## California State Polytechnic University, Pomona

Degree Curriculum Sheet

|  |  |  |
| :---: | :---: | :---: |
| Subplan/Option Microbiology |  |  |
| Required Core Courses |  |  |
| Course |  | Units |
| Foundations of Biology | BIO 122/122L | 3/2 |
| Foundations of Biology | BIO 123/123L | 3/2 |
| Biometrics | BIO 211/211L | 3/1 |
| Genetics | BIO 303 | 4 |
| Scientific Communication | BIO 490 | 1 |
|  | Total Units | 19 |


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


| Elective Subplan/Option Core Courses |  |  |
| :---: | :---: | :---: |
| Course |  | Units |
| Select 4 out of 6 courses listed below |  |  |
| Applied Microbiology | MIC 310/310L | (3/2) |
| Food Microbiology | MIC 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 | 19-20 |

Evaluato
GWT Satisfied Yes No

Catalog Year 2011-2012
Name
ame Minimum Units Required _180_Student ID


| American Cultural Perspectives Requirement Refer to catalog for list of courses that satisfy this requirements. Course may also satisfy major, minor, GE , or unrestricted elective requirements. | 4 |
| :---: | :---: |
| The following required support courses should be taken to satisfy the indicated GE Requirements to achieve the minimum units to degree listed at the top of this sheet. |  |
| Course | GE Area |
| Freshman English I ENG 104 | A2 |
| Freshman English II ENG 105 | A3 |
| General Chemistry CHM 121/121L | B1, B3 |
| Foundations of Biology $\quad$ BIO 121/121L | B2, B3 |
| Calculus for Life Sciences MAT 120 | B4 |
| Health, Nutrition \& Integrated Being FN 203 | E |
| or General Psychology PSY 201 | (E) |
| or Mind, Brain \& Behavior: Integrated View PSY 210 | (E) |
| or Sci. and Mathematics: Freshmen Exp. 1 and Exp. 2SCI 101/101A \& SCI 102/102A | (E) |
| The remaining GE requirements may be satisfied by any course approved for that area. |  |

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 |
| Microbial Ecology | MIC 435/435L | 3/1 |
| Plant-Microbe Interactions | MIC 436/436L | 3/1 |
| Hematology* | MIC 444/444L | 3/1 |
| Immunohematology** | MIC 445/445L | 3/1 |
| Special Study for Lower Division Students | BIO 200 | 2 |
| or Special Study for Lower Division Studen | BIO 400 | (2) |
| Water Pollution Biology | BIO 420 | 3 |
| Advanced Genetics | BIO 421 | 3 |
| Cellular Physiology | BIO 428/428L | 4/1 |
| Internship in Biology | BIO 441 | 4 |
| or Undergraduate Research | BIO 461 | (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 |
| Undergraduate Research | BIO 462 | 2 |
| Stem Cell Biology | BIO 465 | 3 |
| 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\# | CHM 304/304A | 3/1 |
| Physical Chemistry ${ }^{\text {\# }}$ | 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 423/423L | 3/1 |

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[^0]:    * 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

