# UNDERGRADUATE AND PROFESSIONAL MAJOR CHANGE BULLETIN NO. 4 Fall 2011 

## Faculty Senate Approved 11/17/2011

## ---REQUIREMENTS---

The requirements listed below reflect the undergraduate major curricular changes approved by the Catalog Subcommittee for the School of Music with an effective a date of Fall 2011. These revisions are required for accreditation purposes.

| Heading | Current | Propose | Effective Date |
| :---: | :---: | :---: | :---: |
| Music <br> Performance - <br> Keyboard Option | Music Performance - Keyboard Option (127 Hours) <br> The following degree was under review at the time of Catalog publication. Approval of a revised degree plan is anticipated to be effective fall 2012. Assuming approval, students entering WSU in fall 2011 will certify their majors in music under the revised degree plan. The revised degree plan will also appear in the Music Student Handbook to be available to music students in early fall 2011. <br> Requirements include: Accompany a junior, senior, or graduate recital; piano proficiency exam; junior and senior qualifying exams; junior recital; senior recital; 2.5 average in all music courses; C or better in all music courses. <br> First Year <br> First Term <br> Engl 101 [W] (GER) <br> Mus $251^{1}$ <br> Mus $252^{1}$ <br> Mus 441 <br> Mus Private Lessons <br> Science Elective (GER) <br> Second Term <br> Second Year <br> First Term <br> Communication <br> Proficiency [C,W] (GER) <br> GenEd 111 [A] (GER) <br> Hours <br> 3 <br> 3 <br> 1 <br> 1 <br> 4 <br> 4 <br> Hours <br> 4 <br> 3 <br> 3 <br> 1 <br> 1 <br> 4 <br> Hours <br> 3 <br> 3 | Music Performance - Keyboard Option (122 Hours) <br> Requirements include: Accompany a junior, senior, or graduate recital; piano proficiency exam; junior and senior qualifying exams; junior recital; senior recital; 2.5 average in all music courses; C or better in all music courses. | 8-11 |



|  | Footnotes <br> 1 Fall only. <br> 2 Spring only. <br> 3 Mus 360 and 361 fulfill the College of Liberal Arts [H,G,S,K,I] requirement. <br> 4 Courses are taught alternate years. <br> 5 Fall, alternate year only. | 5 Fall, alternate year only. <br> 6 One credit of Mus 482 or 483 is required. |  |
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| Music Performance <br> - Keyboard with Elective Studies in Pedagogy Option | Music Performance - Keyboard with Elective Studies in Pedagogy Option (129 Hours) <br> The following degree was under review at the time of Catalog publication. Approval of a revised degree plan is anticipated to be effective fall 2012. Assuming approval, students entering WSU in fall 2011 will certify their majors in music under the revised degree plan. The revised degree plan will also appear in the Music Student Handbook to be available to music students in early fall 2011. <br> Requirements include: Accompany a junior, senior, or graduate recital; piano proficiency exam; junior and senior qualifying exams; junior recital; senior recital; 2.5 average in all music courses; C or better in all music courses. | Music Performance - Keyboard with Elective Studies in Pedagogy Option (126 Hours) <br> Requirements include: Accompany a junior, senior, or graduate recital; piano proficiency exam; junior and senior qualifying exams; junior recital; senior recital; 2.5 average in all music courses; C or better in all music courses. | 8-11 |



|  | 4 Courses are taught alternate years. 5 Spring, alternate years only. |  |  |
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| Music Performance <br> - Voice Option | Music Performance - Voice Option (130 Hours) <br> The following degree was under review at the time of Catalog publication. Approval of a revised degree plan is anticipated to be effective fall 2012. Assuming approval, students entering WSU in fall 2011 will certify their majors in music under the revised degree plan. The revised degree plan will also appear in the Music Student Handbook to be available to music students in early fall 2011. <br> Requirements include: junior and senior qualifying exams; piano proficiency exam; 2.5 average in all music courses; C or better in all music courses; junior and senior recitals. | Music Performance - Voice Option (127 Hours) <br> Requirements include: junior and senior qualifying exams; piano proficiency exam; 2.5 average in all music courses; C or better in all music courses; junior and senior recitals. | 8-11 |



|  | 6 Spring, alternate years only. <br> 7 Mus 360 and 361 fulfill the College of <br> Liberal Arts [H,G,S,K,I] requirement. <br> 8 Courses are taught alternate years. | Liberal Arts [H,G,S,K,I] requirement. 8 Courses are taught alternate years. |  |
| :---: | :---: | :---: | :---: |
| Music Performance - Brass, Percussion, Strings, Winds Option | Music Performance - Brass, Percussion, Strings, Winds Option (130 Hours) <br> The following degree was under review at the time of Catalog publication. Approval of a revised degree plan is anticipated to be effective fall 2012. Assuming approval, students entering WSU in fall 2011 will certify their majors in music under the revised degree plan. The revised degree plan will also appear in the Music Student Handbook to be available to music students in early fall 2011. <br> Requirements include: junior and senior qualifying exams; piano proficiency exam; 2.5 average in all music courses; C or better in all music courses; junior and senior recitals. | Music Performance - Brass, Percussion, Strings, Winds Option <br> (122 Hours) <br> Requirements include: junior and senior qualifying exams; piano proficiency exam; 2.5 average in all music courses; $C$ or better in all music courses; junior and senior recitals. | 8-11 |



|  | 5 Spring only. <br> 6 Mus 360 and 361 fulfill the College of Liberal Arts [H,G,S,K,I] requirement. <br> 7 Fall, alternate year only. <br> 8 One credit of pedagogy is required in respective area: wodwind (392), Percussion (393) or Brass (394). | respective area: string (487), <br> wind/percussion (493) or brass (494). |  |
| :---: | :---: | :---: | :---: |
| Music Performance Flate, Percussion, Saxophone, String Bass, Trumpet, and Voice (Jazz Studies) | Music Performance - Flute, Percussion, Saxophone, String Bass, Trumpet, and Voice (Jazz Studies) <br> (127 Hours) <br> The following degree was under review at the time of Catalog publication. Approval of a revised degree plan is anticipated to be effective fall 2012. Assuming approval, students entering WSU in fall 2011 will certify their majors in music under the revised degree plan. The revised degree plan will also appear to music students in early fall 2011. <br> This option with an emphasis in jazz is available to students whose major instruments are flute, percussion, saxophone, string bass, trumpet, or voice. <br> Requirements include: junior and senior qualifying exams; piano proficiency exam; 2.5 average in all music courses; C or better in all music courses; half and full recitals. | Music Performance - Percussion, Saxophone, String Bass, and Trumpet (Jazz Studies) (124 Hours) <br> This option with an emphasis in jazz is available to students whose major instruments are percussion, saxophone, string bass, or trumpet. <br> Requirements include: junior and senior qualifying exams; piano proficiency exam; 2.5 average in all music courses; C or better in all music courses; half and full recitals. | 8-11 |



|  | Footnotes 1 Fall only. 2 Class piano credits not required in degree. 3 Spring only. 4 Fall, alternate year only. 5 Mus 360 and 361 fulfill the College of Liberal Arts [H,G,S,K,I] requirement. 6 Spring, alternate years only. | 5 Mus 360 and 361 fulfill the College of Liberal Arts [H,G,S,K,I] requirement. <br> 6 Spring, alternate years only. <br> 7 Music Ensembles: a minimum of one credit per 8 semesters. |  |
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| Music Composition Degree | Music Composition Degree (127 Hours) <br> The following degree was under review at the time of Catalog publication. Approval of a revised degree plan is anticipated to be effective fall 2012. Assuming approval, students entering WSU in fall 2011 will certify their majors in music under the revised degree plan. The revised degree plan will also appear to music students in early fall 2011. <br> This major offers professional preparation in music with specialization in composition. The curriculum is designed to prepare students in contemporary classical composition and allied fields. <br> Requirements include: senior qualifying exam; piano proficiency exam; 2.5 average in all music courses; C or better in all music courses; senior recital. <br> Second Year | Music Composition Degree (121 Hours) <br> This major offers professional preparation in music with specialization in composition. The curriculum is designed to prepare students in contemporary classical composition and allied fields. <br> Requirements include: senior qualifying exam; piano proficiency exam; 2.5 average in all music courses; C or better in all music courses; senior recital. | 8-11 |



