6 or 7
Social Sciences [SSCI]	3
Second Term	Credits
BIOLOGY 321 [M], 322 [M], or 324	4
BIOLOGY <u>370 [M] or </u> 372 [M]	4
PHYSICS 102 or 202	4
Electives	3
Fourth Year	
First Term	Credits

	BIOLOGY 350 or 353 4	
	BIOLOGY <u>395</u> , 403, or 405 3	
	Program Option Courses or Electives $\frac{2}{3}$ 6	
	Second Term Credits	
	BIOLOGY Capstone [CAPS] 3	
	Integrative Capstone [CAPS] 3	
	Program Option Courses or Electives ^{$2,3$} 10	
	Complete School of Biological Sciences Exit Survey	
	Footnotes	
	¹ MATH 106 may be taken as a pre-/co-requisite to CHEM 105 and other MATH courses. MATH 108 may also be needed.	
	² <u>Two years of high school foreign language or at least two semesters of college-level foreign language</u> are required by the College of Arts and Sciences for graduation.	
	^{2,3} Zoology General Program Option electives should be selected in consultation with a biology advisor and must include 9 credits selected from ANIM SCI 314; BIOLOGY 352, 393 [M], 407, 410, 412, 418 [M], 423, 428, 432, 438 [M], 469, 486, 495; ENTOM 340, 343 [M], 344 [M], 448; MBIOS 303, or as approved by advisor. All zoology majors must complete 21 semester credits of biological coursework including 15 upper-division credits, 6 of which must be a BIOLOGY prefix taken in residence at WSU. Approved courses include 200-400-level BIOLOGY courses except those used to fulfill core requirements (BIOLOGY 106. 107, 301, <u>370 [M] or 372 [M]</u> , <u>one from 395, 403, and or 405</u>), and any courses approved by advisor. A maximum of 4 credits of coursework graded S/F may be used toward fulfilling departmental requirements or program options and must be approved by advisor.	
Biological	Zoology - Pre-Medicine/Pre-Dentistry Option (120 Credits)	8-20
Sciences Revise graduation	Can didatas for the Dashalar of Saisnas in Zaalaan must fulfill the University	
requirements and	Candidates for the Bachelor of Science in Zoology must fulfill the University and the College of Arts and Sciences requirements for graduation as described in	
Rule 53 language	the WSU general catalog. Admission to the major requires completion of 24	
for Bachelor of	semester credits and 2.0 GPA.	
Science in		
Zoology - Pre-	Honors students complete honors requirements in place of UCORE	
Medicine/Pre-	requirements. The math and science components of those requirements are	
Dentistry Option	fulfilled as part of the School requirements described below. Other University	
	requirements include: 120 total credits, of which 40 must be 300-400-level	
	credits; the writing portfolio; and two writing in the major courses (identified by [M] in the course listings). The College of Arts and Sciences requires two years	
	of high school foreign language or at least two semesters of college-level foreign	
	language. Bachelor of Science degree options in Biology and Zoology require a	
	minimum of 19 semester credits of core BIOLOGY courses (BIOLOGY 106,	
	107, 301, 370 [M] or 372 [M], and 395 or 403 or 405). An additional 21	
	semester credits of biological sciences coursework selected in consultation with	
	your biology advisor is required. The 21 semester credits must include 15 upper	
	division credits, six of which must be BIOLOGY courses taken in residence at	
	WSU, one additional BIOLOGY writing in the major course (identified by [M] in the course listings), and one BIOLOGY Capstone course (identified by the	
	[CAPS] in the course listings. An overall GPA of at least 2.0 must be maintained	
	in all College and School requirements. A maximum of 4 credits of coursework	
	in all College and School requirements. A maximum of 4 credits of coursework that are graded S, F may be used toward fulfilling School requirements or	

exit survey. Students may not double major or take a minor in any c of Biology, Zoology, or General Studies Biological Sciences.	
First Year	
First Term	Credits
Arts [ARTS]	3
BIOLOGY 106 [BSCI]	4
CHEM 105 [PSCI] ¹	4
ENGLISH 101 [WRTG]	3
Second Term	Credits
BIOLOGY 107	4
CHEM 106	4
HISTORY 105 [ROOT]	3
MATH 140 [QUAN] or 171 [QUAN]	4
Second Year	
First Term	Credits
BIOLOGY 301	4
CHEM 345	4
PHYSICS 101 or 201	4
Social Sciences [SSCI]	3
Second Term	Credits
CHEM 348	4
Communication [COMM] or Written Communication [WRTG]	3
Diversity [DIVR]	3
PHYSICS 102 or 202	4
Complete Writing Portfolio	
Third Year	
First Term	Credits
BIOLOGY 315, 321 [M], or 324	4
BIOLOGY 322 [M], 418 [M], or MBIOS 305	4 or 3
BIOLOGY <u>395,</u> 403, or 405	3
Humanities [HUM]	3
Program Option Courses, Foreign Language, or Electives ^{2,3}	3 or 4
Second Term	Credits
Arts [ARTS], Humanities [HUM], or Social Sciences [SSCI]	3
BIOLOGY <u>370 [M] or 372 [M]</u>	4
<u>CHEM 370 or MBIOS 303</u>	<u>3 or 4</u>
Foreign Language or Electives ²	2 - 4
MBIOS 303	4
Program Option Courses or Electives ^{2,3}	<u>4 or</u> 3

	Fourth Year		
	First Term	Credits	
	BIOLOGY 322 [M], 418 [M], or MBIOS 305	3 or 4	
	BIOLOGY 352	3	
	Program Option Courses or Electives ^{$2,3$}	9	
	Second Term	Credits	
	BIOLOGY 315, 321 [M], or 324	4	
	BIOLOGY 353	4	
	BIOLOGY Capstone [CAPS] Integrative Capstone [CAPS]	<u>3</u> 3	
		-	
	STAT 212, 412, or PSYCH 311	3 or 4	
	Complete School of Biological Sciences Exit Survey		
	Footnotes		
	¹ MATH 106 may be taken as a pre-/co-requisite to CHEM 105 and other MATH commay also be needed.	urses. MATH 108	
	² <u>Two years of high school foreign language or at least two semesters of college-level foreign language are required by the College of Arts and Sciences for graduation.</u>		
	²⁻³ Zoology, Pre-Medicine/Pre-Dentistry Option, must include 21 semester credits of b coursework including 15 upper-division credits, 6 of which must be a BIOLOGY p residence at WSU. Approved courses include 200-400-level BIOLOGY courses exert fulfill core requirements (BIOLOGY 106. 107, 301, <u>370 [M] or 372 [M]</u> , <u>one from 405</u>), and any courses approved by advisor. A maximum of 4 credits of coursework used toward fulfilling departmental requirements or program options and must be approved by advisor.	refix taken in cept those used to <u>395, 403, and or</u> graded S/F may be	
Biological Sciences	Zoology - Pre-Veterinary/Animal Care Option (120 Cr	·edits)	8-20
Revise graduation	Condidates for the Dechelor of Science in Zealery must fulfill th	a Linivansity	
requirements and	Candidates for the Bachelor of Science in Zoology must fulfill th and the College of Arts and Sciences requirements for graduation		
the WSU general catalog. Admission to the major requires completion of 24			
for Bachelor of	semester credits and 2.0 GPA.		
Science in Zoology - Pre-		-	
Veterinary/Animal	Honors students complete honors requirements in place of UCOR		
Care Option	requirements. The math and science components of those requires fulfilled as part of the School requirements described below. Oth		
	requirements include: 120 total credits, of which 40 must be 300-	-	
	credits; the writing portfolio; and two writing in the major course		
	[M] in the course listings). The College of Arts and Sciences requ	-	
	of high school foreign language or at least two semesters of college		
	language. Bachelor of Science degree options in Biology and Zoo minimum of 19 semester credits of core BIOLOGY courses (BIO		
	107, 301, 370 [M] or 372 [M], and 395 or 403 or 405). An addition		
	semester credits of biological sciences coursework selected in con		
	your biology advisor is required. The 21 semester credits must in	clude 15 upper	
	division credits, six of which must be BIOLOGY courses taken in		
	WSU, one additional BIOLOGY writing in the major course (ide		
	in the course listings), and one BIOLOGY Capstone course (iden		
	[CAPS] in the course listings. An overall GPA of at least 2.0 must in all College and School requirements. A maximum of 4 credits		

