# 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 <br> Date |
| :---: | :---: | :---: |
| Agricultural and <br> Food Systems <br> Revise graduation requirements, correct a prefix, and revise <br> language for Rule <br> 53 for Bachelor of <br> Science in <br> Agricultural and <br> Food Systems - <br> Agricultural <br> Education. | Agricultural Education (129 $\mathbf{1 2 5}$ Credits) <br> 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. <br> 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. <br> A student may be admitted to an AFS major upon making their intention known to the department. <br> First Year | 8-20 |



| TCH LRN 465 | 3 |
| :---: | :---: |
| TCH LRN 466 | $z$ |
| 300-400-level Agricultural Elective ${ }^{2}$ | 3 |
| Second Term | Credits |
| AFS 401[CAPS] | 3 |
| AGTM 402 | 3 |
| ED PSYCH 468 | 3 |
| TCH LRN 464 | $\underline{3}$ |
| TCH LRN 465 | $\underline{3}$ |
| TCH LRN 466 | $\underline{2}$ |
| TCH LRN 467 [M] | 3 |
| TCH LRN 469 | $z$ |
| TCH LRN 470 | 3 |
| 300-400-level Agricultural Elective ${ }^{2}$ | $\underline{3}$ |
| 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 | $z$ |
| ED PSYCH 468 | $\underline{3}$ |
| TCH LRN 467 [M] | $\underline{3}$ |
| TCH LRN 469 | $\underline{2}$ |
| TCH LRN 470 | $\underline{3}$ |
| 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 admission to the Teacher Education Program. Students whe take ENGLISH 302 will need to take an additional [WRTG] or [COMM] eotrse. BIOLOGY 106 is recommended. |  |
| 2 The-Agricultural upper-division 300-400-level Electives (minimum 9 credits)- required for teacher certification in Agricultural Education. Any 300-400-level course with one of the following CAHNRS subjects: AGTM, AFS, ANIM SCI, CROP SCI, ECONS, ENTOM, ENIVR SCI, FS, HORT, IPM, LND ARCH, NATRS, PL P, SOE, SOIL SCI, or VIT ENOL not used to satisfy major requirements can be accepted to fulfill this requirement, per advisor approval. AG ED 430 and/or 431 are suggested for CASE Certification. |  |
| ${ }^{43}$ AFS Core Systems Electives: AGTM 305, 310, ANIM SCI 464 [M], 472 [M], 474 [M], BIOLOGY 372 [M], CROP SCI 302, ECONS 351, HORT 320, NATRS SOE 300, SOIL SCI 368, or other systems courses approved by your advisor. |  |
| ${ }^{34}$ ECONS 351 and 352, which is are only offered in the spring, may be used as an alternative for ECONS 350. |  |




|  | ${ }^{21}$ MATH 106 may be taken the first semester as a prerequisite to other MATH courses and as a corequisite to CHEM 105. MATH 108 may also be needed. In addition to either MATH 140 or 171, a statistics course is highly recommended, and for some programs, required. <br> ${ }^{32}$ Students are encouraged to pursue a minor in other areas of more in-depth science minor. <br> ${ }^{43}$ An elective may be substituted for PHYSICS 101 and 102 if it is not required for entrance to a graduate or professional program. <br> ${ }^{54}$ Degree Program Electives ( 8 credits required): Approved courses are BIOLOGY 315, 321 [M], 324, $350,352,353,393$ [M], 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]. |  |
| :---: | :---: | :---: |
| Biological <br> Sciences <br> Revise graduation <br> requirements and <br> Rule 53 language <br> for Bachelor of <br> Science in <br> Biology - Basic <br> Medical Sciences <br> Plan B. | Biology - Basic Medical Sciences Plan B (120 Hours) <br> At least 40 of the 120 credits for the degree must be at the $300-400$-level. <br> Candidates for the 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 semester credits and 2.0 GPA . <br> 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 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. <br> First Year <br> First Term <br> Credits <br> Arts [ARTS] <br> BIOLOGY 106 [BSCI] <br> CHEM 105 [PSCI] ${ }^{1}$ <br> HISTORY 105 [ROOT] | 8-20 |



