

# SECONDARY EDUCATION: NATURAL SCIENCE BA/BS

## General Education Requirements

| Code                                                                           | Title                                                       | Credits   |
|--------------------------------------------------------------------------------|-------------------------------------------------------------|-----------|
| <b>Written Communication</b>                                                   |                                                             |           |
| Select one of the following:                                                   |                                                             | 6.00      |
| ENGL-101<br>& ENGL-102                                                         | WRITING AND RHETORIC I<br>and WRITING AND RHETORIC II       |           |
| ENGL-109                                                                       | COLLEGE WRITING AND RESEARCH                                |           |
| <b>Oral Communication</b>                                                      |                                                             |           |
| Select one from the following:                                                 |                                                             | 3.00      |
| COMM-101                                                                       | FUNDAMENTALS OF ORAL COMMUNICATION                          |           |
| COMM-203                                                                       | SMALL GROUP COMMUNICATION                                   |           |
| COMM-204                                                                       | PUBLIC SPEAKING                                             |           |
| <b>Mathematical Ways of Knowing</b>                                            |                                                             |           |
| Select one of the following:                                                   |                                                             | 3.00-5.00 |
| MATH-143                                                                       | PRECALCULUS I: ALGEBRA                                      |           |
| MATH-147                                                                       | PRECALCULUS                                                 |           |
| MATH-170                                                                       | CALCULUS I                                                  |           |
| <b>Humanistic &amp; Artistic Ways of Knowing</b>                               |                                                             |           |
| Select two courses from two different categories (Literature, Arts, Language): |                                                             | 6.00-7.00 |
| <b>Literature</b>                                                              |                                                             |           |
| ENGL-175                                                                       | LITERATURE AND IDEAS                                        |           |
| ENGL-257                                                                       | WORLD CLASSICS                                              |           |
| ENGL-258                                                                       | INTERNATIONAL LITERATURE                                    |           |
| ENGL-260                                                                       | NATIVE AMERICAN LITERATURE                                  |           |
| ENGL-261                                                                       | MYTHOLOGIES                                                 |           |
| <b>Arts</b>                                                                    |                                                             |           |
| ART-100                                                                        | INTRODUCTION TO ART                                         |           |
| HUM-101                                                                        | THE ART AND HISTORY OF THE MOTION PICTURE                   |           |
| HUM-150                                                                        | INTRODUCTION TO THE ARTS                                    |           |
| MUS-101                                                                        | SURVEY OF MUSIC                                             |           |
| MUS-102                                                                        | MUSIC IN AMERICA                                            |           |
| MUS-150                                                                        | WORLD MUSIC                                                 |           |
| MUS-151                                                                        | HISTORY OF MUSICAL THEATER                                  |           |
| MUS-152                                                                        | HISTORY OF JAZZ AND POPULAR MUSIC STYLES                    |           |
| THEA-101                                                                       | SURVEY OF THE THEATER                                       |           |
| <b>Language</b>                                                                |                                                             |           |
| NP-101                                                                         | NEZ PERCE LANGUAGE AND CULTURE                              |           |
| NP-102                                                                         | NEZ PERCE LANGUAGE AND HISTORY                              |           |
| SPAN-101                                                                       | ELEMENTARY SPANISH I                                        |           |
| SPAN-102                                                                       | ELEMENTARY SPANISH II                                       |           |
| <b>Scientific Ways of Knowing</b>                                              |                                                             |           |
| Select two of the following:                                                   |                                                             | 8.00      |
| CHEM-111                                                                       | PRINCIPLES OF CHEMISTRY I                                   |           |
| PHYS-111<br>or PHYS-211                                                        | GENERAL PHYSICS I<br>PHYSICS FOR SCIENTISTS AND ENGINEERS I |           |
| <b>Social &amp; Behavioral Ways of Knowing</b>                                 |                                                             |           |
| Select one course from two disciplines:                                        |                                                             | 6.00      |
| ANTH-102                                                                       | CULTURAL ANTHROPOLOGY                                       |           |
| ANTH-120                                                                       | WORLD PREHISTORY                                            |           |

