## Proposed Four-Year Plan

## BA, Biological Sciences, Pre-Optometry Track

Below is a sample program for an entering freshman who wishes to complete a biology degree in 4 years and who want to go to Optometry School. Keep in mind that most majors extend their stay at San Jose State University to more than 4 years because they work or have other obligations that necessitate that they proceed more slowly through their coursework. This program presumes that the student has passed the English Placement Test and Entry Level Math Test, and has gotten a C or better in high school chemistry. Note that Biology Majors fulfill the General Education Requirements for Areas B1, B2, B3, and B4 by courses in the major. Biology majors should not take GE courses in Area B.

| Fall 2014 |  | Spring 2015 |  |
| :---: | :---: | :---: | :---: |
| Course | Units | Course | Units |
| Chemistry 1A* | 5 | Chemistry 1B* | 5 |
| Biology 1A* | 5 | Biol 30/1B* | 5 |
| English 1A (GE Area A2) | 3 | English 1B (GE Area C3) | 3 |
| PE | 1 | PE | 1 |
| BIOL6 | 1 | Total Units | 14 |
| Total Units | 15 |  |  |
| Fall 2015 |  | Spring 2016 |  |
| Course | Units | Course | Units |
| Chemistry 112A* | 3 | GE Area A1 (Oral Communication) | 3 |
| GE Area A3 (Critical Thinking) | 3 | Psyc001 (GE Area D1)* | 3 |
| GE Area E | 3 | Chem 112B* | 3 |
| GE Area C2 (Letters) | 3 | Chem 113A* | 2 |
| Physics 2A* | 4 | Physics 2B* | 4 |
| Total Units | 16 | Total Units | 15 |
| Fall 2016 |  | Spring 2017 |  |
| Course | Units | Course | Units |
| History 15A (GE Area D2-D3. F1-3) | 3 | History 15B (GE Area D3-D3. F1-3) | 3 |
| BIOL115 (Area R) | 4 | GE Area C1 (Arts) | 3 |
| Microbiology 101** | 4 | Math30** | 3 |
| Chemistry 135** | 4 | BIOL 160 (GE Area R) | 4 |
| Total Units | 15 | Biology 155** | 3 |
|  |  | Total Units | 16 |
| Fall 2017 |  | Spring 2018 |  |
| Course | Units | Course | Units |
| GE Area S (Self and Society) | 3 | GE Area V (Global Understanding) | 3 |
| Biology 100W (GE Area Z) | 3 | BIOL Elective | 3 |
| BIOL107 | 3 | BIOL Elective | 3 |
| Biology 124** | 3 | Biol 165 | 4 |
| Biology 125** | 2 | Biol 181*** | 2 |
| Total Units | 14 | Total Units | 15 |

*Classes Required for Optometry Schools.
**Required for Optometry and count as Biology classes. Math31 is only required for Berkeley. MATH31 counts as an elective.
*** 40 contact hours with an Optometrist and approval by Pre-Optometry Advisor. Or another elective course.

