| 2014-2015 B | S | Name: | ID#: |
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BACHELOR OF SCIENCE IN BIOLOGICAL SCIENCES

Grading Type: Major courses completed Winter Quarter 2007 and thereafter must be letter-graded unless course is offered on P/NP basis only.

| Courses Units Grade GPB MAT 17A* or 21A# 4 MAT 17B* or 21B# 3 MAT 17C* 4 "[Fall 2010 transfer students and continuing students admitted prior to fall 2010 may use STA 13 or 13V or 32 or 102 to satisty this requirement.) **Acourse may be used to satisty only 1 requirement in the entire major.** **Acourse may be used to satisty only 1 requirement in the entire major.** **Section 18B* 18B* 18B* 18B* 18B* 18B* 18B* 18B* | Preparatory Requirements: | Depth Subject Matter Continued: | | |
|--|--|---|--|--|
| Courses Units Grade GPB | | | | |
| MAT 178' or 218# 4 MAT 178' or 218# 4 MAT 178' or 218# 4 MAT 172' or 228# 4 MAT 172' or 28# 6 MAT 172' o | | | | |
| MAT 176" or 218# 4 1/Fall 2010 transfer students and continuing students admitted prior to fall 2010 may util use MAT 16ABC to satisfy this requirement.) #(Math 21C recommended.) CHE 2A 5. CHE 2B 5. CHE 2C 5. CHE 8B 4. CHE 118A 4. CHE 118A 4. CHE 118B 4. CHE 118B 4. CHE 118B 4. CHE 118C 5. SIS 2B 5. SIS 2C 5. CHE Why 7C 4. PHY 7B 4. PHY 7C 4. PHY 7B 4. PHY 7C 5. Depth Subject Matter: 49 units Courses Units Grade GPB Deficiencies/Comments: Depth Subject Matter: 49 units Courses On and the following two options in the Microbiology area of emphasis: Bisochenology and Applied Microbiology option or Medical Microbiology option. (10 units) BIS 101 4. BIS 103 4. BIS 103 4. BIS 104 3. OR Option 2: Open to all students. Students must complete this option if completing the Molecular and Cellular Biology area of emphasis: Bisochenology and Course of the following two options in the Microbiology area of emphasis: Bisochenology and Applied Microbiology option or Microbial Diversity and Cellular Biology are of emphasis: Bisochenology and Applied Microbiology option or Microbial Diversity and Cellular Biology are of emphasis: the Microbial Diversity and Cellular Biology are of emphasis: bisochenology area of emphasi | | | | |
| Acourse may be used to satisfy only 1 requirement in the entire major. (Fiell 2010 transfer students and continuing students admitted prior to fall 2010 may still use Mart 16ABC to satisfy this requirement) #Math 21C recommended.) CHE 2A 5 5 6 6 7 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 | | | | |
| 3. Field Requirement (ONE course in each field; extra lines for office use only) standard price to tal 2010 may situe swath T18AE to satisfy this requirement, eMidath 21C recommended.) CHE 28 | MAT 17C* _ <u>4_</u> | | | |
| satisfy this requirement.) #iMath 21C recommended.) CHE 2A 5. CHE 2B 5. CHE 3B 4. OR CHE 118A 4. CHE 118B 4. CHE 118B 4. CHE 118B 4. CHE 118C 5. BIS 2B 5. BIS 2C 5. BIS 2C 5. CHE 2B 5. CHE 2B 5. CHE 2B 5. CHE 2B 6. CHE 118B 4. CHE 118B 4. CHE 118B 4. CHE 118C 7. CHE 118B 4. CHE 118C 7. CHE 118B 4. CHE 118C 8. CHE 118C 8. CHE 118C 9. CHE 118B 1. CHE 118C 9. CHE 118C 9. CHE 118C 1. CHE 1. CHE 118C 1. CHE 1. CHE 118C 1. CHE | , | | | |
| See area of emphasis for specific field course requirements CHE 28 | | | | |
| CHE 2B 5 | | | | |
| CHE 2C 5 CHE 8A 2 CHE 8B 4 OR CHE 118A 4 CHE 118B 4 CHE 118C 4 CHE 118C 5 BIS 2A 5 BIS 2B 5 BIS 2C 5 CHE 7 Per Completed Prep GPB Deficiencies/Comments: Depth Subject Matter: 49 units Courses Units Grade GPB Common Curriculum: 10-13 units: Option 1: Open only to students completing areas of emphasis in EEB, Marine Biology, NPB, PLB, and the following two options in the Microbiology option. (10 units) BIS 101 4 BIS 105 3 BIS 101 4 BIS 105 3 BIS 101 4 BIS 105 3 BIS 104 3 OR Option 2: Open to all students. Students must complete this option if completing the Molecular and Cellular Biology area of emphasis or the following two options in the Microbiology area of emphasis or the following wo options in the Microbiology area of emphasis or the following wo options in the Microbiology area of emphasis or the following wo options in the