

## **ADVISING WORKSHEET**

BACHELOR OF SCIENCE DEGREE MAJOR IN MATHEMATICS General Bulletin 2013-2015

| TRA | NSFE | R INST | TTUTI | ON(S): |
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advising@msubillings.edu www.msubillings.edu/advise/

| Name         |  |  |
|--------------|--|--|
|              |  |  |
| Student ID # |  |  |

#### GENERAL EDUCATION REQUIREMENTS - SEE ATTACHED PAGE FOR SPECIFIC COURSES

| <b>General Education Category</b>   | Course # | Credits | Grade | Semester | Equivalent |
|---|----------|---------|-------|----------|------------|
| Category I: Global Academic Skills (9 credits) A. Mathematics (3 credits)   |          |         |       |          |            |
| M 171 – recommended   |          |         |       |          |            |
| B. English (3 credits)  | WRIT 101 |         |       |          |            |
| 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) |          |         |       |          |            |
|   |          |         |       |          |            |
|   |          |         |       |          |            |
| 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)   |          |         |       |          |            |
|   | 1        |         | 1     | 1        |            |

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

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

| Revie | ewed: |      |      |      |  |
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|       |       |      |      |      |  |

# GENERAL EDUCATION REQUIREMENTS

| 1. 1 .   |  |   |   |   |
|--|--|---|---|---|
|  | required to take one course from each sub  |   |   |   |
|  | A - Mathematics  | 3 cred                                    |   |   |
| M 10:  | r  |   | 3   |   |
| A 11   |  |   | 3   |   |
| M 12   | 2 2  |   | 3   |   |
| M 12:  | 2 2 ,  |   | 3   |   |
| M 13   |  | rs II                                     | 3   | - |
| M 14:  |  |   | 4   |   |
| M 17   |  |   | 4   |   |
| STAT 14  | · · · · · · · · · · · · · · · · · · ·  |   | 3   |   |
| STAT 21  |  |   | 4   |   |
| Subcategory  |  | 3 cred                                    |   |   |
| VRIT 10  | 2 2  |   | 3   |   |
| VRIT 12  | 8  |   | 3   |   |
| VRIT 12  | 8  |   | 3   |   |
| VRIT 20  | 2 2  |   | 3   |   |
| VRIT 22  |  |   | 3   |   |
| VRIT 22  |  |   | 3   |   |
|  | C- Communication & Information Litera  | acy 3 cr                                  | edits   |   |
| COMX 11  |  |   | 3   |   |
| COMX 11:   |  | unicatio                                  |   |   |
| LS 12:   |  |   | 3   |   |
| BMIS 150   | Computer Literacy  |   | 3   |   |
|  | I: NATURAL SCIENCES 6 cr. lecture  |   |   | - |
| Students are a<br>tt least one c   | required to take one course from each sub<br>orresponding lab <u>or</u> SCIN 101, 102, 103   | ocategor                                  |   | - |
| Students are a<br>at least one c<br>Subcategory  | required to take one course from each sub<br>orresponding lab <u>or</u> SCIN 101, 102, 103 o<br><b>A – Life Sciences</b>   | ocategor                                  | y and lits  | - |
| Students are at least one control of the students one control of the students  | required to take one course from each sub<br>orresponding lab <u>or</u> SCIN 101, 102, 103 of<br><b>A – Life Sciences</b><br>I Discover Biology  | categor<br>& 104                          | y and lits  | - |
| Students are at least one control of the students one control of the students  | required to take one course from each subporresponding lab or SCIN 101, 102, 103 of A – Life Sciences  Discover Biology Discover Biology Lab   | categor<br>& 104                          | y and lits 3  | - |
| Students are at least one conduct least one conducted by 10 BIOB 10 BIOB 16  | required to take one course from each subpression lab or SCIN 101, 102, 103 of A – Life Sciences  Discover Biology Discover Biology Lab Principles of Living Systems   | categor<br>& 104                          | y and lits 3 1 3  | - |
| Students are at least one c subcategory BIOB 10 BIOB 10 BIOB 16 BIOB 16 BIOB 16  | required to take one course from each sub-<br>orresponding lab or SCIN 101, 102, 103 of A – Life Sciences  Discover Biology Discover Biology Lab Principles of Living Systems Principles of Living Systems Lab   | ocategor<br>& 104<br><b>3-4 crec</b>      | y and  lits   | - |
| tudents are a teleast one c subcategory BIOB 10 BIOB 10 BIOB 16 BIOB 16 BIOB 16 Subcategory  | required to take one course from each subportesponding lab or SCIN 101, 102, 103 of A – Life Sciences  Discover Biology Discover Biology Lab Principles of Living Systems Principles of Living Systems Lab B – Physical Sciences   | categor<br>& 104                          | y and lits 3 1 3 1 its  | - |