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| :---: | :---: | :---: |
| Biological Sciences <br> Revise graduation requirements and Rule 53 language for Bachelor of Science in Biology - Ecology and Evolutionary Biology Option. | Ecology and Evolutionary Biology (120 Credits) <br> Candidates for the 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 semester credits and 2.0 GPA. <br> 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 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. | 8-20 |



|  | Integrative Capstone [CAPS] <br> Program Option Courses or Electives ${ }^{3}$ <br> Second Term <br> Credits <br> BIOLOGY 395, 403, or 405 <br> Program Option Courses or Electives ${ }^{2,3}$ <br> Complete School of Biological Sciences Exit Survey <br> Footnotes <br> ${ }^{1}$ MATH 106 may be taken as a pre-/co-requisite to CHEM 105 and other MATH courses. MATH 108 may also be needed. <br> ${ }^{2}$ 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. <br> ${ }^{3}$ All biology majors must complete 21 semester credits of biological coursework including 15 upperdivision 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. $107,301,370[\mathrm{M}]$ or 372 [M], one from 395,403 , or 405 ), 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 <br> ${ }^{4}$ 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 <br> Sciences <br> Revise graduation requirements and Rule 53 language for Bachelor of Science in Biology Education Option | Biology - Education Option (120 Credits) <br> Candidates for the 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 semester credits and 2.0 GPA . <br> 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 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 | 8-20 |



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| :---: | :---: | :---: |
| Biological Sciences Revise graduation requirements and Rule 53 language | Biology - Entomology Option (120 Credits) <br> Candidates for the Bachelor of Science in Biology must fulfill the University and the College of Arts and Sciences requirements for graduation as described in the | 8-20 |


| for Bachelor of Science in Biology Entomology Option | WSU general catalog. Admission to the major requires com |
| :---: | :---: |
|  | semester credits and 2.0 GPA. |
|  | Honors students complete honors requirements in place of UCORE |
|  | quirements. 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 |
|  | 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. |
|  | First Year |
|  | First Term Credits |
|  | BIOLOGY 106 [BSCI] |
|  | CHEM 105 [PSCI] ${ }^{1}$ |
|  | Communication [COMM] or Written Communication [WRTG] |
|  | HISTORY 105 [ROOT] 3 |
|  | Second Term Credits |
|  | BIOLOGY 107 4 |
|  | CHEM 106 |
|  | ENGLISH 101 [WRTG] 3 |
|  | MATH 140 [QUAN] or 171 [QUAN] ${ }^{1}$ [ ${ }^{\text {a }}$ |
|  | Second Year |
|  | First Term Credits |
|  | Arts [ARTS] 3 |
|  | CHEM 345 |
|  | ENTOM 343 [M] 3 |
|  | PHYSICS 101 or 201 |
|  | Second Term Credits |
|  | BIOLOGY 301 |


|  | Diversity [DIVR] <br> PHYSICS 102 or 202 <br> Program Option Elective ${ }^{2}$ <br> Complete Writing Portfolio <br> Third Year <br> First Term <br> BIOLOGY 322 [M], 350, or 418 <br> BIOLOGY 370 [M] or 372 [M] <br> Humanities [HUM] <br> Electives ${ }^{3}$ <br> Second Term <br> Arts [ARTS], Humanities [HUM], or Social Sciences [SSCI] CHEM 370 or MBIOS 303 <br> Social Sciences [SSCI] <br> STAT 212, 412, or PSYCH 311 <br> Program Option Elective ${ }^{2}$ <br> Fourth Year <br> First Term <br> BIOLOGY 332 [M] or 420 <br> Foreign Language, if needed, and/or Electives ${ }^{3,4}$ <br> Second Term <br> BIOLOGY [CAPS] or HONORS $450^{5}$ <br> BIOLOGY 395, 4032 or 405 <br> Foreign Language, if needed, and/or Electives ${ }^{3,4}$ <br> Complete School of Biological Sciences Exit Survey <br> Footnotes <br> ${ }^{1}$ MATH 106 may be taken as a pre-/co-requisite to CHEM 105 and other MATH may also be needed. <br> ${ }^{2}$ Entomology Program option electives include 6 credits of $300-400$-level ENTO ENTOM 343. <br> ${ }^{3}$ Additional electives should be selected in consultation with a biology advisor. A complete 21 semester credits of biological coursework including 15 upper-divisi must be a BIOLOGY prefix taken in residence at WSU. Approved courses inclu BIOLOGY and ENTOM courses except those used to fulfill core requirements $301,370[\mathrm{M}]$ or 372 [M], one from 395,403 , or 405 , BIOLOGY [CAPS] or HO courses approved by advisor. A maximum of 4 credits of coursework graded S/F fulfilling departmental requirements or program options and must be approved by <br> ${ }^{4}$ Two years of high school foreign language or at least two semesters of college-l required by the College of Arts and Sciences for graduation. <br> ${ }^{5}$ Students in Honors College complete HONORS 450 in lieu of a BIOLOGY [CA | 3 4 3 <br> Credits <br> 4 <br> 4 <br> 3 <br> 5 <br> Credits <br> 3 <br> 3 or 4 <br> 3 <br> 3 or 4 <br> 3 <br> Credits <br> 3 or 4 <br> 13 <br> Credits <br> 3 <br> 3 <br> 10 <br> TH 108 <br> cluding <br> jors must of which vel 06, 107, and any toward <br> anguage are |  |
| :---: | :---: | :---: | :---: |
| Biological Sciences Revise graduation requirements and | Biology - General Option (120 Credits) <br> Candidates for the Bachelor of Science in Biology must fulfi the College of Arts and Sciences requirements for graduation | sity and din the | 8-20 |



