

OPTICAL SCIENCE ENGINEERING CURRICULUM

| Lower Division Required Courses | Units |
|---|--------------|
| Applied Science Engineering 1 | 4 |
| Mathematics 21A-21B-21C-21D | 16 |
| Mathematics 22A-22B | 6 |
| Physics 9A-9B-9C-9D or 9HA-9HB-9HC-9HD | 19 |
| Chemistry 2A or 2AH | 5 |
| Civil Engineering 19 or Computer Science Engineering 30 | 4 |
| Engineering 17 | 4 |
| Engineering 45 | 4 |
| University Writing Program 1 or English 3 or Comparative Literature 1, 2, 3, or 4 or Native American Studies 5 | 4 |
| Communication 1 or 3 | 4 |
| General Education electives | 16 |
| Total Lower Division Units | 86 |

| Upper Division Required Courses | Units |
|---|--------------|
| Applied Science Engineering 108A, 108B, 115, 161, 165, 166, and 167 | 28 |
| Electrical and Computer Engineering 130A, 130B, and 135 | 11 |
| Physics 104A | 4 |
| Physics 112 or Chemistry 110C | 4 |
| Chemistry 110A | 4 |
| Engineering 190 | 3 |
| Optics electives | 20 |
| 20 units from the following: Applied Science Engineering 116, 169, 170, 172; Biological Sciences 102; Chemistry 110B; Electrical and Computer Engineering 100, 106, 133, 136, 140A, 140B, 150A, 150B | |
| Technical electives | 12 |
| General Education electives | 8 |
| Minimum Upper Division Units | 94 |
| Minimum Units Required for Major | 180 |

Optics electives and technical electives should be chosen in consultation with a staff or faculty adviser.