| Students are a strict least one control of the strict least on | required to take one course from each subportesponding lab or SCIN 101, 102, 103 of A – Life Sciences  Discover Biology Discover Biology Lab Principles of Living Systems Principles of Living Systems Lab B – Physical Sciences Introduction to Astronomy   | ocategor<br>& 104<br><b>3-4 crec</b>      | y and  lits   | - |
| Students are a stitleast one control of the state of the  | required to take one course from each sub- orresponding lab or SCIN 101, 102, 103 of A – Life Sciences  Discover Biology Discover Biology Lab Principles of Living Systems Principles of Living Systems Lab B – Physical Sciences Introduction to Astronomy Introduction to Astronomy Lab  | ocategor<br>& 104<br><b>3-4 crec</b>      | y and  lits   | - |
| Students are a stitleast one c subcategory BIOB 10 BIOB 16 BIOB 16 BIOB 16 Subcategory ASTR 11 ASTR 11 CHMY 12   | required to take one course from each sub- orresponding lab or SCIN 101, 102, 103 of A – Life Sciences  Discover Biology Discover Biology Lab Principles of Living Systems Principles of Living Systems Lab B – Physical Sciences Introduction to Astronomy Introduction to Astronomy Lab Introduction to General Chemistry  | % 104<br>3-4 cred                         | y and  lits     3     1     3     1     its     3     1     3     1     3     3     1     3     3     4     3 | - |
| Grudents are a strict least one of the l | required to take one course from each sub- orresponding lab or SCIN 101, 102, 103 of A – Life Sciences  Discover Biology Discover Biology Lab Principles of Living Systems Principles of Living Systems Lab B – Physical Sciences Introduction to Astronomy Introduction to Astronomy Lab Introduction to General Chemistry Introduction to General Chemistry Lab  | % 104<br>3-4 cred                         | y and  lits 3 1 3 1 its 3 1 3 1   | - |
| Grudents are a strict least one of the l | required to take one course from each sub- orresponding lab or SCIN 101, 102, 103 of A – Life Sciences  Discover Biology Discover Biology Lab Principles of Living Systems Principles of Living Systems Lab B – Physical Sciences Introduction to Astronomy Introduction to Astronomy Lab Introduction to General Chemistry Introduction to General Chemistry L College Chemistry I  | % 104<br>3-4 cred                         | y and  lits 3 1 3 1 its 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3   | - |
| Students are a stitleast one of the least one of the leas | required to take one course from each sub- orresponding lab or SCIN 101, 102, 103 of A – Life Sciences  Discover Biology Discover Biology Lab Principles of Living Systems Principles of Living Systems Lab B – Physical Sciences Introduction to Astronomy Introduction to Astronomy Lab Introduction to General Chemistry College Chemistry I College Chemistry Laboratory I   | % 104<br>3-4 cred                         |   | - |
| Students are a stitleast one of the least one of the leas | required to take one course from each sub- orresponding lab or SCIN 101, 102, 103 of A – Life Sciences  Discover Biology Discover Biology Lab Principles of Living Systems Principles of Living Systems Lab B – Physical Sciences Introduction to Astronomy Introduction to Astronomy Lab Introduction to General Chemistry College Chemistry I College Chemistry Laboratory I Introduction to Physical Geology  | ocategor<br>& 104<br>3-4 cred<br>3-4 cred |   | - |
| Students are a stitleast one of the least one of the leas | required to take one course from each sub- corresponding lab or SCIN 101, 102, 103 of A – Life Sciences  Discover Biology Discover Biology Lab Principles of Living Systems Principles of Living Systems Lab B – Physical Sciences Introduction to Astronomy Introduction to Astronomy Lab Introduction to General Chemistry College Chemistry I College Chemistry Laboratory I Introduction to Physical Geology Introduction to Physical Geology La   | ocategor<br>& 104<br>3-4 cred<br>3-4 cred |   | - |
| Students are a state least one of the le | required to take one course from each sub- orresponding lab or SCIN 101, 102, 103 of A – Life Sciences  Discover Biology Discover Biology Lab Principles of Living Systems Principles of Living Systems Lab B – Physical Sciences Introduction to Astronomy Introduction to General Chemistry Introduction to General Chemistry College Chemistry I College Chemistry Laboratory I Introduction to Physical Geology Introduction to Physical Geology La Introduction to Physical Georgaphy   | 3-4 cred                                  |   | - |