|  | Mus Private Lessons 2 <br> Music Electives 4 <br> Second Term Hours <br> Mus $452^{7}$ 2 <br> Mus 456 3 <br> Mus Ensemble (music elective) ${ }^{1,3}$ 1 <br> Music Electives 4 <br> Tier III Course [T] (GER) 3 <br> Footnotes  <br> 1 Required if enrolled for applied music,  <br> but not required in degree; Class piano  <br> credits not required.  <br> 2 Fall only.  <br> 3 Chosen from Mus 428-444.  <br> 4 Spring only.  <br> 5 Mus 360 and 361 fulfill the College of  <br> Liberal Arts [H,G,S,K,I] requirement.  <br> 6 Fall, alternate year only.  <br> 7 Spring, alternate years only.  | Footnotes 1 Class piano credits not required. 2 Fall only. 3 Chosen from Mus 428-444. 4 Spring only. 5 Mus 360 and 361 fulfill the College of $\quad$ Liberal Arts [H,G,S,K,I] requirement. 6 Fall, alternate year only. 7 Spring, alternate years only. $\underline{8} \underline{\text { Chosen from Mus 428, 431, 423, }} 4 \underline{433 \text { and } 439 .}$ |  |
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|  | Music Education - Broad Endorsement Option (152-Hours) <br> The following degree was under review at the time of Catalog publication. Approval of a revised degree plan is anticipated to be effective fall 2012. Assuming approval, students entering WSU in fall 2011 will certify their majors in music under the revised degree plan. The revised degree plan will also appear in the Music Student Handbook to be available to music students in early fall 2011. <br> Students following any teacher preparation option are required to present an acceptable senior half recital in the major performance medium. | Music Education - Broad Endorsement Option ( 148 Hours) <br> Students following any teacher preparation option are required to present an acceptable senior half recital in the major performance medium. <br> Students following any teacher preparation option must have a minimum gpa of 2.5 in all of the following areas: cumulative gpa, Professional Education Core with a C or better in each course, and academic major (and minor if any) with a C or better in each course. Students must also certify as majors in the College of Education. |  |
| Music Education Broad Endorsement Option | Students following any teacher preparation option must have a minimum gpa of 2.5 in all of the following areas: cumulative gpa, Professional Education Core with a C or better in each course, and academic major (and minor if any) with a C or better in each course. Students must also certify as majors in the College of Education. <br> Students must pass the Piano Proficiency Exam, pass the senior qualifying exam, achieve a cumulative 2.5 gpa and a grade of C or better in all music classes, and a 2.5 gpa and a grade of C or better in all College of Education Professional Core courses. Class piano credits are not required for the degree. Instrumentalists must complete 4 credits in vocal performance studies (private lessons and/or ensemble) and vocalists must complete 4 credits of instrumental performance studies. | Students must pass the Piano Proficiency Exam, pass the senior qualifying exam, achieve a cumulative 2.5 gpa and a grade of C or better in all music classes, and a 2.5 gpa and a grade of C or better in all College of Education Professional Core courses. Class piano credits are not required for the degree. Instrumentalists must complete 4 credits in vocal performance studies (private lessons and/or ensemble) and vocalists must complete 4 credits of instrumental performance studies. <br> This option provides teacher certification in designated arts: music (choral, instrumental, and general). Requirements include: C or better in all music and education courses; 2.5 music average; 2.5 education average; 2.5 overall average; 4 credits vocal performance for instrumentalists; 4 credits instrumental performance for vocalists; senior qualifying | 8-11 |




|  | First Term Hours <br> Mus 497 4 <br> T \& L 415 12 <br> Footnotes  <br> 1 Class piano credits not required in degree.  <br> 2 Fall only.  <br> 3 Spring only.  <br> 4 Mus 360 and 361 fulfill the College of  <br>  Liberal Arts [H,G,S,K,I] requirement. <br> 5 Fall, alternate year only.  <br> 6 Spring, alternate years only.  <br> 7 T\& L 328 required for degree; Mus 455  <br> required.  | ```4 \text { Mus } 3 6 0 \text { and } 3 6 1 \text { fulfill the College of} Liberal Arts [H,G,S,K,I] requirement. 5 Fall, alternate year only. 6 \text { Spring, alternate years only.} Music ensembles to include at least 2 hours in choral and 2 hours in instrumental performing groups.``` |  |
| :---: | :---: | :---: | :---: |
|  | Music Education - Choral/General <br> Endorsement Option <br> (145 Hours) <br> The following degree was under review at the time of Catalog publication. Approval of a revised degree plan is anticipated to be effective fall 2012. Assuming approval, students entering WSU in fall 2011 will certify their majors in music under the revised degree plan. The revised degree plan will also appear in the Music Student Handbook to be available to music students in early fall 2011. <br> Students following any teacher preparation option are required to present an acceptable senior half recital in the major performance medium. | Music Education - Choral/General <br> Endorsement Option <br> (142 Hours) <br> Students following any teacher preparation option are required to present an acceptable senior half recital in the major performance medium. <br> Students following any teacher preparation option must have a minimum gpa of 2.5 in all of the following areas: cumulative gpa, Professional Education Core with a C or better in each course, and academic major (and minor if any) with a C or better in each course. Students must also certify as majors in the College of Education. |  |
| Music Education - <br> Choral/General <br> Endorsement Option | Students following any teacher preparation option must have a minimum gpa of 2.5 in all of the following areas: cumulative gpa, Professional Education Core with a C or better in each course, and academic major (and minor if any) with a C or better in each course. Students must also certify as majors in the College of Education. | Students must pass the Piano Proficiency Exam, pass the senior qualifying exam, achieve a cumulative 2.5 gpa and a grade of C or better in all music classes, and a 2.5 gpa and a grade of C or better in all College of Education Professional Core courses. Class piano credits are not required for the degree. Vocalists must complete 4 credits of vocal performance studies. | 8-11 |
|  | Students must pass the Piano Proficiency Exam, pass the senior qualifying exam, achieve a cumulative 2.5 gpa and a grade of C or better in all music classes, and a 2.5 gpa and a grade of C or better in all College of Education Professional Core courses. Class piano credits are not required for the degree. Vocalists must complete 4 credits of vocal performance studies. <br> This option provides teacher certification in designated arts: Music (choral and general). Requirements include: C or better in all music and education courses; 2.5 music average; 2.5 education average; 2.5 overall average; senior qualifying exam, piano proficiency, solo halfrecital. Approved performing groups: a | This option provides teacher certification in designated arts: Music (choral and general). Requirements include: C or better in all music and education courses; 2.5 music average; 2.5 education average; 2.5 overall average; senior qualifying exam, piano proficiency, solo halfrecital. Approved performing groups: a minimum of 1 hour during each of 7 semesters, to include at least one semester of Mus 428 for vocalists. |  |






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| Music Education Without Teaching Certificate Option | Music Education - Without Teaching Certificate Option (123 Hours) <br> The following degree was under review at the time of Catalog publication. Approval of a revised degree plan is anticipated to be effective fall 2012. Assuming approval, students entering WSU in fall 2011 will certify their majors in music under the revised degree plan. The revised degree plan will also appear in the Music Student Handbook to be available to music students in early fall 2011. | Music Education - Without Teaching Certificate Option <br> (125 Hours) <br> Students following any teacher preparation option are required to present an acceptable senior half recital in the major performance medium. <br> Students following any teacher preparation option must have a minimum gpa of 2.5 in all of the following areas: cumulative gpa, | 8-11 |

Students following any teacher preparation option are required to present an acceptable senior half recital in the major performance medium.

Students following any teacher preparation option must have a minimum gpa of 2.5 in all of the following areas: cumulative gpa, Professional Education Core with a C or better in each course, and academic major (and minor if any) with a C or better in each course. Students must also certify as majors in the College of Education. Since this option is likely to lead to enrollment in the MA in Music, students are advised that admission to graduate study requires a 3.0 cumulative gpa.

Students must pass the Piano Proficiency Exam, pass the senior qualifying exam, achieve a cumulative 2.5 gpa and a grade of C or better in all music classes, and a 2.5 gpa and a grade of $C$ or better in all College of Education Professional Core courses. Class piano credits are not required for the degree. Instrumentalists must complete 4 credits in vocal performance studies (private lessons and/or ensemble) and vocalists must complete 4 credits of instrumental performance studies.

This option provides teacher certification in designated arts: Music (choral, instrumental, and general). Requirements include: C or better in all music and education courses; 2.5 music average; 2.5 education average; 2.5 overall average; 4 credits vocal performance for instrumentalists; 4 credits instrumental performance for vocalists; upper-division exam, piano proficiency, solo half-recital. Approved performing groups: a minimum of 1 hour during each of 7 semesters, to include at least one semester of Mus 435 for instrumentalists and 428 for vocalists. Include a minimum of 2 hours in choral and 2 hours in instrumental performing groups.

This option provides professional preparation in music combined with studies in education. Students may complete teacher certification requirements after completion of this degree through further enrollment as undergraduate second degree candidates, enrollment as postbaccalaureate non-degree students, or as graduate students, each of which requires application for admission. Students planning to seek admission and enroll as graduate students should, at the beginning of their last semester of undergraduate study, complete the necessary form to count selected courses in the final undergraduate semester toward the graduate degree, up to a maximum of 6 credits.

Professional Education Core with a C or better in each course, and academic major (and minor if any) with a $C$ or better in each course. Students must also certify as majors in the College of Education. Since this option is likely to lead to enrollment in the MA in Music, students are advised that admission to graduate study requires a 3.0 cumulative gpa.

Students must pass the Piano Proficiency Exam, pass the senior qualifying exam, achieve a cumulative 2.5 gpa and a grade of C or better in all music classes, and a 2.5 gpa and a grade of C or better in all College of Education Professional Core courses. Class piano credits are not required for the degree. Instrumentalists must complete 4 credits in vocal performance studies (private lessons and/or ensemble) and vocalists must complete 4 credits of instrumental performance studies.

This option provides teacher certification in designated arts: Music (choral, instrumental, and general). Requirements include: C or better in all music and education courses; 2.5 music average; 2.5 education average; 2.5 overall average; 4 credits vocal performance for instrumentalists; 4 credits instrumental performance for vocalists; upper-division exam, piano proficiency, solo half-recital. Approved performing groups: a minimum of 1 hour during each of 7 semesters, to include at least one semester of Mus 435 for instrumentalists and 428 for vocalists. Include a minimum of 2 hours in choral and 2 hours in instrumental performing groups.

This option provides professional preparation in music combined with studies in education. Students may complete teacher certification requirements after completion of this degree through further enrollment as undergraduate second degree candidates, enrollment as postbaccalaureate non-degree students, or as graduate students, each of which requires application for admission. Students planning to seek admission and enroll as graduate students should, at the beginning of their last semester of undergraduate study, complete the necessary form to count selected courses in the final undergraduate semester toward the graduate degree, up to a maximum of 6 credits.