Microbiology area of emphasis or the following wo options in the Microbiology area of emphasis or the following wo options in the Microbiology area of emphasis or the following wo options in the Microbiology area of emphasis or the following wo options in the Microbiology area of emphasis or the following wo options in the Microbiology area of emphasis or the following wo options in the Microbiology area of emphasis or the following wo option in the Microbiology area of emphasis or the following wo options in the Microbiology area of emphasis or the following wo options in the Microbiology area of emphasis or the following wo options in the Microbiology area of emphasis or the following wo options in the Microbiology area of emphasis or the following wo options in the Microbiology area of emphasis or the following wo options in the Microbiology area of emphasis or the following wo options in the Microbiology area of emphasis or the following wo options in the Microbiology area of emphasis or the following wo options in the Microbiology area of emphasis or the following wo options in the Microbiology area of emphasis or the following wo options in the Microbiology area of emphasis or | | · | | |
| CHE 88 | | a) Evolution: ANT 151, 152, 154A; EVE 100; GEL 107; PLB 143 | | |
| CHE 118B | <u> </u> | | | |
| CHE 118B | CHE 8A <u>2</u> | | | |
| CHE 118A | CHE 8B <u>4</u> | , | | |
| BIS 2A 5 BIS 2B 5 BIS 2C 6 BIS 2C 5 BIS 2C 6 BIS 2C 5 BIS 2C 6 BIS 2C 6 BIS 2C 7 BIS 102 4 BIS 103 4 BIS 101 4 BIS 105 3 BIS 101 4 BIS 105 3 BIS 104 3 BIS 105 3 BIS 104 3 BIS 105 3 | OR | EVE 101; MIC 120; WFC 151 | | |
| BIS 2A 5 BIS 2B 5 BIS 2C 6 BIS 2C 6 BIS 2C 5 BIS 102 4 BIS 103 4 BIS 101 4 BIS 105 3 BIS 101 4 BIS 105 3 BIS 104 3 BIS 105 4 BIS 105 3 BIS 105 3 BIS 105 3 BIS 105 3 BIS 105 4 BIS 105 3 BIS 105 3 BIS 105 3 BIS 105 3 BIS 105 4 BIS 105 3 BIS 105 3 BIS 105 4 BIS 105 3 BIS 105 4 BIS 105 5 BIS 105 5 BIS 105 6 BIS 105 10 BI | CHE 118A <u>4</u> | | | |
| BIS 2A 5 BIS 2B 5 BIS 2C 6 BIS 2C 5 BIS 2C 6 BIS 2C 5 BIS 2C 6 BIS 2C 6 BIS 2C 7 BIS 102 4 BIS 103 4 BIS 101 4 BIS 105 3 BIS 101 4 BIS 105 3 BIS 104 3 BIS 105 3 BIS 104 3 BIS 105 3 | CHE 118B <u>4</u> | -\ Mi | | |
| BIS 2A 5 BIS 2B 5 BIS 2C 5 BIS 102 4 BIS 101 4 BIS 105 3 BIS 104 3 BIS 105 3 BIS 104 3 BIS 105 3 BIS 106 3 BIS 106 3 BIS 107 4 BIS 107 107 107 107 107 107 107 107 107 107 | CHE 118C <u>4</u> | • | | |
| PHY 7A 4 | DIC 24 | PMI 127, 128; 55C 111 | | |
| PHY 7A 4 | BIS 2R 5 | | | |
| PHY 7A 4 | BIS 2C 5 | d) Nourobiology, Physiology and Pohavior: ANT 1544: | | |
| PHY 7A 4 PHY 7B 4 PHY 7C 4 Prep Completed Prep GPB Deficiencies/Comments: Depth Subject Matter: 49 units Courses Units Grade GPB 1. Common Curriculum: 10-13 units: Option 1: Open only to students completing areas of emphasis in EEB, Marine Biology, NPB, PLB, and the following two options in the Microbiology area of emphasis: Biotechnology and Applied Microbiology option or Medical Microbiology option. (10 units) BIS 101 4 BIS 105 3 BIS 104 3 OR Option 2: Open to all students. Students must complete this option if completing the Molecular and Cellular Biology area of emphasis or the following two options in the Microbiology area of emphasis or the following two options in the Microbiology area of emphasis: Microbial Physiology and Molecular Genetics option or Microbiology and Molecular Genetics option or Microbial Diversity and Ecology and Ecology option or Microbial Diversity and Scalars of the following two options in the Microbiology area of emphasis: Microbial Diversity and Scalars of the following two options in the Microbiology area of emphasis: Microbial Diversity and Scalars of the following two options in the Microbiology area of emphasis: Microbial Diversity and Scalars of the following two options in the Microbiology area of emphasis of the following two options in the Microbiology area of emphasis of the following two options in the Microbiology and Molecular Genetics option or Microbial Diversity and Scalars of EEB MRB MIC MCB NPB PLB Units, 112, 113, 116, 117, 119, 143, 147, 148; PLP 120, 130, 148; PLS 144, 176 4. Area of Emphasis Requirement: Complete 1 of 6 areas of emphasis: EEB MRB MIC MCB NPB PLB Units, 144 mits, 147 mits, 147, 149, PLP 120, 130, 148; PLS 144, 176 4. Area of Emphasis Requirement: Complete 1 of 6 areas | <u></u> | | | |