| Students are at least one of the least o | required to take one course from each sub- corresponding lab or SCIN 101, 102, 103 of A – Life Sciences  Discover Biology Discover Biology Lab Principles of Living Systems Principles of Living Systems Lab B – Physical Sciences Introduction to Astronomy Introduction to General Chemistry Introduction to General Chemistry College Chemistry I College Chemistry Laboratory I Introduction to Physical Geology Introduction to Physical Geology Introduction to Physical Geography       | 3-4 cred                                  |   | - |
| Students are at least one of the least o | required to take one course from each sub- corresponding lab or SCIN 101, 102, 103 of A – Life Sciences  Discover Biology Discover Biology Lab Principles of Living Systems Principles of Living Systems Lab B – Physical Sciences Introduction to Astronomy Introduction to General Chemistry Introduction to General Chemistry College Chemistry I College Chemistry Laboratory I Introduction to Physical Geology Introduction to Physical Geology Introduction to Physical Geography Introduction to Physical Geography Introduction to Physical Geography Our Physical World  | 3-4 cred                                  |   | - |
| tudents are at least one of the least on | required to take one course from each sub- corresponding lab or SCIN 101, 102, 103 of A – Life Sciences  Discover Biology Discover Biology Lab Principles of Living Systems Principles of Living Systems Lab B – Physical Sciences Introduction to Astronomy Introduction to General Chemistry Introduction to General Chemistry College Chemistry I College Chemistry Laboratory I Introduction to Physical Geology Introduction to Physical Geology Introduction to Physical Geography Introduction to Physical Geography Introduction to Physical Geography Our Physical World Our Physical World Our Physical World Our Physical World | 3-4 cred                                  |   |   |
| tudents are at least one control of the least  | required to take one course from each sub- corresponding lab or SCIN 101, 102, 103 of A – Life Sciences  Discover Biology Discover Biology Lab Principles of Living Systems Principles of Living Systems Lab B – Physical Sciences Introduction to Astronomy Introduction to General Chemistry College Chemistry I College Chemistry Laboratory I Introduction to Physical Geology Introduction to Physical Geography Introduction to Physical Geography Our Physical World Our Physical World College Physics I   | 3-4 cred                                  |   |   |
| Students are   Students     | required to take one course from each sub- corresponding lab or SCIN 101, 102, 103 of A – Life Sciences  Discover Biology Discover Biology Lab Principles of Living Systems Principles of Living Systems Lab B – Physical Sciences Introduction to Astronomy Introduction to General Chemistry Introduction to General Chemistry College Chemistry Laboratory I Introduction to Physical Geology Introduction to Physical Geography Introduction to Physical Geography Our Physical World Our Physical World College Physics I College Physics I Lab   | 3-4 cred                                  |   |   |
| Students are a   | required to take one course from each sub- corresponding lab or SCIN 101, 102, 103 of A – Life Sciences  Discover Biology Discover Biology Lab Principles of Living Systems Principles of Living Systems Lab B – Physical Sciences Introduction to Astronomy Introduction to General Chemistry Introduction to General Chemistry College Chemistry I College Chemistry Laboratory I Introduction to Physical Geology Introduction to Physical Geology Introduction to Physical Geography Introduction to Physical Geography Our Physical World Our Physical World College Physics I College Physics I Lab Fundamentals of Phys Sci         | 3-4 cred                                  |   |   |
| tudents are at least one control of the least  | required to take one course from each sub- corresponding lab or SCIN 101, 102, 103 of A – Life Sciences  Discover Biology Discover Biology Lab Principles of Living Systems Principles of Living Systems Lab B – Physical Sciences Introduction to Astronomy Introduction to General Chemistry Introduction to General Chemistry College Chemistry I College Chemistry Laboratory I Introduction to Physical Geology Introduction to Physical Geology Introduction to Physical Geography Introduction to Physical Geography Our Physical World Our Physical World College Physics I College Physics I Lab Fundamentals of Phys Sci         | 3-4 cred                                  |   |   |

