

## UNDERGRADUATE COURSES OFFERED BY THE SCHOOL OF BIOLOGICAL SCIENCES WSU, PULLMAN CAMPUS

Note: Course offerings, semesters taught, and prerequisites, are all subject to change without notice.

Key- S: Spring, Su: Summer, F: Fall

| Course      | Semesters Offered | Course Title                                    | Credits | Designation | Lab Course | Prerequisites   | Comments   |
|-------------|-------------------|---|---------|-------------|------------|---|--|
| BIOLOGY 101 | S,Su,F            | Biology of Humans                               | 3       | [BSCI]      | N          |   | Not for SBS majors                                   |
| BIOLOGY 102 | S,Su,F            | General Biology                                 | 4       | [BSCI]      | Y          |   | Not for SBS majors                                   |
| BIOLOGY 105 | S,Su,F            | General Biology Laboratory                      |         | [BSCI]      | Y          | Junior Standing   | Not for SBS majors                                   |
| BIOLOGY 106 | S,Su,F            | Introductory Biology: Organismal Biology        | 4       | [BSCI]      | Y          |   |  |
| BIOLOGY 107 | S,Su,F            | Introductory Biology: Cell Biology and Genetics | 4       | [BSCI]      | Y          | 2 credits 100 level chem (or concurrent)                          |  |
| BIOLOGY 110 | S,F               | Scientific perspective on global issues         | 3       | [BSCI]      | N          |   | Not for SBS majors                                   |
| BIOLOGY 120 | F                 | Introductory Botany                             | 4       | [BSCI]      | Y          |   | Not for SBS majors                                   |
| BIOLOGY 125 | S                 | Genetics and Society                            | 3       | [BSCI]      | N          |   | Not for SBS majors                                   |
| BIOLOGY 130 | Irregular         | Biology of the Oceans                           | 3       |             | N          |   | Not for SBS majors                                   |
| BIOLOGY 135 | F (odd years)     | Animal Natural History                          | 3       | [BSCI]      | N          |   | Not for SBS majors                                   |
| BIOLOGY 140 | S,Su,F            | Intro nutrition                                 | 3       | [BSCI]      | N          |   | Not for SBS majors                                   |
| BIOLOGY 150 | Irregular         | Evolution                                       | 3       | [BSCI]      | Y          |   | Not for SBS majors                                   |
| BIOLOGY 201 | Ending S 2014     | Contemporary Biology                            | 1       |             | N          | BIOLOGY 101, 102, 106, 107, 120, or MBIOS 101                     | Not for SBS majors                                   |
| BIOLOGY 210 | S                 | Your Future in Life Sciences                    | 2       |             | N          |   | Career Opportunities (Also as MBIOS and SCIENCE 210) |
| BIOLOGY 220 | S                 | Medical terminology                             | 2       |             | N          | BIOLOGY 101, 102,106,107, or KINES 262                            |  |
| BIOLOGY 251 | Su,F              | Introductory Human Physiology                   | 4       |             | Y          | BIOLOGY 102, 106, or 107  | Credit not granted for both BIOLOGY 251 and 353.     |
| BIOLOGY 301 | S,Su,F            | General Genetics                                | 4       |             |            | BIOLOGY 106 or 120; BIOLOGY 107; CHEM 101 or 105; CHEM 102 or 106 | Also as MBIOS 301                                    |

