

ADVISING WORKSHEET BACHELOR OF SCIENCE DEGREE MAJOR IN BIOLOGY GENERAL BULLETIN 2023-2024

TRANSFER INSTITUTION(S):

Montana State University Billings Advising Center Phone: 406-657-2240 Fax: 406-657-2302 advising@msubillings.edu www.msubillings.edu/advise/

Name _____

Student ID # _____

GENERAL EDUCATION REQUIREMENTS – SEE ATTACHED PAGE FOR SPECIFIC COURSES

| General Education Category | Course # | Credits | Grade | Semester | Equivalent |
|---|----------|---------|-------|----------|------------|
| Category I: Global Academic Skills (9 credits) A. Mathematics (3 credits) <i>M 171 or STAT 216 – Major requirement</i> | | | | | |
| B. English (3 credits) | | | | | |
| C. Communication & Information Literacy (3 credits) | | | | | |
| Category II: Natural Sciences (7 credits) 2 lectures (6 credits) & 1 lab (1 credit) (1 life science & 1 physical science & 1 lab) | | | | | |
| BIOB 160/161 & CHMY 141 – Major requirements | | | | | |
| Category III: Social Sciences and History (6 credits) A. Social Science (3 credits) | | | | | |
| B. History (3 credits) | | | | | |
| Category IV: Cultural Diversity (3 credits) | | | | | |
| Category V: Arts & Humanities (6 credits) A. Fine Arts (3 credits) | | | | | |
| B. Humanities (3 credits) | | | | | |

A minimum grade of "C-"is required in all General Education courses.

Note: Certain degrees may require a minimum grade of "C" in General Education courses.

Students should consult with their advisors to determine if specific courses are necessary in order to satisfy the General Education requirements within this program.

Certain courses in this program have prerequisites; students should check the course descriptions in the General Bulletin for required prerequisites.

Reviewed:

| CATEGO | RY I: | GLOBAL ACADEMIC SKILLS 9 cred | its |
|---|--|---|--|
| | | equired to take one course from each subcategory | |
| | | A - Mathematics 3 cred | |
| M | 105 | Contemporary Mathematics | 3 |
| M | 114 | Extended Technical Mathematics | 3 |
| M | 121 | College Algebra | |
| M | 121 | College Trigonometry | 3 |
| M | 130 | Mathematics for Elementary Teachers I | 3 3 3 |
| 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 |
| 51111 | 210 | In outeron to Statistics | |
| Subcate | gory I | 3 - English 3 cred | its |
| WRIT | 101 | College Writing I | 3 |
| WRIT | 121 | Introduction to Technical Writing | 3 |
| WRIT | 122 | Introduction to Business Writing | 3 |
| ~ • | | ~ | |
| | •• | C- Communication & Information Literacy 3 cre | |
| | 50 | Cyber Security and Electronic Communication | 3 |
| COMX | | Introduction to Public Speaking | 3 |
| COMX 1 | | Introduction to Interpersonal Communication | 3 |
| COMX 2 | | Communication in Small Groups | 3 |
| LSCI 1 | 25 | Research in the Information Age | 3 |
| CATEGO | RY II: | NATURAL SCIENCES 6 cr. lecture & 1 cr. l | ab |
| | | quired to take one course from each subcategory | |
| | | responding lab <u>or</u> Integrated Sciences | uno |
| Subcate | oorv A | A – Life Sciences 3-4 cred | its |
| BIOB | 101 | Discover Biology | 3 |
| BIOB | 101 | Discover Biology Lab | 1 |
| BIOB | 121 | Fundamentals of Biology for Allied Health | 3 |
| BIOB | 121 | Fund of Biology: The Nature of Nutrition | 3 |
| BIOD | 160 | Principles of Living Systems | 3 |
| BIOB | 161 | Principles of Living Systems Lab | 1 |
| SCIN | 101 | Integrated Science I | 3 |
| SCIN | 102 | Integrated Science I Lab | 1 |
| bent | 102 | Integrated Selence I Lab | 1 |
| | | | |
| | | | its |
| | •• | B – Physical Sciences3-4 cred | |
| ASTR | 110 | Introduction to Astronomy | 3 |
| ASTR ASTR | 110 111 | Introduction to Astronomy Introduction to Astronomy Lab | 3 1 |
| ASTR ASTR CHMY | 110 111 121 | Introduction to Astronomy Introduction to Astronomy Lab Introduction to General Chemistry | 3 1 3 |
| ASTR ASTR CHMY CHMY | 110 111 121 122 | Introduction to Astronomy Introduction to Astronomy Lab Introduction to General Chemistry Introduction to General Chemistry Lab | 3 1 3 1 |
| ASTR ASTR CHMY CHMY <i>CHMY</i> | 110 111 121 122 141 | Introduction to Astronomy Introduction to Astronomy Lab Introduction to General Chemistry Introduction to General Chemistry Lab <i>College Chemistry I</i> | 3 1 3 1 3 3 |
| ASTR ASTR CHMY CHMY CHMY CHMY | 110 111 121 122 141 142 | Introduction to Astronomy Introduction to Astronomy Lab Introduction to General Chemistry Introduction to General Chemistry Lab College Chemistry I College Chemistry Laboratory I | 3 1 3 1 3 1 3 1 |
| ASTR ASTR CHMY CHMY CHMY CHMY GEO | 110 111 121 122 141 142 101 | Introduction to Astronomy Introduction to Astronomy Lab Introduction to General Chemistry Introduction to General Chemistry Lab College Chemistry I College Chemistry Laboratory I Introduction to Physical Geology | 3 1 3 1 3 1 3 |
| ASTR ASTR CHMY CHMY CHMY CHMY GEO GEO | 110 111 121 122 141 142 101 102 | Introduction to Astronomy Introduction to Astronomy Lab Introduction to General Chemistry Introduction to General Chemistry Lab College Chemistry I College Chemistry Laboratory I Introduction to Physical Geology Introduction to Physical Geology Laboratory | 3 1 3 1 3 1 3 1 |
| ASTR ASTR CHMY CHMY CHMY CHMY GEO | 110 111 121 122 141 142 101 | Introduction to Astronomy Introduction to Astronomy Lab Introduction to General Chemistry Introduction to General Chemistry Lab College Chemistry I College Chemistry Laboratory I Introduction to Physical Geology Introduction to Physical Geology Laboratory Spatial Sciences Technology & Applications | 3 1 3 1 3 1 3 1 3 |