| PHSX        | 205        | College Physics I                     | 3                                |
|-------------|------------|---------------------------------------|----------------------------------|
| PHSX        | 206        | College Physics I Lab                 | 1                                |
| PHSX        | 105        | Fundamentals of Phys Sci              | 3                                |
| PHSX        | 106        | Fundamentals of Phys Sci Lab          | 1                                |
| Subcate     | gories A   | A and B – Integrated Sciences         | 7 credits                        |
| SCIN 101    | i, 102, 10 | 3 & 104 Integrated Sciences           | $3, \frac{1}{2}, 3, \frac{1}{2}$ |
|             |            |                                       |                                  |
| CATEGO      | RY III:    | SOCIAL SCIENCES AND HISTORY           | 6 credits                        |
| Students    | are req    | uired to take one course from each su | ıbcategory                       |
| Subcate     | gory A     | – Social Sciences                     | 3 credits                        |
| ANTY        | 217        | Physical Anthropology & Archeolo      | ogy 3                            |
| <b>BGEN</b> | 105        | Introduction to Business              | 3                                |
| COMX        | 106        | Communicating in a Dynamic Wor        |                                  |
| PSYX        | 231        | Human Relations                       | 3                                |
| <b>ECNS</b> | 201        | Principles of Microeconomics          | 3                                |
| <b>ECNS</b> | 202        | Principles of Macroeconomics          | 3                                |
| EDU         | 105        | Education and Democracy               | 3                                |
| <b>GPHY</b> | 141        | Geography of World Regions            | 3                                |
| HTH         | 110        | Personal Health and Wellness          | 3                                |
| PSCI        | 220        | Introduction to Comparative Gover     | rnment 3<br>nent 3               |
| PSCI        | 210        | Introduction to American Governm      |                                  |
| PSYX        | 100        | Introduction to Psychology            | 3                                |
| SOCI        | 101        | Introduction to Sociology             | 3                                |
| SOCI        | 201        | Social Problems                       | 3                                |
| Subcate     | gory 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   | Tronois Western Civinzation   |   |
| PSCI   | 230   | Introduction to International Relations   | 3   |
| rber   | 230   | introduction to international relations   | 5   |
| CATEGO   | RY IV:  | CULTURAL DIVERSITY 3 cred   | its   |
| ANTY   | 220   | Culture and Society   | 3   |
| ARTH   | 160   | Global Visual Culture   | 3   |
| COMX   | 212   | Introduction 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   | Philosophy & Religion of India  | 3   |
| PHL  | 272   | Philosophy & Religion of China/Tibet/Japan  | 3   |
| REHA   | 201   | Introduction to Diversity in Counseling   | 3   |
| RLST   | 170   | The Religious Quest   | 3   |
| A&SC/  | 170   | The Rengious Quest  | J   |
| SOCI/W   | C 274   | Wenner Caltana and Cariata  | 2   |
|  |   |   |   |
|  |   | Women, Culture, and Society The Hispanic Tradition  | 3   |
| SPNS   | 150   | The Hispanic Tradition  | 3   |