## First Year

| First Term | Hours |
| :--- | :--- |
| Engl $101[\mathrm{~W}]$ (GER) | 3 |
| GenEd $110[\mathrm{~A}]$ (GER) | 3 |
| Mus $181^{1}$ | 0 or 1 |
| Mus $251^{2}$ | 3 |



|  | Mus Private Lessons 2 <br> T \& L 464 3 <br> T \& L 465 3 <br> Second Term Hours <br> Arts \& Humanities [H,G] (GER) 3 <br> Mus 361 [M] 3,4 3 <br> Mus 428 or 435 1 <br> Mus Private Lessons 2 <br> Physical Science [P] (GER) 4 <br> T \& L 466 2 <br> Fourth Year  <br> First Term Hours <br> Biological Sciences [B] (GER) 4 <br> Mus 455 $z$ <br> Mus 580 or Electives 3 <br> Mus Endorsement Electives $z$ <br> Mus Ensemble (Choral) 1 <br> Mus Private Lessons (400-level, 2 <br> Sr. Recital)  <br> Tier II Course [T] (GER) 3 <br> Second Term Hours <br> Arts \& Humanities [H,G] or 3 <br> Social Sciences [S,K] (GER) 3 <br> Intercultural Studies [I,G,K] (GER) 3  <br> Mus Endorsement Electives 4 <br> Footnotes  <br> 1 Class piano credits not required in degree.  <br> 2 Fall only.  <br> 3 Spring only.  <br> 4 Mus 360 and 361 fulfill the College of  <br> Liberal Arts [H,G,S,K,I] requirement.  <br> 5 T \& L 328 required for degree; Mus 455  <br> required.  |  |  |
| :---: | :---: | :---: | :---: |
| Bachelor of Arts in Music | Bachelor of Arts in Music <br> (120 Hours) <br> The following degree was under review at the time of Catalog publication. Approval of a revised degree plan is anticipated to be | Bachelor of Arts in Music (120 Hours) <br> This four-year program is designed to meet the needs of students wishing a broad liberal arts | 8-11 |




The requirements listed below reflect the undergraduate major curricular changes approved by the Catalog Subcommittee since approval of the last Undergraduate Major Change Bulletin. All changes are underlined. Deletions are crossed out. The column to the far right indicates the date each change becomes effective.

In the case of revisions to graduation requirements, the current GER designations are still in place. Transition to the new UCORE designations is currently under construction and is expected in early Spring 2012 in a separate bulletin.

| Department | Proposed | Effective Date |
| :---: | :---: | :---: |
| Electrical Engineering Vancouver, revise certification requirements | Students who have completed at least 30 semester hours of course work and who have completed Chem 105; CS 251; ECE 214, ECE 234, ECE 260, Math 273, and Phys 202, or their equivalents, are eligible for certification into the Bachelor of Science in Electrical Engineering program. All courses required for certification must be completed with a grade of C or better. Enrollment in many upper-division electrical engineering courses is restricted to certified majors or minors in electrical or mechanical engineering. No courses listed in this schedule of studies may be taken on a pass/fail basis. All upper-division electrical engineering courses must be completed with a minimum 2.0 average gpa. | 8-12 |
| Electrical Engineering Vancouver, revise graduation requirements | First Year  <br> First Term Hours <br> Chem 105 [P] (GER) 4 <br> ECE 101 2 <br> Eng1 101 [W] (GER) 3 <br> GenEd 110 [A] (GER) 3 <br> Math $171[\mathrm{~N}]$ (GER) 4 <br> Second Term Hours <br> CS 251 $\mathbf{Z 4}$ <br> EconS 101 [S] or 102 [S] GER 3 <br> GenEd 111 [A] (GER) 3 <br> Math 172 4 <br> Phys 201 [P] (GER) 4 <br> Second Year  <br> First Term Hours <br> Biological Sciences [B] (GER) 3 <br> ECE 214 3 <br> Math 220 2 <br> Math 273 2 | 8-12 |


|  | Phys 202 [P] (GER) 4 <br> Second Term Hours <br> Arts \& Humanities [H,G] (GER) 3 <br> ECE 234 3 <br> ECE 260 4 <br> ECE Elective $^{1}$ 3 <br> Math 315 3 <br> Third Year  <br> First Term Hours <br> ECE 321 3 <br> ECE 325 4 <br> ECE Elective ${ }^{1}$ 3 <br> Eng1 402 [W] or 403 [W] (GER) 3 <br> Stat 360 3 <br> Second Term Hours <br> ECE 341 3 <br> ECE 370 3 <br> ECE Electives ${ }^{1}$ 6 <br> Intercultural Studies [I,G,K] (GER) 3 <br> Fourth Year  <br> First Term Hours <br> ECE 405 [M] or CS 402 [M] 3 <br> ECE 451 2 <br> ECE Electives ${ }^{1}$ 9 <br> Second Term Hours <br> ECE 411 3 <br> ECE 452 [M] 3 <br> ECE Electives ${ }^{1}$ 6 <br> Tier III Humanities or Social Science/Diversity [T,D] (GER) 3 <br> Footnotes <br> ${ }^{1}$ Please see department for an approved list of elective courses. The electives are chosen from upper-division electrical engineering and related courses and must be pre-approved by a faculty advisor. |  |
| :---: | :---: | :---: |
| Pharmacy, revise prerequisites for admission to the professional program. | Pharmacy Prerequisites for Admission to the Professional Pharmacy Program <br> Written Communication I - 3 credits <br> Written Communication II - 3 credits <br> Philosophy - Logic, Critical Thinking or Ethics - 3 credits <br> Microeconomics - EconS 101-3 credits <br> Introductory Psychology - Psych 105 - 3 credits <br> Calculus - Math 140 or 171 or 202-4 credits <br> Statistics - Stat 212-3 credits <br> Introductory Biology - Biol 106 and 107 - 8 credits | 8-12 |


| Principles of Chemistry - Chem 105 and 106-8 credits |
| :--- | :--- |
| Organic Chemistry - Chem 345 and 346-7 credits |
| Microbiology - MBioS 305-5 credits |
| Human Anatomy with lab - Biol 315-4 credits |
| Mammalian Physiology - Biol 353-4 credits |
| Biochemistry - MBioS 303-4 credits |
| Geneties or Molecular Geneties_Biol 301,or MBios 404_3 credits |$\quad$|  |
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The courses listed below reflect the undergraduate major curricular changes approved by the Catalog Subcommittee since approval of the last Undergraduate Major Change Bulletin. All new and revised courses are printed in their entirety under the headings Current and Proposed, respectively. The column to the far right indicates the date each change becomes effective.

| Prefix | Course Number | New Revise Drop | Current | Proposed | Effective Date |
| :---: | :---: | :---: | :---: | :---: | :---: |
| BIOLOGY | 430 | Revise | Methods of Teaching Science 3 (2-3) Prereq 36 hours science. Methods, philosophy, and structure of science; application in teaching middle and secondary school science courses. | Methods of Teaching Science 3 Course Prerequisite: Junior standing. Methods, philosophy, and structure of science; application in teaching middle and secondary school science courses. (Crosslisted course offered as BIOLOGY 430, SCIENCE 430) | 8-12 |
| Chin | 261 | New | --N/A-- | Chinese for the Professions 3 Prereq Chin 102 with a grade of C or better, or equivalent. Profession-specific language skills training - healthcare, law enforcement, business - with emphasis on speaking and listening. Not open to native speakers except with permission. | 1-12 |
| Chin | 361 | Revise | Chinese for the Professions 3 Prereq Chin 204 with a grade of C or better. Communication in Chinese in the professional setting; telephone and meeting role play, letter writing, television and discussion of current events. Not open to native speakers except with permission. Cooperative course taught by WSU, open to UI students (CHIN 361). | Advanced Chinese for the Professions 3 Prereq Chin 204 with a grade of C or better. Communication in Chinese in the professional setting; telephone and meeting role play, letter writing, television and discussion of current events. Not open to native speakers except with permission. Cooperative course taught by WSU, open to UI students (CHIN 361). | 1-12 |
| CS | 251 | Revise | C Programming Lang Prereq Math 171 with a C or better or c//. Comprehensive programming practice using $C$. | C Programming for Engineers 4 (3-3) Course Prerequisite: MATH 171 with a C or better or concurrent enrollment. | 8-12 |


|  |  |  |  | Introduction to the C programming language and application to engineering problem solving; introduction to data structures, sorting and searching; laboratory use of integrated development environments and debugging tools. |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| ECE | 421 | New | --N/A-- | Microsystems in Renewable Energy 3 (2-3) Prereq Phys 202. Materials, structures, and devices used in renewable energy systems with the focus on solar cells. | 1-12 |
| ECE | 452 | New | [T,M] Capstone Design II 3 (1-6)-Prereq ECE 451. Execution phase of the senior design project course sequence; independent or team project proposed in ECE 451 is designed and implemented. | [T,M] Capstone Design II 3 Prereq ECE 451. Execution phase of the senior design project course sequence; independent or team project proposed in ECE 451 is designed and implemented. | 1-12 |
| Fren | 261 | New | --N/A-- | French for the Professions 3 <br> Prereq Fren 102 with a grade of C or better, or equivalent. Profession-specific language skills training - healthcare, law enforcement, business - with emphasis on speaking and listening. Not open to native speakers except with permission. | 1-12 |
| Fren | 361 | Revise | French for the Professions 3 Prereq Fren 204 with a grade of C or better, or equivalent. Communication in French for professional purposes; telephone and meeting role-plays, letterand resume-writing, discussions of current events in the Francophone world. | Advanced French for the Professions 3 Prereq Fren 204 with a grade of C or better, or equivalent. Communication in French for professional purposes; telephone and meeting role-plays, letter- and resume-writing, discussions of current events in the Francophone world. Not open to native speakers except with permission. | 1-12 |
| Hort | 444 | Drop | Plant Breeding I 2 Prereq Biol 106, 120, CropS 202, or Hort 202. Rec MBioS 301. Same as CropS 444. | --N/A-- | 1-12 |
| Hort | 445 | Revise | [M] Plant Breeding $\Psi 2$ Prereq Crops/Hort 444 or MBioS 301. Same as CropS 445. | [M] Plant Breeding 4 Prereq MBioS 301. Same as CropS 445. | 1-12 |


