

Designing with Off the Shelf Optics Syllabus

This workshop will provide an introduction to designing with off the shelf optical components and subassemblies. Off the shelf optics can be a quick and in expensive solution for prototyping and an easy and economical option for volume as well. However designing around off the shelf options offers many challenges that this course will help you to face.

Topics to cover:

- Advantages and Disadvantages of Off the shelf optics
- How to use components such as PCX's and achromats
- How to use sub-assemblies such as machine vision lenses, objectives, and eyepieces
- How to correct for field aberrations and chromatic aberration
- Design examples
- Customizing stock components and assemblies
- How to fit off the shelf elements into an existing design

Two homework problems will be given and students are expected to provide reports on their solutions. Prior experience with Zemax is not needed, and a brief tutorial will be provided to give students the necessary skills to do the homework.

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