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|-------------|-------------------|--|---------|-------------|------------|---|---|
| BIOLOGY 315 | S,F               | Gross and Microanatomy                 | 4       |             | Y          | At least 3 hours of BIOLOGY; sophomore standing; cumulative WSU gpa 2.5 or better   |   |
| BIOLOGY 321 | F                 | Principles of Animal Development       | 4       | [M]         | Y          | BIOLOGY 106, 107. <i>Recommended:</i> BIOLOGY 301   |   |
| BIOLOGY 322 | F (even years)    | Invertebrate Biology                   | 4       | [M]         | Y          | BIOLOGY 106   |   |
| BIOLOGY 324 | S                 | Comparative Vertebrate Anatomy         | 4       |             | Y          | BIOLOGY 106   |   |
| BIOLOGY 330 | S,Su              | Principles of Conservation             | 3       |             | N          | BIOLOGY 102, 106, or 107  |   |
| BIOLOGY 333 | S,F               | Human Nutrition and Health             | 3       | [BSCI]      | N          | BIOLOGY 106, 107, or 251, or 315  | Replaces BIOLOGY 233, 331 beginning Fall 2014   |
| BIOLOGY 332 | S                 | Systematic botany                      | 4       | [M]         | Y          | BIOLOGY 106 or 120  |   |
| BIOLOGY 335 | F                 | Genome Biology                         | 3       |             | N          | BIOLOGY 301   |   |
| BIOLOGY 340 | S                 | Introduction to Mathematical Biology   | 3       |             | N          | MATH 140 with a C or better, or MATH 172 with a C or better, or MATH 182 with a C or better; BIOLOGY 101, BIOLOGY 102, BIOLOGY 106, or BIOLOGY 107. | Also as MATH 340                                |
| BIOLOGY 350 | F                 | Comparative Physiology                 | 4       |             | Y          | BIOLOGY 107; CHEM 345   |   |
| BIOLOGY 352 | F                 | Cell Physiology                        | 3       |             | N          | BIOLOGY 107; CHEM 345   |   |
| BIOLOGY 353 | S                 | Advanced Human Physiology              | 4       |             | Y          | <i>Recommended:</i> 315 or 354  | Credit not granted for both BIOLOGY 251 and 353 |
| BIOLOGY 372 | S,Su,F            | General Ecology                        | 4       | [M]         | Y          | BIOLOGY 106; CHEM 102 or 105  |   |
| BIOLOGY 393 | S,F               | Professional Communications in Biology | 2       | [M]         | N          | Certified major in Biology or Zoology or General Biological Sciences or General Studies Basic Medical Sciences                                      |   |
| BIOLOGY 394 | S                 | Medicine as a Career                   | 1       |             | N          | Junior standing   | S/F grading                                     |
| BIOLOGY 401 | S                 | Plants and People                      | 3       | [T]         | N          | BIOLOGY 102,106, or 120, Junior standing  |   |
| BIOLOGY 405 | S                 | Principles of Organic Evolution        | 3       |             | Y          | BIOLOGY 301   |   |
| BIOLOGY 407 | S                 | Biology of Women                       | 3       | [T], [BSCI] | N          | BIOLOGY 102 or 106  | Also as Women St 407                            |
| BIOLOGY 408 | S                 | Contemporary Genetics                  | 3       | [T], [CAPS] | N          | BIOLOGY 301 with a C or better; junior standing   |   |
| BIOLOGY 409 | F (even years)    | Plant Anatomy                          | 4       |             | Y          | BIOLOGY 106 or 120  |   |

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|-------------|-------------------------------|--|---------|-------------|------------|--|--|
| BIOLOGY 410 | F (odd years)                 | Marine ecology                           | 3       |             | N          | BIOLOGY 107  |  |
| BIOLOGY 412 | F (even years)                | Biology and Management of Fishes         | 3       |             | Y          | BIOLOGY 106  |  |
| BIOLOGY 418 | F                             | Parasitology                             | 4       | [M]         | Y          | BIOLOGY 102 or BIOLOGY 106; junior standing  |  |
| BIOLOGY 420 | F                             | Plant Physiology                         | 3       |             | N          | BIOLOGY 106 or 120, <i>Recommended: organic chemistry</i>  |  |
| BIOLOGY 421 | F (irregular)                 | Plant Physiology Laboratory              | 1       |             | Y          | BIOLOGY 420 or concurrent enrollment   |  |
| BIOLOGY 423 | S (even years)                | Ornithology                              | 4       |             | Y          | BIOLOGY 106  | Field trips required include two Saturdays.  |
| BIOLOGY 428 | S (odd years)                 | Mammalogy                                | 4       |             | Y          | BIOLOGY 106  |  |
| BIOLOGY 430 | F                             | Methods of Teaching Science              | 3       |             | N          | Junior standing  | Also as SCIENCE 430  |
| BIOLOGY 432 | S (even years)                | Biology of Amphibians and Reptiles       | 4       | [M]         | Y          |  |  |
| BIOLOGY 438 | F (even years), S (odd years) | Animal Behavior                          | 3       | [M]         | Y          | BIOLOGY 106  |  |
| BIOLOGY 462 | F                             | Community Ecology                        | 3       |             | N          | BIOLOGY 106, <i>Recommended: BIOLOGY 372</i>   | Credit not granted for both BIOLOGY 462 and BIOLOGY 562. Recommended preparation: BIOLOGY 372. Offered at 400 and 500 level. |
| BIOLOGY 469 | S odd                         | Ecosystems Ecology and Global Change     | 3       |             | N          |  |  |
| BIOLOGY 475 | S even                        | Systems Biology of Reproduction          | 3       |             | N          |  |  |
| BIOLOGY 476 | S odd                         | Epigenetics                              | 3       |             | N          | Biology 301  |  |
| BIOLOGY 483 | F                             | Organisms and Global Change              | 3       | [CAPS]      | N          | BIOLOGY 372, junior standing   |  |
| BIOLOGY 490 | S, F                          | Professional Seminar in Physical Therapy | 2       | [M]         |            | By permission only.  | A,S,F grading  |
| BIOLOGY 491 | S,Su,F                        | Clinical Experience                      | 1-4     |             |            | PSYCH 105; BIOLOGY 315; junior standing; by permission only  | S/F Grading  |
| BIOLOGY 492 | irregular                     | Topics in Biology                        | 1-3     |             |            |  |  |
| BIOLOGY 494 | S                             | Seminar in Mathematical Biology          | 1       |             |            | MATH 140 with a C or better, or MATH 172 with a C or better, or MATH 182 with a C or better; BIOLOGY 101, BIOLOGY 102, BIOLOGY 106, or BIOLOGY 107 | Also as Math 494   |