|          |                                         |
|----------|-----------------------------------------|
| ANTH-170 | INTRODUCTION TO NATIVE AMERICAN STUDIES |
| ECON-201 | PRINCIPLES OF MACROECONOMICS            |
| ECON-202 | PRINCIPLES OF MICROECONOMICS            |
| GEOG-102 | INTRODUCTION TO GEOGRAPHY               |
| HIST-101 | WORLD HISTORY I                         |
| HIST-102 | WORLD HISTORY II                        |
| HIST-111 | UNITED STATES HISTORY I                 |
| HIST-112 | UNITED STATES HISTORY II                |
| HRPT-184 | DIVERSITY IN ORGANIZATIONS              |
| HRPT-185 | HUMAN RELATIONS IN ORGANIZATIONS        |
| POLS-101 | AMERICAN NATIONAL GOVERNMENT            |
| POLS-237 | INTERNATIONAL POLITICS                  |
| POLS-285 | COMPARATIVE GOVERNMENT                  |
| PSYC-101 | INTRODUCTION TO GENERAL PSYCHOLOGY      |
| PSYC-205 | LIFESPAN DEVELOPMENTAL PSYCHOLOGY       |
| SOC-101  | INTRODUCTION TO SOCIOLOGY               |
| SOC-102  | SOCIAL PROBLEMS                         |
| SS-184   | DIVERSITY IN ORGANIZATIONS              |
| SS-185   | HUMAN RELATIONS IN ORGANIZATIONS        |

**Global Perspectives**

Select one of the following: 3.00-4.00

|          |                                         |
|----------|-----------------------------------------|
| ANTH-102 | CULTURAL ANTHROPOLOGY                   |
| ANTH-120 | WORLD PREHISTORY                        |
| ANTH-170 | INTRODUCTION TO NATIVE AMERICAN STUDIES |
| ANTH-360 | RACE AND ETHNICITY                      |
| COMM-345 | INTERCULTURAL COMMUNICATION             |
| ENGL-258 | INTERNATIONAL LITERATURE                |
| ENGL-474 | NATIVE AMERICAN WRITTEN LITERATURE      |
| GEOG-102 | INTRODUCTION TO GEOGRAPHY               |
| HIST-101 | WORLD HISTORY I                         |
| HIST-102 | WORLD HISTORY II                        |
| HIST-111 | UNITED STATES HISTORY I                 |
| HIST-112 | UNITED STATES HISTORY II                |
| HRPT-184 | DIVERSITY IN ORGANIZATIONS              |
| ID-300C  | ETHICS AND IDENTITY                     |
| KIN-220  | SOCIAL-CULTURAL ASPECTS OF SPORTS       |
| NP-101   | NEZ PERCE LANGUAGE AND CULTURE          |
| NP-102   | NEZ PERCE LANGUAGE AND HISTORY          |
| POLS-285 | COMPARATIVE GOVERNMENT                  |
| SOC-101  | INTRODUCTION TO SOCIOLOGY               |
| SPAN-101 | ELEMENTARY SPANISH I                    |
| SPAN-102 | ELEMENTARY SPANISH II                   |
| SPAN-201 | INTERMEDIATE SPANISH I                  |
| SPAN-202 | INTERMEDIATE SPANISH II                 |

**Integrative Seminar: Ethics & Values**

Select one of the following: 3.00

|                                                      |
|------------------------------------------------------|
| ID 300A - 300Z (see course descriptions for options) |
| ID-301A HELLS CANYON INSTITUTE                       |

**Total Credits****38.00-42.00**

## Program Requirements

Secondary certification candidates must meet the graduation requirements for their major and the Secondary Teacher Education Program and must have two advisors. (see below)

| Code                                                   | Title                                 | Credits      |
|--------------------------------------------------------|---------------------------------------|--------------|
| <b>Natural Science Program</b>                         |                                       |              |
| BIOL-181                                               | ECOLOGY, EVOLUTION, DIVERSITY OF LIFE | 4.00         |
| BIOL-182                                               | CONCEPTS IN CELLULAR MECHANISMS       | 4.00         |
| CHEM-112                                               | PRINCIPLES OF CHEMISTRY II            | 4.00         |
| GEOL-101                                               | PHYSICAL GEOLOGY                      | 4.00         |
| or GEOL-120                                            | INTRODUCTION TO EARTH SYSTEMS         |              |
| GEOL-202                                               | HISTORICAL GEOLOGY                    | 4.00         |
| PHYS-111                                               | GENERAL PHYSICS I                     | 4.00         |
| PHYS-112                                               | GENERAL PHYSICS II                    | 4.00         |
| PHYS-205                                               | DESCRIPTIVE ASTRONOMY                 | 4.00         |
| MATH-144                                               | PRECALCULUS II: TRIGONOMETRY          | 2.00         |
| Select one of the following:                           |                                       | 4.00         |
| CS-108                                                 | INTRODUCTION TO COMPUTER SCIENCE      |              |
| CS-111                                                 | COMPUTER SCIENCE 1                    |              |
| <b>Area of Emphasis</b>                                |                                       |              |
| Select 12 credits from one emphasis below              |                                       | 12.00        |
| <b>Secondary Education Certificate</b>                 |                                       |              |
| See Secondary Education Certificate Requirements below |                                       |              |
| <b>Total Credits</b>                                   |                                       | <b>50.00</b> |

<sup>1</sup> Additional requirements must be met for teacher certification. See your Teacher Education Division advisor for details.