ulfilling School requirements or program options. Students must co	-
xit survey. Students may not double major or take a minor in any c	combination
f Biology, Zoology, or General Studies Biological Sciences.	
First Year <i>First Term</i>	Credits
Arts [ARTS]	3
BIOLOGY 106 [BSCI]	4
CHEM 105 [PSCI] ¹	4
HISTORY 105 [ROOT]	3
Second Term	Credits
BIOLOGY 107	4
CHEM 106	4
ENGLISH 101 [WRTG]	3
MATH 140 [QUAN] or 171 [QUAN] ¹	4
Second Year	A 1 ,
First Term	Credits
BIOLOGY 301	4
CHEM 345	4
Communication [COMM] or Written Communication [WRTG]	3
Humanities [HUM]	3
Social Sciences [SSCI]	3 Creatite
Second Term	Credits
Arts [ARTS], Humanities [HUM], or Social Sciences [SSCI] CHEM 370 or MBIOS 303 or Elective ²	3
	3 or 4
PHYSICS 101 or 201 Program Ontion Courses, Fernian Language, or Floatives ^{3,4}	4
Program Option Courses, Foreign Language, or Electives ^{3,<u>4</u>}	3 3 or 4
STAT 212, 412, or PSYCH 311 Complete Writing Portfolio	3 OF 4
complete writing i ortiono	
Third Year	
First Term	Credits
BIOLOGY 321 [M], 322 [M], or 324	4
PHYSICS 102 or 202	4
Program Option Courses, Foreign Language, or Electives ^{3,4}	6
Second Term	Credits
BIOLOGY 321 [M], 322 [M], or 324	4
BIOLOGY <u>370 [M] or</u> 372 [M]	4
Diversity [DIVR]	3
Electives	4

	Fourth Year	
	Fourth Year Credits	
	BIOLOGY <u>395, 403, or 405</u>	
	Program Option Courses or Electives 34 3	
	Electives 3	
	Second Term Credits	
	BIOLOGY [CAPS] or HONORS 450^{45} 3	
	Program Option Courses or Electives ³⁴ 10	
	Electives 3	
	Complete School of Biological Sciences Exit Survey	
	 Footnotes ¹ MATH 106 may be taken as a pre-/co-requisite to CHEM 105 and other MATH courses. MATH 108 may also be needed. ² A biochemistry course is required for admittance to U.S. veterinary colleges. 	
	³ <u>Two years of high school foreign language or at least two semesters of college-level foreign language</u> are required by the College of Arts and Sciences for graduation.	
	 ^{3.4} Zoology, Pre-Veterinary/Animal Care Program Option electives should be selected in consultation with a biology advisor and must include 12 credits selected from BIOLOGY 352, 360, 393 [M], 412, 423, 428, 432, 438 [M], 495, CHEM 370 or MBIOS 303, 304, 305, NATRS SOE 431, or as approved by advisor. Beyond the core requirements (BIOLOGY 106, 107, 301, <u>370 [M] or 372 [M]</u>, one from <u>395, and 403, or 405</u>, BIOLOGY [CAPS] or HONORS 450) all zoology majors must complete 21 semester credits of biological coursework including 15 upper-division credits, 6 of which must be a BIOLOGY prefix taken in residence at WSU. Approved courses include 200-400-level BIOLOGY courses not used to fulfill core requirements, and any courses approved by advisor. A maximum of 4 credits of coursework graded S/F may be used toward fulfilling departmental requirements or program options and must be approved by advisor. ⁴⁻⁵ Students in Honors College complete HONORS 450 in lieu of a BIOLOGY [CAPS] course. 	
Chemical	Chemical Engineering – General (124 Credits)	8-20
Engineering and		
Bioengineering	At least 63 of the total credits required for this degree must be in 300-400-level	
Revise graduation requirements and	courses.	
revise language	Criteria for Certification – Chemical Engineering Program	
for Rule 53 for	Criteria for Certification – Chemicar Engineering Frogram	
Bachelor of	1. In September of each year, the faculty of the School of Chemical	
Science in	Engineering and Bioengineering will establish the total number of	
Chemical	students (January, June, and August) to be certified into the chemical	
Engineering	engineering program.	
	 Each student will be considered for certification during the semester after all of the following courses are completed: MATH 171, MATH 172, MATH 273; CHEM 105, CHEM 106, CHEM 345, PHYSICS 201, CHE 201. 	
	3. To be certified, each student must meet the following minimum requirements:	
	a. 2.0 cumulative GPA.	
	b. A "C" grade or better in each of the courses listed in 2) above.	
	o. A C grade of better in each of the courses listed in 2) above.	

- c. Be in good academic standing (semester GPA 2.00 or higher) at the time they are being considered for certification.
- 4. Certification decisions will be made at the end of Fall, Spring, and Summer terms. Those being certified at the end of Fall term will be notified by January 15, those being certified at the end of Spring term will be notified by June 1, and those being certified at the end of Summer term will be notified by August 15.
- 5. If the number of students seeking certification exceeds the program capacity, as determined in 1) above, additional criteria will be used to select those who are certified. Those criteria include:
 - a. grade received in CHE 201;
 - b. average GPA in the courses listed in 2) above;
 - c. the GPA earned during the previous semester;
 - d. cumulative GPA.
- 6. Students who have completed all the courses listed in 2) above, but who are not certified will be notified of the decision according to the time table described in 4) above. Such students who are not certified may appeal the decision. The appeal should describe any special circumstances which should be considered. A faculty committee will consider the appeal, the special circumstances described, and trends in the grades (e.g. trends in grades and/or withdrawals, typical course load attempted and typical course load completed) and make a final decision regarding certification. The appeal must be submitted within 2 weeks of the notification described in 4) above. The appeal will be considered and a decision made by February 15, July 1, and September 15.
- 7. Students who are deficient under the University's Academic Regulations are subject to decertification. Recertification will be granted only under rare, extenuating conditions.
- Certification Guarantee: Students who have completed the courses noted in 2) above with an average GPA of at least 3.2, who have an overall GPA of at least 3.2 in the courses that have been taken that are required in the major, and who have not repeated any required course, are guaranteed certification.

Admission to the Major Criteria – Chemical Engineering Program

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

Students who are deficient under the University's Academic Regulations 38 and 39 or whose GPA in CHE courses falls below 2.0 are subject to loss of eligibility of the major. The Chemical Engineering undergraduate studies committee will

determine the eligibility for readmission and probation condit who are deficient and apply for re-entry into the major.	ions for students
Graduation Requirements No Washington State University courses listed in this schedul taken on a pass/fail basis. With the exception of CHE 488, 49 ENGR 489, all listed CHE courses, required electives, and the these courses must be completed with a grade of C or better.	5, 498, 499 and
First Year	
First Term	Credits
CHE 101	1
CHEM 105 [PSCI]	4
Diversity [DIVR]	3
HISTORY 105 [ROOT] <u>or 305 [ROOT]</u>	3
MATH 171 [QUAN]	4
Second Term	Credits
BIOLOGY 106 [BSCI], 107 [BSCI], or 110 [BSCI]	3 or 4
CHE 110 ¹	2
CHEM 106 <u>or 116</u>	4
ENGLISH 101 [WRTG]	3
MATH 172 <u>or 182</u>	4
Second Year	
First Term	Credits
CHE 201	3
CHEM 345	4
Humanities [HUM]	3
MATH 273 <u>or 283</u>	2
PHYSICS 201 or 205	4 <u>or 5</u>
Second Term	Credits
CHE 211	3
CHEM 348 or MBIOS 303	4
MATH 220 <u>or 230</u>	2 <u>or 3</u>
MATH 315	3
PHYSICS 202 <u>or 206</u>	4 <u>or 5</u>
Complete Writing Portfolio	
Third Year	
First Term	Credits
Arts [ARTS]	3
CHE 301	3