|  | CHEM 370 or MBIOS 303 <br> PHYSICS 101 or 201 <br> Social Sciences [SSCI] <br> Complete Writing Portfolio <br> Third Year <br> First Term <br> Credits <br> Diversity [DIVR] <br> PHYSICS 102 or 202 <br> Foreign Language, if needed, or Electives ${ }^{2}$ <br> Program Option Courses or Electives ${ }^{3}$ <br> 5 or 6 <br> Second Term <br> Credits <br> Arts [ARTS], Humanities [HUM], or Social Sciences [SSCI] <br> BIOLOGY 395, 403, or 405 <br> Foreign Language, if needed, or Electives ${ }^{2}$ <br> Program Option Courses or Electives ${ }^{3}$ <br> Fourth Year <br> First Term <br> Credits <br> BIOLOGY 352 or MBIOS 401 <br> Program Option Courses or Electives ${ }^{3}$ <br> Second Term <br> Credits <br> BIOLOGY [CAPS] or HONORS $450^{4}$ <br> STAT 212, 412, or PSYCH 311 <br> Program Option Courses or Electives ${ }^{3}$ <br> Complete School of Biological Sciences Exit Survey <br> Footnotes <br> ${ }^{1}$ MATH 106 may be taken as a pre-/co-requisite to CHEM 105 and other MATH courses. MATH 108 may also be needed. <br> ${ }^{2}$ 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. <br> ${ }^{3}$ Biology General Program option courses should be selected in consultation with a biology advisor and include coursework to fulfill the University requirement of 40 upper division credits. All biology majors must complete 21 semester credits of biological coursework including 15 upper-division credits, 6 of which must be a BIOLOGY subject (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, $370[\mathrm{M}]$ or $372\lceil\mathrm{M}]$, one from 395,403 , or 405 , BIOLOGY [CAPS] or HONORS 450), 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. <br> ${ }^{4}$ Students in Honors College complete HONORS 450 in lieu of a BIOLOGY [CAPS] course. |  |
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| Biological <br> Sciences <br> Revise graduation requirements and Rule 53 language for Bachelor of | Biology - Plant Biology Option (120 Credits) <br> Candidates for the Bachelor of Science in Biology must fulfill the University and the College of Arts and Sciences requirements for graduation as described in the | 8-20 |



|  |  <br> Footnotes <br> ${ }^{1}$ MATH 106 may be taken as a pre-/co-requisite to CHEM 105 and other MATH courses. MATH 108 may also be needed. <br> ${ }^{2}$ 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. <br> ${ }^{23}$ Plant Biology Program option courses should be selected in consultation with a biology advisor and include coursework to fulfill the University requirement of 40 upper division credits. 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, 370 [M] or 372 [M], one from 395, 403, or 405, BIOLOGY [CAPS] or HONORS 450), 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. <br> ${ }^{34}$ Students in Honors College complete HONORS 450 in lieu of a BIOLOGY [CAPS] course. |  |
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| Biological <br> Sciences <br> Revise graduation requirements and Rule 53 language | Biology - Pre-Physical Therapy / Pre-Occupational Therapy / Pre-Physician Assistant Option (120 Credits) <br> Candidates for the Bachelor of Science in Biology must fulfill the University and the College of Arts and Sciences requirements for graduation as described in the | 8-20 |



