

F. LAB COURSES

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A student enrolled in a non-laboratory course is *not* required to also enroll in the laboratory course with the same number.

The courses that satisfy lab requirements for Ph.D. and M.S. students are:

- OPTI 502L: Fundamentals of Applied Optics Laboratory
 - Prior or concurrent enrollment in OPTI 502 is not required
- OPTI 505L: Fundamentals of Physical Optics Laboratory
 - Prior or concurrent enrollment in OPTI 505R is strongly recommended
- OPTI 511L: Lasers and Solid-State Devices Laboratory
 - Prior or concurrent enrollment in OPTI 511R (3-unit version) or OPTI 541A is required
- OPTI 512L: Mathematical Optics Laboratory
 - Prior or concurrent enrollment in OPTI 512R or OPTI 604, or instructor agreement, is required.
- OPTI 513L: Optical Testing Laboratory
 - Prior or concurrent enrollment in OPTI 513R is required
- OPTI 524A: Optical Systems Engineering (4 credits)
- OPTI 569L: System Programming for Engineers (2 credits)
- OPTI 571L: Optical Physics Computational Laboratory
 - A prior course in Quantum Mechanics is required
- OPTI 586L: Polarization in Optical Design Laboratory
 - Prior or concurrent enrollment in OPTI 586 is required
- OPTI 587L: Photonic Communications Laboratory
- OPTI 597A: Optical Shop Practices (3 credits)
 - Prior completion of OPTI 502 is required

Lab courses that are not currently offered:

- OPTI 515L: Optical Specifications, Fabrication and Testing Laboratory
- OPTI 521L: Introductory Optomechanical Engineering Laboratory
- OPTI 600E: Diffractive Optical Elements: Fabrication and Testing

Of the two lab courses required of Ph.D. students, one of the lab courses must involve hands-on laboratory work. Because of this, a Ph.D. student may include only one of OPTI 512L, OPTI 571L, or OPTI 586L on their Plan of Study.

The lab courses available to students in the Arizona Online/Distance Learning program are:

- OPTI 512L: Mathematical Optics Laboratory
- OPTI 569L: System Programming for Engineers (2 credits)
- OPTI 586L: Polarization in Optical Design Laboratory