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|---|--|---------------------------------------|---------|-------------|------------|--|--------------------------------------|
| BIOLOGY 495   |  | Internship in Botany, Biology Zoology | V1-4    |             |            | By permission only.  | S/F Grading                          |
| BIOLOGY 496   |  | Special problems and reports          | V1-4    | [M]         |            | By permission only   | S/F Grading                          |
| BIOLOGY 497   |  | Instructional Practicum               | V1-4    |             |            | Primarily for Biology 315 Student assistants   |                                      |
| BIOLOGY 499   |  | Special Problems                      | V1-4    |             |            | By permission only   | S/F Grading                          |
| SCIENCE 101   | F  | Origins in the Natural World          | 4       | [BSCI]      | Y          |  | Not for SBS majors                   |
| SCIENCE 102   | S  | Dynamic Systems in the Natural world  | 4       | [BSCI]      | Y          |  | Not for SBS majors                   |
| SCIENCE 298   | S  | Honors Biology for non-science majors | 4       | [BSCI]      | Y          |  | Not for SBS majors                   |
| SCIENCE 430   | F  | Methods of Teaching Science           | 3       |             | N          | Junior standing  | Also as BIOLOGY 430                  |
| 500 level   | <b>Some graduate classes may be taken by undergraduates by special permission.</b> |                                       |         |             |            |  |                                      |
| <b>WSU Vancouver courses that may be acceptable as electives</b>  |  |                                       |         |             |            |  |                                      |
| Course  | Semesters Offered  | Course Title                          | Credits | Designation | Lab Course | Prerequisites  | Comments                             |
| BIOLOGY 308   | Inquire  | Marine Biology                        | 3       | [BSCI]      | N          | BIOLOGY 106  |                                      |
| BIOLOGY 354   | Inquire  | Human Anatomy for Health Occupations  | 3       |             |            | BIOLOGY 107; CHEM 345; certified major in Biology  | Vancouver alternative to Pullman 315 |
| BIOLOGY 390   | Inquire  | Stream Monitoring                     | 1       |             | Y          | BIOLOGY 101, 102, or 106; CHEM 101 or 105; junior standing   |                                      |
| BIOLOGY 403   | Inquire.   | Evolutionary Biology                  | 3       |             | N          | BIOLOGY 301  | Vancouver alternative to Pullman 405 |
| BIOLOGY 456   | Inquire  | Neuroethology                         | 3       |             | N          | BIOLOGY 301, MBIOS 303, or 300-level NEUROSCI course; STAT 412 or concurrent enrollment              |                                      |
| BIOLOGY 480   | Inquire  | Writing in Biology                    |         | [M]         |            | Certified in Biology, Zoology, General Biological Sciences or General Studies Basic Medical Sciences |                                      |
| BIOLOGY 486   | Inquire  | Marine Invertebrate Communities       | 2       |             |            | BIOLOGY 106; BIOLOGY 107   | Summer field course                  |
| <b>WSU Tri-Cities courses that may be acceptable as electives</b> |  |                                       |         |             |            |  |                                      |
| Course  | Semesters Offered  | Course Title                          | Credits | Designation | Lab Course | Prerequisites  | Comments                             |
| BIOLOGY 465   | Inquire  | Field Stream Ecology                  | 2       |             | N          | BIOLOGY 72   |                                      |