| 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 ${ }^{2,3,4,5}$ | 3 or 4 |
| PHYSICS 102 or 202 | 4 |
| PSYCH 333 | 3 |
| Second Term | Credits |
| Arts [ARTS] | 3 |
| BIOLOGY 370 [M] or 372 [M] | 4 |
| H D 101 or PSYCH 361 ${ }^{2,3,64}$ | 3 |
| Foreign Language, if needed, and/or Electives ${ }^{5,6}$ | 6 |
| Fourth Year |  |
| First Term | Credits |
| ENGLISH 402 [WRTG] | 3 |
| Program Emphasis Requirements or Electives ${ }^{\text {2,3,4,6 }}$ | 12 |
| Second Term | Credits |
| BIOLOGY [CAPS] or HONORS $450{ }^{7}$ | 3 |
| BIOLOGY 395, 403, or 405 | 3 |
| Program Emphasis Requirements or Electives ${ }^{\text {2,3,4,6 }}$ | 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. MATH 108 may also be needed. |  |
| ${ }^{2}$ Pre-Occupational Therapy Program emphasis (13 credits) includes ANTH 203, BIOLOGY 220, BIOLOGY 393 [M], COM 102, H D 101. |  |
| ${ }^{3}$ Pre-Physical Therapy Program emphasis ( $8-9$ credits) includes BIOLOGY 393 [M] or 490 [M], KINES 380 or BIOLOGY 350 or BIOLOGY 352, PSYCH 361 or H D 101. |  |
| ${ }^{4}$ Pre-Physician Assistant Program emphasis (14-15 credits) includes CHEM 370 or MBIOS 303, MBIOS 304 or 306, MBIOS 305, PSYCH 361 or H D 101. Students in this emphasis will also need to complete a BIOLOGY [M] course to fulfill the University requirement of $2[\mathrm{M}]$ courses. |  |
| ${ }^{5}$ 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. |  |
| ${ }^{6}$ Pre-Physical Therapy / Pre-Occupational Therapy / Pre-Physician Assistant Program emphasis courses should be selected in consultation with a biology advisor and include coursework to fulfill the University requirement of 40 upper division credits. In addition to core biology courses (BIOLOGY 106, 107, 301, $370[\mathrm{M}]$ or 372 [M], one from 395, 403, or 405, BIOLOGY [CAPS] or HONORS 450), 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 program electives include CHEM 370, KINES 380, MBIOS 303, 304, 305, 306, PHIL 365, and 200-400-level BIOLOGY courses except those 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. <br> ${ }^{7}$ Students in Honors College complete HONORS 450 in lieu of a BIOLOGY [CAPS] course. |  |
|  |  |PHYSICS 102 or 2024Credits3

BIOLOG3
Foreign Language, if needed, and/or Electives ${ }^{5,6}$ ..... 6FirENGLISH 402 [WRTG]3Second TermCredits
BIOLOGY [CAPS] or HONORS 450 ..... 3Program Emphasis Requirements or Electives ${ }^{2,3,4,6}$10
Complete School of Biological Sciences Exit Survey

## Footnotes

MATH 106 may be taken as a pre-/co-requisite to CHEM 105 and other MATH courses. MATH 108 may also be needed.
${ }^{2}$ Pre-Occupational Therapy Program emphasis (13 credits) includes ANTH 203, BIOLOGY 220, BIOLOGY 393 [M], COM 102, H D 101.
Pre-Physical Therapy Program emphasis (8-9 credits) includes BIOLOGY 393 [M] or 490 [M], KINES 380 or BIOLOGY 350 or BIOLOGY 352, PSYCH 361 or H D 101.

304 or 306, MBIOS 305, PSYCH 361 or H D 101. Students in this emphasis will also need to complete a BIOLOGY [M] course to fulfill the University requirement of 2 [M] courses.
${ }^{5}$ 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.
Pre-Physical Therapy / Pre-Occupational Therapy / Pre-Physician Assistant Program emphasis courses should be selected in consultation with a biology advisor and include coursework to fulfill the University 370 [M] or 372 [M], one from 395,403 , or 405, BIOLOGY [CAPS] or HONORS 450), 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 program electives include CHEM 370, KINES 380, MBIOS 303, 304, 305, 306, PHIL 365, and 200-400-level BIOLOGY courses解 4 Students in Honors College complete HONORS 450 in lieu of a BIOLOGY [CAPS] course.