| ASTR ASTR CHMY CHMY CHMY CHMY GEO GEO | 110 111 121 122 141 142 101 102 | Introduction to Astronomy Introduction to Astronomy Lab Introduction to General Chemistry Introduction to General Chemistry Lab College Chemistry I College Chemistry Laboratory I Introduction to Physical Geology Introduction to Physical Geology Laboratory | 3 1 3 1 3 1 3 1 3 1 3 1 |
| ASTR ASTR CHMY CHMY CHMY GEO GEO GEO GPHY | 110 111 121 122 141 142 101 102 262 | Introduction to Astronomy Introduction to Astronomy Lab Introduction to General Chemistry Introduction to General Chemistry Lab College Chemistry I College Chemistry Laboratory I Introduction to Physical Geology Introduction to Physical Geology Laboratory Spatial Sciences Technology & Applications | 3 1 3 1 3 1 3 1 3 |
| ASTR ASTR CHMY CHMY CHMY GEO GEO GEO GPHY GPHY | 110 111 121 122 141 142 101 102 262 263 | Introduction to Astronomy Introduction to Astronomy Lab Introduction to General Chemistry Introduction to General Chemistry Lab College Chemistry I College Chemistry Laboratory I Introduction to Physical Geology Introduction to Physical Geology Laboratory Spatial Sciences Technology & Applications Spatial Sciences & Technology Lab | 3 1 3 1 3 1 3 1 3 1 3 1 |
| ASTR ASTR CHMY CHMY CHMY GEO GEO GEO GPHY GPHY PHSX | 110 111 121 122 141 142 101 102 262 263 103 | Introduction to Astronomy Introduction to Astronomy Lab Introduction to General Chemistry Introduction to General Chemistry Lab <i>College Chemistry I</i> <i>College Chemistry Laboratory I</i> Introduction to Physical Geology Introduction to Physical Geology Laboratory Spatial Sciences Technology & Applications Spatial Sciences & Technology Lab Our Physical World | 3 1 3 1 3 1 3 1 3 1 3 |
| ASTR ASTR CHMY CHMY CHMY GEO GEO GEO GPHY GPHY PHSX PHSX | 110 111 121 122 141 142 101 102 262 263 103 104 | Introduction to Astronomy Introduction to Astronomy Lab Introduction to General Chemistry Introduction to General Chemistry Lab <i>College Chemistry I</i> <i>College Chemistry Laboratory I</i> Introduction to Physical Geology Introduction to Physical Geology Laboratory Spatial Sciences Technology & Applications Spatial Sciences & Technology Lab Our Physical World Our Physical World College Physics I | 3 1 3 1 3 1 3 1 3 1 3 1 3 1 |
| ASTR ASTR CHMY CHMY CHMY GEO GEO GEO GPHY GPHY PHSX PHSX PHSX PHSX | 110 111 121 122 141 142 101 102 262 263 103 104 205 | Introduction to Astronomy Introduction to Astronomy Lab Introduction to General Chemistry Introduction to General Chemistry Lab <i>College Chemistry I</i> <i>College Chemistry Laboratory I</i> Introduction to Physical Geology Introduction to Physical Geology Laboratory Spatial Sciences Technology & Applications Spatial Sciences & Technology Lab Our Physical World Our Physical World Lab | 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 |
| ASTR ASTR CHMY CHMY CHMY GEO GEO GEO GPHY GPHY PHSX PHSX PHSX | 110 111 121 122 141 142 101 102 262 263 103 104 205 206 | Introduction to Astronomy Introduction to Astronomy Lab Introduction to General Chemistry Introduction to General Chemistry Lab <i>College Chemistry I</i> <i>College Chemistry Laboratory I</i> Introduction to Physical Geology Introduction to Physical Geology Laboratory Spatial Sciences Technology & Applications Spatial Sciences & Technology Lab Our Physical World Our Physical World Our Physical World Lab College Physics I College Physics I Lab | 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 |