## Areas of Emphasis

### Biology Emphasis

| Code                                                  | Title                              | Credits      |
|-------------------------------------------------------|------------------------------------|--------------|
| BIOL-213                                              | PLANT AND ANIMAL FORM AND FUNCTION | 4.00         |
| Select 8 credits from BIOL from the 200/300/400 level |                                    | 8.00         |
| <b>Total Credits</b>                                  |                                    | <b>12.00</b> |

### Chemistry Emphasis

| Code                                              | Title                   | Credits      |
|---------------------------------------------------|-------------------------|--------------|
| CHEM-371                                          | ORGANIC CHEMISTRY I     | 3.00         |
| CHEM-373                                          | ORGANIC CHEMISTRY I LAB | 1.00         |
| Select 4 credits from CHEM from the 300/400 level |                         | 4.00         |
| Select one of the following:                      |                         | 4.00         |
| CHEM-325                                          | QUANTITATIVE ANALYSIS   |              |
| CHEM-481                                          | BIOCHEMISTRY I          |              |
| <b>Total Credits</b>                              |                         | <b>12.00</b> |

### Earth Science Emphasis

| Code                                                            | Title | Credits      |
|-----------------------------------------------------------------|-------|--------------|
| Select 4 credits from GEOL or GIS course numbered 200 or higher |       | 4.00         |
| Select 8 credits from GEOL course numbered 300 level or higher  |       | 8.00         |
| <b>Total Credits</b>                                            |       | <b>12.00</b> |

## Secondary Education Certificate Requirements

Application for admission to the Teacher Education Program is required after successful completion of the first three Phase I courses.

| Code                                                   | Title                                                   | Credits      |
|--------------------------------------------------------|---------------------------------------------------------|--------------|
| <b>Phase I - Professional Foundations of Education</b> |                                                         |              |
| ED-214                                                 | PRINCIPLES OF EDUCATION <sup>1</sup>                    | 3.00         |
| ED-225                                                 | TECHNOLOGIES FOR TEACHING, K-12                         | 3.00         |
| ED-318                                                 | ASSESSMENT OF LEARNING <sup>1</sup>                     | 3.00         |
| ED-321                                                 | EDUCATIONAL PSYCHOLOGY <sup>1</sup>                     | 3.00         |
| ED-345                                                 | CULTURALLY RELEVANT TEACHING                            | 3.00         |
| SE-322                                                 | INCLUSION STRATEGIES K-12                               | 3.00         |
| <b>Phase II - Professional Studies in Education</b>    |                                                         |              |
| ED-445                                                 | INSTRUCTIONAL STRATEGIES AND CLASSROOM MANAGEMENT, 6-12 | 3.00         |
| ED-447                                                 | TEACHING METHODS IN THE CONTENT AREA                    | 2.00         |
| RE-309                                                 | DISCIPLINARY LITERACY                                   | 3.00         |
| <b>Phase III - Instructional Methods in Education</b>  |                                                         |              |
| ED-452                                                 | INTERNSHIP SEMINAR                                      | 1.00         |
| ED-460                                                 | PROFESSIONAL INTERNSHIP IN EDUCATION 6-12               | 12.00        |
| <b>Total Credits</b>                                   |                                                         | <b>39.00</b> |

<sup>1</sup> Additional requirements must be met for teacher certification. See your Teacher Education Division advisor for details.

No grade lower than a "C-" will be accepted in any General Education core, Content Major, or 200-level Professional Foundations course. No grade lower than a "B-" will be accepted in any 300- or 400-level courses in Secondary Education.

A minimum cumulative GPA of 3.0 is required for admission into the Secondary Teacher Education Program. Candidates must also maintain a 3.0 cumulative GPA in their content area classes.