| Biological <br> Sciences <br> Revise graduation requirements and Rule 53 language for Bachelor of Science in Zoology Accelerated PreVeterinary Option | Zoology - Accelerated Pre-Veterinary Option (125 Credits) <br> The Accelerated Pre-Veterinary Option 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. 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 the WSU general catalog. 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. <br> 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. <br> This track allows qualified students to eam 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. <br> For more information about the Accelerated Pre-Vet Option program contact the School of Biological Sciences. <br> NOTE: Students must complete a minimum of 90 undergraduate creditsincluding 30 credits of $300-400$ level coursework - and be accepted into the Veterinary Medicine program to complete this degree. <br> First Year <br> First Term <br> Arts [ARTS] | 8-20 |
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| Biological Sciences Revise graduation requirements and Rule 53 language for Bachelor of Science in Zoology - General Option | Zoology - General Option (120 Credits) <br> 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 the WSU general catalog. Admission to the major requires completion of 24 semester credits and 2.0 GPA . <br> 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 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 | 8-20 |



|  | BIOLOGY 350 or 353 <br> BIOLOGY 395, 403, or 405 <br> Program Option Courses or Electives ${ }^{2,3}$ <br> Second Term <br> BIOLOGY Capstone [CAPS] <br> Integrative Capstene [CAPS] <br> Program Option Courses or Electives ${ }^{2,3}$ <br> Complete School of Biological Sciences Exit Survey <br> Footnotes <br> MATH 106 may be taken as a pre-/co-requisite to CHEM 105 and other MATH courses. MATH 108 may also be needed. <br> 2 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. <br> ${ }^{2}, \underline{3}$ 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, 370 [M] or 372 [M], one from 395, 403, and or 405), 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. |  |
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| Biological Sciences Revise graduation requirements and Rule 53 language for Bachelor of Science in Zoology - Pre-Medicine/PreDentistry Option | Zoology - Pre-Medicine/Pre-Dentistry Option (120 Credits) <br> 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 the WSU general catalog. Admission to the major requires completion of 24 semester credits and 2.0 GPA. <br> 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 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 | 8-20 |



|  | Fourth Year <br> First Term <br> BIOLOGY 322 [M], 418 [M], or MBIOS 305 <br> BIOLOGY 352 <br> Program Option Courses or Electives ${ }^{2, \underline{3}}$ <br> Second Term $\text { BIOLOGY 315, } 321 \text { [M], or } 324$ $\text { BIOLOGY } 353$ BIOLOGY Capstone [CAPS] <br> STAT 212, 412, or PSYCH 311 <br> Complete School of Biological Sciences Exit Survey <br> Footnotes <br> ${ }^{1}$ MATH 106 may be taken as a pre-/co-requisite to CHEM 105 and other MATH courses. MATH 108 may also be needed. <br> $\underline{2}$ 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. <br> 2,3 Zoology, Pre-Medicine/Pre-Dentistry Option, must include 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, 370 [M] or 372 [M], one from 395,403, and or 405), 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. |  |
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| Biological Sciences Revise graduation requirements and Rule 53 language for Bachelor of Science in Zoology - PreVeterinary/Animal Care Option | Zoology - Pre-Veterinary/Animal Care Option (120 Credits) <br> 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 the WSU general catalog. Admission to the major requires completion of 24 semester credits and 2.0 GPA. <br> 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 in all College and School requirements. A maximum of 4 credits of coursework | 8-20 |



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| Chemical <br> Engineering and <br> Bioengineering <br> Revise graduation requirements and revise language for Rule 53 for Bachelor of Science in Chemical Engineering | Chemical Engineering - General (124 Credits) <br> At least 63 of the total credits required for this degree must be in 300-400-level courses. <br> Criteria for Certification-Chemical Engineering Program <br> 1. In September of each year, the faculty of the School of Chemical Engineering and Bioengineering will establish the total number of students (Jantary, June, and August) to be certified into the chemical engineering program. <br> 2. 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. <br> 3. To be certified, each student must meet the following minimum requirements: <br> a. 2.0 emmulative GPA. <br> b. $\Lambda$ "C" grade or better in each of the courses listed in 2 ) above. | 8-20 |

e. 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 eapacity, 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;
e. the GPA earned during the previous semester;
d. cummlative GPA.
6. Students who have completed all the courses listed in 2) above, but whe 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 eireumstances 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, extentating conditions.
8. 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 conditions for students who are deficient and apply for re-entry into the major.

## Graduation Requirements

No Washington State University courses listed in this schedule of study may be taken on a pass/fail basis. With the exception of CHE 488, 495, 498, 499 and ENGR 489, all listed CHE courses, required electives, and the prerequisites to these courses must be completed with a grade of C or better.

