

# PHOTONICS

PHYC 302 001

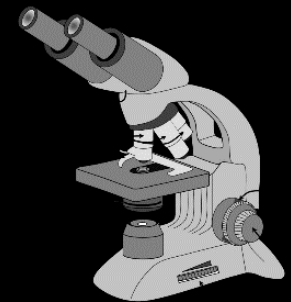
Fall 2021



From the detection of gravitational waves to superfast data transmission using optical fibers to the latest flat panel TV displays, **Photonics** has made breakthrough contributions to science and engineering. Give your career a jump start and take this class.

## We will discuss:

- light as an electromagnetic wave,
- the laws of reflection, refraction and diffraction,
- basic optical components such as lenses, mirrors, prisms and fibers,
- the human eye,
- optical imaging and data transmission,
- interferometers, telescopes and microscopes,
- light sources such as lasers and light emitting diodes,
- nano-photonics and metamaterials.



[www.feasa.ie/fiberoptics.html](http://www.feasa.ie/fiberoptics.html)

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