Advising Worksheet
Transfer Institution(s):
BACHELOR OF ARTS DEGREE
Major in Biology
General Bulletin 2020-2021
$\qquad$

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## General Education Requirements - See Attached Page for Specific Courses

## General Education Category $\quad$ Course \# Credits Grade Semester Equivalent

| Category I: Global Academic Skills (9 credits) <br> A. Mathematics ( 3 credits) <br> M 171 or STAT 216 - Major requirement |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| B. English (3 credits) |  |  |  |  |  |
| C. Communication \& Information Literacy (3 credits) |  |  |  |  |  |
| Category II: Natural Sciences (7 credits) <br> 2 lectures ( 6 credits) \& 1 lab ( 1 credit) <br> (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.

| CATEGORY I: | GLOBAL ACADEMIC SKILLS | 9 credits |  |
| :--- | :--- | :--- | ---: |
| Students |  | are required to take one course from each subcategory |  |
| Subcategory | A | Mathematics | $\mathbf{3}$ 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 | 3 |
| M | 140 | College Math for Healthcare | 3 |
| M | 143 | Finite Mathematics | 4 |
| M | 161 | Survey of Calculus | 3 |
| M | $\mathbf{1 7 1}$ | Calculus I | 4 |
| STAT | 141 | Introduction to Statistical Concepts | 3 |
| STAT | 216 | Introduction to Statistics | 4 |
|  |  |  |  |
| Subcategory B | English | $\mathbf{3}$ credits |  |
| WRIT | 101 | College Writing I | 3 |
| WRIT | 121 | Introduction to Technical Writing | 3 |
| WRIT | 122 | Introduction to Business Writing | 3 |
| WRIT | 201 | College Writing II | 3 |
| WRIT | 220 | Business \& Professional Writing | 3 |
| WRIT | 221 | Intermediate Technical Writing | 3 |

Subcategory C- Communication \& Information Literacy $\mathbf{3}$ credits BMIS 150 Cyber Security and Electronic Communication 3 COMX 111 Introduction to Public Speaking 3 COMX 115 Introduction to Interpersonal Communication 3 LSCI 125 Research in the Information Age 3

| Category II: Natural Sciences |  |  | 6 cr . lecture \& 1 cr |  |
| :---: | :---: | :---: | :---: | :---: |
| Students are required to take one course from each subcategory and at least one corresponding lab or Integrated Sciences |  |  |  |  |
| Subca | ory A | Life Sciences | 3-4 cred |  |
| BIOB | 101 | Discover Biology |  | 3 |
| BIOB | 102 | Discover Biology |  | 1 |
| BIOB | 121 | Fundamentals of B | y for Allied Health | 3 |
| BIOB | 122 | Fund of Biology: Biodiversity | tion, Ecology, and | 3 |
| BIOB | 123 | Fund of Biology: | ature of Nutrition | 3 |
| BIOB | 160 | Principles of Livin | stems | 3 |
| BIOB | 161 | Principles of Livin | stems Lab | 1 |


| Subcategory B |  |  | Physical Sciences |
| :--- | :--- | :--- | ---: | 3-4 credits

## Integrated Sciences

SCIN 101, 102, 103, 104 Integrated Sciences 3, 1, 3, 1

| CATEGORY III: | SOCIAL SCIENCES AND HISTORY | 6 CREDITS |  |
| :--- | :---: | :--- | :--- | :--- |
| Students are required to take one course from each subcategory |  |  |  |
| Subcategory A |  | Social Sciences | $\mathbf{3}$ credits |
| ANTY | 217 | Physical Anthropology \& Archeology | 3 |
| 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 |
| 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
HSTA 102 American History II 3
HSTR 101 Western Civilization I 3