## First Year

First Term
Credits
CHE 101
CHEM 105 [PSCI] 4
Diversity [DIVR] 3
HISTORY 105 [ROOT] or 305 [ROOT] 3
MATH 171 [QUAN] 4
Second Term Credits
BIOLOGY 106 [BSCI], 107 [BSCI], or 110 [BSCI] 3 or 4
CHE 110표 2
CHEM 106 or 116 4
ENGLISH 101 [WRTG] 3
MATH 172 or 182 4
Second Year
First Term Credits
CHE 2013
CHEM 345 4
Humanities [HUM] 3
MATH 273 or $283 \quad 2$
PHYSICS 201 or $205 \quad 4$ or 5
Second Term Credits
CHE 2113
CHEM 348 or MBIOS 303 4
MATH 220 or $230 \quad 2$ or 3
MATH 315 3
PHYSICS 202 or 206 ( or 5
Complete Writing Portfolio
Third Year
First Term Credits
Arts [ARTS] 3
CHE 3013

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| Chemical <br> Engineering and Bioengineering Revise graduation requirements and revise language for Rule 53 for Bachelor of Science in | Bioengineering - General Option (120 Credits) <br> Students who plan to pursue pre-med studies should consult their advisor for further information about appropriate courses. <br> Criteria for Certification-Bioengineering Program <br> 1. In March of each year, the faculty of the School of Chemical Engineering and Bioengineering will establish the total number of students (Jantary, fune, and August) to be certified into the Bioengineering program. | 8-20 |

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.
e. Be in good academic standing (semester GPA 2.00 or higher) at the time they are being considered for certification.
4. Certifieation 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 eapacity, as determined in 1) above, additional criteria will be used to select these who are certified. These 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
e. the GPA earned during the previous semester.
6. Students who have completed all the courses listed in 2) above, but whe 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 eireumstances which should be considered. A faculty committee will censider 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.
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 z) 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

## Admission to the Major Criteria - Bioengineering Program

Incoming first-year students, transfer students, and students changing from a different major may be admitted to the Bioengineering degree program upon completion of MATH 171 with a C or better or concurrent enrollment, and



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 (Jantary, Jtne, and August) to be certified into the Bioengineering program.
Z. Each student will be considered for certifieation 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.
2. To be certified, each student must meet the following minimum requirements:
a. 2.0 cummlative GPA.
b. A "C" grade or better in each of the courses listed in 2) above.
e. Be in good academic standing (semester GPA 2.00 or higher) at the time they are being considered for certification.
3. 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 Jume 1, and those being certified at the end of the Summer term will be notified by $\Lambda$ ugust 15 .
4. If the number of students seeking certification exceeds the program eapacity, 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
e. the GPA earned during the previous semester.
5. Students who have completed all the courses listed in 2) above, but whe 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 deseribe any special eireumstances which should be considered. A faculty committee will eonsider the appeal, the special cireumstances deseribed, 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.
6. Students who are deficient under the University's Educational Policies and Procedures are subject to decertification. When a student is in good aeademic standing, they will be reconsidered for certification as stated in 2) above.
7. 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


revise language for Rule 53 for Bachelor of Landscape Architecture
semester credits and earning a $C$ or better grade in the following courses: SDC 100,120 , and 140 . Additional required courses are HSTORY 105, COM 102, ENGLISH 101, and one fine arts course (FINE ART 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.

Landscape Architecture (LA) 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 LA program, a student must have completed the following pre-professional coursework (or their approved 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.

Transfer Students
A limited number of transfer students are considered each year. Requirements include completion of the pre-professional courses (or approved equivalents). Emphasis is given to cumulative GPA. A design portfolio may be requested for additional evaluation.

Schedule of Studies
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, 297, 327, 362, $363,365,366,367,380,450,470,485$; SOIL SCI 201, 368; SDC 100, 120, 140, $250,300,350,473)$.