	CHE 310	3
	CHEM 331	3
	CHEM 333 or 334 [M] 1 or	2
	CHE or Technical Elective ^{1,2}	3
		5
	Second Term Credi	ts
	CHE 321	3
	CHE 332	3
	CHE 334	3
	CHE 498	1
	ENGLISH 402 [WRTG] [M] <u>or 403 [WRTG] [M]</u>	3
	STAT 423	3
	5171 725	5
	Fourth Year	
	First Term Credi	ts
	CHE 352	3
	CHE 432 [M]	3
	CHE 441	3
	CHE 450	3
	ECONS 101 [SSCI], 102 [SSCI] or 198	3
	Second Term Credi	
	CHE 433 [M]	2
	CHE 451 [M] [CAPS]	3
	CHE Elective ^{2,3}	6
	CHE or Technical Elective ^{1,2}	3
	Exit Interview	
	Footnotes	
	¹ <u>Three credit 300-400-level CHE course may be substituted for CHE 110 by approval of advisor. The CHE course can be included as three credits of the CHE or Technical Electives.</u>	2
	$\frac{1}{2}$ Technical Elective (6 credits): MSE 201 or any 300-400-level BIO ENG, CHEM, CHE, CE, E E,	
	ENGR, MATH, ME, MSE, or PHYSICS. or STAT course as approved by advisor.	
	 ²³ CHE Electives (6 credits): Any 400-level <u>CHE</u> course not used to fulfill major requirements. A maximum of 3 credits is allowed in CHE 488, 495, and 499 combined. 	
Chemical	Bioengineering - General Option (120 Credits)	8-20
Engineering and		
Bioengineering	Students who plan to pursue pre-med studies should consult their advisor for	
Revise graduation	further information about appropriate courses.	
requirements and		
revise language	Criteria for Certification – Bioengineering Program	
for Rule 53 for	1 In March of each year the feaulty of the School of Chamical Environment	ina
Bachelor of Science in	1. In March of each year, the faculty of the School of Chemical Engineer and Bioengineering will establish the total number of students (January	
	June, and August) to be certified into the Bioengineering program.	"

Bioengineering - General option	2. Each student will be considered for certification during the semester after she/he has completed all of the following courses: MATH 171, MATH 172, CHEM 105, CHEM 106, BIOLOGY 107, PHYSICS 201, CHE 201.
	3. To be certified, each student must meet the following minimum
	requirements:
	a. 2.0 cumulative GPA.
	b. A "C" grade or better in each of the courses listed in 2) above.
	c. Be in good academic standing (semester GPA 2.00 or higher) at the time they are being considered for certification.
	4. Certification decisions will be made at the end of Fall, Spring, and Summer terms. Those being certified at the end of Fall term will be notified by January 15, those being certified at the end of Spring term will be notified by June 1, and those being certified at the end of the Summer term will be notified by August 15.
	5. If the number of students seeking certification exceeds the program capacity, as determined in 1) above, additional criteria will be used to select those who are certified. Those criteria include:
	a. average GPA received in the courses listed in 2) above;
	b. average GPA earned in all the engineering/math/science courses which have already been completed; and
	c. the GPA earned during the previous semester.
	 Students who have completed all the courses listed in 2) above, but who are not certified will be notified of the decision according to the time
	table described in 4) above. Such students who are not certified may
	appeal the decision. The appeal should describe any special circumstances which should be considered. A faculty committee will consider the appeal, the special circumstances described, and trends in the
	grades (e.g. trends in grades and/or withdrawals, typical course load attempted and typical course load completed) and make a final decision
	regarding certification. The appeal must be submitted within 2 weeks of the notification described in 4) above. The appeal will be considered and a decision made by February 15, July 1, and September 15, depending on
	t he term.
	7. Students who are deficient under the University's Educational Policies and Procedures are subject to decertification. When a student is in good academic standing, they will be reconsidered for certification as stated in 2) above.
	8. Certification Guarantee: Students who have completed the certification courses noted above with an average GPA of at least 3.2, who have an overall GPA of at least 3.2 in the completed courses required in the major, and who have not repeated any required courses, are guaranteed certification
	<u>Admission to the Major Criteria – Bioengineering Program</u>
	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, and

CHEM 105 with a C or better or concurrent enrollment. To remain in the major the student must earn a grade of C or better in all courses and maintain good academic standing (i.e. a 2.0 or higher GPA each term and an overall cumulative GPA of 2.0 at WSU).

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.

First Year

Complete Writing Portfolio

Third Year

First Term	Credits
Arts [ARTS]	3
CHEM 105 [PSCI]	4
ENGLISH 101 [WRTG]	3
ENGR 120 ¹	2
MATH 171 [QUAN]	4
Second Term	Credits
BIO ENG 140	1
BIOLOGY 107 [BSCI]	4
CHEM 106 <u>or 116</u>	4
HISTORY 105 [ROOT] <u>or 305 [ROOT]</u>	3
MATH 172 <u>or 182</u>	4
Second Year	
First Term	Credits
BIO ENG 205	1
CHE 201	3
Humanities [HUM]	3
MATH 220 <u>or 230</u>	2 <u>or 3</u>
MATH 273 <u>or 283</u>	2
PHYSICS 201 <u>or 205</u>	4 <u>or 5</u>
Second Term	Credits
BIO ENG 210	2
CE 211	3
MATH 315	3
PHYSICS 202 <u>or 206</u>	4 <u>or 5</u>
STAT 370 or 423	3

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	First Term	Credits	
	BIO ENG 310	3	
	BIO ENG 321	3	
	BIO ENG 322 [M]	1	
	BIO ENG 350	3	
	E E 261	3	
	Second Term	Credits	
	BIO ENG 330	3	
	BIO ENG 340	4	
	Bioengineering Elective ²	3	
	Diversity [DIVR]	3	
	ECONS 101 [SSCI], 102 [SSCI] or 198	3	
	Fourth Year		
	First Term	Credits	
	BIO ENG 410 [M]	3	
	BIO ENG 440	4	
	Communication [COMM] or Written Communication [WRTG]	3	
	Technical Electives ³	6	
	Second Term	Credits	
	BIO ENG 411 [CAPS]	3	
	Bioengineering Electives ²	3	
	Technical Electives ³	6	
	Elective	1	
	Complete BIO ENG Exit Interview		
	 Footnotes ¹ 3 credit 300-400-level engineering course may be substituted for ENGR 120 by approval of advisor. ² Bioengineering Electives (6 credits): Must have a BIO ENG subject, selected from the following: BIO ENG 425, 435, 455, 476, or 481. ³ Technical Electives (12 credits): May be either BIO ENG courses (not used to fulfill Bioengineering elective requirements) from Footnote 2, or other relevant engineering or science courses from the following: BIO ENG 488, 495, 499; BIOLOGY 106, 251, 301, 315, 340, 352, 353, 494; CE 315, 463; 		
	CHE 301, 334, 475; CHEM 345, 348, 370; CPT S 121; E E 262; MBIOS 301, 303, 304 405/505, 413, 414, 426, 465, 478; ME 116, 212, 216, 301, 303, 310, 311, 401, 472, 473 401, 402, 403, 406, 413; NEUROSCI 301, 302, 305, 403 [M], 404, 425, 426, 430 [M]; PHYSICS 466. Approved courses include BIOLOGY 106, 251, CPT S 121, E E 214, 2 216, MSE 201, PHIL 365, or any 300-400 level BIO ENG, BIOLOGY, CE, CHE, CHI MATH, ME, MSE, NEUROSCIENCE, PHYSICS, or STAT course as approved by adv include sufficient 300-400-level courses to meet University requirement of 40 credits u coursework.	3; MSE 201, 302, PHIL 365; 262, ME 116, 212, EM, CPT S, E E, visor. Must	
Chemical Engineering and Bioengineering	Bioengineering - Pre-Med Option (127 Credits)		8-20

Revise graduation requirements and revise language for Rule 53 for Bachelor of Science in Bioengineering -Pre-Med option

