Physics
UNIVERSITY OF COLORADO **BOULDER**

Applied Physics Application:
Imaging Sciences

Student name:_____ Year of Grad Program Entry:_____

Date:_____

Please indicate all of your planned courses for this track:

1) Comps 1 Required Courses (9 credits):
At least three from this list:
- ☐ PHYS 5250 - Quantum Mechanics 1
- ☐ PHYS 5260 - Quantum Mechanics 2
- ☐ PHYS 7310 - Electromagnetic Theory 1
- ☐ PHYS 7320 - Electromagnetic Theory 2

2) Other Required Courses (6 credits):
- ☐ ECEN 5126 - Computational Optical Imaging (Not offered every year.)
- ☐ ECEN 5696 - Fourier Optics

3) Elective courses to bring total to 30 credits: *Note 18/30 of your credit hours must be in PHYS courses and at least 6/30 must be outside of PHYS. 3 credit hours can be outside of this list.*
- ☐ Any courses in the above lists List here:_____

- ☐ APPM 5600 - Numerical Analysis 1
- ☐ APPM 5610 - Numerical Analysis 2
- ☐ CSCI 5254 - Convex Optimization and its Applications
- ☐ CSCI 5922 - Neural Networks and Deep Learning
- ☐ ECEN 5156 - Physical Optics
- ☐ ECEN 5532 - Digital Signal Processing Lab
- ☐ ECEN 5616 - Optoelectronic System Design
- ☐ ECEN 5632 - Intro to Digital Filters
- ☐ ECEN 5672 - Digital Image Processing
- ☐ ECEN 6006 - Numerical Methods in Photonics
- ☐ PHYS 5070 - Computational Physics
- ☐ PHYS 5160 - Fundamentals of Optics and Lasers
- ☐ PHYS 5210 - Theoretical Mechanics
- ☐ PHYS 5606 - Optics Laboratory (same as ECEN 5606)
- ☐ PHYS 7230 - Statistical Mechanics
- ☐ PHYS 7440 - Theory of the Solid State 1
- ☐ PHYS 7650 - Nonlinear and Nano Optics
- ☐ PHYS 7660 - Ultrafast Optics
- ☐ PHYS 7810 - Special Topics in Physics: EUV Science

- ☐ 3 credit hours can be outside of this list. List here:_____

Any changes to the above requirements are to be approved by the Track Coordinator and Physics Assoc. Chair for Graduate Studies on the next page.

Are there any exceptions to track requirements? ☐ Yes ☐ No

Exceptions to the track requirements:

Signatures are **only** required if exceptions are listed above.

Track Coordinator Name: _____

Signature_____ Date: _____

Grad Chair Name: _____

Signature_____ Date: _____

Please submit the completed form to the **Graduate Program Assistant**.