| MBIOS | 411 | Revise | Diagnostic Medical Bacteriology 2 (0-6) Prereq MBioS 410 or elt. Techniques and tests for the identification of bacteria pathogenic for humans. | [M] Diagnostic Medical Bacteriology 3 (1-6) Course Prerequisite: MBIOS 304; MBIOS 410 or concurrent enrollment. Techniques and tests for the identification of bacteria pathogenic for humans. | 8-12 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| NEUROSCI | 426 | New | --N/A-- | Integrative Physiology - <br> Laboratory 1 (0-3) Course <br> Prerequisite: concurrent enrollment in NEUROSCI 425. <br> Optional laboratory component of NEUROSCI 425; Laboratory to complement Integrative Physiology; quantitative and modeling based examination of physiological systems and aspects of their regulation. | 5-12 |
| PHARMACY | 563 | Revise | Introductory Pharmacy <br> Practice Experience V $1(0-2)$ <br> Prereq successful completion of third year fall coursework. <br> Authentic practice situations and service learning with opportunities for discussion and reflection. | Introductory Pharmacy Practice Experience V 2(1-2) Course Prerequisite: successful completion of third year fall coursework. Authentic practice situations and service learning with opportunities for discussion and reflection. | 8-12 |
| PharD | 568 | Drop | Patient Cases and Professional Presentations 1 (0-2) Prereq PharD 514, 534, 544, 554. <br> Professional presentation/communication skills in pharmacy; focus on public speaking in various formats. | --N/A-- | 8-12 |
| PharD | 578 |  | --N/A-- | Leadership and Professional Development 2 Course Prerequisite: successful completion of second year spring coursework. Skills, traits, and values required by leaders seeking to influence change in the pharmacy profession and health care. S, F grading. | 1-12 |
| Rus | 261 | New | --N/A-- | Russian for the Professions 3 Prereq Rus 102 with a grade of C or better, or equivalent. Profession-specific language skills training - healthcare, law | 1-12 |


|  |  |  |  | enforcement, business - with emphasis on speaking and listening. Not open to native speakers except with permission. |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Rus | 361 | Revise | Russian for the Professions 3 <br> Prereq Rus 204 with a grade of C or better, or equivalent. Communication in Russian for professional purposes; telephone and meeting role-plays; letter and resume writing; discussions of current events in the Russianspeaking world. Cooperative course taught by WSU, open to UI students (RUSS 361). | Advanced Russian for the Professions 3 Prereq Rus 204 with a grade of C or better, or equivalent. Communication in Russian for professional purposes; telephone and meeting role-plays; letter and resume writing; discussions of current events in the Russian-speaking world. Not open to native speakers except with permission. Cooperative course taught by WSU, open to UI students (RUSS 361). | 1-12 |
| SCIENCE | 430 | Revise | (Ph S) Methods of Teaching Science 3 (2-3) Prereq 36 hours science. Same as Biol 430. | Methods of Teaching Science 3 Course Prerequisite: Junior standing. Methods, philosophy, and structure of science; application in teaching middle and secondary school science courses. (Crosslisted course offered as BIOLOGY 430, SCIENCE 430) | 8-12 |
| SHS | 480 | Revise | Senior Seminar 2 Specialized topies in speech and hearing sciences. | [T]Senior Seminar 3 Prereq 60 semester credit hours completed; SHS 473 or $\mathrm{c} / /$. Synthesis of theory and evidence underlying professional principles and practices inclusive of multicultural populations in speech-language pathology and audiology. | 1-12 |
| SoilS | 444 | Drop | Plant Breeding I 2 Prereq Biol 106, 120, CropS 202, or Hort 202. Rec MBioS 301. Genetic principles underlying plant breeding and an introduction to plant breeding. | --N/A-- | 1-12 |
| SoilS | 445 | Revise | [M] Plant Breeding $\Psi$ Z Prereq Crops/Hort 444 or MBioS 301. Principles and practices of plant breeding. | [M] Plant Breeding 4 Prereq MBioS 301. Genetic principles underlying plant breeding and an introduction to the principles and practices of plant breeding. | 1-12 |
| Span | 261 | New | --N/A-- | Spanish for the Professions 3 Prereq Span 102 with a grade of C | 1-12 |


|  |  |  |  | or better, or equivalent. Profession-specific language skills training - healthcare, law enforcement, business - with emphasis on speaking and listening. |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Span | 361 | Revise | [C] Spanish for the Business Professions 3 Prereq Span 204. Specialized language training for business professionals including basic concepts and economies of Hispanic countries. | [C] Spanish for the Business Professions 3 Prereq Span 204. Specialized language training for business professionals including basic concepts and economies of Hispanic countries. Not open to native speakers except with permission. | 1-12 |
| Span | 362 | Revise | [C] Spanish for the Health Professions 3 Prereq Span 204. Specialized language training for health professionals focusing on the main systems of human anatomy. | [C] Spanish for the Business Professions 3 Prereq Span 204. Specialized language training for health professionals focusing on the main systems of human anatomy. Not open to native speakers except with permission. | 1-12 |
| Span | 363 | Revise | [C] Spanish for Law Enforcement 3 Prereq Span 204. Specialized language training in the law enforcement profession. | [C] Spanish for the Law Enforcement 3 Prereq Span 204. Specialized language training in the law enforcement profession. Not open to native speakers except with permission. | 1-12 |
| Span | 364 | Revise | [C] Spanish for Veterinarians 3 Prereq Span 204. Spanish language and culture for veterinary professionals; clientveterinarian situations with specialized terms considering cultural aspects. | [C] Spanish for Veterinarians 3 Prereq Span 204. Spanish language and culture for veterinary professionals; clientveterinarian situations with specialized terms considering cultural aspects. Not open to native speakers except with permission. | 1-12 |
| Span | 365 | Revise | [C] Spanish for Translation and Interpretation Professions 3 Prereq Span 204. Specialized Spanish language training in written translation; spoken interpretation techniques to facilitate high quality crosscultural communication. | [C] Spanish for Translation and Interpretation Professions 3 Prereq Span 204. Specialized Spanish language training in written translation; spoken interpretation techniques to facilitate high quality crosscultural communication. Not open to native speakers except with permission. | 1-12 |

## UNDERGRADUATE AND PROFESSIONAL MAJOR CHANGE BULLETIN NO. 6 <br> ---REQUIREMENTS--- <br> Fall 2011

The requirements listed below reflect the undergraduate major curricular changes approved by the Catalog Subcommittee since approval of the last Undergraduate Major Change Bulletin. All changes are underlined.

Deletions are crossed out. The column to the far right indicates the date each change becomes effective.
In the case of revisions to graduation requirements, the current GER designations are still in place. Transition to the new UCORE designations is currently under construction and is expected in early Spring 2012 in a separate bulletin.

| Dept | Proposed | Effective Date |
| :---: | :---: | :---: |
| Economic Sciences, Revise Graduation Requirements for Bachelor of Science in Economic Sciences, Financial Markets Option | Financial Markets(120 Hours) | 8-12 |
| Engineering and Computer Science WSU-Vancouver, Revise Graduation Requirements for Bachelor of Science in Mechanical Engineering | Bachelor of Science, Mechanical Engineering Requirements (Vancouver Only)(124 Hours) <br> First Year <br> First Term <br> Hours <br> Arts \& Humanities [H,G] (GER) <br> Chem 105 [P] (GER) <br> GenEd 110 [A] (GER) <br> Math 171 [N] (GER) | 8-12 |



|  | Fourth Year  <br> First Term 3 <br> Engl-402 [W] (GER) 3 <br> Mech 402 3 <br> Mech 414  <br> Mech 416 2 <br> $400-$ level Mech Option Course ${ }^{1}$ 3 <br> $400-$ level Mech Technical Elective ${ }^{1}$ 3 <br> Second Term 3 <br> Intercultural Studies [I,G,K] (GER) 3 <br> Mech 417 3 <br> Tier III Humanities or Social Science Course [T,D] (GER) 3 <br> $400-l e v e l ~ M e c h ~ O p t i o n ~ C o u r s e ~$  |  |
| :---: | :---: | :---: |
| Engineering and Computer Science WSU-Vancouver, Revise Minor in Mechanical Engineering | Mechanical Engineering <br> A minor in mechanical engineering requires 16 credits of 300-400-level Mech courses, including two of the following four courses: Mech 303, 348, 404, 414. All prerequisites for minor courses must be met. All courses must be completed with a minimum 2.0 average gpa. 9 hours of upperdivision work must be taken in residence at WSU or through WSU approved education abroad or educational exchange courses. <br> A mechanical engineering minor requires a minimum of 16 semester hours, 9 of which must be in upper-division course work and taken in residence at WSU or through WSU-approved education abroad or |  |


