Advising Worksheet<br>Bachelor of Science Degree Major in Broadfield Science<br>Teaching Licensure Option<br>General Bulletin 2023-2024

Transfer Institution(S):
$\qquad$
$\qquad$
$\qquad$
Montana State University Billings
Advising Center
Name $\qquad$
Phone: 657-2240
Fax: 406-657-2302
advising@msubillings.edu
Student ID \# $\qquad$
www.msubillings.edu/advise/
General Education Requirements - See Attached Page for Specific Courses


A minimum grade of "C" required in all General Education courses.
\#= Required for Admission to the Teacher Education Program

## General Education Requirements

| Category I: Global Academic Skills |  |  | 9 credits |
| :---: | :---: | :---: | :---: |
| Students are required to take one course from each subcategory |  |  |  |
| Subcategory A - Mathematics |  |  | 3 credits |
| M | 105 | Contemporary Mathematics | 3 |
| M | 114 | Extended Technical Mathematics | 3 |
| M | 121 | College Algebra | 3 |
| M | 122 | College Trigonometry | 3 |
| M | 130 | Mathematics for Elementary Teachers I | I |
| M | 140 | College Math for Healthcare | 3 |
| M | 143 | Finite Mathematics | 4 |
| M | 161 | Survey of Calculus | 3 |
| M | 171 | Calculus I | 4 |
| STAT | 141 | Introduction to Statistical Concepts | 3 |
| Stat | 216 | Introduction to Statistics | 4 |


| Subcategory B |  |  | English |
| :--- | :---: | :--- | ---: |
| WRIT | $\mathbf{1 0 1}$ | College Writing I | $\mathbf{3}$ credits |
| WRIT | 121 | Introduction to Technical Writing | $\mathbf{3}$ |
| WRIT | 122 | Introduction to Business Writing | 3 |
| WR | 3 |  |  |

Subcategory C- Communication \& Information Literacy $\mathbf{3}$ credits COMX 111 Introduction to Public Speaking 3 OR
COMX 115 Introduction to Interpersonal Communication3


| CATEGORY III: |  |  |  |
| :--- | :--- | :--- | :--- |
| Students are required to take one course from each subcategory |  |  |  |
| Subcategory A |  |  | Social Sciences |
| BGEN | 105 | Introduction to Business | $\mathbf{3}$ credits |
| COMX | 106 | Communicating in a Dynamic Workplace | 3 |
| ECNS | 201 | Principles of Microeconomics | 3 |
| ECNS | 202 | Principles of Macroeconomics | 3 |
| EDU | $\mathbf{1 0 5}$ | Education and Democracy | 3 |
| HTH | 110 | Personal Health and Wellness | 3 |
| PSCI | 210 | Introduction to American Government | 3 |
| PSCI | 220 | Introduction to Comparative Government | 3 |
| PSYX | 100 | Introduction to Psychology | 3 |
| SOCI | 101 | Introduction to Sociology | 3 |
| SOCI | 201 | Social Problems | 3 |


| Subcategory B | History | 3 credits |  |
| :--- | :--- | :--- | ---: |
| HSTA | 101 | American History I | 3 |
| OR |  |  |  |
| HSTA | 102 | American History II | 3 |


| CATEGORY IV: CULTURAL DIVERSITY | 3 credits |  |  |
| :--- | :---: | :---: | :---: |
| NASX | 105 | Introduction to Native American Studies | 3 |
| OR |  |  |  |
| NASX | 205 | Native Americans in Contemporary Society | 3 |


| CATEGORY V: | ARTS \& HUMANITIES | 6 credits |  |
| :--- | :--- | :--- | ---: |
| Students are required to take one course from each subcategory |  |  |  |
| Subcategory A |  |  | Fine Arts |
| ARTZ | 105 | Visual Language-Drawing | $\mathbf{3}$ credits |
| ARTZ | 106 | Visual Language-2-D Foundations | 3 |
| ARTZ | 108 | Visual Language-3-D Foundations | 3 |
| ARTZ | 131 | Ceramics for Non-majors | 3 |
| CRWR | 240 | Intro Creative Writing Workshop | 3 |
| FILM | 160 | Introduction to World Cinema | 3 |
| LIT | 270 | Film \& Literature | 3 |
| MUSI | 101 | Enjoyment of Music | 3 |
| MUSI | 114 | Band: MSUB Symphonic | 3 |
| MUSI | 131 | Jazz Ensemble I: MSUB | 1 |
| MUSI | 147 | Choral Ensemble: University Chorus | 1 |
| PHOT | 154 | Exploring Digital Photography | 1 |
| THTR | 101 | Introduction to Theatre | 3 |
|  |  |  | 3 |


| Subcategory B |  |  | Humanities |
| :--- | :---: | :--- | ---: |
| ARTH | 150 | Introduction to Art History | credits |
| HONR | 111 | Perspectives and Understanding | 3 |
| LIT | 110 | Introduction to Literature | 3 |
| LIT | 213 | Montana Literature | 3 |
| PHL | 110 | Introduction to Ethics | 3 |
| PHL | 111 | Philosophies of Life | 3 |
| PHL | 254 | People and Politics | 3 |
|  |  |  | 3 |