| CATEGO | RY III: | SOCIAL SCIENCES AND HISTORY 6 CREI | DITS |
|---|---|--|--|
| Students | are requ | uired to take one course from each subcategor | у |
| Subcate | gory A | – Social Sciences 3 cred | its |
| BGEN | 105 | Introduction to Business | 3 |
| COMX | 106 | Communicating in a Dynamic Workplace | 3 |
| ECNS | 201 | Principles of Microeconomics | 3 |
| ECNS | 202 | Principles of Macroeconomics | 3 |
| EDU | 105 | 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 3 |
| PSYX | 100 | Introduction to Psychology | 3 |
| SOCI SOCI | 101 201 | Introduction to Sociology Social Problems | 3 3 |
| SOCI | 201 | Social Problems | 3 |
| Subcates | gory B | - History 3 cre | dits |
| HSTA | 101 | American History I | 3 |
| HSTA | 102 | American History II | 3 |
| HSTR | 159 | World History to 1500 CE | 3 |
| HSTR | 160 | Modern World History | 3 |
| PSCI | 230 | Introduction to International Relations | 3 |
| | | | |
| - | RY IV: | CULTURAL DIVERSITY3 cre | edits |
| ANTY | 220 | Culture and Society | 3 |
| ARTH | 160 | Global Visual Culture | 3 |
| COMX | 212 | Intro to Intercultural Communication | 3 3 |
| GPHY | 121 | Human Geography | 3 |
| HTH | 270 | Global Health Issues | 3 |
| LIT | 230 | World Literature Survey | 3 3 |
| MUSI | 207 | World Music | 3 |
| NASX NASX | 105 205 | Introduction to Native American Studies | 3 3 3 |
| REHA | 203 | Native Americans in Contemporary Society Introduction to Diversity in Counseling | 3 |
| RLST | 201 | | 5 |
| | 170 | The Religious Quest | 3 |
| | 170 150 | The Religious Quest | 3 |
| SPNS | 170 150 274 | The Hispanic Tradition | 3 3 3 |
| | 150 | | 3 3 |
| SPNS WGSS | 150 274 | The Hispanic Tradition | 3 3 3 |
| SPNS WGSS CATEGO Students | 150 274 PRY V: are requ | The Hispanic Tradition Women, Culture, and Society ARTS & HUMANITIES 6 cre uired to take one course from each subcategor | 3 3 3 dits |
| SPNS WGSS CATEGO Students Subcateg | 150 274 PRY V: are requ gory A | The Hispanic Tradition Women, Culture, and Society ARTS & HUMANITIES 6 cre uired to take one course from each subcategor – Fine Arts 3 cre | 3 3 dits y dits |
| SPNS WGSS CATEGO Students Subcateg ARTZ | 150 274 RY V: are requ gory A 105 | The Hispanic Tradition Women, Culture, and Society ARTS & HUMANITIES 6 cre uired to take one course from each subcategor – Fine Arts 3 cre Visual Language-Drawing | 3 3 dits y dits 3 |
| SPNS WGSS CATEGO Students Subcateg ARTZ ARTZ | 150 274 PRY V: are required are required are required at 105 105 | The Hispanic Tradition Women, Culture, and Society ARTS & HUMANITIES 6 cree uired to take one course from each subcategor – Fine Arts 3 cree Visual Language-Drawing Visual Language-2-D Foundations | 3 3 dits y dits 3 3 |
| SPNS WGSS CATEGO Students Subcateg ARTZ ARTZ ARTZ | 150 274 PRY V: are requ gory A 105 106 108 | The Hispanic Tradition Women, Culture, and Society ARTS & HUMANITIES 6 cree uired to take one course from each subcategor – Fine Arts 3 cree Visual Language-Drawing Visual Language-2-D Foundations Visual Language-3-D Foundations | 3 3 dits y dits 3 3 3 |
| SPNS WGSS CATEGO Students Subcateg ARTZ ARTZ ARTZ ARTZ | 150 274 RY V: are requ gory A 105 106 108 131 | The Hispanic Tradition Women, Culture, and Society ARTS & HUMANITIES 6 cree uired to take one course from each subcategor – Fine Arts 3 cree Visual Language-Drawing Visual Language-2-D Foundations Visual Language-3-D Foundations Ceramics for Non-majors | 3 3 dits y dits 3 3 3 3 3 |
| SPNS WGSS CATEGO Students ARTZ ARTZ ARTZ ARTZ ARTZ CRWR | 150 274 RY V: are requ gory A 105 106 108 131 240 | The Hispanic Tradition Women, Culture, and Society ARTS & HUMANITIES 6 cree uired to take one course from each subcategor – Fine Arts 3 cree Visual Language-Drawing Visual Language-2-D Foundations Visual Language-3-D Foundations Ceramics for Non-majors Intro Creative Writing Workshop | 3 3 dits y dits 3 3 3 3 3 3 3 |