## First Year



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| Design and Construction Revise graduation requirements and revise language | Bachelor of Science in Architectural Studies (120 Credits) <br> Students may apply for certification at the end of spring semester of the first year. Certification requirements include completion of a minimum of 24 semester credits and earning a $C$ or better grade in the following courses: SDC | 8-20 |




|  | Biological Science [BSCI] <br> CST M 333 <br> PHYSICS 101 [PSCH <br> Fourth Year <br> First Term <br> Credits <br> ARCH 401 <br> Diversity [DIVR] <br> ARCH $463^{2}$ <br> Supportive Electives ${ }^{3}$ <br> Second Term <br> Credits <br> ARCH 403 [CAPS] <br> Biological Sciences [BSCH] <br> Humanities [HUM] <br> Supportive Electives ${ }^{3}$ <br> Footnotes <br> ${ }^{1}$ All freshmen must take the math placement exam. Completion of MATH 108 with a grade of C or better, a minimum ALEKS math placement score of $75 \%$, or passing MATH 140, 171 or 202 is required for PHYSICS 101 [PSCI]. MATH 108 does not fulfill the University [QUAN] requirement for graduation. Students who do not take MATH prerequisites may need additional credits to meet the University minimmon of 120 credits. <br> $\underline{2}^{2}$ Math and Physics are not required for admission to the major (professional program, beginning in second year); however, Math and Physics are course prerequisites for ARCH 351/352 and CSTM 332/333 in the third year. <br> ${ }^{2}$ ARCH 463 is required for students intending to enter the M. Areh program. Students not intending to enter the M . Arch program may take ARCH 463 or an additional suppertive elective in its place. ARCH 531 and 540 may be taken and reserved for graduate credit towards the accelerated M . Arch program if a grade of $B$ or better is earned. Courses must be in addition to the requirements for undergraduate degree, and students must have a 3.0 GPA over the last 60 hours of undergraduate work to be eligible. <br> ${ }^{3}$ Supportive Electives: At least $6 \underline{7}$ credits of any $300-400$-level courses from ARCH, CST M, DESIGN, I D, LND ARCH, or SDC, or other courses approved in consultation with ARCH Program Head not used to fulfill major requirements. |  |
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| Human <br> Development <br> Revise graduation requirements and revise language for Rule 53 for Bachelor of Arts in Human <br> Development General Option | Human Development - General Option (120 Credits) <br> Students can eertify be admitted as a Human Development major after completing 24 credits and earning a GPA of at least 2.0 2.35. A cumulative GPA of 2.6 or better in all H D courses that apply to the option, including substitutions is required to (a) maintain certification admission in the major; and (b) complete the Bachelor of Arts degree in Human Development. Of the 42-44 H D credits required for the major, a minimum of 21 must be taken at WSU. <br> First Year <br> First Term <br> Credits <br> Arts [ARTS] | 8-20 |



|  | Minor, Certificate, or General Electives 9 |  |
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|  | Footnotes <br> ${ }^{1}$ For a total of 7 credits-one Biological Science [BSCI] and one Physical Science [PSCI] course, including one lab course., or 8 eredits of [SCI] designated courses. (SCIENCE 101 [SCI] is offered Fall semester and is a prerequisite for SCIENCE 102 [SCI], which is offered Spring semester.) <br> ${ }^{2}$ 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. <br> ${ }^{3}$ H D 385 and 496 are required for Vancouver students only and must be completed before H D 498 or 446. <br> ${ }^{4}$ H D 497 is required for Pullman and Global students enly and must be completed prior to H D 446 or 498. <br> ${ }^{5}$ 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 HD 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. Alt ether HD majors complete HD-498. <br> ${ }^{6}$ The internship course (HD 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 <br> Development <br> Revise requirements and revise language for Rule 53 for HD undergraduate certificate in Adolescence. | Adolescence <br> 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 $2.5 \underline{2.6}$ in those courses that count toward the certificate. <br> Certificate requirements: <br> Required courses: H D $202,220,302,307,408,420,498$, one other 300-400 level H D course, H D 479 or 480, and one from PSYCH 230, 265, SOC 360, or 362. | 8-20 |
| Human <br> Development Revise requirements and revise language for Rule 53 for HD undergraduate certificate in Gerontology. | Gerontology <br> 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. <br> Certificate requirements: | 8-20 |