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

Criteria for Certification – Bioengineering Program

- 1. In March of each year, the faculty of the School of Chemical Engineering and Bioengineering will establish the total number of students (January, June, and August) to be certified into the Bioengineering program.
- 2. Each student will be considered for certification during the semester after she/he has completed all of the following courses: MATH 171, MATH 172, CHEM 105, CHEM 106, BIOLOGY 107, PHYSICS 201, CHE 201.
- 3. To be certified, each student must meet the following minimum requirements:
 - a. 2.0 cumulative GPA.
 - b. A "C" grade or better in each of the courses listed in 2) above.
 - c. Be in good academic standing (semester GPA 2.00 or higher) at the time they are being considered for certification.
- 4. Certification decisions will be made at the end of Fall, Spring, and Summer terms. Those being certified at the end of Fall term will be notified by January 15, those being certified at the end of Spring term will be notified by June 1, and those being certified at the end of the Summer term will be notified by August 15.
- 5. If the number of students seeking certification exceeds the program capacity, as determined in 1) above, additional criteria will be used to select those who are certified. Those criteria include:
 - a. average GPA received in the courses listed in 2) above;
 - b. average GPA earned in all the engineering/math/science courses which have already been completed; and
 - c. the GPA earned during the previous semester.
- 6. Students who have completed all the courses listed in 2) above, but who are not certified will be notified of the decision according to the time table described in 4) above. Such students who are not certified may appeal the decision. The appeal should describe any special circumstances which should be considered. A faculty committee will consider the appeal, the special circumstances described, and trends in the grades (e.g. trends in grades and/or withdrawals, typical course load attempted and typical course load completed) and make a final decision regarding certification. The appeal must be submitted within 2 weeks of the notification described in 4) above. The appeal will be considered and a decision made by February 15, July 1, and September 15, depending on the term.
- Students who are deficient under the University's Educational Policies and Procedures are subject to decertification. When a student is in good academic standing, they will be reconsidered for certification as stated in 2) above.
- 8. Certification Guarantee: Students who have completed the certification courses noted above with an average GPA of at least 3.2, who have an overall GPA of at least 3.2 in the completed courses required in the

<u> Admission to the Major Criteria – Bioengineering Prog</u>	gram
Incoming first-year students, transfer students, and students different major may be admitted to the Bioengineering deg completion of MATH 171 with a C or better or concurrent CHEM 105 with a C or better or concurrent enrollment. To the student must earn a grade of C or better in all courses a academic standing (i.e. a 2.0 or higher GPA each term and GPA of 2.0 at WSU).	gree program upon c enrollment, and o remain in the major and maintain good
Students who are deficient under the University's Academ 39 or whose GPA in Bioengineering courses falls below 2 eligibility of the major. The Bioengineering undergraduate will determine the eligibility for readmission and probation students who are deficient and apply for re-entry into the r	<u>0 are subject to loss o</u> studies committee <u>n conditions for</u>
First Year	
First Term	Credits
Arts [ARTS]	3
CHEM 105 [PSCI]	4
ENGLISH 101 [WRTG]	3
ENGR 120 ¹	2
MATH 171 [QUAN]	4
Second Term	Credits
BIO ENG 140	1
BIOLOGY 107 [BSCI]	4
CHEM 106 or 116	4
HISTORY 105 [ROOT] or 305 [ROOT]	3
MATH 172 <u>or 182</u>	4
Second Year	
First Term	Credits
BIO ENG 205	1
	4
BIOLOGY 106	3
BIOLOGY 106 CHE 201	
CHE 201	-
CHE 201 MATH 220 <u>or 230</u>	2 <u>or3</u> 2
CHE 201	2 <u>or 3</u>
CHE 201 MATH 220 <u>or 230</u> MATH 273 <u>or 283</u>	2 <u>or3</u> 2

	CE 211	3	
	MATH 315	3	
	PHYSICS 202 <u>or 206</u>	4 <u>or 5</u>	
	STAT 370 or 423	3	
	Complete Writing Portfolio		
	Third Year		
	First Term	Credits	
	BIO ENG 310	3	
	BIO ENG 321	3	
	BIO ENG 322 [M]	1	
	CHEM 345	4	
	E E 261	3	
	MBIOS 301	4	
	Second Term	Credits	
	BIO ENG 330	3	
	BIO ENG 340	4	
	CHEM 348	4	
	MBIOS 303 or CHEM 370	4	
	Fourth Year		
	First Term	Credits	
	BIO ENG 350	3	
	BIO ENG 410 [M]	3	
	BIO ENG 440	4	
	Communication [COMM] or Written Communication [WRTG]	3	
	Diversity [DIVR]	3	
	Second Term	Credits	
	BIO ENG 411 [CAPS]	3	
	Bioengineering Electives ²	6	
	ECONS 101 [SSCI] or 102 [SSCI] <u>or 198</u>	3	
	Humanities [HUM]	3	
	Complete BIO ENG Exit Interview		
	Footnotes ¹ 3 credit 300-400 level engineering course may be substituted for ENGR 120 by approve	al of advisor.	
	² Bioengineering Electives (6 credits): Must have a BIO ENG subject, selected from the :		
	ENG 425, 435, 455, 476, or 481.		
Design and	Landscape Architecture (120 Credits)		8-20
Construction		0.1 0 .	
Revise graduation requirements and	Students may apply for certification at the end of spring semester o year. Certification requirements include completion of a minimum		
1	Jour. Commentation requirements merade completion of a minimum	VI 4-T	

equivalents): COM 102 [COMM], ENGLISH 101 [WRTG], FINE ARTS 101, 201, or 202 [ARTS], HIST 105 [ROOT], PSYCH 105 or SOC 101 [SSCI], and SDC 100, 120, 140, each with a grade of C or better and a cumulative GPA of 3.3 or higher.
Students not meeting the admission to major criteria above will be considered until enrollment limits are reached. Average enrollment limits into the second year of the landscape architecture major are 25-30 students. Greater emphasis is given to performance in SDC 100, 120, and 140. Completion of all pre- professional coursework does not guarantee acceptance into the professional program. Students are encouraged to work with SDC advisors to identify an
alternate major should they not be admitted to their primary choice of major. <u>Transfer Students</u> <u>A limited number of transfer students are considered each year. Requirements</u> include completion of the pre-professional courses (or approved equivalents). <u>Emphasis is given to cumulative GPA</u> . A design portfolio may be requested for additional evaluation.
<u>Schedule of Studies</u> The plan below is a suggested path to completion of the landscape architecture degree. Students will meet with an advisor each semester to confirm academic schedule and monitor progress towards graduation.
Students are required to earn a grade of C or better in all major courses required for the degree (HORT 330, 331; LND ARCH 210 , 222, 262, 263, <u>297</u> , 327, 362, 363, 365, 366, 367, 380, 450, 470, 485; SOIL SCI 201 , 368 ; SDC 100, 120, 140, 250, <u>300</u> , 350, 473).
First Year

First Term	Credits	
BIOLOGY 120 [BSCI] ¹	<u>4</u>	
HISTORY 105 [ROOT]	3	
Math prereq, if needed	0-3	
PSYCH 105 [SSCI] or SOC 101 [SSCI]	3	
SDC 100 [ARTS]	3	
SDC 120	3	
Second Term	Credits	
COM 102 [COMM]	3	
ENGLISH 101 [WRTG]	3	
FINE ART 101, 201, or 202	3	
Quantitative Reasoning [QUAN]	3	
SDC 140	3	
SOE 101 [PSCI]	<u>4</u>	
Second Year		
First Term	Credits	
BIOLOGY 120 [BSCI] ¹	4	
LND ARCH 210	3	
Digital Tools Requirement I ²	<u>3</u>	
LND ARCH 222	1	
LND ARCH 262	4	
Quantitative Reasoning [QUAN] ³	<u>3</u>	
SDC 250	3	
<u>SDC 300⁴</u>	<u>1</u>	
Second Term	Credits	
LND ARCH 263	4	
LND ARCH 297	<u>3</u>	
LND ARCH 365	4	
SDC 350 [M]	3	
SOE 101 [PSCI]	4	
SOIL SCI 201	3	
Complete Writing Portfolio		
Third Year		
First Term	Credits	
Digital Tools Requirement II ⁵	<u>3</u>	
HORT 330	3	
Humanities [HUM]	3	
LND ARCH 327	3	