|  | educational exchange courses. This minor requires (1) Mech 211 and Mech 212, (2) Four out of the following Mech 431, Mech 438, Mech 450, Mech 467, Mech 468, Mech 441, Mech 309, Mech 314 , Mech 215 , Mech 303, or Mech 348. At least one of these four courses must be Mech 215 , Mech 303, or Mech 348. All prerequisites for minor courses must be met. All courses must be completed with a minimum 2.0 average gpa. |  |
| :---: | :---: | :---: |
| General Studies, Revise Minor in Global Studies | Global Studies <br> The minor requires 18 credit hours and must include 9 hours of upperdivision work taken in residence at WSU or through WSU-approved education abroad or educational exchange courses. Students should select one track from the three listed in the course requirements, and one module from those listed within each track. Some courses may be substituted with the approval of the Director of Global Studies. In particular, many course equivalents may be taken through a study abroad program, and students are encouraged to discuss these with the Director of Global Studies. Additional courses may be included within the minor as developed in the university curriculum. <br> TRACK 1-Language and Civilization: Choose one from-Com 321, Engl Z22, F A 202, For L 101, 110, 120, 130, or 220. Choose 3 courses from one of the following modules: <br> -Regional and Comparative Literatures/Film: Chin/Span 111, Chin 130, Engl 333, 334, 335, For L 410, Fren/Ger/Span 110, Fren/Ger/Rus/Span 130, Fren/Rus 430. <br> -Aesthetics and Values: Anth 303, F A 301, 302, 304, Hist 340, 341, Phil $207,220,260,314,315$, Pol S $333,437,438$, Soc 455, Theat 150, W St 375. <br> -Art, Music and Folklore: Anth 301, 303, 404, F A 404, 405, Mus 163, 265, 360, 361, 362, 363, Phil 430 <br> -Evolution of Civilizations: Anth 330, 336, Fren/Ger/Rus/Span 120, <br> Fren/Ger/Rus/Span 121, Hist 270, 273, 306, 331, 370.373, 374, Soc 415, 430. <br> -Language: 2 semesters of second year foreign language required. <br> TRACK II-Global Communities: Choose one from Anth 203, CES 212, For L 120, 220, Phil 101, Pol S 102, 103, or W St 332. Choose 5 courses from one of the following modules: <br> -Globalization: Anth 417, 418, Com 321, Econs 327, 427, 428, <br> Fren/Ger/Span 361, Hist 491, I Bus 375, 380, Pol S 314, 435, 472, R S 441, W St 316. <br> -Populations and Cultural Ecology: Anth 309, 316, 350, 370, Psych 466, R S 335, Soc 332, 415, W St 402. <br> -Conflict and Cooperation: CES 302, Hist 386, 387, 388, Pol S 428, 424, 427, 429, Psych 403, Soc 363, 480, Span 362, W St 300. <br> -Social Justice: Anth 418, 494, CES 302, 401, Crm J, 381, 405, Phil 445, | 8-12 |

470, Pols 428, SHS 250, Soc 363, Span 362, W St 330.
-Language: 2 years of high school or 2 semesters of university foreign
language courses required. Additional foreign language study is strongly
recommended.
TRACK III - Technology and Global Society: Choose one from Arch 202,
CropS 360, ES/RP 101, F A 331, For L 120, 220, FSHN 170, Geol 210,
NATRS 202. Choose 5 courses from one of the following modules:
-The Global Environment: Anth 309, 370, C E 401, Hist 409, Phil 370, Pot
S 430, R S 435, Soc 415.
-Global Resources and Human Survival: Biol 474, CES 401, CropS 201,
360, Hist 495, NATRS 441, 312, SoilS 345.
-Science and Societies: Anth 469, Biol-401, Hist 380, 382, Phil 350, 365,
Phys 380, Psych 492.
-Language: None required but foreign language study is strongly
recommended.

The minor is designed to provide students with an integrated exposure to globally related scholarship across the disciplines. To certify for the GS minor students must have completed at least 60 credit hours with a 2.0 GPA or above. To earn a GS minor, students must complete 18 credit hours of coursework from specific course categories. No courses taken Pass/Fail will count toward the 18 credit requirement. At least 9 credits of approved coursework must be taken at the 300-400 level. Six hours of transfer work may be counted toward the minor; the remaining 12 hours must be taken in residence at WSU or through WSU-approved education abroad or educational exchange courses.

Interested students should contact the Director of Global Learning at global@wsu.edu for more information.

Students will select one 3-4 credit course from five specific categories. The remaining course may be selected from the entire set of courses for the minor.

CORE course options: Anth 203; Econ S 101, 102; ES/RP 101; For L 120, 220; Pol S 102, 103, Soc 102.

Arts and Culture: Anth 301, 309, 316, 330; CES/ENGL 220; Com 321, Com 471/CES 404; FA 202; For L 101, 410; WSt 340.

Systems and Society: ASIA 301; CES 244, 380, 401; CES/ Psych 403; Crm J 205; Crops 360; Hist 314/CES 304; IBUS 435; Pol S/Anth 418; Soc 331, 415; WSt 332, 406.

Policy and Economics: Anth 417; Biol 401; CES 240, Econ S 326, 427, 428, 430; IBUS 380, 415, 416, 482; Pol S 427, 429, 432, Pol S/CrmJ 405.

|  | Technology and Science: Anth 260, 405; Arch 202; Biol 201; C E 401, 465; Entom 102, 150; FA 331; GEOL 390; MSE 440; NATRS 300; Soc 333, 430. <br> Elective course: Select one of the above courses. |  |
| :---: | :---: | :---: |
| Honors College <br> Revise <br> Undergraduate Certificate in Global Competencies. | Honors Certificate of Global Competencies <br> The Certificate of Global Competencies is an elective certificate for Honors students whose international interests and/or career objectives can be enhanced by an integrated program of language study, academic coursework, and study abroad. Students receive a notation on their transcript IN ADDITION to the Honors Certificate of Completion. The Certificate of Global Competencies builds on the courses required for the Honors Certificate of Completion. Students who enter with good foreign language preparation usually will not require extra time to complete both certificates. Twenty-three-Fifteen graded credits are required for the Certificate of Global Competencies. A minimum of 14 credits must be taken for a letter grade. At least 12 of the credits must be taken at WSU. A grade of $C$ or better must be earned in each of the required, elective and transfer courses in order to qualify for the certificate. The university undergraduate certificate fee will apply. Students are strongly encouraged to work with an Honors advisor to plan an appropriate schedule of studies. The certificate entails requirements in three four areas: 1. Foreign language competence: A minimum of 4 3-6 graded credits at the 204 level or higher, and fourth semester competence are required. Fifth semester competence is preferred. Most students will complete 6-8 graded credits in a foreign language. 2. Education abroad: A minimum of 6-9 graded credits from one term abroad or longer in an approved program. A "term" may include a summer session with a full academic load. A typical semester abroad in an approved program will result in 12-15 WSU credits. <br> 3. UH 430 and presentation ( $3-6$ credits, graded): May be completed through coursework abroad OR at WSU. UH 430 includes an oral presentation scheduled at the Honors College during the first semester following the completion of UH 430.Coursework: A minimum of 11 graded credits and 3 S,F thesis credits are required. The following courses are required: UH 300 (focused on language/culture/continent of study abroad experience), UH 330, UH 350, UH 430, and UH 450 (focus on an | 8-12 |


|  | international topic) <br> Thesis must incor developed in the international com | Honors |  |
| :---: | :---: | :---: | :---: |
| Pharmacy, <br> Revise Graduation <br> Requirements in Doctor of Pharmacy | Professional Curriculum(135 136Hours) |  | 8-12 |
|  | First Year |  |  |
|  | First Term | Hours |  |
|  | PharD 501 | 1 |  |
|  | PharD PhrSc 502 | 3 |  |
|  | PharD PhrSc 503 | 4 |  |
|  | PharD PhrSc 504 | 1 |  |
|  | PharD 505 | 2 |  |
|  | PharD 507 | 1 |  |
|  | PharD PhrSc 508 | 3 |  |
|  | PharD 509 | 1 |  |
|  | Second Term | Hours |  |
|  | PharD PhrSc 512 | 4 |  |
|  | PharD 513 | 1 |  |
|  | PharD 514 | 4 |  |
|  | PhrSc 515 | $\underline{2}$ |  |
|  | PharD 516 | 2 |  |
|  | PharD PhrSc 518 | 2 |  |
|  | PharD PhrSc 519 | 1 |  |
|  | Elective ${ }^{1}$ | 1 |  |
|  | Second Year |  |  |
|  | First Term | Hours |  |
|  | PharD 527 | 3 |  |
|  | PharD PhrSc 528 | 3 |  |
|  | PharD 531 | 1 |  |
|  | PharD PhrSc 532 | 4 |  |
|  | PharD 533 | 3 |  |
|  | PharD 534 | 4 |  |
|  | Elective ${ }^{+}$ | 1 |  |
|  | Second Term | Hours |  |
|  | PharD 541 | 1 |  |
|  | PharD PhrSc 542 | 4 |  |



|  | first three years of the curriculum. Students are required to take two <br> elective credits during the first two years of the program and two <br> elective credits during the third year of the program. Select from: PharD <br> $499,588,589,590,591,592,593,594,595,596,597,598, ~ a n d ~ 599 . ~$ <br> 2 <br> Advanced Pharmacy Practice Experiences (APPE) courses are: PharD 581, <br> $582,583,584,585,586,587$. |
| :--- | :--- | :--- | :--- | :--- |