| SPNS WGSS CATEGO Students Subcateg ARTZ ARTZ ARTZ ARTZ CRWR FILM | 150 274 RY V: are requ gory A 105 106 108 131 240 160 | The Hispanic Tradition Women, Culture, and Society ARTS & HUMANITIES 6 cree uired to take one course from each subcategor – Fine Arts 3 cree Visual Language-Drawing Visual Language-2-D Foundations Visual Language-3-D Foundations Ceramics for Non-majors Intro Creative Writing Workshop Introduction to World Cinema | 3 3 3 dits y dits 3 3 3 3 3 3 3 3 3 3 |
| SPNS WGSS CATEGO Students Subcateg ARTZ ARTZ ARTZ ARTZ CRWR FILM LIT | 150 274 RY V: are requ gory A 105 106 108 131 240 160 270 | The Hispanic Tradition Women, Culture, and Society ARTS & HUMANITIES 6 cree uired to take one course from each subcategor – Fine Arts 3 cree Visual Language-Drawing Visual Language-2-D Foundations Visual Language-3-D Foundations Visual Language-3-D Foundations Ceramics for Non-majors Intro Creative Writing Workshop Introduction to World Cinema Film & Literature | 3 3 dits y dits 3 3 3 3 3 3 3 3 3 3 3 3 3 3 |
| SPNS WGSS Students Subcateg ARTZ ARTZ ARTZ ARTZ ARTZ CRWR FILM LIT MUSI | 150 274 RY V: are requ gory A 105 106 108 131 240 160 270 101 | The Hispanic Tradition Women, Culture, and Society ARTS & HUMANITIES 6 cree uired to take one course from each subcategor – Fine Arts 3 cree Visual Language-Drawing Visual Language-2-D Foundations Visual Language-3-D Foundations Ceramics for Non-majors Intro Creative Writing Workshop Introduction to World Cinema Film & Literature Enjoyment of Music | 3 3 dits y dits 3 3 3 3 3 3 3 3 3 3 3 3 |
| SPNS WGSS Students Subcateg ARTZ ARTZ ARTZ ARTZ CRWR FILM LIT MUSI MUSI | 150 274 RY V: are requ gory A 105 106 108 131 240 160 270 101 114 | The Hispanic Tradition Women, Culture, and Society ARTS & HUMANITIES 6 cree uired to take one course from each subcategor – Fine Arts 3 cree Visual Language-Drawing Visual Language-2-D Foundations Visual Language-3-D Foundations Visual Language-3-D Foundations Ceramics for Non-majors Intro Creative Writing Workshop Introduction to World Cinema Film & Literature | 3 3 dits y dits 3 3 3 3 3 3 3 3 3 3 3 3 3 3 |
| SPNS WGSS Students Subcateg ARTZ ARTZ ARTZ ARTZ ARTZ CRWR FILM LIT MUSI | 150 274 RY V: are requ gory A 105 106 108 131 240 160 270 101 | The Hispanic Tradition Women, Culture, and Society ARTS & HUMANITIES 6 cree uired to take one course from each subcategor – Fine Arts 3 cree Visual Language-Drawing Visual Language-2-D Foundations Visual Language-3-D Foundations Ceramics for Non-majors Intro Creative Writing Workshop Introduction to World Cinema Film & Literature Enjoyment of Music Band: MSUB Symphonic Jazz Ensemble I: MSUB | 3 3 dits y dits 3 3 3 3 3 3 1 |
| SPNS WGSS Students Subcateg ARTZ ARTZ ARTZ ARTZ CRWR FILM LIT MUSI MUSI MUSI | 150 274 RY V: are requ gory A 105 106 108 131 240 160 270 101 114 131 | The Hispanic Tradition Women, Culture, and Society ARTS & HUMANITIES 6 cree uired to take one course from each subcategor – Fine Arts 3 cree Visual Language-Drawing Visual Language-2-D Foundations Visual Language-3-D Foundations Ceramics for Non-majors Intro Creative Writing Workshop Introduction to World Cinema Film & Literature Enjoyment of Music Band: MSUB Symphonic Jazz Ensemble I: MSUB Choral Ensemble: University Chorus Chorus | 3 3 3 dits y dits 3 3 3 3 3 3 3 1 1 |