	LND ARCH 362	4	
	LND ARCH 366	4	
	LND ARCH 499	1	
	Second Term	Credits	
	Diversity [DIVR]	3	
	HORT 331	3	
	LND ARCH 363	4	
	LND ARCH 367	3	
	LND ARCH 380 ²⁶	3	
	Fourth Year		
	First Term	Credits	
	Diversity [DIVR]	<u>3</u>	
	Humanities [HUM]	<u>3</u>	
	LND ARCH 470	<u>-</u> 4	
	SOIL SCI 368	3	
	Supportive Electives ^{37}	<u>3</u> 6	
	Second Term	Credits	
	LND ARCH 450 [M]	3	
	LND ARCH 485 [CAPS] [M]	4	
	SDC 473 [M]	3	
	Supportive Electives ³⁷	3	
	Complete Digital Portfolio		
	Footnotes		
	¹ Students are encouraged to complete BIOLOGY 120 [BSCI] and SOE 101 [PSCI] durin however, these are not a requirement for admission to the professional program. If BIOI taken in Fall, BIOLOGY 106 can be substituted in the Spring.		
	² <u>Digital Tools Requirement I (3 credits): Select from I D 197, LND ARCH 210, or approx</u>	ved alternative.	
	³ <u>All first year students must take the ALEKS math placement exam. Prerequisites may b</u> <u>depending on placement score.</u>	<u>e required</u>	
	⁴ <u>Students must complete SDC 300 by the end of the second year.</u>		
	⁵ <u>Digital Tools Requirement II (3 credits): Select from I D 397, LND ARCH 467, SOIL S</u> approved alternative.	<u>SCI 368, or</u>	
	²⁶ If LND ARCH 380 is not available, may use BIOLOGY 372, 462, NATRSSOE 300, 45	54, or 464.	
	³⁷ Supportive electives: At least <u>96</u> credits of 300-400-level courses from ARCH, CST M, LND ARCH, or -SDC, <u>or other courses approved in consultation with LA Program Head</u> fulfill major requirements.		
Design and Construction	Bachelor of Science in Architectural Studies (120 Credits	,)	8-20
Revise graduation	Students may apply for certification at the end of spring semester of	the first	
requirements and	year. Certification requirements include completion of a minimum o		
revise language	semester credits and earning a C or better grade in the following cou	rses: SDC	

Architectural Studies	 101, 201, or 202). Transfer equivalents may be approved by the program. A minimum 2.5 WSU cumulative GPA is required to apply for certification. Students' overall WSU GPA and major specific GPA from the courses listed above are considered in the application process. Certification Guarantee: Students who have completed the certification courses noted above with an average GPA of at least 3.2, who have an overall GPA of at least 3.2 in the completed courses required in the major, and who have not repeated any required courses, are guaranteed certification. Architectural Studies (ARCH) is a four-year program structured into one year of pre-professional coursework and three years of major (professional) coursework. Professional program courses begin in second year fall. Due to the sequential nature of courses there are no spring admits. To be considered for admission into the ARCH program, a student must have completed the following pre-professional coursework (or their approved equivalents): COM 102 [COMM], ENGLISH 101 [WRTG], FINE ART 101, 201, or 202 [ARTS], HIST 105 [ROOT], PSYCH 105 or SOC 101 [SSCI], and SDC 100, 120, 140, each with a grade of C or better and an overall GPA of 3.3
Studies	 Students' overall WSU GPA and major specific GPA from the courses listed above are considered in the application process. Certification Guarantee: Students who have completed the certification courses noted above with an average GPA of at least 3.2, who have an overall GPA of at least 3.2 in the completed courses required in the major, and who have not repeated any required courses, are guaranteed certification. Architectural Studies (ARCH) is a four-year program structured into one year of pre-professional coursework and three years of major (professional) coursework. Professional program courses begin in second year fall. Due to the sequential nature of courses there are no spring admits. To be considered for admission into the ARCH program, a student must have completed the following pre-professional coursework (or their approved equivalents): COM 102 [COMM], ENGLISH 101 [WRTG], FINE ART 101, 201, or 202 [ARTS], HIST 105 [ROOT], PSYCH 105 or SOC 101 [SSCI], and
	above are considered in the application process. Certification Guarantee: Students who have completed the certification courses noted above with an average GPA of at least 3.2, who have an overall GPA of at least 3.2 in the completed courses required in the major, and who have not repeated any required courses, are guaranteed certification. Architectural Studies (ARCH) is a four-year program structured into one year of pre-professional coursework and three years of major (professional) coursework. Professional program courses begin in second year fall. Due to the sequential nature of courses there are no spring admits. To be considered for admission into the ARCH program, a student must have completed the following pre-professional coursework (or their approved equivalents): COM 102 [COMM], ENGLISH 101 [WRTG], FINE ART 101, 201, or 202 [ARTS], HIST 105 [ROOT], PSYCH 105 or SOC 101 [SSCI], and
	Certification Guarantee: Students who have completed the certification courses noted above with an average GPA of at least 3.2, who have an overall GPA of at least 3.2 in the completed courses required in the major, and who have not repeated any required courses, are guaranteed certification. Architectural Studies (ARCH) is a four-year program structured into one year of pre-professional coursework and three years of major (professional) coursework. Professional program courses begin in second year fall. Due to the sequential nature of courses there are no spring admits. To be considered for admission into the ARCH program, a student must have completed the following pre-professional coursework (or their approved equivalents): COM 102 [COMM], ENGLISH 101 [WRTG], FINE ART 101, 201, or 202 [ARTS], HIST 105 [ROOT], PSYCH 105 or SOC 101 [SSCI], and
	noted above with an average GPA of at least 3.2, who have an overall GPA of at least 3.2 in the completed courses required in the major, and who have not repeated any required courses, are guaranteed certification. Architectural Studies (ARCH) is a four-year program structured into one year of pre-professional coursework and three years of major (professional) coursework. Professional program courses begin in second year fall. Due to the sequential nature of courses there are no spring admits. To be considered for admission into the ARCH program, a student must have completed the following pre-professional coursework (or their approved equivalents): COM 102 [COMM], ENGLISH 101 [WRTG], FINE ART 101, 201, or 202 [ARTS], HIST 105 [ROOT], PSYCH 105 or SOC 101 [SSCI], and
	 least 3.2 in the completed courses required in the major, and who have not repeated any required courses, are guaranteed certification. Architectural Studies (ARCH) is a four-year program structured into one year of pre-professional coursework and three years of major (professional) coursework. Professional program courses begin in second year fall. Due to the sequential nature of courses there are no spring admits. To be considered for admission into the ARCH program, a student must have completed the following pre-professional coursework (or their approved equivalents): COM 102 [COMM], ENGLISH 101 [WRTG], FINE ART 101, 201, or 202 [ARTS], HIST 105 [ROOT], PSYCH 105 or SOC 101 [SSCI], and
: - - - - -	repeated any required courses, are guaranteed certification. Architectural Studies (ARCH) is a four-year program structured into one year of pre-professional coursework and three years of major (professional) coursework. Professional program courses begin in second year fall. Due to the sequential nature of courses there are no spring admits. To be considered for admission into the ARCH program, a student must have completed the following pre-professional coursework (or their approved equivalents): COM 102 [COMM], ENGLISH 101 [WRTG], FINE ART 101, 201, or 202 [ARTS], HIST 105 [ROOT], PSYCH 105 or SOC 101 [SSCI], and
]	pre-professional coursework and three years of major (professional) coursework. Professional program courses begin in second year fall. Due to the sequential nature of courses there are no spring admits. To be considered for admission into the ARCH program, a student must have completed the following pre-professional coursework (or their approved equivalents): COM 102 [COMM], ENGLISH 101 [WRTG], FINE ART 101, 201, or 202 [ARTS], HIST 105 [ROOT], PSYCH 105 or SOC 101 [SSCI], and
-	completed the following pre-professional coursework (or their approved equivalents): COM 102 [COMM], ENGLISH 101 [WRTG], FINE ART 101, 201, or 202 [ARTS], HIST 105 [ROOT], PSYCH 105 or SOC 101 [SSCI], and
-	or higher.
	Students not meeting the admission to major criteria above will be considered until enrollment limits are reached. Average enrollment limit into the second year of the architecture major are 45 students. Greater emphasis is given to performance in SDC 100, 120, and 140. Completion of all pre-professional coursework does not guarantee acceptance into the professional program. Students are encouraged to work with SDC advisors to identify an alternate major should they not be admitted to their primary choice of major.
- - - - -	<u>Transfer Students</u> <u>A limited number of transfer students are considered each year. Requirements</u> <u>include completion of the pre-professional courses (or approved equivalents).</u> <u>Emphasis is given to cumulative GPA. A design portfolio may be requested for</u> <u>additional evaluation.</u>
,	<u>Schedule of Studies</u> The plan below is a suggested path to completion of the architectural studies degree. Students will meet with an advisor each semester to confirm academic schedule and monitor progress towards graduation.
-	Students are required to earn a grade of C or better in all major courses required for the degree (ARCH 201, 203, 209, 210, 215, 301, 303, 309, 351, 352, 401, 403, 451; CST M 201, 202, 332, 333; SDC 100, 120, 140, 250, <u>300</u> , 350).
	First Year
	First Term Credits