## Sequential Plan of Study

| Course                  | Title                                                | Credits            |
|-------------------------|------------------------------------------------------|--------------------|
| <b>First Year</b>       |                                                      |                    |
| <b>Fall</b>             |                                                      |                    |
| BIOL-181                | ORGANISMAL BIOLOGY                                   | 4.00               |
| CORE                    | MATH-143 or MATH-147                                 | 3.00-5.00          |
| CORE                    | Oral Communication                                   | 3.00               |
| ENGL-101                | WRITING AND RHETORIC I                               | 3.00               |
| PSYC-205                | LIFESPAN DEVELOPMENTAL PSYCHOLOGY                    | 3.00               |
| <b>Credits</b>          |                                                      | <b>16.00-18.00</b> |
| <b>Spring</b>           |                                                      |                    |
| BIOL-182                | CELLULAR BIOLOGY                                     | 4.00               |
| CORE                    | Humanistic & Artistic Ways of Knowing                | 3.00               |
| CORE                    | Social & Behavioral Ways of Knowing                  | 3.00               |
| ENGL-102                | WRITING AND RHETORIC II                              | 3.00               |
| Program Requirement     | Select Emphasis course                               | 3.00               |
| <b>Credits</b>          |                                                      | <b>16.00</b>       |
| <b>Second Year</b>      |                                                      |                    |
| <b>Fall</b>             |                                                      |                    |
| CORE                    | Humanistic & Artistic Ways of Knowing                | 3.00               |
| CORE                    | Global Perspectives                                  | 3.00               |
| CHEM-111                | PRINCIPLES OF CHEMISTRY I                            | 4.00               |
| GEOL-101<br>or GEOL-120 | PHYSICAL GEOLOGY<br>or INTRODUCTION TO EARTH SYSTEMS | 4.00               |
| <b>Credits</b>          |                                                      | <b>14.00</b>       |

**Spring**

|                     |                                                           |      |
|---------------------|-----------------------------------------------------------|------|
| CORE                | Integrative Seminar: Ethics & Values                      | 3.00 |
| GEOL-202            | HISTORICAL GEOLOGY                                        | 4.00 |
| CS-108<br>or CS-111 | INTRODUCTION TO COMPUTER SCIENCE<br>or COMPUTER SCIENCE I | 4.00 |
| NS-150              | INTRODUCTION TO NATURAL SCIENCES                          | 3.00 |

|                |              |
|----------------|--------------|
| <b>Credits</b> | <b>14.00</b> |
|----------------|--------------|

**Third Year****Fall**

|                     |                            |      |
|---------------------|----------------------------|------|
| CHEM-112            | PRINCIPLES OF CHEMISTRY II | 4.00 |
| PHYS-111            | GENERAL PHYSICS I          | 4.00 |
| PHYS-112            | GENERAL PHYSICS II         | 4.00 |
| PHYS-205            | DESCRIPTIVE ASTRONOMY      | 4.00 |
| Program Requirement | Select Emphasis course     | 3.00 |

|                |              |
|----------------|--------------|
| <b>Credits</b> | <b>19.00</b> |
|----------------|--------------|

**Spring**

|                     |                        |      |
|---------------------|------------------------|------|
| Program Requirement | Select Emphasis course | 3.00 |
| Program Requirement | Select Emphasis course | 3.00 |

|                |             |
|----------------|-------------|
| <b>Credits</b> | <b>6.00</b> |
|----------------|-------------|

|                      |                    |
|----------------------|--------------------|
| <b>Total Credits</b> | <b>85.00-87.00</b> |
|----------------------|--------------------|

## Secondary Education Certificate Requirements

| Course               | Title                                                   | Credits      |
|----------------------|---------------------------------------------------------|--------------|
| <b>First Year</b>    |                                                         |              |
| <b>Fall</b>          |                                                         |              |
| ED-214               | PRINCIPLES OF EDUCATION                                 | 3.00         |
| ED-225               | TECHNOLOGIES FOR TEACHING, K-12                         | 3.00         |
| ED-318               | ASSESSMENT OF LEARNING                                  | 3.00         |
| ED-321               | EDUCATIONAL PSYCHOLOGY                                  | 3.00         |
| ED-345               | CULTURALLY RELEVANT TEACHING                            | 3.00         |
| <b>Credits</b>       |                                                         | <b>15.00</b> |
| <b>Spring</b>        |                                                         |              |
| ED-445               | INSTRUCTIONAL STRATEGIES AND CLASSROOM MANAGEMENT, 6-12 | 3.00         |
| ED-447               | TEACHING METHODS IN THE CONTENT AREA                    | 2.00         |
| RE-309               | DISCIPLINARY LITERACY                                   | 3.00         |
| SE-322               | INCLUSION STRATEGIES K-12                               | 3.00         |
| <b>Credits</b>       |                                                         | <b>11.00</b> |
| <b>Second Year</b>   |                                                         |              |
| <b>Fall</b>          |                                                         |              |
| ED-452               | INTERNSHIP SEMINAR                                      | 1.00         |
| ED-461               | PROFESSIONAL INTERNSHIP IN EDUCATION K-12               | 12.00        |
| <b>Credits</b>       |                                                         | <b>13.00</b> |
| <b>Total Credits</b> |                                                         | <b>39.00</b> |

Graduates with a BA/BS in Natural Science: Secondary Education go on to obtain careers in a variety of fields:

- Secondary Science Teacher (6-12)
- Adult and Continuing Education
- Training Specialist
- Business and Industry
- Research

- Lab Technician
- Instructional Coach