| SPNS WGSS Students Subcateg ARTZ ARTZ ARTZ ARTZ CRWR FILM LIT MUSI MUSI MUSI MUSI | 150 274 RY V: are requ gory A 105 106 108 131 240 160 270 101 114 131 147 | The Hispanic Tradition Women, Culture, and Society ARTS & HUMANITIES 6 cree uired to take one course from each subcategor – Fine Arts 3 cree Visual Language-Drawing Visual Language-2-D Foundations Visual Language-3-D Foundations Ceramics for Non-majors Intro Creative Writing Workshop Introduction to World Cinema Film & Literature Enjoyment of Music Band: MSUB Symphonic Jazz Ensemble I: MSUB | 3 3 3 dits y dits 3 3 3 3 3 3 3 1 1 1 |
| SPNS WGSS Students Subcateg ARTZ ARTZ ARTZ CRWR FILM LIT MUSI MUSI MUSI MUSI MUSI PHOT THTR | 150 274 RY V: are requ gory A 105 106 108 131 240 160 270 101 114 131 147 154 101 | The Hispanic Tradition Women, Culture, and Society ARTS & HUMANITIES 6 cree uired to take one course from each subcategor – Fine Arts 3 cree Visual Language-Drawing Visual Language-2-D Foundations Visual Language-3-D Foundations Ceramics for Non-majors Intro Creative Writing Workshop Introduction to World Cinema Film & Literature Enjoyment of Music Band: MSUB Symphonic Jazz Ensemble I: MSUB Choral Ensemble: University Chorus Exploring Digital Photography Introduction to Theatre | 3 3 3 dits y dits 3 3 3 3 3 3 3 3 3 1 1 1 1 3 3 |
| SPNS WGSS Students Subcateg ARTZ ARTZ ARTZ CRWR FILM LIT MUSI MUSI MUSI MUSI MUSI PHOT THTR Subcateg | 150 274 RY V: are requ gory A 105 106 108 131 240 160 270 101 114 131 147 154 101 gory B | The Hispanic Tradition Women, Culture, and Society ARTS & HUMANITIES 6 cree uired to take one course from each subcategor - Fine Arts 3 cree Visual Language-Drawing Visual Language-2-D Foundations Visual Language-3-D Foundations Ceramics for Non-majors Intro Creative Writing Workshop Introduction to World Cinema Film & Literature Enjoyment of Music Band: MSUB Symphonic Jazz Ensemble I: MSUB Choral Ensemble: University Chorus Exploring Digital Photography Introduction to Theatre - Humanities 3 cree | 3 3 dits y dits 3 3 3 3 3 3 3 3 1 1 1 3 3 dits |
| SPNS WGSS Students Subcateg ARTZ ARTZ ARTZ CRWR FILM LIT MUSI MUSI MUSI MUSI MUSI PHOT THTR Subcateg ARTH | 150 274 RY V: are requ gory A 105 106 108 131 240 160 270 101 114 131 147 154 101 gory B 150 | The Hispanic Tradition Women, Culture, and Society ARTS & HUMANITIES 6 cre uired to take one course from each subcategor - Fine Arts 3 cre Visual Language-Drawing Visual Language-2-D Foundations Visual Language-3-D Foundations Ceramics for Non-majors Intro Creative Writing Workshop Introduction to World Cinema Film & Literature Enjoyment of Music Band: MSUB Symphonic Jazz Ensemble I: MSUB Choral Ensemble: University Chorus Exploring Digital Photography Introduction to Theatre - Humanities 3 cre Introduction to Art History | 3 3 dits y dits 3 3 3 3 3 3 3 3 3 1 1 1 3 3 3 4 1 2 3 3 4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 |
| SPNS WGSS CATEGO Students Subcateg ARTZ ARTZ ARTZ ARTZ CRWR FILM LIT MUSI MUSI MUSI MUSI MUSI MUSI PHOT THTR Subcateg ARTH HONR | 150 274 RY V: are requ gory A 105 106 108 131 240 160 270 101 114 131 147 154 101 gory B 150 111 | The Hispanic Tradition Women, Culture, and Society ARTS & HUMANITIES 6 cree uired to take one course from each subcategor – Fine Arts 3 cree Visual Language-Drawing Visual Language-2-D Foundations Visual Language-3-D Foundations Ceramics for Non-majors Intro Creative Writing Workshop Introduction to World Cinema Film & Literature Enjoyment of Music Band: MSUB Symphonic Jazz Ensemble I: MSUB Choral Ensemble I: MSUB Choral Ensemble: University Chorus Exploring Digital Photography Introduction to Theatre - Humanities 3 cree Introduction to Art History Perspectives and Understanding | 3 3 dits y dits 3 3 3 3 3 3 3 3 3 1 1 1 3 3 3 4 its 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 |
| SPNS WGSS CATEGO Students Subcateg ARTZ ARTZ ARTZ ARTZ CRWR FILM LIT MUSI MUSI MUSI MUSI MUSI MUSI MUSI MUSI | 150 274 RY V: are requ gory A 105 106 108 131 240 160 270 101 114 131 147 154 101 gory B 150 111 110 | The Hispanic Tradition Women, Culture, and Society ARTS & HUMANITIES 6 cree uired to take one course from each subcategor - Fine Arts 3 cree Visual Language-Drawing Visual Language-2-D Foundations Visual Language-3-D Foundations Ceramics for Non-majors Intro Creative Writing Workshop Introduction to World Cinema Film & Literature Enjoyment of Music Band: MSUB Symphonic Jazz Ensemble I: MSUB Choral Ensemble: University Chorus Exploring Digital Photography Introduction to Art History Perspectives and Understanding Introduction to Literature | 3 3 dits y dits 3 3 3 3 3 3 3 3 3 1 1 1 3 3 3 4 its 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 |
| SPNS WGSS CATEGO Students Subcateg ARTZ ARTZ ARTZ ARTZ CRWR FILM LIT MUSI MUSI MUSI MUSI MUSI MUSI MUSI PHOT THTR Subcateg ARTH HONR LIT LIT | 150 274 RY V: are requ gory A 105 106 108 131 240 160 270 101 114 131 147 154 101 gory B 150 111 110 213 | The Hispanic Tradition Women, Culture, and Society ARTS & HUMANITIES 6 cree uired to take one course from each subcategor - Fine Arts 3 cree Visual Language-Drawing Visual Language-2-D Foundations Visual Language-3-D Foundations Ceramics for Non-majors Intro Creative Writing Workshop Introduction to World Cinema Film & Literature Enjoyment of Music Band: MSUB Symphonic Jazz Ensemble I: MSUB Choral Ensemble: University Chorus Exploring Digital Photography Introduction to Art History Perspectives and Understanding Introduction to Literature Montana Literature | 3 3 dits y dits 3 3 3 3 3 3 3 3 3 1 1 1 3 3 3 4 its 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 |
| SPNS WGSS CATEGO Students Subcateg ARTZ ARTZ ARTZ ARTZ CRWR FILM LIT MUSI MUSI MUSI MUSI MUSI MUSI MUSI MUSI | 150 274 RY V: are requ gory A 105 106 108 131 240 160 270 101 114 131 147 154 101 gory B 150 111 110 213 110 | The Hispanic Tradition Women, Culture, and Society ARTS & HUMANITIES 6 cree uired to take one course from each subcategor - Fine Arts 3 cree Visual Language-Drawing Visual Language-2-D Foundations Visual Language-3-D Foundations Ceramics for Non-majors Intro Creative Writing Workshop Introduction to World Cinema Film & Literature Enjoyment of Music Band: MSUB Symphonic Jazz Ensemble I: MSUB Choral Ensemble: University Chorus Exploring Digital Photography Introduction to Art History Perspectives and Understanding Introduction to Literature Montana Literature Introduction to Ethics | 3 3 dits y dits 3 3 3 3 3 3 3 3 3 1 1 1 3 3 3 4 its 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 |
| SPNS WGSS CATEGO Students Subcateg ARTZ ARTZ ARTZ ARTZ CRWR FILM LIT MUSI MUSI MUSI MUSI MUSI MUSI MUSI PHOT THTR Subcateg ARTH HONR LIT LIT | 150 274 RY V: are requ gory A 105 106 108 131 240 160 270 101 114 131 147 154 101 gory B 150 111 110 213 | The Hispanic Tradition Women, Culture, and Society ARTS & HUMANITIES 6 cree uired to take one course from each subcategor - Fine Arts 3 cree Visual Language-Drawing Visual Language-2-D Foundations Visual Language-3-D Foundations Ceramics for Non-majors Intro Creative Writing Workshop Introduction to World Cinema Film & Literature Enjoyment of Music Band: MSUB Symphonic Jazz Ensemble I: MSUB Choral Ensemble: University Chorus Exploring Digital Photography Introduction to Art History Perspectives and Understanding Introduction to Literature Montana Literature | 3 3 dits y dits 3 3 3 3 3 3 3 3 3 1 1 1 3 3 3 4 1 2 3 3 4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 |