COM 102 [COMM]	3
ENGLISH 101 [WRTG]	3
Humanities [HUM]	3
Quantitative Reasoning [QUAN] ^{1,2}	<u>3</u>
SDC 100 [ARTS]	3
SDC 120	3
Second Term	Credits
FINE ART 101, 201, or 202 [ARTS]	3
HISTORY 105 [ROOT]	3
MATH pre-req (if needed) or MATH [QUAN] ⁴	3 or 4
PHYSICS 101 [PSCI] ²	<u>4</u>
PSYCH 105 [SSCI] or SOC 101[SSCI]	3
SDC 140	3
Second Year	
First Term	Credits
ARCH 201	5
ARCH 210	3
CST M 201	3
MATH [QUAN] or Elective ⁴	3 or 4
SDC 250	3
SDC 300	<u>1</u>
Second Term	Credits
ARCH 203	5
ARCH 209	3
ARCH 215	3
CST M 202	3
SDC 350 [M]	3
Complete Writing Portfolio	
Third Year	
First Term	Credits
ARCH 301	5
ARCH 309 [M]	3
ARCH 351	3
<u>ARCH 451</u>	<u>3</u>
CST M 332	3
Diversity [DIVR]	3
Second Term	Credits
ARCH 303	5
ARCH 352	3

	Dialogical Spigman [DSCI]	4	
	Biological Science [BSCI] CST M 333	$\frac{4}{3}$	
		-	
	PHYSICS 101 [PSCI]	4	
	Fourth Year		
	First Term	Credits	
	ARCH 401	6	
	Diversity [DIVR]	<u>3</u>	
	ARCH 463 ²	<u>3</u> 3	
	Supportive Electives ³	<u>34</u>	
	Second Term	Credits	
	ARCH 403 [CAPS]	6	
	ARCH 531 ²	0 or 3	
	ARCH 540 ²	0 or 3	
	Biological Sciences [BSCI]	3 or 4	
	Humanities [HUM]	<u>3</u>	
	Supportive Electives ³	3	
	 Footnotes ¹ All freshmen must take the math placement exam. Completion of MATH 108 with a grade of a minimum ALEKS math placement score of 75%, or passing MATH 140, 171 or 202 is require PHYSICS 101 [PSCI]. MATH 108 does not fulfill the University [QUAN] requirement for grasstudents who do not take MATH prerequisites may need additional credits to meet the Universiminum of 120 credits. ² Math and Physics are not required for admission to the major (professional program, beginning year); however, Math and Physics are course prerequisites for ARCH 351/352 and CSTM 332 third year. ² ARCH 463 is required for students intending to enter the M. Arch program. Students not intenenter the M. Arch program may take ARCH 463 or an additional supportive elective in its place 531 and 540 may be taken and reserved for graduate credit towards the accelerated M. Arch prograduat and students must have a 3.0 GPA over the last 60 hours of undergraduate work to be eligible. ³ Supportive Electives: At least 67 credits of any 300-400-level courses from ARCH, CST M, D D, LND ARCH, or SDC, or other courses approved in consultation with ARCH Program Head to fulfill major requirements. 	red for aduation. sity <u>g in second</u> /333 in the ding to we. ARCH ogram if a ste degree, ESIGN, I	
Human Development Revise graduation requirements and revise language for Rule 53 for Bachelor of Arts in Human Development - General Option	 Human Development - General Option (120 Credits) Students can certify be admitted as a Human Development major after completing 24 credits and earning a GPA of at least 2.0 2.35. A cumulation of 2.6 or better in all H D courses that apply to the option, including substais required to (a) maintain certification admission in the major; and (b) can the Bachelor of Arts degree in Human Development. Of the 42-44 H D correquired for the major, a minimum of 21 must be taken at WSU. First Year 	stitutions omplete	8-20
	First Year First Term	Credits	
		_	
	Arts [ARTS]	3	

H D 101 [SSCI]	3
Natural Sciences [BSCI] , <u>or [</u>PSCI], or [SCI]¹	3
Quantitative Reasoning [QUAN]	3
Written Communication [WRTG]	3
Second Term	Credits
Communication [COMM] or Written Communication [WRTG]	3
H D 200	2
HISTORY 105 [ROOT]	3
Natural Sciences [BSCI] , or [PSCI], or [SCI] (with lab) ¹	4
Minor, Certificate, and/or General Electives ²	3
Second Year	
First Term	Credits
H D 204	3
H D 220	3
Humanities [HUM]	3
Minor, Certificate, and/or General Electives ²	6
Second Term	Credits
H D 306, 307, or 308	3
H D 320, 334, 341, 342, 430, 480, or 482	3-4
H D 350 [DIVR]	3
Minor, Certificate, and/or General Electives ²	6
Complete Writing Portfolio	
Third Year	
First Term	Credits
H D 300, 301, 302, or 360	3
H D 306, 307, or 308	3
H D 310 [M]	3
Minor, Certificate, or General Electives ²	6
Second Term	Credits
H D 403, 405, 406, or 479	3
Minor, Certificate, or General Electives ²	12
Fourth Year	
First Term	Credits
H D 385 <u>, 445</u> , or 497 ^{3,4}	3
H D 496 or Elective ³	1
Integrative Capstone [CAPS]	3
Minor, Certificate, or General Electives ²	8
Second Term	Credits
H D 410 [M]	3
H D 446 or 498 ^{5,6}	3-6

	Minor, Certificate, or General Electives 9	
	Footnotes ¹ For a total of 7 credits—one Biological Science [BSCI] and one Physical Science [PSCI] course, including one lab course. , or 8 credits of [SCI] designated courses. (SCIENCE 101 [SCI] is offered Fall	
	 semester and is a prerequisite for SCIENCE 102 [SCI], which is offered Spring semester.) ² Students strongly encouraged to pursue a minor or certificate. Elective credits should include sufficient 300-400-level courses to meet University requirement of 40 upper-division credits. 	
	 ³ H D 385 and 496 are required for Vancouver students only and must be completed before H D 498 or 446. ⁴ H D 497 is required for Pullman and Global students only and must be completed prior to H D 446 or 	
	 498. ⁵ All H D majors complete a practicum/internship experience. H D 446 is reserved for students completing the certificate in Early Childhood Education and requires a half-day each day, 5 days a week for a semester and can be put into the schedule any time after taking H D 342. For Pullman and Global students HD 445 must be taken before HD 446 but no more than two semesters before taking the practicum. For Vancouver students H D 385 or 445 must be taken before completion of H D 446. All other H D majors complete H D 498. ⁶ The internship course (H D 498) can be taken during the summer semester of the junior or senior year. 	
	For Pullman and Global students, H D 497 must be taken before H D 498 but no more than two semesters before taking the internship. For Vancouver students, H D 385 and H D 496 must be taken before completion of H D 498 for Vancouver students. Vancouver students are required to take 3 credits of H D 498. Pullman and Global students must complete 4 credits of H D 498.	
Human Development	Adolescence	8-20
Revise requirements and revise language for Rule 53 for HD undergraduate certificate in Adolescence.	The department of Human Development offers a Certificate in Adolescence. The certificate reflects a high standard of training and experience in this specific area of human development. Non-human development majors are required to complete any prerequisites for the internship requirement. The requirements include 6 hours credits in H D core courses that support the area of certification, 15 hours credits in required and optional courses and 4 hours credits of internship that reflect the area of certification. Students must maintain an overall GPA of 2.5 2.6 in those courses that count toward the certificate.	
	Certificate requirements: Required courses: H D 202, <u>220,</u> 302, <u>307,</u> 408, 4 20, 498, one other 300-400 level H D course, H D 479 or 480, and one from PSYCH 230, 265, SOC 360, or 362.	
Human Development	Gerontology	8-20
Revise requirements and revise language for Rule 53 for HD undergraduate certificate in Gerontology.	The department of Human Development offers a Certificate in Gerontology. The certificate reflects a high standard of training and experience in the specific area of human development. Non-human development majors are required to complete any prerequisites for the internship requirement. The requirements include 6 hours credits in H D core courses that support the area of certification, 15 hours credits in required and optional courses, and 4 hours credits of internship that reflect the area of certification. Students must maintain an overall GPA of $2.52.6$ in those courses that count toward the certificate.	
	Certificate requirements:	

