

Specialized Occupations

Laser & Optics Studies

STANTON CAMPUS

Spring 2022

The Laser & Optics Studies diploma program is designed to offer students of any degree program the opportunity to study lasers and optics beyond the Physics II level. Lasers are pervasive in many fields of technology. The theoretical as well as hands-on experience students receive will serve as a solid foundation in the basics necessary to keep up with the advances in laser and optics technology. Further information can be obtained by contacting the Chairperson of the Mathematics/Physics Department.

PROGRAM SPECIFIC ADVISEMENT STATEMENT

Courses - Semester 1

| | Credits | Lecture | Lab |
|--|---------|---------|-----|
| SSC 100 - First Year Seminar | 1 | 1 | 0 |
| ENG 101 - Composition I | 3 | 3 | 0 |
| (MAT 180 - College Algebra OR MAT 281 - Calculus I) | 4 | 4 | 1 |
| PSY 121 - General Psychology | 4 | 4 | 1 |
| | 3 | 3 | 0 |

Courses - Semester 2

| | Credits | Lecture | Lab |
|---|---------|---------|-----|
| (MAT 190 - Precalculus OR MAT 282 - Calculus II) | 4 | 4 | 1 |
| PHY 205 - General Physics I OR PHY 281 - Physics I with Calculus) | 4 | 4 | 1 |
| | 4 | 3 | 3 |
| | 4 | 3 | 3 |

Courses - Semester 3

| | Credits | Lecture | Lab |
|---|---------|---------|-----|
| LAS 271 - Intro to Lasers | 4 | 3 | 2 |
| (PHY 206 - General Physics II OR PHY 282 - Physics II with Calculus) | 4 | 3 | 3 |
| | 4 | 3 | 3 |

Courses - Semester 4

| | Credits | Lecture | Lab |
|---|---------|---------|-----|
| LAS 272 - Geometrical Optics & Lasers | 4 | 3 | 2 |
| LAS 273 - Wave Optics & Lasers | 4 | 3 | 2 |

*To complete program requirements, you must pass the above courses and earn at least **35 credits**. The number of courses and credits required for graduation may be more depending on your need for developmental education courses and the elective choices you make (if electives are a part of the program). Some programs also have college-level courses that you must take if you do not score at a certain level on the College Placement Test. If this applies to your program, the courses are listed at the top of the sequence sheet before the first semester of the course list.*