Department of Biology

Public Health & Microbiology Option (BIPH)

* Denotes courses required by the AUM Biology Department

<table>
<thead>
<tr>
<th>AUM Courses</th>
<th>AL. College System Equivalents</th>
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<td><strong>AREA I: Written Composition (6SH) (SH= Semester Hours)</strong></td>
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<tr>
<td>___ ENGL 1010 English Composition I</td>
<td>ENG 101</td>
</tr>
<tr>
<td>___ ENGL 1017 English Composition I, Honors</td>
<td>NO EQUIVALENT</td>
</tr>
<tr>
<td>___ ENGL 1020 English Composition II</td>
<td>ENG 102</td>
</tr>
<tr>
<td>___ ENGL 1027 English Composition II, Honors</td>
<td>NO EQUIVALENT</td>
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**AREA II: Humanities and Fine Arts (12SH)**

Students must complete a 6SH sequence in Literature or History

**Students must complete at least 3SH in Literature**

| ___ ENGL 2530 Survey of English Literature I | ENG 261 |
| ___ ENGL 2540 Survey of English Literature II | ENG 262 |
| ___ ENGL 2570 Survey of American Literature I | ENG 251 |
| ___ ENGL 2580 Survey of American Literature II | ENG 252 |
| ___ ENGL 2600 Survey of Literature of the Western World I | ENG 271 |
| ___ ENGL 2610 Survey of Literature of the Western World II | ENG 272 |

**Students must complete a 3SH course in Fine Arts**

| ___ MUSI 2110 Music Appreciation | MUS 101 |
| ___ THEA 2040 Theatre Appreciation | THR 120, THR 126 |
| ___ VISU 1000 Art Appreciation | ART 100 |
| ___ VISU 2030 Art History I | ART 203 |
| ___ VISU 2040 Art History II | ART 204 |

The remaining hours in AREA II should be taken from the following:

**Students must take one of the following:**

| ___ COMM 1010 Introduction to Human Communication | SPH 106 |
| ___ COMM 1017 Introduction to Human Communication, Honors | NO EQUIVALENT |
| ___ COMM 2212 Public Speaking | SPH 107 |

The remaining hours in Area II should be taken from the following:

| ___ FREN 1010 Elementary French I | FRN 101 |
| ___ FREN 1020 Elementary French II | FRN 102 |
| ___ FREN 2010 Intermediate French I | FRN 201 |
__FREN 2020 Intermediate French II  FRN 202
__GERM 1010 Elementary German I  GRN 101
__GERM 1020 Elementary German II  GRN 102
__GERM 2010 Intermediate German I  GRN 201
__GERM 2020 Intermediate German II  GRN 202
__SPAN 1010 Elementary Spanish I  SPN 101
__SPAN 1020 Elementary Spanish II  SPN 102
__SPAN 2010 Intermediate Spanish I  SPN 201
__SPAN 2020 Intermediate Spanish II  SPN 202
__PHIL 2000 Reasoning and Critical Thinking  NO EQUIVALENT
__PHIL 2010 Introduction to Philosophy  PHL 106
__PHIL 2100 Applied Ethics  PHL 206

**AREA III: Natural Sciences and Mathematics (11-12SH)**
Students must complete a sequence of the following:

__BIOL 1010/1011 Principles of Biology I/Lab  BIO 101, BIO 103
__BIOL 1017/1018 Principles of Biology I, Honors  NO EQUIVALENT
__BIOL 1020/1021 Principles of Biology II/Lab  BIO 102, BIO 104
__BIOL 1027/1028 Principles of Biology II, Honors  NO EQUIVALENT

Students must complete a 3SH course in Mathematics

__MATH 1100 Finite Mathematics  MTH 110
__MATH 1120 PreCalculus Algebra  MTH 112, MTH 113, MTH 115
__MATH 1610 Calculus I  MTH 125
__MATH 1150 PreCal/Algebra/Trig  MTH 115

**AREA IV: History, Social Sciences, & Behavioral Sciences (12SH)**
Students must complete a 6SH sequence in Literature or History
Students must complete at least 3SH in History

__HIST 1010 World History I to 1648  HIS 101, HIS 121
__HIST 1017 World History I, Honors  NO EQUIVALENT
__HIST 1020 World History II Since 1648  HIS 102, HIS 122
__HIST 1027 World History II, Honors  NO EQUIVALENT
__HIST 2010 U.S. History to 1865  HIS 201
__HIST 2020 U.S. History Since 1865  HIS 202

The remaining hours in Area IV should be taken from the list below:

__ANTH 2110 Cultural Anthropology  ANT 200
__ECON 2010 Economics I (Micro)  ECO 232
__ ECON 2020 Economics II (Macro)  
ECO 231

__ GEOG 2050 Geography of World regions  
GEO 100

__ GEOG 2150 Cultural Geography  
NO EQUIVALENT

__ POLS 2020 American National Government  
POL 211

__ PSYC 2110 General Introductory Psychology  
PSY 200

__ SOCI 2000 Introduction to Sociology  
SOC 200

__ SOCI 2007 Introduction to Sociology, Honors  
NO EQUIVALENT

**AREA V: Major & Elective Courses**

Students must take the following courses:

__ CHEM 1100/1101 General Chemistry I/Lab  
CHM 111

__ CHEM 1200/1201 General Chemistry II/Lab  
CHM 112

**THE FOLLOWING COURSES MUST BE TAKEN AT AUM**

All students must take 3 AUM writing intensive courses. At least 2 are in their major. All biology majors take the following courses:

__ BIOL 2200 Biostatistics (or MATH 2200)  
__ BIOL 4952 Capstone Biology (WI)

__ BIOL 3010 Microbiology (or 2010 Fundamentals of Microbiology)  
__ CHEM 3100/3101 Organic Chemistry I/Lab

__ BIOL 3011 Microbiology Laboratory (or 2011 Fundamentals of Microbiology)  
__ CHEM 3200/3201 Organic Chemistry II/Lab

__ BIOL 3303 Genetics

All Public Health & Microbiology Concentration Biology Majors take the following courses:

__ CHEM 3300/3301 Biochemistry /Lab

__ BIOL 3250 Epidemiology

Students must take one of the following courses:

__ BIOL 4053 Industrial Microbiology or  
BIOL 4050/4051 Industrial Microbiology/Lab

__ BIOL 4063 Environmental Microbiology or  
BIOL 4060/4061 Environmental Microbiology/Lab

Students must take one of the following courses:

__ BIOL 4013 Medical Microbiology(WI) or  
BIOL 4010/4011 Medical Microbiology/Lab

__ BIOL 4033 Virology(WI) or BIOL 4030/4031 Virology/Lab
Students must take at least 17-18SH of Biology Electives from the list of courses below:

___ BIOL 2000 Nutrition
___ BIOL 2410 Biomedical Vocabulary
___ BIOL 2100/2101 Human Anatomy & Physiology I/Lab
___ BIOL 2110/2111 Human Anatomy & Physiology II/Lab
___ BIOL 3400 Principles of Toxicology
___ BIOL 4013 Medical Microbiology or BIOL 4010/4011 Medical Microbiology/Lab
___ BIOL 4033 Virology(WI) or BIOL 4030/4031 Virology/Lab
___ BIOL 4053 Industrial Microbiology or BIOL 4050/4051 Industrial Microbiology/Lab
___ BIOL 4063 Environmental Microbiology or BIOL 4060/4061 Environmental Microbiology/Lab
___ BIOL 4073 Immunobiology(WI) or BIOL 4070/7071 Immunobiology/Lab
___ BIOL 4353 Cell Biology or BIOL 4350/4351 Cell Biology/Lab
___ BIOL 4603 Molecular Genetics(WI) or BIOL 4600/4601 Molecular Genetics/Lab
___ BIOL 4800 Perspectives in Biology I
___ BIOL 4803 Perspectives in Biology II
___ BIOL 4932 Directed Research (1-4) (maximum of 4 hours towards major)

Total Semester Hours: 120