

## 3+2 BACHELOR OF ARTS / MASTER OF SCIENCE in BIOLOGY: General Biology Option and Thesis Track

| <table border="0" style="width: 100%;"> <thead> <tr> <th style="text-align: left; width: 5%;">Cr.</th> <th style="text-align: center; width: 20%;">Fall Year 1</th> </tr> </thead> <tbody> <tr><td>4</td><td>BIOLOGY.114 Concepts in Biology I</td></tr> <tr><td>4</td><td>CHEM.115 Chemistry for the Sciences I</td></tr> <tr><td>3</td><td>ENGLISH.101 Found Writing</td></tr> <tr><td>3</td><td>Free Elective</td></tr> <tr><td>1</td><td>BIOLOGY.105 BAHS Fresh Semin</td></tr> <tr><td>15</td><td>Total Semester Credits</td></tr> </tbody> </table> | Cr.                                           | Fall Year 1 | 4 | BIOLOGY.114 Concepts in Biology I | 4 | CHEM.115 Chemistry for the Sciences I | 3 | ENGLISH.101 Found Writing         | 3 | Free Elective             | 1                                                                                                                                                                                                                                                                                                                                                                                                                                           | BIOLOGY.105 BAHS Fresh Semin | 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Total Semester Credits | <table border="0" style="width: 100%;"> <thead> <tr> <th style="text-align: left; width: 5%;">Cr.</th> <th style="text-align: center; width: 20%;">Spring Year 1</th> </tr> </thead> <tbody> <tr><td>4</td><td>BIOLOGY.115 Concepts in Biology II</td></tr> <tr><td>4</td><td>CHEM.116 Chemistry for the Sciences II</td></tr> <tr><td>3</td><td>MATH.141 Introduction to Statistics</td></tr> <tr><td>3</td><td>Information Literacy GE Course</td></tr> <tr><td>2</td><td>Healthy Living GE</td></tr> <tr><td>16</td><td>Total Semester Credits</td></tr> </tbody> </table> | Cr. | Spring Year 1             | 4 | BIOLOGY.115 Concepts in Biology II | 4 | CHEM.116 Chemistry for the Sciences II | 3 | MATH.141 Introduction to Statistics | 3 | Information Literacy GE Course | 2  | Healthy Living GE      | 16 | Total Semester Credits |
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| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | BIOLOGY.114 Concepts in Biology I             |             |   |                                   |   |                                       |   |                                   |   |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                             |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |     |                           |   |                                    |   |                                        |   |                                     |   |                                |    |                        |    |                        |
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| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ENGLISH.101 Found Writing                     |             |   |                                   |   |                                       |   |                                   |   |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                             |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |     |                           |   |                                    |   |                                        |   |                                     |   |                                |    |                        |    |                        |
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| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | MATH.141 Introduction to Statistics           |             |   |                                   |   |                                       |   |                                   |   |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                             |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |     |                           |   |                                    |   |                                        |   |                                     |   |                                |    |                        |    |                        |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Information Literacy GE Course                |             |   |                                   |   |                                       |   |                                   |   |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                             |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |     |                           |   |                                    |   |                                        |   |                                     |   |                                |    |                        |    |                        |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Healthy Living GE                             |             |   |                                   |   |                                       |   |                                   |   |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                             |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |     |                           |   |                                    |   |                                        |   |                                     |   |                                |    |                        |    |                        |
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| <table border="0" style="width: 100%;"> <thead> <tr> <th style="text-align: left; width: 5%;">Cr.</th> <th style="text-align: center; width: 20%;">Fall Year 2</th> </tr> </thead> <tbody> <tr><td>4</td><td>BIOLOGY.242 Microbiology</td></tr> <tr><td>4</td><td>Physical Sciences requirement</td></tr> <tr><td>3</td><td>Foreign Language 101</td></tr> <tr><td>3</td><td>Social Sciences GE</td></tr> <tr><td>14</td><td>Total Semester Credits</td></tr> </tbody> </table>                                                                           | Cr.                                           | Fall Year 2 | 4 | BIOLOGY.242 Microbiology          | 4 | Physical Sciences requirement         | 3 | Foreign Language 101              | 3 | Social Sciences GE        | 14                                                                                                                                                                                                                                                                                                                                                                                                                                          | Total Semester Credits       | <table border="0" style="width: 100%;"> <thead> <tr> <th style="text-align: left; width: 5%;">Cr.</th> <th style="text-align: center; width: 20%;">Spring Year 2</th> </tr> </thead> <tbody> <tr><td>4</td><td>BIOLOGY.271 Cell Biology</td></tr> <tr><td>3</td><td>Foreign Language 102 GE</td></tr> <tr><td>3</td><td>Cultures and Diversity GE</td></tr> <tr><td>3</td><td>Arts and Humanities GE</td></tr> <tr><td>3</td><td>Citizenship GE</td></tr> <tr><td>16</td><td>Total Semester Credits</td></tr> </tbody> </table> | Cr.                    | Spring Year 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 4   | BIOLOGY.271 Cell Biology  | 3 | Foreign Language 102 GE            | 3 | Cultures and Diversity GE              | 3 | Arts and Humanities GE              | 3 | Citizenship GE                 | 16 | Total Semester Credits |    |                        |