| Prep Completed Prep GPB | PHY 7A _4 | ENT 102, 104, NFB 100, 101, 102, 141 | | |
| Prep Completed Prep GPB | PHY 7B <u>4</u> | | | |
| Prep Completed Prep GPB PEdiciencies/Comments: PLB 102, 105, 108, 111, 112, 113, 116, 117, 119, 143, 147, 148; PLP 120, 130, 148; PLS 144, 176 Pediciencies/Comments: PLB 102, 105, 108, 111, 112, 113, 116, 117, 119, 143, 147, 148; PLP 120, 130, 148; PLS 144, 176 Pediciencies/Comments: PLB 102, 105, 108, 111, 112, 113, 116, 117, 119, 143, 147, 148; PLP 120, 130, 148; PLS 144, 176 PLB 143, 147, 148; PLP 120, 130, 148; PLS 144, 176 PLB 143, 147, 148; PLP 120, 130, 148; PLS 144, 176 PLB 143, 147, 148; PLP 120, 130, 148; PLS 144, 176 PLB 143, 147, 148; PLP 120, 130, 148; PLS 144, 176 PLB 143, 147, 148; PLP 120, 130, 148; PLS 144, 176 PLB 143, 147, 148; PLP 120, 130, 148; PLS 144, 176 PLB 143, 147, 148; PLP 120, 130, 148; PLS 144, 176 PLB 143, 147, 148; PLP 120, 130, 148; PLS 144, 176 PLB 143, 147, 148; PLP 120, 130, 148; PLS 144, 176 PLB 143, 147, 148; PLP 120, 130, 148; PLS 144, 176 PLB 143, 147, 148; PLP 120, 130, 148; PLS 144, 176 PLB 143, 147, 148; PLP 120, 130, 148; PLS 144, 176 PLB 143, 147, 148; PLP 120, 130, 148; PLS 144, 176 PLB 144, 176 PLB 143, 147, 148; PLP 120, 130, 148; PLS 144, 176 PLB 144, 176 PLB 143, 147, 148; PLP 120, 130, 148; PLS 144, 176 PLB | PHY 7C <u>4</u> | e) Plant Biology: ENH 102 105: EVF 108 117 119 140: | | |
| Depth Subject Matter: 49 units Courses Units Grade GPB 1. Common Curriculum: 10-13 units: Option 1: Open only to students completing areas of emphasis in EEB, Marine Biology, NPB, PLB, and the following two options in the Microbiology area of emphasis: Biotechnology and Applied Microbiology option or Medical Microbiology option. (10 units) BIS 101 | | · · · · · · · · · · · · · · · · · · · | | |
| Depth Subject Matter: 49 units Courses Units Grade GPB 1. Common Curriculum: 10-13 units: Option 1: Open only to students completing areas of emphasis in EEB, Marine Biology, NPB, PLB, and the following two options in the Microbiology area of emphasis: Biotechnology and Applied Microbiology option or Medical Microbiology option. (10 units) BIS 101 | | | | |
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| 1. Common Curriculum: 10-13 units: Option 1: Open only to students completing areas of emphasis in EEB, Marine Biology, NPB, PLB, and the following two options in the Microbiology area of emphasis: Biotechnology and Applied Microbiology option or Medical Microbiology option. (10 units) BIS 101 | Depth Subject Matter: 49 units | | | |
| Option 1: Open only to students completing areas of emphasis in EEB, Marine Biology, NPB, PLB, and the following two options in the Microbiology area of emphasis: Biotechnology and Applied Microbiology option or Medical Microbiology option. (10 units) BIS 101 | Courses Units Grade GPB | 4. Area of Emphasis Requirement: Complete 1 of 6 areas of emphasis: | | |
| areas of emphasis in EEB, Marine Biology, NPB, PLB, and the following two options in the Microbiology area of emphasis: Biotechnology and Applied Microbiology option or Medical Microbiology option. (10 units) BIS 101 | 1. Common Curriculum: 10-13 units: | EEB MRB MIC MCB NPB PLB Units | | |
| areas of emphasis in EEB, Marine Biology, NPB, PLB, and the following two options in the Microbiology area of emphasis: Biotechnology and Applied Microbiology option or Medical Microbiology option. (10 units) BIS 101 | Option 1: Open only to students completing | | | |
| Microbiology area of emphasis: Biotechnology and Applied Microbiology option or Medical Microbiology option. (10 units) BIS 101 | | (if needed) to total 49 units:* Total Depth Subject Matter Units | | |
| and Applied Microbiology option or Medical Microbiology option. (10 units) BIS 101 | NPB, PLB, and the following two options in the | | | |