|  | Required courses: BIOLOGY 140; H D 203 or 305308 or 405; PSYCH 363 or 490; SOC 351 or 356 . Elective Courses, 6 credits minimum from the following: BIOLOGY 233; HBM 375, 497; H D 203, 305308 (if not used in required), 360; KINES 264, 361; MGMT 101, 301; PHIL 103, 365; PSYCH 320, 363, 490 (if not used in required); SOC 250, 351, 356 (if not used in required); H D 497, H D 498. |  |
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| Human <br> Development <br> Revise requirements for minor in General Human Development | General Human Development <br> 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 elective hours credits selected from H D 300, 301, 302, 306, 307, 308, 320, 334, 341, $350,360,385,403,405,406,408,430,479,480$, or 482 , and a A maximum of 3 credits of H D 485 may apply to the upper-division requirement of the minor. Coursework must include a minimum of 9 hours credits of $300-400$-level courses taken in residence at WSU or through WSU-approved education abroad or educational exchange courses. | 8-20 |
| Integrated Plant Sciences Revise graduation requirements and language for Rule 53 for Bachelor of Science in Integrated Plant Sciences - Field Crop Management | Field Crop Management (120 Credits) <br> The 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. <br> A student may be admitted to the Field Crop Management major upon making their intention known to the department. <br> First Year | 8-20 |



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| Integrated Plant Sciences Revise graduation requirements and revise language for Rule 53 for Bachelor of Science in Integrated Plant SciencesViticulture and Enology on WSU Tri-Cities campus. | BS in Viticulture and Enology (120 Credits) <br> The Viticulture and Enology major degree was created for students interested in wine-grape growing and winemaking, as well as contributing to critical research and development opportunities in the wine industry. This program offers the technical, scientific, and practical experience needed to gain the essential skills for producing high quality grapes and premium table wines. It prepares students for successful careers in the wine industry in Washington and beyond. <br> A student may be admitted to the Viticulture and Enology degree program upon making their intention known to the department. <br> First Year <br> First Term <br> Credits <br> CHEM 101 [PSCI] or 105 [PSCI] <br> recommended) <br> HISTORY 105 [ROOT] <br> HORT / CROP SCI 102 <br> VIT ENOL 113 <br> Second Term <br> Credits <br> CHEM 102 or 106 | 8-20 |



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| Kinesiology and <br> Educational <br> Psychology <br> Bachelor of <br> Science in <br> Kinesiology <br> Change name of major from Sport <br> Science to <br> Kinesiology; change language in schedule of studies to accommodate Rule 53. | Bachelor of Science in Kinesiology - Sport Science Kinesiology (120 Credits) <br> The Spert Science Kinesiology major leads to the Bachelor of Science in Kinesiology. The major provides an interdisciplinary understanding of human movement through the study of anatomy, physiology, movement analysis, biomechanics, motor learning, exercise physiology, and sport psychology and ethics. Spert Science Kinesiology provides a foundation for personal training certification, health and fitness club employment, teaching, coaching, physical therapy, and sports medicine. <br> Because of the high demand for this program, students must meet minimum certification admission requirements, as listed below, in order to apply to the Spert Science Kinesiology program. Applicants who meet the minimum requirements are eligible for consideration, but not assured admission. <br> Enrollment is limited and admission competitive. Admission application dates are September 1st to 30th, and February 1st to 28th, with eertification admission effective the following term. Candidates must complete formal admission | 8-20 |


|  | procedures and be eertified in admitted to the Spert Science Kinesiology major prior to taking any 300- or 400-level courses. The following minimum criteria must be met for consideration for admission: <br> Minimum Certification Admission Criteria <br> 1. Completion of at least 24 semester hours credits of coursework. <br> 2. A cumulative GPA of 2.75 . <br> 3. A grade of C or better in each of the following courses: KINES 199 and KINES 262. <br> 4. A written statement (maximum of two pages) describing relevant work experience/involvement in extracurricular activities related to Spert Science Kinesiology. <br> A grade of C or better must be obtained in all departmental core courses, elective eere 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). |  |
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| Teaching and <br> Learning <br> Revise graduation requirements for <br> Bachelor of Arts <br> in Education - <br> Elementary <br> Education <br> Certificate <br> Program | Elementary Education Teacher Certificate (128 Credits) <br> 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. <br> During the freshman year, students must qualify to enroll in MATH 251, and begin the University Writing Portfolio. <br> First Year <br> First Term <br> Credits <br> ENGLISH 101 [WRTG] <br> H D 101 [SSCI] <br> MATH 251 <br> MUS 153 [ARTS] or Arts [ARTS] <br> Science Requirement ${ }^{1}$ <br> Second Term <br> Credits <br> Endorsement Course ${ }^{2}$ <br> HISTORY 105 [ROOT] <br> HISTORY 110 [HUM] or 111 [HUM] <br> MATH 252 [QUAN] <br> Science Requirement ${ }^{1}$ <br> Second Year | 8-20 |