| Cr.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Fall Year 2                                   |             |   |                                   |   |                                       |   |                                   |   |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                             |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |     |                           |   |                                    |   |                                        |   |                                     |   |                                |    |                        |    |                        |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | BIOLOGY.242 Microbiology                      |             |   |                                   |   |                                       |   |                                   |   |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                             |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |     |                           |   |                                    |   |                                        |   |                                     |   |                                |    |                        |    |                        |
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| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | BIOLOGY.271 Cell Biology                      |             |   |                                   |   |                                       |   |                                   |   |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                             |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |     |                           |   |                                    |   |                                        |   |                                     |   |                                |    |                        |    |                        |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Foreign Language 102 GE                       |             |   |                                   |   |                                       |   |                                   |   |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                             |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |     |                           |   |                                    |   |                                        |   |                                     |   |                                |    |                        |    |                        |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Cultures and Diversity GE                     |             |   |                                   |   |                                       |   |                                   |   |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                             |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |     |                           |   |                                    |   |                                        |   |                                     |   |                                |    |                        |    |                        |
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| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Citizenship GE                                |             |   |                                   |   |                                       |   |                                   |   |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                             |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |     |                           |   |                                    |   |                                        |   |                                     |   |                                |    |                        |    |                        |
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| <table border="0" style="width: 100%;"> <thead> <tr> <th style="text-align: left; width: 5%;">Cr.</th> <th style="text-align: center; width: 20%;">Fall Year 3</th> </tr> </thead> <tbody> <tr><td>4</td><td>BIOLOGY.351 Ecology</td></tr> <tr><td>1</td><td>BIOLOGY.479 Integrated Physiology Lab</td></tr> <tr><td>3</td><td>BIOLOGY Physiology Req,</td></tr> <tr><td>3</td><td>Cultures and Diversity GE</td></tr> <tr><td>3</td><td>Communication GE</td></tr> <tr><td>14</td><td>Total Semester Credits</td></tr> </tbody> </table>                 | Cr.                                           | Fall Year 3 | 4 | BIOLOGY.351 Ecology               | 1 | BIOLOGY.479 Integrated Physiology Lab | 3 | BIOLOGY Physiology Req,           | 3 | Cultures and Diversity GE | 3                                                                                                                                                                                                                                                                                                                                                                                                                                           | Communication GE             | 14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Total Semester Credits | <table border="0" style="width: 100%;"> <thead> <tr> <th style="text-align: left; width: 5%;">Cr.</th> <th style="text-align: center; width: 20%;">Spring Year 3</th> </tr> </thead> <tbody> <tr><td>3</td><td>BIOLOGY.332 Genetics</td></tr> <tr><td>3</td><td>Arts and Humanities GE</td></tr> <tr><td>3</td><td>Social Sciences GE</td></tr> <tr><td>3</td><td>Communication GE</td></tr> <tr><td>3</td><td>Free Elective</td></tr> <tr><td>15</td><td>Total Semester Credits</td></tr> </tbody> </table>                                                                  | Cr. | Spring Year 3             | 3 | BIOLOGY.332 Genetics               | 3 | Arts and Humanities GE                 | 3 | Social Sciences GE                  | 3 | Communication GE               | 3  | Free Elective          | 15 | Total Semester Credits |
| Cr.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Fall Year 3                                   |             |   |                                   |   |                                       |   |                                   |   |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                             |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |     |                           |   |                                    |   |                                        |   |                                     |   |                                |    |                        |    |                        |
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| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | BIOLOGY.479 Integrated Physiology Lab         |             |   |                                   |   |                                       |   |                                   |   |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                             |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |     |                           |   |                                    |   |                                        |   |                                     |   |                                |    |                        |    |                        |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | BIOLOGY Physiology Req,                       |             |   |                                   |   |                                       |   |                                   |   |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                             |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |     |                           |   |                                    |   |                                        |   |                                     |   |                                |    |                        |    |                        |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Cultures and Diversity GE                     |             |   |                                   |   |                                       |   |                                   |   |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                             |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |     |                           |   |                                    |   |                                        |   |                                     |   |                                |    |                        |    |                        |
