## California State Polytechnic University, Pomona

Degree Curriculum Sheet

| Plan (Major) Biology |
| :--- |
| Subplan/Option <br> Microbiology <br> Required Core Courses |
| Course |
| Foundations of Biology |
| Foundations of Biology |


| Required Subplan/Option Courses |  |  |
| :--- | ---: | :---: |
| Course |  | Units |
| Cell and Molecular Biology | BIO 310 | 4 |
| Basic Microbiology | MIC 201/201L | $3 / 2$ |
| Microbial Physiology | MIC 428/428L | $3 / 2$ |
|  | Total Units | $\mathbf{1 4}$ |


| Elective Subplan/Option Courses |  |  |
| :--- | :--- | :--- |
| Course |  | Units |
| Select 4 out of 6 courses listed below |  |  |
| Applied Microbiology | MIC 310/310L | $(3 / 2)$ |
| Food Microbiology | MC 320/320L | $(3 / 1)$ |
| Medical Bacteriology | MIC 410/410L | $(3 / 2)$ |
| Immunology-Serology | MIC 415/415L | $(3 / 2)$ |
| Medical Mycology | MIC 425/425L | $(3 / 2)$ |
| General Virology | MIC 430/430L | $(3 / 2)$ |
|  |  |  |
|  |  |  |
|  | Total Units | $\mathbf{1 9 - 2 0}$ |

Catalog Year 2010-2011
Name
me_ Minimum Units Required $\quad 180$ Student ID

Evaluator
GWT Satisfied Yes No -


No more than 105 community college quarter units or 36 extension credit quarter units may be applied toward a Bachelor's degree.
A minimum 2.0 cumulative GPA is required in core (including option) courses, Cal Poly Pomona courses, and overall work completed in order to receive a degree in this major.

## APPROVED ELECTIVES FOR MICROBIOLOGY OPTION

| Applied Microbiology | MIC 310/310L | 3/2 |
| :---: | :---: | :---: |
| Food Microbiology | MIC 320/320L | 3/1 |
| General Epidemiology | MIC 330 | 4 |
| Medical Bacteriology* | MIC 410/410L | 3/2 |
| Immunology-Serology* | MIC 415/415L | 3/2 |
| Medical Mycology** | MIC 425/425L | 3/2 |
| General Virology** | MIC 430/430L | 3/2 |
| Hematology* | MIC 444/444L | 3/1 |
| Immunohematology** | MIC 445/445L | 3/1 |
| Plant-Microbe Interactions | MIC 436/436L | 3/1 |
| Microbial Ecology | MIC 435/435L | 3/1 |
| Water Pollution Biology | BIO 420 | 3 |
| Advanced Genetics | BIO 421 | 3 |
| Cellular Physiology | BIO 428/428L | 3/2 |
| Internship in Biology | BIO 441 | 4 |
| Concepts of Mol Biology | BIO 450 | 4 |
| Molecular Biology Techniques | BIO 451/451L | 3/2 |
| Molecular Biology of Recombinant DNA | BIO 455/455L | 2/2 |
| Bioinformatics | BIO 459/459L | 3/2 |
| Stem Cell Biology | BIO 465 | 3 |
| BIO 200 or 400 or 461 or 462 | Only 2 units | 2 |
| General Plant Pathology | BOT 323/323L | 2/2 |
| Mycology | BOT 425/425L | 2/2 |
| Anatomy** | ZOO 234/234L | 2/2 |
| Human Physiology** | ZOO 235/235L | 3/1 |
| Histology | ZOO 422/422L | 2/3 |
| Medical Parasitology** | ZOO 425/425L | 3/2 |
| Quantitative Analysis*\# | CHM 221/221L | 2/2 |
| Fundamentals of Physical Chemistry ${ }^{\text {\# }}$ | CHM 301/301A | 3/1 |
| Elements of Physical Chemistry ${ }^{\text {\# }}$ | CHM 304/304A | 3/1 |
| Physical Chemistry* | CHM 311 | 3 |
| Organic Chemistry Lab* | CHM 318L | 1 |
| Organic chemistry Lab\# | CHM 319L | 1 |
| Clinical Chemistry** | CHM 331/331L | $2 / 2$ |
| Food Safety and Current Issues | FST 325 | 4 |
| Principles of HACCP | FST 423 | 4 |

* Required course for the admission to CLS programs
** Recommended course for the admission to CLS programs
\# Required course for chemistry minor (CHM301/A or CHM304/A or CHM 311)
Note: Courses not listed may be acceptable following consultation with advisor.

