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| **NEVADA STATE COLLEGE  SCHOOL OF LIBERAL ARTS & SCIENCES**  **BACHELOR OF SCIENCE IN BIOLOGY**  **(Roseman Fast Track PharmD Concentration)** | | | | | | | | |
| **Fall I Semester (17-18 credits)** | | | | | | |
|  | | | English 101: Composition I | 3 | |
|  | | | MATH 181: Calculus I | 4 | |
|  | | | BIOL 190 (190A/190L): Introduction to Cell and Molecular Biology | 4 | |
|  | | | First Year Core | 2-3 | |
|  | | | CHEM 121 (121A/121L): General Chemistry I | 4 | |
| **Spring I Semester (17 credits)** | | | | | | |
|  | | | BIOL 191 (191A/191L): Introduction to Organismal Biology | 4 | |
|  | | | ENG 102: Composition II | 3 | |
|  | | | Humanities | 3 | |
|  | | | Social Science Core | 3 | |
|  | | CHEM 122 (122A/122L): General Chemistry II | | 4 | |
| **Fall II Semester (14 credits)** | | | | | | |
|  | | | BIOL 209: Cell Processes | 3 | |
|  | | | BIOL 220: Intro to Ecological principles | 3 | |
|  | | | CHEM 241 (241/241L) : Organic Chemistry I | 4 | |
|  | | | BIOL 351: Microbiology | 4 | |
| **Spring II Semester (15 credits)** | | | | | | |
|  | | | BIOL 300: Genetics | 4 | |
|  | | | PHYS 151: General Physics I | 4 | |
|  | | | CHEM 242 (242/242L): Organic Chemistry II | 4 | |
|  | | | Constitution Core | 3 | |
| **Fall III Semester (17 credits)** | | | | | | |
|  | | | Fine Arts Core | 3 | |
|  | | | PHYS 152 (152A/152L): General Physics II | 4 | |
|  | | | CHEM 474: Biochemistry I | 3 | |
|  | | | BIOL 428: Medical Gross Anatomy | 4 | |
|  | | | STAT 391: Applied Stats for Biological Sciences | 3 | |
| **Spring III Semester (16 credits)** | | | | | | |
|  | | | COM 101: Oral communication | 3 | |
|  | | | Cultural diversity core | 3 | |
|  | | | BIOL 415: Evolution | 3 | |
|  | | | BIOL 440: Mammalian Physiology | 3 | |
|  | | | BIOL 448: Mammalian Physiology | 1 | |
|  | | | **BELOW IS COMPLETED AT ROSEMAN** |  | |
|  | | | CBL 400 | 3 | |
| **Fall IV Semester (15 credits)** | | | | | | | | |
|  | | **BELOW ARE COMPLETED AT ROSEMAN** | | | |  | | |
|  | | | PHAR 410 | 4.5 | |
|  | | | PHAR 411 | 3 | |
|  | | | PHAR 412 | 7.5 | |
| **Fall IV Semester (22 credits)** | | | | | | |
|  | | **BELOW ARE COMPLETED AT ROSEMAN** | | | |  | | |
|  | | | PHAR 413 | 5 | |
|  | | | PHAR 414 | 2 | |
|  | | | PHAR 420 | 6 | |
|  | | | PHAR 421 | 2.5 | |
|  | | | PHAR 422 | 1.5 | |
|  | | | PHAR 423 | 1.5 | |
|  | | | PHAR 424 | 3.5 | |

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| **Roseman Coursework** |
| **PHAR 410 Fund. Of Drug Action and Metabolism** |
| **PHAR 411 Fundamentals of Molecular Biology and Pharmacogenomics** |
| **PHAR 412 Metabolism of Carbohydrates, Lipids and Amino Acids** |
| **PHAR 413 Hematology and immunology** |
| **PHAR 414 Drug Information and Literature Evaluation I** |
| **PHAR 420 Neuropharmacology and Medicinal Chemistry** |
| **PHAR 421 Cardiovascular, Renal, and Pulmonary Systems: Pharmacology and Medicinal Chemistry** |
| **PHAR 422 Gastrointestinal, Genitourinary and Skeletal Muscle: Pharmacology and Medicinal Chemistry** |
| **PHAR 423 Endocrine Systames: Pharmacology and Medicinal Chemistry** |
| **PHAR 424 Antimicrobial Pharmacology and Fundamentals of Toxicology** |