| and Applied Microbiology option or Medical Microbiology option. (10 units) BIS 101 | Microbiology area of emphasis: Biotechnology | *A !:: | | |
| Microbiology option. (10 units) BIS 101 | and Applied Microbiology option or Medical | will not count toward upper division restricted elective units. | | |
| BIS 105 3 BIS 104 3 OR Option 2: Open to all students. Students must complete this option if completing the Molecular and Cellular Biology area of emphasis or the following two options in the Microbiology area of emphasis: Microbial Physiology and Molecular Genetics option or Microbial Diversity and Ecology option (13 units) Depth Subject Matter 7. Grading Type: Major courses completed Winter Quarter 2007 and thereafter must be letter-graded unless course is only offered on P/NP basis. Office use only: QTR Initials Date Depth GPB Evaluation of requirements completed Evaluation of completed Winter Quarter 2007 and thereafter must be letter-graded unless course is only offered on P/NP basis. | Microbiology option. (10 units) | | | |
| BIS 104 3 7. Grading Type: Major courses completed Winter Quarter 2007 and thereafter must be letter-graded unless course is only offered on P/NP basis. 7. Grading Type: Major courses completed Winter Quarter 2007 and thereafter must be letter-graded unless course is only offered on P/NP basis. 7. Grading Type: Major courses completed Winter Quarter 2007 and thereafter must be letter-graded unless course is only offered on P/NP basis. 7. Grading Type: Major courses completed Winter Quarter 2007 and thereafter must be letter-graded unless course is only offered on P/NP basis. 7. Grading Type: Major courses completed Winter Quarter 2007 and thereafter must be letter-graded unless course is only offered on P/NP basis. 8. Depth GPB 8. Evaluation of requirements completed Winter Quarter 2007 and thereafter must be letter-graded unless course is only offered on P/NP basis. | <u> </u> | | | |
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| Option 2: Open to all students. Students must complete this option if completing the Molecular and Cellular Biology area of emphasis or the following two options in the Microbiology area of emphasis: Microbial Physiology and Molecular Genetics option or Microbial Diversity and Ecology options (13 units) Genetics Open to all students. Students must unless course is only offered on P/NP basis. Office use only: QTR Initials Date Depth GPB Evaluation of requirements completed | | 7. Grading Type: Major courses completed Winter | | |
| complete this option if completing the Molecular and Cellular Biology area of emphasis or the following two options in the Microbiology area of emphasis: Microbial Physiology and Molecular Genetics option or Microbial Diversity and Federal Physiology (13 units) Office use only: QTR Initials Date Depth GPB Evaluation of requirements completed | | | | |
| and Cellular Biology area of emphasis or the following two options in the Microbiology area of emphasis: Microbial Physiology and Molecular Genetics option or Microbial Diversity and Ecology option (13 units) Office use only: QTR Initials Date Depth GPB Evaluation of requirements completed | | unless course is only offered on P/NP basis. | | |
| following two options in the Microbiology area of emphasis: Microbial Physiology and Molecular Genetics option or Microbial Diversity and Ecology option (13 units) Evaluation of requirements completed | · · · · · · · · · · · · · · · · · · · | Office use only: OTP Initials Date Donth CDR | | |
| emphasis: Microbial Physiology and Molecular Genetics option or Microbial Diversity and Ecology option (13 units) | ======================================= | Office use offig. QTK littlians Date Deptit GFB | | |
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| Ecology ention (13 units) | · · · · · · · · · · · · · · · · · · · | requirements | | |
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| BIS 101 <u>4</u> | | | | |
| BIS 102 3 | | Major Regts Completed 「 | | |
| BIS 103 <u>3</u> (Forms/BIS BS 2014-15. 7/17/2014) initials date | | | | |