| SPNS<br>CATEGO   | 150<br>ORY V:   | The Hispanic Tradition  ARTS & HUMANITIES 6 cred  | 3   |
| SPNS  CATEGO  Students   | 150  ORY V:  are req  | The Hispanic Tradition  ARTS & HUMANITIES 6 cred wired to take one course from each subcategory   | its   |
| SPNS  CATEGO  Students  Subcates   | 150  ORY V:  are requested gory A   | The Hispanic Tradition  ARTS & HUMANITIES 6 cred  uired to take one course from each subcategory  – Fine Arts 3 cred  | its   |
| SPNS  CATEGO Students Subcates ARTZ  | 150  ORY V:  are req gory A  101  | The Hispanic Tradition  ARTS & HUMANITIES 6 cred  wired to take one course from each subcategory  - Fine Arts 3 cred  Art Fundamentals  | its<br>its<br>3   |
| CATEGO Students Subcates ARTZ ARTZ   | 150  ORY V:  are req gory A  101 131  | The Hispanic Tradition  ARTS & HUMANITIES 6 cred  wired to take one course from each subcategory  – Fine Arts 3 cred  Art Fundamentals  Ceramics for Non-majors   | its<br>v<br>its<br>3  |
| CATEGO<br>Students<br>Subcates<br>ARTZ<br>ARTZ<br>ARTZ   | 150  ORY V:  are req gory A  101 131 105  | The Hispanic Tradition  ARTS & HUMANITIES 6 cred  wired to take one course from each subcategory  Fine Arts 3 cred  Art Fundamentals  Ceramics for Non-majors  Visual Language-Drawing  | its<br>its<br>3<br>3  |
| SPNS  CATEGO Students Subcates ARTZ ARTZ ARTZ ARTZ FILM  | 150  ORY V:  are req gory A  101 131 105 160  | The Hispanic Tradition  ARTS & HUMANITIES 6 cred  uired to take one course from each subcategory  — Fine Arts 3 cred  Art Fundamentals  Ceramics for Non-majors  Visual Language-Drawing Introduction to World Cinema   | its<br>;<br>its<br>3<br>3<br>3  |
| SPNS  CATEGO Students Subcates ARTZ ARTZ ARTZ ARTZ FILM CRWR   | 150  ORY V:  are req gory A  101 131 105 160 240  | The Hispanic Tradition  ARTS & HUMANITIES 6 cred  wired to take one course from each subcategory  — Fine Arts 3 cred  Art Fundamentals  Ceramics for Non-majors  Visual Language-Drawing  Introduction to World Cinema  Introduction Creative Writing Workshop  | its<br>its<br>3<br>3<br>3<br>3  |
| CATEGO<br>Students<br>Subcates<br>ARTZ<br>ARTZ<br>ARTZ<br>FILM<br>CRWR<br>DSGN   | 150  ORY V:  are req gory A  101  131  105  160  240  248   | The Hispanic Tradition  ARTS & HUMANITIES 6 cred  wired to take one course from each subcategory  — Fine Arts 3 cred  Art Fundamentals  Ceramics for Non-majors  Visual Language-Drawing  Introduction to World Cinema  Introduction Creative Writing Workshop  Computer Presentation and Animation   | its<br>its<br>3<br>3<br>3<br>3<br>3   |
| SPNS  CATEGO Students Subcates ARTZ ARTZ ARTZ FILM CRWR DSGN LIT   | 150  ORY V:  are req gory A  101  131  105  160  240  248  270  | The Hispanic Tradition  ARTS & HUMANITIES 6 cred  wired to take one course from each subcategory  — Fine Arts 3 cred  Art Fundamentals  Ceramics for Non-majors  Visual Language-Drawing  Introduction to World Cinema  Introduction Creative Writing Workshop  Computer Presentation and Animation  Film & Literature  | its<br>3<br>3<br>3<br>3<br>3<br>3   |
| CATEGO Students Subcate ARTZ ARTZ ARTZ FILM CRWR DSGN LIT MUSI   | 150<br>PRY V:<br>are req<br>gory A<br>101<br>131<br>105<br>160<br>240<br>248<br>270<br>101                          | The Hispanic Tradition  ARTS & HUMANITIES 6 cred  uired to take one course from each subcategory  Fine Arts 3 cred  Art Fundamentals  Ceramics for Non-majors  Visual Language-Drawing  Introduction to World Cinema  Introduction Creative Writing Workshop  Computer Presentation and Animation  Film & Literature  Enjoyment of Music  | its 3 3 3 3 3 3 3 3   |
| CATEGO Students Subcate ARTZ ARTZ ARTZ FILM CRWR DSGN LIT MUSI MUSI  | 150<br>PRY V:<br>are req<br>gory A<br>101<br>131<br>105<br>160<br>240<br>248<br>270<br>101<br>114                   | The Hispanic Tradition  ARTS & HUMANITIES 6 cred  uired to take one course from each subcategory  – Fine Arts 3 cred  Art Fundamentals  Ceramics for Non-majors  Visual Language-Drawing  Introduction to World Cinema  Introduction Creative Writing Workshop  Computer Presentation and Animation  Film & Literature  Enjoyment of Music  Band: MSUB Symphonic  | 3 its its 3 3 3 3 3 1   |
| SPNS  CATEGO Students Subcate ARTZ ARTZ ARTZ FILM CRWR DSGN LIT MUSI MUSI MUSI   | 150  ORY V:  are req gory A  101  131  105  160  240  248  270  101  114  131                                       | The Hispanic Tradition  ARTS & HUMANITIES 6 cred  uired to take one course from each subcategory  — Fine Arts 3 cred  Art Fundamentals  Ceramics for Non-majors  Visual Language-Drawing  Introduction to World Cinema  Introduction Creative Writing Workshop  Computer Presentation and Animation  Film & Literature  Enjoyment of Music  Band: MSUB Symphonic  Jazz Ensemble I: MSUB   | 3 its 3 3 3 3 3 1 1   |
| CATEGO Students Subcate ARTZ ARTZ ARTZ FILM CRWR DSGN LIT MUSI MUSI MUSI MUSI MUSI   | 150  ORY V:  are req gory A  101  131  105  160  240  248  270  101  114  131  147                                  | The Hispanic Tradition  ARTS & HUMANITIES 6 cred  uired to take one course from each subcategory  — Fine Arts 3 cred  Art Fundamentals  Ceramics for Non-majors  Visual Language-Drawing  Introduction to World Cinema  Introduction Creative Writing Workshop  Computer Presentation and Animation  Film & Literature  Enjoyment of Music  Band: MSUB Symphonic  Jazz Ensemble I: MSUB  Choral Ensemble: University Chorus   | its<br>its<br>3<br>3<br>3<br>3<br>3<br>3<br>1<br>1  |
| CATEGO Students Subcate ARTZ ARTZ ARTZ FILM CRWR DSGN LIT MUSI MUSI MUSI MUSI MUSI THTR                                      | 150  ORY V:  are req gory A  101  131  105  160  240  248  270  101  114  131  147  101                             | ARTS & HUMANITIES 6 cred uired to take one course from each subcategory  – Fine Arts 3 cred Art Fundamentals Ceramics for Non-majors Visual Language-Drawing Introduction to World Cinema Introduction Creative Writing Workshop Computer Presentation and Animation Film & Literature Enjoyment of Music Band: MSUB Symphonic Jazz Ensemble I: MSUB Choral Ensemble: University Chorus Introduction to Theatre   | its its 3 3 3 3 3 1 1 1 3   |
| SPNS  CATEGO Students Subcate; ARTZ ARTZ ARTZ FILM CRWR DSGN LIT MUSI MUSI MUSI MUSI THTR THTR                               | 150  ORY V:  are req gory A  101  131  105  160  240  248  270  101  114  131  147  101  120                        | ARTS & HUMANITIES 6 cred uired to take one course from each subcategory  Fine Arts 3 cred Art Fundamentals Ceramics for Non-majors Visual Language-Drawing Introduction to World Cinema Introduction Creative Writing Workshop Computer Presentation and Animation Film & Literature Enjoyment of Music Band: MSUB Symphonic Jazz Ensemble I: MSUB Choral Ensemble: University Chorus Introduction to Acting I  | its 3 3 3 3 3 1 1 1 3 3   |
| CATEGO Students Students Students Students Students ARTZ ARTZ ARTZ FILM CRWR DSGN LIT MUSI MUSI MUSI MUSI THTR THTR Subcates | 150  PRY V:  are req gory A  101  131  105  160  240  248  270  101  114  131  147  101  120 gory B                 | ARTS & HUMANITIES 6 cred  uired to take one course from each subcategory  Fine Arts 3 cred  Art Fundamentals Ceramics for Non-majors Visual Language-Drawing Introduction to World Cinema Introduction Creative Writing Workshop Computer Presentation and Animation Film & Literature Enjoyment of Music Band: MSUB Symphonic Jazz Ensemble I: MSUB Choral Ensemble: University Chorus Introduction to Theatre Introduction to Acting I  - Humanities 3 cred   | its<br>its<br>3<br>3<br>3<br>3<br>3<br>1<br>1<br>1<br>3<br>3<br>its   |