| Course |  |  | Credits | Grade | Semester | Equivalent |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| A minimum grade of C or better is required in all major coursework |  |  |  |  |  |  |
| Professional Education Core |  |  |  |  |  |  |
| *\#EDU | 105 | Education and Democracy | 3 |  |  |  |
| $\wedge \# E D U$ | $\begin{aligned} & \hline 220 / \\ & 220 \mathrm{~L} \end{aligned}$ | Human Growth and Development/ <br> Lab (45 hour practicum required) | 3 |  |  |  |
| \#EDU | 221 | Educational Psychology and Measurement | 3 |  |  |  |
| $\wedge \# E D S P$ | 204 | Introduction to Teaching Exceptional Learners (15 hour practicum required) | 3 |  |  |  |
| \#HTH | 412 | Drugs and Alcohol | 1 |  |  |  |
| EDU | 333 | Reading and Writing Across the Curriculum | 3 |  |  |  |
| EDU | 343 | Strategies for Managing Diverse Learners | 2 |  |  |  |
| EDU | 354 | Secondary Junior Field | 2 |  |  |  |
| EDU | 381 | Curriculum Theory and Practice | 3 |  |  |  |
| EDU | 383 | Assessment in Education | 3 |  |  |  |
| EDU | 397G | Methods: 5-12 Science | 2 |  |  |  |
| EDU | 406 | Philosophical, Legal \& Ethical Issues in Education | 3 |  |  |  |
| EDU | 495A | Student Teaching: K-12 |  |  |  |  |
| $\begin{aligned} & \text { Or } \\ & \text { EDU } \end{aligned}$ | 495C | Student Teaching: 5-12 | 9 |  |  |  |

## \#Required for Admission to the Educator Preparation Program

## Biology Requirements

| *BIOB | 160 | Principles of Living Systems | 3 |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| * BIOB | 161 | Principles of Living Systems Lab | 1 |  |  |  |
| BIOB | 170 | Principles of Biological Diversity | 3 |  |  |  |
| BIOB | 171 | Principles of Biological Diversity Lab | 1 |  |  |  |
| BIOB | 260 | Cellular and Molecular Biology | 3 |  |  |  |
| BIOB | 261 | Cellular and Molecular Biology Lab | 1 |  |  |  |
|  |  |  |  |  |  |  |

## Chemistry Requirements

| *CHMY | 141 | College Chemistry I | 4 |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| * CHMY | 142 | College Chemistry I Lab | 1 |  |  |  |
| CHMY | 143 | College Chemistry II | 4 |  |  |  |
| CHMY | 144 | College Chemistry II Lab | 1 |  |  |  |

Select one pair of courses from the following:

| CHMY | 211 | Elements of Organic Chemistry | 3 |  |  |  |
| :--- | :--- | :--- | :---: | :--- | :--- | :--- |
| And |  |  |  |  |  |  |
| CHMY | 212 | Elements of Organic Chemistry Lab | 1 |  |  |  |
| CHMY <br> And | 311 | Analytical Chem-Quant Analysis | 3 |  |  |  |
| CHMY | 312 | Analytical Chem Lab - Quant Analysis | 1 |  |  |  |
| CHMY <br> And <br> CHMY | 321 | Organic Chemistry I | 3 |  |  |  |

Earth Science Requirements

| $*$ GEO | 101 | Introduction to Physical Geology | 3 |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| *GEO | 102 | Introduction to Physical Geology Lab | 1 |  |  |  |
| GEO | 205 | Mineralogy | 4 |  |  |  |
| GEO | 211 | Earth History and Evolution | 3 |  |  |  |
| GEO | 212 | Earth History and Evolution Lab | 1 |  |  |  |

## Physics Requirements



Mathematics and Statistics Requirements (Choose two courses, one from each rubric)

| $* \mathrm{M}$ | 161 | Survey of Calculus | 3 |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| $* \mathrm{M}$ | 171 | Calculus I | 4 |  |  |  |
| *STAT | 216 | Introduction to Statistics | 4 |  |  |  |

## Internship

| Earn a minimum of two credits chosen from the following: |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| BIOB | $298 / 498$ | Internship/Cooperative Education | 2 |  |  |  |
| CHMY | $298 / 498$ | Internship/Cooperative Education | 2 |  |  |  |
| ERTH | 498 | Internship/Cooperative Education | 2 |  |  |  |
| GEO | 498 | Internship/Cooperative Education | 2 |  |  |  |
| PHSX | 498 | Internship/Cooperative Education | 2 |  |  |  |

## Upper Division Science Electives

Choose a minimum of 11 credits selected in consultation with advisor from the following rubrics: $B C H, B I O B, B I O E, B I O H$, BIOM, BIOO, CHMY, ERTH, GEO, PHSX

|  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |


| Categories | Credits | Earned | Remaining |
| :--- | :---: | :---: | :---: |
| General Education | 31 | - | - |
| Professional Education Core | 37 | - | - |
| Biology | 12 | - | - |
| Chemistry | 14 | - | - |
| Earth Science | 12 | - | - |
| Physics | 12 | - | - |
| Mathematics/Statistics | 7 | - | - |
| Internship | 2 | - | - |
| Upper Division Electives | V | - | - |
| Total | 128 | - | - |

*May satisfy General Education requirements.
Certain courses in this program have pre-requisites; students should check course descriptions for required pre-requisites.
It is the student's responsibility to know and meet the requirements for graduation. A minimum of 36 credits must be upper division classes ( 300 and above).
Notes:
${ }^{\wedge}$ Course requires a completed Federal Criminal Background Check in order to complete the required practicum hours within the class. Packets may be picked up at either the Advising Center in McMullen Hall or in the College of Education, or can be printed off the website at http://www.msubillings.edu/coe/etp/FieldExper/FingerprintInfo.htm. The background check is only valid for 24 months.