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| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | BIOLOGY.332 Genetics                          |             |   |                                   |   |                                       |   |                                   |   |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                             |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |     |                           |   |                                    |   |                                        |   |                                     |   |                                |    |                        |    |                        |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>Eligibility for Grad. Classes (&gt;90)</b> |             |   |                                   |   |                                       |   |                                   |   |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                             |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |     |                           |   |                                    |   |                                        |   |                                     |   |                                |    |                        |    |                        |
| <table border="0" style="width: 100%;"> <thead> <tr> <th style="text-align: left; width: 5%;">Cr.</th> <th style="text-align: center; width: 20%;">Fall Year 4</th> </tr> </thead> <tbody> <tr><td>3</td><td>BIOLOGY Graduate Elective</td></tr> <tr><td>3</td><td>BIOLOGY Graduate Elective</td></tr> <tr><td>3</td><td>Free Elective</td></tr> <tr><td>3</td><td>Free Elective</td></tr> <tr><td>3</td><td>Free Elective</td></tr> <tr><td>15</td><td>Total Semester Credits</td></tr> </tbody> </table>                                                | Cr.                                           | Fall Year 4 | 3 | BIOLOGY Graduate Elective         | 3 | BIOLOGY Graduate Elective             | 3 | Free Elective                     | 3 | Free Elective             | 3                                                                                                                                                                                                                                                                                                                                                                                                                                           | Free Elective                | 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Total Semester Credits | <table border="0" style="width: 100%;"> <thead> <tr> <th style="text-align: left; width: 5%;">Cr.</th> <th style="text-align: center; width: 20%;">Spring Year 4</th> </tr> </thead> <tbody> <tr><td>3</td><td>BIOLOGY Graduate Elective</td></tr> <tr><td>3</td><td>MATH.546 Biostatistics</td></tr> <tr><td>3</td><td>Free Elective</td></tr> <tr><td>3</td><td>Free Elective</td></tr> <tr><td>3</td><td>Free Elective</td></tr> <tr><td>15</td><td>Total Semester Credits</td></tr> </tbody> </table>                                                                     | Cr. | Spring Year 4             | 3 | BIOLOGY Graduate Elective          | 3 | MATH.546 Biostatistics                 | 3 | Free Elective                       | 3 | Free Elective                  | 3  | Free Elective          | 15 | Total Semester Credits |
| Cr.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Fall Year 4                                   |             |   |                                   |   |                                       |   |                                   |   |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                             |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |     |                           |   |                                    |   |                                        |   |                                     |   |                                |    |                        |    |                        |
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| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | BIOLOGY Graduate Elective                     |             |   |                                   |   |                                       |   |                                   |   |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                             |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |     |                           |   |                                    |   |                                        |   |                                     |   |                                |    |                        |    |                        |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | MATH.546 Biostatistics                        |             |   |                                   |   |                                       |   |                                   |   |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                             |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |     |                           |   |                                    |   |                                        |   |                                     |   |                                |    |                        |    |                        |
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| <table border="0" style="width: 100%;"> <thead> <tr> <th style="text-align: left; width: 5%;">Cr.</th> <th style="text-align: center; width: 20%;">Fall Year 5</th> </tr> </thead> <tbody> <tr><td>3</td><td>BIOLOGY Graduate Elective</td></tr> <tr><td>3</td><td>BIOLOGY Graduate Elective</td></tr> <tr><td>3</td><td>BIOLOGY.593 Master Science Thesis</td></tr> <tr><td>9</td><td>Total Semester Credits</td></tr> </tbody> </table>                                                                                                                 | Cr.                                           | Fall Year 5 | 3 | BIOLOGY Graduate Elective         | 3 | BIOLOGY Graduate Elective             | 3 | BIOLOGY.593 Master Science Thesis | 9 | Total Semester Credits    | <table border="0" style="width: 100%;"> <thead> <tr> <th style="text-align: left; width: 5%;">Cr.</th> <th style="text-align: center; width: 20%;">Spring Year 5</th> </tr> </thead> <tbody> <tr><td>3</td><td>BIOLOGY Graduate Elective</td></tr> <tr><td>3</td><td>BIOLOGY Graduate Elective</td></tr> <tr><td>3</td><td>BIOLOGY.593 Master Science Thesis</td></tr> <tr><td>9</td><td>Total Semester Credits</td></tr> </tbody> </table> | Cr.                          | Spring Year 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 3                      | BIOLOGY Graduate Elective                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 3   | BIOLOGY Graduate Elective | 3 | BIOLOGY.593 Master Science Thesis  | 9 | Total Semester Credits                 |   |                                     |   |                                |    |                        |    |                        |
| Cr.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Fall Year 5                                   |             |   |                                   |   |                                       |   |                                   |   |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                             |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |     |                           |   |                                    |   |                                        |   |                                     |   |                                |    |                        |    |                        |
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Total Credits 138