## ---COURSES---

The courses listed below reflect the undergraduate major curricular changes approved by the Catalog Subcommittee since approval of the last Undergraduate Major Change Bulletin. All new and revised courses are printed in their entirety under the headings Current and Proposed, respectively. The column to the far right indicates the date each change becomes effective.

| Prefix | Course <br> Number |  | Current | Proposed | Effective Date |
| :---: | :---: | :---: | :---: | :---: | :---: |
| ES/RP | 250 | New | --N/A-- | Introduction to Earth System Science 3 Prereq ES/RP 101. Rec Bio 106 or Chem 105. Earth's fundamental systems (lithosphere, atmosphere, hydrosphere, and biosphere) and interactions between, and anthropogenic changes of, these systems. | 1-12 |
| Mech | 441 | New | --N/A-- | Fundamentals of Renewable Energy 3 Prereq Phys 202; Math 273. Impact of renewable energy technology including wind, solar, hydroelectricity, and alternate fuels. | 1-12 |
| Mech | 483 | New | --N/A-- | Topics in Mechanical Engineering V 1-4 Prereq certified in mechanical engineering. Current topics in mechanical engineering. | 1-12 |

## ---REQUIREMENTS--- <br> Fall 2011

The requirements listed below reflect the undergraduate major curricular changes approved by the Catalog Subcommittee since approval of the last Undergraduate Major Change Bulletin. All changes are underlined. Deletions are crossed out. The column to the far right indicates the date each change becomes effective.

| Dept | Proposed | Effective Date |
| :---: | :---: | :---: |
| Critical Culture, Gender, \& Race Studies Studies, drop minor in American Studies | A minor in American studies requires 21 hours which includes:Am St/Engl/Hist/W St 216, two courses from Am St/Engl 470, 471, or 472, two courses in an area of concentration, one course in 300-400-level American literature, and one course in 300-400-level American history. 9 hours of upper-division work must be taken in residence at WSU or through WSU approved education abroad or educational exchange eotrses. | 8-12 |
| English, revise minor in Linguistics | The student must complete 18 hours, half of which must be 300-400level, in the following courses: For L For Lang 101 or Engl-ENGLISH $256 ;$ Engl + ENGLISH 255 or PHIL 201; Engl 1 ENGLISH 443 (phonology);- Engl 443 ENGLISH 444 (syntax);-; Engl 354 or Anth 355 and ene-two from ENGLISH 454, Engl 458 ENGLISH 456 (psycholingzistics-language acquisition), Eng1 458, ENGLISH 457 (sociolinguistics), ENGLISH 458 (topics in linguistics), Anth 350, PSYCH 492, or PHIL 443. 9 hours of upper-division work must be taken in residence at WSU or through WSU-approved education abroad or educational exchange courses. | 8-12 |
| Music, revise minor in Music | Music Minor and Supporting Teaching Endorsements Choose one of the following options: Option 1 includes MUS 151 or 152 and 2 credits from MUS 181, 182, 281 or 2 credits from MUS 102, 202, 302. Option 2 includes MUS 251 and 252. Both options also include MUS 160 or 161, and one course from MUS 262, 265, 362, MUS 163, or 363 , 262 or Theat $367 ; 4$ credits of performance studies, 4 credits performing groups; and 4 credits 300-400-level music electives. Also available are supporting teaching endorsements in music for students whose primary teaching endorsements are in other majors. Credit hours for the minor must include 9 hours of upper-division work taken in residence at WSU or through WSU-approved education abroad or educational exchange courses. | 8-12 |
| Psychology, drop undergraduate certificate in Abnormal Child Psychology | The certificate in abnermal child psychology requires a minimum of 21 hours. The 9 hour core is: Psych $361,464,465.12$ hours of electives are selected from: HD 300, 301, 302, 482, Soc 362, SHS 371, 478, Psyeh $412,444,445$. A minimum gpa of 2.00 or higher is required in all coursework used for the certificate. | 8-12 |
| Psychology, drop undergraduate certificate | The certificate in helping skills requires a minimum of 20 hours. The 8 hour core is: Psych $333,440,444.12$ hours of electives are selected | 8-12 |

in Helping Skills
from: Psych 230, 265, 320, 321, 324, 363, 390, 412, 445, and 464. A minimum gpa of 2.00 or higher is required in all coursework used for the certificate.

The courses listed below reflect the undergraduate major curricular changes approved by the Catalog Subcommittee since approval of the last Undergraduate Major Change Bulletin. All new and revised courses are printed in their entirety under the headings Current and Proposed, respectively. The column to the far right indicates the date each change becomes effective.

| Prefix | Course <br> Number | New Revise Drop | Current | Proposed | Effective <br> Date |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Adver |  | Drop | Drop "Adver" prefix | --N/A-- | 8-12 |
| Adver | 495 | Drop | Advertising Professional Internship V 2 (0-6) to 12 (0-36) May be repeated for credit; cumulative maximum 12 hours. Prereq Adver 381 or 382; Mktg 360; certified major in communications; by interview only. S, F grading. | --N/A-- | 8-12 |
| Adver | 499 | Drop | Special Problems V 1 (0-3) to 4 $(0-12)$ May be repeated for credit. S, F grading. | --N/A-- | 8-12 |
| Bdest |  | Drop | Drop "Bdest" prefix | --N/A-- | 8-12 |
| Bdest | 365 | Drop | [M] News and Public Affairs for Radio 3 (2-3) Prereq Com 295; Bdcst 350; certified major in communications. | --N/A-- | 8-12 |
| Bdest | 475 | Drop | [M] Seminar in Broadcasting 3 May be repeated for credit; cumulative maximum 9 hours. Prereq certified major in communications; senior or graduate standing. | --N/A-- | 8-12 |
| COM | 101 | Revise | [S] Mass Communication, Society, and Theory 3 Mass media's influence in contemporary society. | [S] Media and Society 3 Mass media's influence in contemporary society. | 8-12 |
| COM | 105 | New | --N/A-- | Communication in Global Contexts 3 Communication processes and how they | 8-12 |


|  |  |  |  | influence human behavior and construction of social reality across global contexts. |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| COM | 210 | New | --N/A-- | Multimedia Content Creation 3 Collect, create, integrate, and distribute media content. | 8-12 |
| Com | 265 | Drop | The Murrow Legacy 3 Prereq sophomore standing. Foundational and contemporary readings and media presentations highlighting Edward R. Murrow's career including ethics, integrity, democracy, social responsibility, intercultural/international communication and understanding. | --N/A-- | 8-12 |
| COM | 295 | Revise | Media Writing 3 (2-3) Prereq Com 101; application. Writing for the media; journalistic and persuasive writing. (The typing proficiency may be waived on an individual basis for otherwise qualified students.) | Writing in Communication 3 <br> (2-3) Course Prerequisite: Certified major or minor in Communication. Journalistic and persuasive writing. (The typing proficiency may be waived on an individual basis for otherwise qualified students.) | 8-12 |
| COM | 415 | Revise | Law of Mass Communications 3 Prereqcertified major in communications; junior standing. | Media Law 3 Course <br> Prerequisite: Certified major or minor in Communication; junior standing. Basic concepts and theories of the First Amendment's protection of speech and press. | 8-12 |
| COM | 471 | Revise | [T,D] Stereotypes and The <br> Media 3 Prereq completion of one Tier I course; three Tier II courses. Examines portrayals of social groups in the media and the impact portrayals have on perceptions, expectations, and aspirations of members of portrayed groups and nonmembers. | [T,D] Stereotypes in Communication 3 Course Prerequisite: Certified in a major. Examines portrayals of social groups in the media and the impact portrayals have on perceptions, expectations, and aspirations of members of portrayed groups and nonmembers. (Course offered as COM 471, CES 404) | 8-12 |
| ComSt | 475 |  | Seminar in Communication Studies 3 May be repeated for credit; cumulative maximum 9 hours. Prereq certified major in | --N/A-- | 8-12 |


|  |  |  | communications; senior or graduate standing. |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| COMJOUR |  | New | --N/A-- | New subject "COMJOUR": Journalism and Media Production | 8-12 |
| COMJOUR | 150 | Revise | Introduction to Broadcast Equipment 1 By interview only. Orientation to broadcast equipment; audio, studio television, and field television, as applied to various functions. S, F grading. | (Bdest) Introduction to Broadcast Equipment 1 Course Prerequisite: By interview only. Orientation to broadcast equipment; audio, studio television, and field television, as applied to various functions. S, F grading. | 8-12 |
| COMJOUR | 333 | New | --N/A-- | [M] Reporting Across <br> Platforms 31 Course <br> Prerequisite: COM 295; Certified major in Communication. Instruction in reporting, writing and editing news stories that are suitable for publication and on-air presentation. | 8-12 |
| COMJOUR | 335 | New | --N/A-- | Editing Across Platforms 3 (2- <br> 3) 1 Course Prerequisite: COMJOUR 333; Certified major in Communication. Instruction in editing on various platforms, including written, audiovisual, and multimedia content. | 8-12 |
| COMJOUR | 350 | Revise | Introductionto <br> Felecommmuications 3 (2-3) <br> PrereqCom 295; certified major in communications. Fundamentals of the history, structure, economics and operations of broadeasting and eable. | (Bdest) News and Society 3 (2- <br> 3) 1 Course Prerequisite: COM 295; certified major in Communication. Fundamentals of historic, contemporary, and emerging models of news production; social contexts and effects, alternative sources, and critiques of news. | 8-12 |
| COMJOUR | 351 | Revise | Broadcast <br> Performance/Interpretation 3 <br> Prereq certified major in communications. Voice and diction, interpretation of copy for broadcast. | (ComSt) Broadcast Performance/Interpretation 3 Course Prerequisite: Certified major or minor in Communication. Voice and diction, interpretation of copy for broadcast. | 8-12 |
| COMJOUR | 355 | Revise | Studio TV Production 3 (1-6) Prereq Bdest 350; certified major in communications. | (Bdcst) Beginning Television <br> Production 3 (1-6) Course <br> Prerequisite: COM 210; certified | 8-12 |