	Required courses: BIOLOGY 140; H D 203 or 305<u>308</u> or 405 ; PSYCH 490; SOC 351 or 356. Elective Courses, 6 credits minimum from the fol BIOLOGY 233; HBM 375, 497; H D 203 , 305<u>308</u> (if not used in require KINES 264, 361; MGMT 101, 301; PHIL 103, 365; PSYCH 320, 363, 4 not used in required); SOC 250, 351, 356 (if not used in required); H D 498.	lowing: ed), 360; 490 (if	
Human Development Revise requirements for minor in General Human Development	General Human Development The General Human Development minor requires 18 hours credits and a cumulative GPA of 2.6 or better in coursework used to fulfill this minor Required coursework includes H D 101, 204, 220, and 9 additional H D hours credits selected from H D 300, 301, 302, 306, 307, 308, 320, 334, 350, 360, 385, 403, 405, 406, 408, 430, 479, 480, or 482, and a A maxim credits of H D 485 may apply to the upper-division requirement of the m Coursework must include a minimum of 9 hours credits of 300-400-leve taken in residence at WSU or through WSU-approved education abroad educational exchange courses.	elective , 341, mum of 3 <u>ninor</u> . el courses	8-20
Integrated Plant Sciences Revise graduation requirements and language for Rule 53 for Bachelor of Science in Integrated Plant Sciences - Field Crop ManagementField Crop Management (120 Credits)Field Crop Management major is ideal for students interested in agronomy crop production, and plant, soil, and pest management. Crop scientists (or agronomists) are involved in improving food, feed, and fiber production. Graduates qualify for careers in agribusiness, corporate and technical farm management, professional consulting, research, and sales positions.A student may be admitted to the Field Crop Management major upon making their intention known to the department.		or .m	8-20
	First Year First Term CHEM 101 [PSCI] or 105 [PSCI] Communication [COMM] (COM 102 [COMM] or H D 205 [COMM] recommended) ECONS 101 [SSCI] ENGLISH 101 [WRTG] HISTORY 105 [ROOT] HORT / CROP SCI 102 MATH 140 [QUAN] Second Term Arts [ARTS] CHEM 102 or 106 ECONS 101 [SSCI] ENGLISH 101 [WRTG]	Credits 4 <u>3 or 4</u> <u>3</u> <u>3</u> <u>3</u> <u>3</u> <u>4</u> Credits <u>3</u> <u>4</u> <u>3</u> <u>4</u> <u>3</u> <u>3</u> <u>4</u> <u>3</u> <u>4</u> <u>3</u> <u>3</u> <u>4</u> <u>3</u> <u>3</u> <u>4</u> <u>3</u> <u>3</u> <u>3</u> <u>3</u> <u>3</u> <u>3</u> <u>3</u> <u>3</u>	

HISTORY 105 [ROOT]	<u>3</u>	
HORT / CROP SCI 202	4	
Second Year		
Second Year		
First Term	Credits	
[COMM] Course (COM 102 [COMM] or H D 205 [COMM]	3 or 4	
recommended)	4	
BIOLOGY 106 [BSCI], 107 [BSCI], or 120 [BSCI]	4	
Humanities [HUM] SOIL SCI 201	3 3	
SOIL SCI 202 STAT 212 IOLIANI	$\frac{1}{4}$	
STAT 212 [QUAN] Electives	$\frac{4}{24}$	
Liectives	<u>24</u>	
Second Term	Credits	
Arts [ARTS]	<u>3</u>	
BIOLOGY 106, 107, or 120	4	
Diversity [DIVR]	<u>3</u>	
ENTOM 351	3	
<u>MATH 140¹</u>	<u>4</u>	
STAT 212	4	
Electives	3	
Complete Writing Portfolio		
Third Year		
First Term	Credits	
CROP SCI 305	3	
ECONS 350^{+2}	3	
ENTOM 343 [M]	3	
Major Electives ²³	3	
Electives	3	
Second Term	Credits	
CROP SCI 302	3	
CROP SCI 495, 498, or 499	<u>31</u>	
Diversity [DIVR]	3	
ENTOM 351	<u>3</u>	
Humanities [HUM]	<u>3</u>	
Electives	6 <u>4</u>	
Fourth Year		
First Term	Credits	
CROP SCI 403	3	

1			
	CROP SCI 411 [M] ^{3<u>4</u>}	3	
	Integrative Capstone [CAPS]	3	
	PL P 429	3	
	Electives	<u>3</u>	
	Major Electives ²³	3	
	Second Term	Credits	
	CROP SCI 412	1	
	Integrative Capstone [CAPS]	<u>3</u>	
	IPM 452	2	
	SOIL SCI 441	3	
	Electives	6	
	Major Electives ²³	3	
	Fastratas		
	Footnotes ¹ MATH 106 and 108 can be taken as an alternative to MATH 140.		
	$\frac{1}{42}$ ECONS 352 can be taken in the spring as an alternative to ECONS 350.		
	²³ Major Elective (9 Credits): AFS 302 [M]; CROP SCI 360, 401 [M], 445 [M], 480, 4 ENTOM 361, 460; HORT 357; SOIL SCI 442; and/or consult with your advisor. No of 495, 498, or 499 may be used toward Major Elective credits.		
	³⁴ HORT 416 can be taken in the spring as an alternative to CROP SCI 411 [M]. Howe courses are required therefore one elective should have [M] designation.	ver, two [M]	
I			0.20
Integrated Plant Sciences	<u>BS in</u> Viticulture and Enology (120 Credits)		8-20
Revise graduation	The Viticulture and Enology major degree was created for student	ts interested in	
requirements and	wine-grape growing and winemaking, as well as contributing to cr		
revise language	and development opportunities in the wine industry. This program		
for Rule 53 for	technical, scientific, and practical experience needed to gain the en		
Bachelor of	for producing high quality grapes and premium table wines. It pre	1	
Science in Integrated Plant	for successful careers in the wine industry in Washington and bey	ond.	
Sciences -	A student may be admitted to the Viticulture and Enology degree	program upon	
Viticulture and	making their intention known to the department.	<u> </u>	
Enology on WSU			
Tri-Cities campus.	First Year		
	First Term	Credits	
	CHEM 101 [PSCI] or 105 [PSCI]	4	
	[COMM] Course (COM 102 [COMM] or H D 205 [COMM]	3 or 1	
	recommended)	3 or 4	
	recommended) HISTORY 105 [ROOT]	3 or 4 3	
	recommended)		
	recommended) HISTORY 105 [ROOT]	3	
	recommended) HISTORY 105 [ROOT] HORT / CROP SCI 102	3 3	