| SPNS  CATEGO Students Subcate; ARTZ ARTZ ARTZ FILM CRWR DSGN LIT MUSI MUSI MUSI MUSI THTR THTR                               | 150  ORY V:  are req gory A  101  131  105  160  240  248  270  101  114  131  147  101  120                        | ARTS & HUMANITIES 6 cred uired to take one course from each subcategory  Fine Arts 3 cred Art Fundamentals Ceramics for Non-majors Visual Language-Drawing Introduction to World Cinema Introduction Creative Writing Workshop Computer Presentation and Animation Film & Literature Enjoyment of Music Band: MSUB Symphonic Jazz Ensemble I: MSUB Choral Ensemble: University Chorus Introduction to Acting I  | its<br>its<br>3<br>3<br>3<br>3<br>3<br>3<br>1<br>1<br>1<br>3<br>3<br>its<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3 |
| CATEGO Students Students Students Students Students ARTZ ARTZ ARTZ FILM CRWR DSGN LIT MUSI MUSI MUSI MUSI THTR THTR Subcates | 150  PRY V:  are req gory A  101  131  105  160  240  248  270  101  114  131  147  101  120 gory B                 | ARTS & HUMANITIES 6 cred  uired to take one course from each subcategory  Fine Arts 3 cred  Art Fundamentals Ceramics for Non-majors Visual Language-Drawing Introduction to World Cinema Introduction Creative Writing Workshop Computer Presentation and Animation Film & Literature Enjoyment of Music Band: MSUB Symphonic Jazz Ensemble I: MSUB Choral Ensemble: University Chorus Introduction to Theatre Introduction to Acting I  - Humanities 3 cred   | 3 its 3 3 3 3 3 1 1 1 3 3 3 3 3 3 3 3 3 3 3   |
| CATEGO Students Students Students Subcate ARTZ ARTZ ARTZ FILM CRWR DSGN LIT MUSI MUSI MUSI MUSI THTR THTR Subcate ARTH       | 150  PRY V:  are req gory A  101  131  105  160  240  248  270  101  114  131  147  101  120  gory B  150           | ARTS & HUMANITIES direct to take one course from each subcategory Fine Arts Art Fundamentals Ceramics for Non-majors Visual Language-Drawing Introduction to World Cinema Introduction Creative Writing Workshop Computer Presentation and Animation Film & Literature Enjoyment of Music Band: MSUB Symphonic Jazz Ensemble I: MSUB Choral Ensemble: University Chorus Introduction to Acting I - Humanities Introduction to Art History   | its<br>its<br>3<br>3<br>3<br>3<br>3<br>3<br>1<br>1<br>1<br>1<br>3<br>3<br>its<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3                     |
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| CATEGO Students Subcate ARTZ ARTZ ARTZ FILM CRWR DSGN LIT MUSI MUSI MUSI MUSI THTR THTR Subcate ARTH HONR LIT                | 150  PRY V:  are req gory A  101  131  105  160  240  248  270  101  114  131  147  101  120  gory B  150  111  110 | ARTS & HUMANITIES direct to take one course from each subcategory Fine Arts Art Fundamentals Ceramics for Non-majors Visual Language-Drawing Introduction to World Cinema Introduction Creative Writing Workshop Computer Presentation and Animation Film & Literature Enjoyment of Music Band: MSUB Symphonic Jazz Ensemble I: MSUB Choral Ensemble: University Chorus Introduction to Theatre Introduction to Acting I Humanities Introduction to Art History Perspectives and Understanding Introduction to Literature | 3 its 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3   |

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|  |      | Course                                     | Credits | Grade | Semester | Equivalent |
|--|------|--|---------|-------|----------|------------|
| A minimum grade of C- or better is required in all major coursework  Required Core Courses |      |  |         |       |          |            |
|  |      |  |         | 1 1   |          |            |
| CSCI   | 111A | Programming with Java I                    | 4       |       |          |            |
| *M   | 171  | Calculus I                                 | 4       |       |          |            |
| M  | 110  | Mathematical Computing                     | 1       |       |          |            |
| M  | 172  | Calculus II                                | 4       |       |          |            |
| M  | 242  | Methods of Proof                           | 3       |       |          |            |
| M  | 273  | Multivariable Calculus                     | 4       |       |          |            |
| M  | 274  | Introduction to Differential Equations     | 4       |       |          |            |
| M  | 305  | Discrete Structures I                      | 4       |       |          |            |
| M  | 329  | Modern Geometry                            | 3       |       |          |            |
| M  | 333  | Linear Algebra                             | 4       |       |          |            |
| M  | 371  | Numerical Computing                        | 4       |       |          |            |
| M  | 431  | Abstract Algebra I                         | 3       |       |          |            |
| M  | 471  | Mathematical Analysis                      | 3       |       |          |            |
| M  | 472  | Introduction to Complex Analysis           | 3       |       |          |            |
| M  | 499  | Capstone                                   | 3       |       |          |            |
| STAT   | 341  | Introduction to Probability and Statistics | 4       |       |          |            |

<sup>\*</sup>May satisfy Academic Foundations/General Education requirements.

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

## Electives

### BACHELOR OF SCIENCE DEGREE IN MATHEMATICS

| Categories         | Credits | Earned | Remaining |
|--------------------|---------|--------|-----------|
| General Education. | 31      |        |           |
| Mathematics Major  | 55      |        |           |
| Minor (Optional)   | V       |        |           |
| Electives          | V       |        |           |
| Total              | 120     |        |           |

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:**