|  |  |  |  | major in Communication; declared media production specialization. Beginning television studio production, directing, lighting, graphic design, editing, video/audio compression. |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| COMJOUR | 360 | Revise | Writing for Television 3 (2-3) Prereqcertified major in communications. Theory and practice of writing scripts: analysis of dramatic, comedic, commercial, documentary scripts; writing scripts for each genre. | (Bdest) Writing for Television 3 (2-3) Course Prerequisite: Certified major in Communication. Theory and practice of writing scripts: analysis of dramatic, comedic, commercial, documentary scripts; writing scripts for each genre. | 8-12 |
| COMJUOUR | 390 | New | --N/A-- | Acquisition and Design of Digital Content 3 (2-3) Course Prerequisite: COM 210; certified major in Communication. Acquire, design, edit, and compress quality video and audio; basic lighting techniques. | 8-12 |
| COMJUOUR | 425 | Revise | [M] Reporting of Public Affairs 3 Prereq Jour 305; certified major in communication. Research covering public and private sectors. | (Jour) [M] Reporting of Public Affairs 3 Course Prerequisite: COMJOUR 333; certified major in Communication. Research covering public and private sectors. | 8-12 |
| COMJOUR | 433 | New | --N/A-- | Advanced Radio News and Production 3 (2-3) Course Prerequisite: COMJOUR 333; certified major in Communication. Intense radio news and production course designed to refine radio news writing, reporting, and on-air presentation skills. | 8-12 |
| COMJUOUR | 455 | Revise | Field TV Production 3 (1-6) May be repeated for credit; cumulative maximum 6 hours. Prereq Bdest 350; Bdest 355; certified major in communication. Field production; editing; advanced studio production. | (Bdest) Advanced Television Production 3 (1-6) May be repeated for credit; cumulative maximum 6 hours. Course Prerequisite: COMJOUR 350; COMJOUR 355; certified major in Communication. Field production; editing; advanced studio production. | 8-12 |
| COMJOUR | 465 | Revise | [M] Broadcast News Writing, | (Bdest) [M] Advanced | 8-12 |


|  |  |  | Reporting, and Editing 3 (2-3) <br> May be repeated for credit; cumulative maximum 6 hours. Prereq Bdest 365; certified major in communications. Writing, reporting, and editing broadcast news; development and production of documentaries. | Television News 3 (2-3) May be repeated for credit; cumulative maximum 6 hours. Course Prerequisite: COMJOUR 425; certified major in Communication. Writing, reporting, and editing broadcast news; development and production of documentaries. |  |
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| COMJOUR | 466 | Revise | Digital Video Editing for News Reporting and Documentary 3 (2-3) Prereqcertified major in communications. Video editing for news reporting; feature-length editing for news and public affairs topics; documentaries; visual storytelling. | (Bdsct) Digital Video Editing for News Reporting and Documentary 3 (2-3) Course Prerequisite: Certified major in Communication. Video editing for news reporting; featurelength editing for news and public affairs topics; documentaries; visual storytelling. | 8-12 |
| COMJOUR | 475 | Revise | Seminar in Journalism 3 May be repeated for credit; cumulative maximum 9 hours. Prereq certified major in communications. | (Jour) Murrow News Service 3 <br> May be repeated for credit; cumulative maximum 9 hours. <br> Course Prerequisite: COMJOUR 425; certified major in Communication. Advanced journalism and media production to produce investigative, watchdog news reports for media outlets and public. | 8-12 |
| COMJOUR | 481 | Revise | Broadcast Management 3 Prereq certified major in communications; senior standing. | (Bdest) Broadcast <br> Management 3 Course <br> Prerequisite: Certified major in Communication; senior standing. | 8-12 |
| COMJOUR | 495 | Revise | Broadcasting Professional Internship V 2 (0-6) to 12 (0-36) May be repeated for credit; cumulative maximum 12 hours. Prereq Bdest 365,455 , or 465 ; certified major in communications; by interview only. S, F grading. | (Bdsct) Broadcasting Professional Internship V 2 (06) to 12 (0-36) May be repeated for credit; cumulative maximum 12 hours. Course Prerequisite: COMJOUR 365, 455, or 465; certified major in Communication; by interview only. S, F grading. | 8-12 |
| COMJOUR | 499 | Revise | Special Problems V 1 (0-3) to 4 $(0-12)$ May be repeated for credit. $\mathrm{S}, \mathrm{F}$ grading. | $\begin{aligned} & \text { (Bdest) Special Problems V } 1 \\ & (0-3) \text { to } 4(0-12) \text { May be } \\ & \text { repeated for credit. S, F grading. } \end{aligned}$ | 8-12 |
| COMSOC |  | New | --N/A-- | New Subject "COMSOC": Communication and Society. | 8-12 |
| COMSOC | 230 | Revise | [C] Principles of Group Communication 3 Theoretical | (ComSt 235) [C] Principles of Group Communication 3 | 8-12 |


|  |  |  | and practical aspects of communication in groups; classroom exercises and films demonstrate principles and develop skills. | Theoretical and practical aspects of communication in groups; classroom exercises and films demonstrate principles and develop skills. |  |
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| COMSOC | 235 | Revise | Organizational Communication 3 Prereq certified major in communications. Commmnication theory and organizational functions; communication influences on organizational behavior, managerial effectiveness, corporate culture, organizational power and polities. | ComSt 335) [S] <br> Organizational <br> Communication 3 Course Prerequisite: Certified major in Communication. Effective workplace communication principles and practices associated with managers and employees across a variety of industries. | 8-12 |
| COMSOC | 301 | Revise | Persuasion 3 Prereq eertified major in communications. Theories of persuasion and social action; study of strategies and techniques for the persuasive use of language and other symbols. | ComSt 401) Foundations of <br> Persuasion 3 Course <br> Prerequisite: Certified major in Communication. Theories of persuasion and social action; study of strategies and techniques for the persuasive use of language and other symbols. | 8-12 |
| COMSOC | 302 | Revise | [C] Advanced Public Speaking 3 Prereq Comse 102; certified in a major. Advanced principles of public speaking and their practical implementation for effective communication. | (ComSt) [C] Advanced Public <br> Speaking 3 Course Prerequisite: COM 102; certified in a major. Advanced principles of public speaking and their practical implementation for effective communication. | 8-12 |
| COMSOC | 321 | Revise | [I] Intercultural Communication <br> 3 Prereqeertified in a major. <br> Culture and communication. | (COM) [I] Intercultural Communication 3 Course Prerequisite: Certified in a major. Culture and communication. | 8-12 |
| COMSOC | 324 | Revise | [C, M] Argumentation 3 Prereq Comst 102; certified in a major. Theory, analysis and application of written and oral arguments in everyday use. | (COM) [C, M] Reasoning and <br> Writing 3 Course Prerequisite: Certified major in Communication. Theories of persuasion and social action; study of strategies and techniques for the persuasive use of language and other symbols. | 8-12 |
| COMSOC | 335 | Revise | Advanced Organizational Communication 3 Prereq ComSt 335; certified major in communications. Advanced | (ComSt 435) Communication and Leadership in Contemporary Organizations 3 Course Prerequisite: COMSOC | 8-12 |


|  |  |  | concepts, models and methods for in-depth analysis of contemporary organizations. | 235; COMSOC 324; certified major in Communication. Advanced concepts, models and methods for in-depth analysis and leadership of contemporary organizations. |  |
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| COMSOC | 421 | Revise | [T] Intercultural Processes in Global Contexts 3 Prereq eompletion of one Tier I course; three Tier II courses.Global cultural changes and their influences on intercultural communication including perspectives and readings from different disciplines. | (ComSt) [T] Intercultural Processes in Global Contexts 3 Course Prerequisite: Junior standing. Global cultural changes and their influences on intercultural communication including perspectives and readings from different disciplines. (Course offered as COMSOC 421, CES 421) | 8-12 |
| COMSOC | 476 | New | --N/A-- | Environmental Communication 3 Course Prerequisite: COMSOC 324; certified major in Communication. How communication shapes human understanding and decision making concerning the natural environment in local, national, and global contexts. | 8-12 |
| COMSOC | 477 | New | --N/A-- | Risk Communication 3 Course Prerequisite: COMSOC 324; certified major in Communication. Research on perceptions of risk among stakeholders about complex environmental and natural resource issues. | 8-12 |
| COMSOC | 478 | New | --N/A-- | Organizing for Social Change 3 Course Prerequisite: COMSOC 324; certified major in Communication. Models of social change campaigns, social movements, and organizing grassroots organizations. | 8-12 |
| COMSOC | 485 | Revise | Organizational Consulting 3 Develop and practice consulting skills relevant to a practical situation and apply organizational literature to a client. | (Com St) [M] Organizational Training and Consulting 3 Course Prerequisite: COMSOC 335; certified major in Communication. Develop and practice consulting and training skills relevant to a practical | 8-12 |