HSTR 102 Western Civilization II 3
HSTR 103 Honors Western Civilization I 3
HSTR 104 Honors Western Civilization II 3
PSCI 230 Introduction to International Relations 3

| Category IV: Cultural Diversity |  |  | 3 credits |
| :---: | :---: | :---: | :---: |
| ANTY | 220 | Culture and Society | 3 |
| ARTH | 160 | Global Visual Culture | 3 |
| COMX | 212 | Intro to Intercultural Communication | 3 |
| GPHY | 121 | Human Geography | 3 |
| HTH | 270 | Global Health Issues | 3 |
| LIT | 230 | World Literature Survey | 3 |
| MUSI | 207 | World Music | 3 |
| NASX | 105 | Introduction to Native American Studies | 3 |
| NASX | 205 | Native Americans in Contemporary Society | 3 |
| PHL | 271 | Indian Philosophies and Religions | 3 |
| PHL | 272 | Chinese Philosophies and Religions | 3 |
| REHA | 201 | Introduction to Diversity in Counseling | 3 |
| RLST | 170 | The Religious Quest | 3 |
| SPNS | 150 | The Hispanic Tradition | 3 |
| WGSS | 274 | Women, Culture, and Society | 3 |


| CATEGORY V: | ARTS \& HUMANITIES | 6 credits |  |
| :--- | :---: | :--- | ---: |
| Students are required to take one course from each subcategory |  |  |  |
| Subcategory A | Fine Arts | 3 credits |  |
| ARTZ | 101 | Art Fundamentals | 3 |
| ARTZ | 105 | Visual Language-Drawing | 3 |
| 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 |
| MART | 260 | Computer Presentation and Animation | 3 |
| MUSI | 101 | Enjoyment of Music | 3 |
| MUSI | 114 | Band: MSUB Symphonic | 1 |
| MUSI | 131 | Jazz Ensemble I: MSUB | 1 |
| MUSI | 147 | Choral Ensemble: University Chorus | 1 |
| PHOT | 154 | Exploring Digital Photography | 3 |
| THTR | 101 | Introduction to Theatre | 3 |
| THTR | 120 | Introduction to Acting I | 3 |


| Subcategory B - Humanities |  |  | 3 credits |
| :---: | :---: | :---: | :---: |
| ARTH | 150 | Introduction to Art History | 3 |
| 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 |

A minimum grade of C- or better is required in all major coursework
Equivalent
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 |  |  |  |
| BIOB | 375 | General Genetics | 3 |  |  |  |
| BIOB | 376 | General Genetics Lab | 1 |  |  |  |
| BIOB | 490 | Undergraduate Research | 2 |  |  |  |
| BIOB | 499 | Senior Thesis/Capstone | 1 |  |  |  |

Upper Division Science Electives ( 16 credits - selected in consultation with advisor from the following rubrics: BCH, BIOB, BIOE, BIOH, BIOM, BIOO, CHMY, ERTH, GEO, GPHY, PHSX)

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

## Chemistry Requirements

| *CHMY | 141 | College Chemistry I | 3 |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| *CHMY | 142 | College Chemistry Laboratory I | 1 |  |  |  |
| CHMY | 143 | College Chemistry II | 3 |  |  |  |
| CHMY | 144 | College Chemistry Laboratory II | 1 |  |  |  |
| CHMY | 211 | Elements of Organic Chemistry | 3 |  |  |  |
| CHMY | 212 | Elements of Organic Chemistry Lab | 1 |  |  |  |
| BCH | 380 | Biochemistry | 3 |  |  |  |
| BCH | 381 | Biochemistry Lab | 1 |  |  |  |
| Chemistry Total |  |  |  |  |  | $\mathbf{1 6}$ |

Mathematics or Statistics Requirement (choose one of the following)

| *M | 171 | Calculus I | 4 |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| *STAT | 216 | Introduction to Statistics | 4 |  |  |  |
| Mathematics/Statistics Total |  |  |  |  |  | 4 |

*May satisfy General Education requirements.
Foreign Language Requirement ( 2 semesters/1 full year of the same language)



## BACHELOR OF ARTS DEGREE IN BIOLOGY

| Categories | Credits | Earned | Remaining |
| :--- | ---: | :--- | :--- |
| General Education | 31 | - |  |
| Biology Requirements | $* * 31$ | - | - |
| Chemistry Requirements | $* * * 13$ | - | - |
| Math or Statistics Requirement | $* * * 1$ | - | - |
| Foreign Language Requirement | 8 | - | - |
| Minor | $\mathrm{V}-21$ | - | - |
| Electives (variable) | V | - | - |
| Total | 120 | - |  |

** 4 credits that also satisfy General Education requirements are not included in the total number of credits.
$* * * 3$ credits that also satisfy General Education requirements are not included in the total number of credits.
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 the General Education, major, and minor 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)
Notes:

