

ATENEO DE DAVAO UNIVERSITY
Bachelor of Science in Biology Major in Medical Biology
 ~~~ Effective SY 2018 - 2019 ~~~

| FIRST SEMESTER    |                                                                     |           |                | SECOND SEMESTER   |                                                                     |              |                            |
|-------------------|---------------------------------------------------------------------|-----------|----------------|-------------------|---------------------------------------------------------------------|--------------|----------------------------|
| Course Number     | Course Title                                                        | Units     | Pre-requisites | Course Number     | Course Title                                                        | Units        | Pre-requisites             |
| ___ Bio 1130      | General Botany Lec                                                  | 3         | None           | ___ Bio 1234      | Systematics Lec                                                     | 3            | Bio 1130, 1131, 1132, 1133 |
| ___ Bio 1131      | General Botany Lab                                                  | 2         | None           | ___ Bio 1235      | Systematics Lab                                                     | 2            | Bio 1130, 1131, 1132, 1133 |
| ___ Bio 1132      | General Zoology Lec                                                 | 3         | None           | ___ Chem 1051     | Chemical Biology II Lec (Organic Molecules lecture)                 | 3            | None                       |
| ___ Bio 1133      | General Zoology Lab                                                 | 2         | None           | ___ Chem 1052     | Chemical Biology II Lab (Organic Molecules laboratory)              | 1            | None                       |
| ___ Chem 1041     | Chemical Biology I Lec (Analytical Methods for Biology lecture)     | 3         | None           | ___ Math 1275     | Math Analysis with Algebra                                          | 3            | None                       |
| ___ Chem 1042     | Chemical Biology I Lab (Analytical Methods for Biology laboratory)  | 2         | None           | ___ GE 1210       | Readings in Philippine History                                      | 3            | None                       |
| ___ GE 1105       | Understanding the Self                                              | 3         |                | ___ ASF(NSTP)1203 | National Service Training Program- Civic Welfare Training Service 2 | 3            | ASF(NSTP)1102              |
| ___ Philo 1000    | Philosophy                                                          | 3         |                | ___ Theo 1000     | Theology                                                            | 3            | None                       |
| ___ ASF(NSTP)1102 | National Service Training Program- Civic Welfare Training Service 1 | 3         | None           | ___ ASF 1101      | Arrupe Social Formation 1                                           | 2            | ASF 1000                   |
| ___ ASF 1000      | Arrupe Social Formation 0                                           | 2         | None           | ___ PE 1215       | PATH-FIT II                                                         | 2            | PE 1114                    |
| ___ ASF 1101      | Arrupe Social Formation 1                                           | 2         | None           |                   |                                                                     |              |                            |
| ___ PE 1114       | PATH-FIT I                                                          | 2         | None           |                   |                                                                     |              |                            |
|                   |                                                                     | <b>24</b> | <b>/27</b>     |                   |                                                                     | <b>21/26</b> |                            |

| FIRST SEMESTER |                                 |           |                             | SECOND SEMESTER |                                  |           |                                       |
|----------------|---------------------------------|-----------|-----------------------------|-----------------|----------------------------------|-----------|---------------------------------------|
| Course Number  | Course Title                    | Units     | Pre-requisites              | Course Number   | Course Title                     | Units     | Pre-requisites                        |
| ___ Chem 2065  | Chemical Biology III Lect       | 3         | Chem 1051, 1052, 1041, 1042 | ___ Bio 2240    | General Ecology Lec              | 3         | Bio 1130, 1131, 1132, 1133, Math 2176 |
| ___ Chem 2066  | Chemical Biology III Lab        | 2         | Chem 1051, 1052, 1041, 1042 | ___ Bio 2241    | General Ecology Lab              | 2         | Bio 1130, 1131, 1132, 1133, Math 2176 |
| ___ Bio 2138   | Evolutionary Biology Lec        | 3         | Bio 1130, 1131, 1132, 1133  | ___ Bio 2242    | Genetics Lec                     | 3         | Bio 1130, 1131, 1132, 1133            |
| ___ Bio 2139   | Evolutionary Biology Lab        | 2         | Bio 1130, 1131, 1132, 1133  | ___ Bio 2243    | Genetics Lab                     | 2         | Bio 1130, 1131, 1132, 1133            |
| ___ Math 2176  | Statistical Biology             | 3         | Math 1275                   | ___ Bio 2246    | Microbiology Lec                 | 3         | Bio 1130, 1131, 1132, 1133            |
| ___ GE 1109    | Ethics                          | 3         | None                        | ___ Bio 2247    | Microbiology Lab                 | 2         | Bio 1130, 1131, 1132, 1133            |
| ___ GE 1106    | Purposive Communication         | 3         | None                        | ___ GE 1211     | The Contemporary World           | 3         | None                                  |
| ___ GE 1108    | Mathematics in the Modern World | 3         | None                        | ___ GE 1107     | Art Appreciation                 | 3         | None                                  |
| ___ Engr 2165  | Technical Writing               | 3         | None                        | ___ GE 1212     | Science, Technology, and Society | 3         | None                                  |
| ___ PE 2116    | PATH-FIT III                    | 2         | PE 1114                     | ___ PE 2217     | PATH-FIT IV                      | 2         | PE 1114                               |
|                |                                 | <b>27</b> |                             |                 |                                  | <b>26</b> |                                       |

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|-----------------|--------------------------------|-----------|---------------------------------------------------------|-----------------|---------------------------|-----------|---------------------------------------------------------------------------------------------------------------------------------|
| Course Number   | Course Title                   | Units     | Pre-requisites                                          | Course Number   | Course Title              | Units     | Pre-requisites                                                                                                                  |
| ___ Bio 3144    | Cell and Molecular Biology Lec | 3         | Bio 1130, 1131, 1132, 1133, 2242, 2243, Chem 2065, 2066 | ___ Bio 3251    | Developmental Biology Lec | 3         | Bio 1130, 1131, 1132, 1133                                                                                                      |
| ___ Bio 3145    | Cell and Molecular Biology Lab | 2         | Bio 1130, 1131, 1132, 1133, 2242, 2243, Chem 2065, 2066 | ___ Bio 3252    | Developmental Biology Lab | 2         | Bio 1130, 1131, 1132, 1133                                                                                                      |
| ___ Bio Sc 3154 | Human Gross Anatomy Lec        | 3         | Bio 1132, 1133                                          | ___ Bio SC 3256 | Medical Physiology Lec    | 3         | Bio 3136, 3137                                                                                                                  |
| ___ Bio SC 3155 | Human Gross Anatomy Lab        | 2         | Bio 1132, 1133                                          | ___ Bio SC 3257 | Medical Physiology Lab    | 2         | Bio 3136, 3137                                                                                                                  |
| ___ Bio 3136    | General Physiology Lec         | 3         | Bio 1130, 1131, 1132, 1133, Chem 2065, 2066             | ___ Elec 3250   | Free Elective 2           | 3         | None                                                                                                                            |
| ___ Bio 3137    | General Physiology Lab         | 2         | Bio 1130, 1131, 1132, 1133, Chem 2065, 2066             | ___ GE 3219     | Elective 2                | 3         | None                                                                                                                            |
| ___ Elec 3150   | Free Elective 1                | 3         | None                                                    | ___ GE 1213     | Life and Works of Rizal   | 3         | None                                                                                                                            |
| ___ GE 3118     | Elective 1                     | 3         | None                                                    | ___ Bio SP 3253 | Special Problems 1        | 2         | Bio 1130, 1131, 1132, 1133, 1234, 1235, 3136, 3137, 2138, 2139, 2240, 2241, 2242, 2243, 3144, 3145, 2246, 2247, Chem 2065, 2066 |
|                 |                                | <b>21</b> |                                                         |                 |                           | <b>21</b> |                                                                                                                                 |

| Course Number | Course Title                 | Units | Pre-requisites  |
|---------------|------------------------------|-------|-----------------|
| ___ Prac 3370 | Bio Practicum (Epidemiology) | 3     | Bio 3256, 3257  |
|               |                              | 3     | 3rd year status |

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|-----------------|--------------------------|-----------|-------------------|-----------------|--------------------------------------------------------|-----------|-------------------------------------|
| Course Number   | Course Title             | Units     | Pre-requisites    | Course Number   | Course Title                                           | Units     | Pre-requisites                      |
| ___ Bio SC 4158 | Medical Parasitology Lec | 3         | Bio SC 3154, 3155 | ___ Bio SC 4264 | Bioethics                                              | 3         | GE 1109, Philo 1000, Bio 3256, 3257 |
| ___ Bio SC 4159 | Medical Parasitology Lab | 2         | Bio SC 3154, 3155 | ___ Bio SC 4266 | Medical Histology Lec                                  | 3         | Bio SC 3154, 3155, Bio 3251, 3252   |
| ___ Bio 4148    | Biophysics Lec           | 3         | None              | ___ Bio SC 4267 | Medical Histology Lab                                  | 2         | Bio SC 3154, 3155, Bio 3251, 3252   |
| ___ Bio 4149    | Biophysics Lab           | 2         | None              | ___ Bio SC 4268 | Specialization Course 6 (options given in the summary) | 3         | refer to list of spec. prereq       |
| ___ Bio SP 4161 | Special Problems 2       | 2         | Bio SP 3253       | ___ Bio SP 4262 | Special Problems 3                                     | 2         | Bio SP 4161                         |
| ___ GE 4120     | Elective 3               | 3         | None              | ___ ASF 4204    | Seniors' Integration Program                           | 2         | None                                |
|                 |                          | <b>15</b> |                   |                 |                                                        | <b>15</b> |                                     |

Features/ Changes and Justification

1. Comparative Anatomy as a specialization course was replaced with Human Gross Anatomy which is a more relevant course which will also better prepare the students for the other required specialization courses.
2. Biophysics lec and lab were moved to fourth year first semester to lighten the load of the students and allow them to focus more on the professional subjects.
3. Medical Physiology was moved to second semester of third year to allow continuity from an Introductory General Physiology course to a more specialized Medical Physiology course.
4. Medical Histology and Bioethics are the other suggested specialization courses aside from Medical Parasitology, Human Gross Anatomy and Medical Physiology