|  |  |  |  | situation and apply organizational literature to a client. |  |
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| COMSOC | 495 | Revise | Communication Studies Professional Internship V 2 (0-6) to $12(0-36)$ May be repeated for credit; cumulative maximum 12 hours. Prereq-by interview only. S, F grading. | (ComSt) Communication and Society Professional Internship V 2 (0-6) to 12 (0-36) May be repeated for credit; cumulative maximum 12 hours. Course Prerequisite: By interview only. S, F grading. | 8-12 |
| COMSOC | 499 | Revise | Special Problems V 1 (0-3) to 4 (0-12) May be repeated for credit. Prereq certified major in communications; by interview only. S, F grading. | (ComSt) Special Problems V 1 (0-3) to 4 (0-12) May be repeated for credit. Course Prerequisite: Certified major in Communication; by interview only. S, F grading. | 8-12 |
| ComSt | 475 | Drop | Seminar in Communication Studies 3 May be repeated for credit; cumulative maximum 9 hours. Prereq certified major in communications; senior or graduate standing. | --N/A-- | 8-12 |
| COMSTRAT |  | New | --N/A-- | New subject "COMSTRAT": <br> Strategic Communication. | 8-12 |
| COMSTRAT | 310 | New | --N/A-- | Digital Content Promotion 3 Course Prerequisite: COM 210; COM 295; certified major in Communication. Practice and promotion of public relations and advertising through digital and social media. | 8-12 |
| COMSTRAT | 312 | Revise | Principles of Public Relations 3 Prereq Com 295; certified major in communications. Principles, theories, methods and objectives of public relations; public relations problems and practices. | ( $\mathbf{P}$ R) Principles of Public Relations 3 Course Prerequisite: COM 295; certified major in Communication. Principles, theories, methods and objectives of public relations; public relations problems and practices. | 8-12 |
| COMSTRAT | 380 | Revise | Advertising Principles and Practices 3 Advertising history, theory and practice by advertising agencies and organizations. | (Adver) Advertising Principles and Practices 3 Course Prerequisite: Certified major in Communication. Advertising history, theory and practice by advertising agencies and organizations. | 8-12 |


| COMSTRAT | 381 | Revise | [M] Advertising Copywriting and Creative Strategies-3 Prereq Adver 380; certified major in communications. Development of effective advertising copy and ereative strategies. | (Adver) [M] Creative Media Strategies and Techniques 3 Course Prerequisite: COM 210; COM 295; certified major in Communication. Development of creative content for persuasive campaigns through different media. | 8-12 |
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| COMSTRAT | 382 | Revise | Media Planning 3 Prereq Adver 380; certified major in communications. Media planning theories, strategies, and practices. | (Adver) Media Planning 3 Course Prerequisite: COMSTRAT 380; certified major in Communication. Media planning theories, strategies, and practices. | 8-12 |
| COMSTRAT | 409 | Revise | Quantitative Research 3 Prereq certified major in communications. Measurement, questionnaire construction, sampling, data collection techniques, analysis and hypothesis testing in communication research. | (COM) Quantitative Research Methods 3 Course Prerequisite: Certified major or minor in Communication. Measurement, questionnaire construction, sampling, data collection techniques, analysis and hypothesis testing in communication research. | 8-12 |
| COMSTRAT | 412 | Revise | Public Relations Management and Campaign Design 3 Prereq Com 409 , P R 312, Jom 305 or P R 313; certified major in communications. Application of public relations principles, management, persuasion theory and research methods to public relations issues. | (P R) [M] Public Relations Management and Campaign Design 3 Course Prerequisite: COMSTRAT 409; COMSTRAT 312; COMJOUR 333; certified major in Communication. Application of public relations principles, management, persuasion theory and research methods to public relations issues. | 8-12 |
| COMSTRAT | 475 | Revise | Public Relations Seminar 3 May be repeated for credit; cumulative maximum 9 hours. Prereqeertified major in communications; senior or graduate standing. Theory, methods, and applications of communication and campaign management; political communication, health communication, freedom of expression, special audiences. | (P R) Strategic Communication Seminar in Public Relations 3 May be repeated for credit; cumulative maximum 9 hours. Course Prerequisite: Certified major in Communication; senior or graduate standing. Theory, methods, and applications of communication and campaign management; political communication, health | 8-12 |


|  |  |  |  | communication, freedom of expression, special audiences. |  |
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| COMSTRAT | 476 | Revise | Seminar in Advertising 3 May be repeated for credit; cumulative maximum 9 hours. Prereq eertified major in communications. | (Adver 475) Strategic Communication Seminar in Advertising 3 May be repeated for credit; cumulative maximum 9 hours. Course Prerequisite: Certified major in communication; senior or graduate standing. Theories, strategies, and practices of contemporary advertising. | 8-12 |
| COMSTRAT | 480 | Revise | Advertising Agency Operation and Campaigns 3 Prereq Adver 380; Adver 381; Adver 382; certified major in communications. Principles and functions of advertising management: campaign planning, execution, presentation and evaluation. | (Adver) Advertising Agency Operations and Campaigns 3 Course Prerequisite: COMSTRAT 380; COMSTRAT 381; COMSTRAT 382; certified major in Communication. Principles and functions of advertising management: campaign planning, execution, presentation and evaluation. | 8-12 |
| COMSTRAT | 495 | Revise | Public Relations Professional Internship V 2 (0-6) to 12 (0-36) May be repeated for credit; cumulative maximum 12 hours. Prereq Jour 305; P R 313; certified major in communications; by interview only. May be repeated for credit; cumulative maximum 12 hours. S, F grading. | (P R) Strategic <br> Communication Professional Internship V 2 (0-6) to 12 (036) May be repeated for credit; cumulative maximum 12 hours. Course Prerequisite: MKTG 360; one series: COMJOUR 333 and COMSTRAT 312, or COMSTRAT 380 and COMSTRAT 382; certified major in Communications; by interview only. S, F grading. | 8-12 |
| COMSTRAT | 499 | Revise | Special Problems V 1 (0-3) to 4 (0-12) May be repeated for credit. Prereq certified major in communications. S, F grading. | (P R) Special Problems V 1 (0- <br> 3) to 4 (0-12) May be repeated for credit. 3 Course Prerequisite: Certified major in Communication. S, F grading. | 8-12 |
| JAPANESE | 361 | New | --N/A-- | Advanced Japanese for the <br> Professions 3 Course <br> Prerequisite: JAPANESE 204. <br> Communication in Japanese for professional purposes, including letter/e-mail writing, telephoning, interpreting, roleplaying, and negotiating in the | 8-12 |


|  |  |  |  | Japanese business world. |  |
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| Jour |  | Drop | Drop "Jour" prefix | --N/A-- | 8-12 |
| Jour | 305 | Drop | [M] Reporting 3 Prereq Com 295; certified major in communications. | --N/A-- | 8-12 |
| Jour | 330 | Drop | News Editing 3 (2-3) Prereq Jour 305; certified major in communications. Basic copy editing and design skills for print media. | --N/A-- | 8-12 |
| Jour | 431 | Drop | News Editing 3 (2-3) Prereq Jour 305; certified major in communications. Basic copy editing and design skills for print media. | --N/A-- | 8-12 |
| Jour | 495 | Drop | Journalism Professional Internship V 2 (0-6) to 12 (0-36) May be repeated for credit; cumulative maximum 12 hours. Prereq Jour 305; Jour 330; Jour 425; by interview only. S, F grading. | --N/A-- | 8-12 |
| Jour | 499 | Drop | Special Problems V 1 (0-3) to 4 $(0-12)$ May be repeated for credit. S, F grading. | --N/A-- | 8-12 |
| MECH | 251 | New | --N/A-- | Numerical Computing for <br> Engineers 2 Course <br> Prereequisite: MATH 172; MATH 220 or $\mathrm{c} / /$. Introduction to numerical computing in the context of problem solving including data analysis, data visualization, MATLAB programming and numerical techniques. | 8-12 |
| NEP | 370 | New | --N/A-- | Physiological Biochemistry 3 Course Prerequisite: 8 hours of chemistry; 3 hours biology. Biochemical foundations of human physiology; biochemistry of carbohydrate, amino acid, and lipid homeostasis from the molecular to the physiological level. | 8-12 |
| P R |  | Drop | Drop "P R" prefix | --N/A-- | 8-12 |
| P R | 313 | Drop | [M] Public Relations Techniques | --N/A-- | 8-12 |


|  |  |  | and Media Usage 3 (2-3) Prereq Com 295; Jour 305; P R 312; certified major in communications. Practical applications of public relations theory and techniques with emphasis on writing and media use. |  |  |
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| SOC | 334 | New | --N/A-- | Issues in Global Human Health 3 Human populations and life expectancies; inequity across global regions. | 8-12 |
| VET MED | 522 | Revise | Fundamentals of Pharmacology $z$ Prereq veterinary medicine student. Pharmacokinetics and fundamentals of drug action. S, M, F grading. | Fundamentals of Pharmacology 3 Course Prerequisite: Veterinary Medicine student. Fundamentals of pharmacology, including pharmacokinetics (absorption, distribution, metabolism, excretion), receptor theory and general mechanisms of drug action.- S, M, F grading. | 8-12 |
| VET MED | 566 | New | --N/A-- | Population Theriogenology Food Animal 3 (2-1) Course Prerequisite: Veterinary medicine student. Population theriogenology in food animal or mixed animal practice. | 8-12 |