ENGLISH 101 [WRTG]	3
HORT / CROP SCI 202	4
STAT 212 [QUAN]	4
Second Year	
First Term	Credits
BIOLOGY 106 [BSCI] or 120 [BSCI]	4
CHEM 345	4
Communication [COMM] (COM 102 [COMM] or H D 205 [COMM]	<u>3 or 4</u>
recommended)	
ECONS 101 [SSCI] or 102 [SSCI]	3
VIT ENOL 113	3
Electives	3
Second Term	Credits
Arts [ARTS]	3
BIOLOGY 107	4
Diversity [DIVR]	3
Humanities [HUM]	3
SOIL SCI 201	3
Complete Writing Portfolio	
Third Year	
First Term	Credits
BIOLOGY 420	3
ENTOM 343 [M]	3
HORT/VIT ENOL 313	3
$\underline{\text{MBIOS 101}}^{1}$	<u>4</u>
MBIOS 303	4
PL P 300 ⁴²	2
Second Term	Credits
ENTOM 351	3
HORT/VIT ENOL 413	3
IPM 452	2
MBIOS 303	<u>4</u>
MBIOS 305	3
Specialization Electives ²	3
Electives	<u>3</u>
Third Term	Credits
(Summer Session) HORT/VIT ENOL 399 or FS/VIT ENOL 496	2
Fourth Year	

	First Term	Credits		
	FS/VIT ENOL 465	3		
	HORT 418 [M]	3		
	HORT/VIT ENOL 326	3		
	HORT/VIT ENOL 409	1		
	HORT/VIT ENOL 435	<u>3</u>		
	Specialization Electives ²	3		
	Elective	<u>1</u>		
	Second Term	Credits		
	FS/VIT ENOL 422	3		
	FS/VIT ENOL 435	3		
	HORT 416 ³	3		
	HORT 425 [CAPS] [M]	3		
	VIT ENOL 433 [CAPS] [M]	<u>3</u>		
	VIT ENOL/HORT 440	<u>3</u>		
	Specialization Electives ²	3		
	Footnotes			
	¹ <u>MBIOS 305 can be taken as an alternative to MBIOS 101.</u>			
	$\frac{42}{22}$ PL P 429 can be taken as an alternative, but PL P 300 is recommended.			
	 ²³ Approved Specialization Electives courses include (9 credits): AGTM 315; BIOLOGY 421; 6 220/222; CROP SCI 305, 403; ECONS 351; ENVR SCI 486; FS 303, 416, 423, 460, 462, 47 ENOL 466; GEOLOGY 322, 323; HBM 350, 358, 480; HORT 251 421 [M], 495, 499; MAT MBIOS 301,306; MKTG 360; PHYSICS 101; SOIL SCI 302 [M], 374, 414, 415, 441, 442, 4 approved by advisor. Approved courses include HBM 350, 358; HORT 310, 320, 421, 495, 495, 496 	2 0; FS/VIT H-140; 68; or as 499 <u>;</u>		
	MATH 106, 140; MBIOS 301, 306; MKTG 360; PHYSICS 101; SOE 322; SOIL SCI 302 [M 441, 468, or as approved by advisor.	<u>1], 374,</u>		
	34 CROP SCI 411 [M] can be taken in the fall as an alternative to HORT 416.			
Kinesiology and Educational Psychology	Bachelor of Science in Kinesiology - Sport Science <u>Kinesiolog</u> Credits)	<u>zy</u> (120	8-20	
Bachelor of Science in Kinesiology Change name of major from Sport Science to Kinesiology; change language	The Sport Science Kinesiology major leads to the Bachelor of Science in Kinesiology. The major provides an interdisciplinary understanding of h movement through the study of anatomy, physiology, movement analysi biomechanics, motor learning, exercise physiology, and sport psycholog ethics. Sport Science Kinesiology provides a foundation for personal traic certification, health and fitness club employment, teaching, coaching, ph therapy, and sports medicine.	uman s, y and ining		
in schedule of studies to accommodate Rule 53.	Because of the high demand for this program, students must meet minim certification admission requirements, as listed below, in order to apply to Sport Science Kinesiology program. Applicants who meet the minimum requirements are eligible for consideration, but not assured admission. Enrollment is limited and admission competitive. Admission application are September 1st to 30th, and February 1st to 28th, with certification ad effective the following term. Candidates must complete formal admission	o the dates mission		

	procedures and be certified in <u>admitted to</u> the <u>Sport Science</u> <u>Kinesiology</u> major prior to taking any 300- or 400-level courses. The following minimum criteria must be met for consideration for admission:	
	 Minimum Certification Admission Criteria 1. Completion of at least 24 semester hours credits of coursework. 2. A cumulative GPA of 2.75. 3. A grade of C or better in each of the following courses: KINES 199 and 	
	KINES 262. 4. A written statement (maximum of two pages) describing relevant work experience/involvement in extracurricular activities related to Sport Science <u>Kinesiology</u> .	
	A grade of C or better must be obtained in all departmental core courses, elective eore cognate courses, and in UCORE courses used as prerequisites for departmental courses listed on this schedule of studies. All letter-graded courses specifically required for this major must be taken for a letter grade (i.e., not pass, fail).	
Teaching and	Elementary Education Teacher Certificate (128 Credits)	8-20
Learning Revise graduation requirements for Bachelor of Arts in Education - Elementary Education Certificate Program	Candidates for the undergraduate elementary education teacher certificate program will satisfy degree requirements of the Department of Teaching and Learning. The degree will be the Bachelor of Arts. The student should include the following course work within UCORE selections to satisfy prerequisite, degree, and admission to teacher preparation requirements. This course schedule does not include an add-on endorsement. During the freshman year, students must qualify to enroll in MATH 251, and begin the University Writing Portfolio.	
	First Year	
	First Term Credits	
	ENGLISH 101 [WRTG] 3	
	H D 101 [SSCI] 3	
	MATH 251 3	
	MUS 153 [ARTS] or Arts [ARTS] 3	
	Science Requirement ¹ 4	
	Second Term Credits	
	Endorsement Course ² 3	
	HISTORY 105 [ROOT] 3	
	HISTORY 110 [HUM] or 111 [HUM] 3	
	MATH 252 [QUAN] 3	
	Science Requirement ¹ 4	
	Second Year	

First Term	Credits	
Endorsement Course ²	3	
ENGLISH 201 [WRTG], 301 [WRTG], or 402 [WRTG]	3	
POL S 101, ECONS 101, or ECONS 102	3	
Science Requirement ¹	4	
TCH LRN 301	3	
Complete WEST-B (if minimum required scores on SAT or ACT are		
not met)		
Second Term	Credits	
Endorsement Courses ²	6	
HISTORY 120 [DIVR]	3	
Science Requirement ¹	4	
TCH LRN 307	3	
Apply for admission to the major		
Certify in Major		
Complete Writing Portfolio		
Third Year		
First Term	Credits	
ED PSYCH 401	3	
TCH LRN 320 or 321	3	
TCH LRN 352	3	
TCH LRN 402	1	
TCH LRN 445	2	
TCH LRN 483 ³	3	
Second Term	Credits	
Endorsement Course ²	3	
<u>SPEC ED 420</u>	<u>3</u>	
TCH LRN 306 [M] or 322 [M]	3	
TCH LRN 310 [M]	2	
TCH LRN 371	3	
TCH LRN 390	3	
TCH LRN 405	1	
Fourth Year		
First Term	Credits	
Endorsement Course ²	3	
SPEC ED 420	3	
TCH LRN 330	3	
TCH LRN 385	3	
<u>TCH LRN 390</u>	<u>3</u>	

TCH LRN 413	3
TCH LRN 490 [CAPS]	3
Second Term	Credits
TCH LRN 415	16
Footnotes	
 ¹ Science Requirement – choose one of two options: Option 1 two from: ASTRONOM 135 [PSCI], BIOLOGY 102 [BSCI PHYSICS 101 [PSCI], SOE 101 [PSCI], or SOE 110 [BSCI BIOLOGY 102 [BSCI] or 106 [BSCI], plus two from: ASTI PHYSICS 101 [PSCI], SCIENCE 101 [SCI], SCIENCE 102] or 106 [<u>BSCI</u>], CHEM 101 [<u>PSCI</u>],]; Option 2) SOE 101 [PSCI], and RONOM 135 [<u>PSCI</u>], CHEM 101 [<u>PSCI</u>],
² Endorsement Courses: Students seeking a BA in Elementary <u>semester credits</u> hours in an endorsable area. Some required	
endorsement area. See Specific Subject area requirements.	