| | | Course | Credits | Grade | Semester | Equivalent |
|--------|-----------|--|------------------|------------|---------------|------------------|
| | | A minimum grade of C- or better is requ | uired in all maj | jor course | work | |
| 0, | equiremen | | | <u> </u> | | |
| *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 | | | |
| BIOB | 375 | General Genetics | 3 | | | |
| BIOB | 376 | General Genetics Lab | 1 | | | |
| BIOB | 487 | Bioinformatics | 4 | | | |
| BIOB | 490 | Undergraduate Research | 2 | | | |
| BIOB | 499 | Senior Thesis/Capstone | 1 | | | |
| BIOE | 370 | General Ecology | 3 | | | |
| BIOE | 371 | General Ecology Lab | 1 | | | |
| BIOM | 360 | General Microbiology | 3 | | | |
| BIOM | 361 | General Microbiology Lab | 1 | | | |
| | | Tence Electives (12 credits – selected in consu I, BIOM, BIOO, CHMY, ERTH, GEO, GPHY | | dvisor fro | m the followi | ng rubrics: BCH, |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | Biology Total | 43 | • | | |

Chemistry Requirements

| | | Chemistry Total | 22 | | |
|-------|-----|---------------------------------|----|--|--|
| BCH | 381 | Biochemistry Lab | 1 | | |
| BCH | 380 | Biochemistry | 3 | | |
| CHMY | 324 | Organic Chemistry Laboratory II | 1 | | |
| CHMY | 323 | Organic Chemistry II | 3 | | |
| CHMY | 322 | Organic Chemistry Laboratory I | 1 | | |
| CHMY | 321 | Organic Chemistry I | 3 | | |
| CHMY | 144 | College Chemistry Laboratory II | 1 | | |
| CHMY | 143 | College Chemistry II | 4 | | |
| *CHMY | 142 | College Chemistry Laboratory I | 1 | | |
| *CHMY | 141 | College Chemistry I | 4 | | |

Mathematics/Statistics Requirement (Choose two of the following)

| *М | 161 | Survey of Calculus | 3 | | |
|-------|-----|-----------------------------------|-----|--|--|
| or | | | | | |
| *M | 171 | Calculus I | 4 | | |
| М | 172 | Calculus II | 4 | | |
| *STAT | 216 | Introduction to Statistics | 4 | | |
| STAT | 217 | Intermediate Statistical Concepts | 4 | | |
| STAT | 217 | Intermediate Statistical Concepts | 4 | | |
| PSYX | 225 | Research Design and Analysis | 3 | | |
| PSYX | 226 | Research Design and Analysis Lab | 1 | | |
| | | Math/Statistics Total | 7-8 | | |

Physics Requirement Select one of the following options:

| Option 1: | | | | | |
|-----------|-----|-----------------------------------|---|--|--|
| PHSX | 205 | College Physics I | 3 | | |
| | 206 | College Physics I Lab | 1 | | |
| PHSX | 207 | College Physics II | 3 | | |
| | 208 | College Physics II Lab | 1 | | |
| Option 2: | | | | | |
| PHSX | 220 | Physics I | 3 | | |
| | 221 | Physics I Lab | 1 | | |
| PHSX | 232 | Physics II and Thermodynamics | 3 | | |
| | 233 | Physics II and Thermodynamics Lab | 1 | | |
| | | Physics Total | 8 | | |

Unrestricted Electives

| BACHELOR OF SCIENCE DEGREE IN BIOLOGY | | | | | | | |
|---------------------------------------|---------|--------|-----------|--|--|--|--|
| Categories | Credits | Earned | Remaining | | | | |
| | | | | | | | |
| General Education Requirements | 31 | | | | | | |
| Biology Requirements | 43 | | | | | | |
| Chemistry Requirements | 22 | | | | | | |
| Math or Statistics Requirement | 7-8 | | | | | | |
| Physics Requirements | 8 | | | | | | |
| Unrestricted Electives (variable) | V | | | | | | |
| Total | 120 | | | | | | |

*May satisfy General Education requirements.

The total number of elective credits required for the degree will be determined by the number of courses a student elects to take which fulfill both the General Education requirements and the major requirements. Electives should be chosen in consultation with an academic advisor.

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).