

# New Course for Autumn 2006 / 2008

## ECE 694H: Integrated Optics

### Course Description

- Fundamentals of planar lightwave circuits and guided wave devices

### Prerequisites

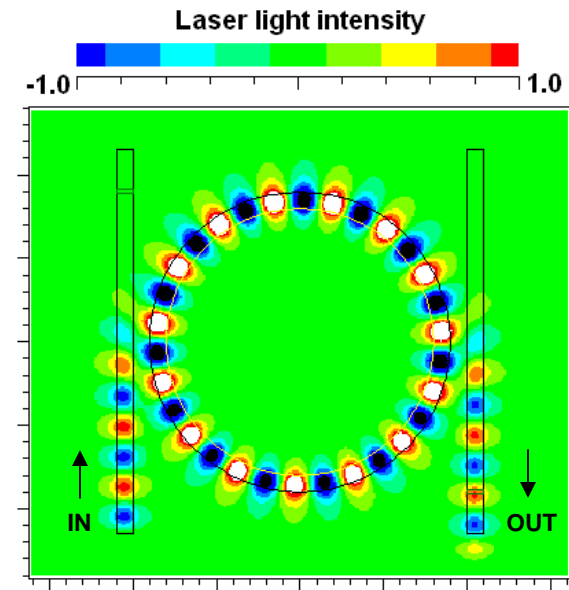
- ECE 312; or grad standing

### Topics (3 credit hours)

- Coupled mode theory of planar optical waveguides
- Electromagnetic waves in anisotropic media
- Electro-optic and nonlinear optical effects
- Design/synthesis of modulators, filters, couplers, resonators, switches, & multiplexers
- Periodic structures, surface plasmons, and microelectromechanical systems (MEMS)
- Emerging concepts in RF photonics and nanobiotechnology

### Instructor

- Professor Reano
- Lecture: MWF Autumn 2008
- Room: TBD



A planar lightwave filter

## Make circuits with light!

