

BE/PLS 479/579

Applied Instrumentation for Controlled Environment Agriculture

Instructor: Dr. Murat Kacira (mkacira@email.arizona.edu)

Spring 2019

Tu/Thrs 10am-11:15am CEAC Classroom



Hands-on learning with sensors/instrumentation to measure, record, and control environmental factors and climate in controlled environment systems.

- ▶ **Understand and learn** techniques & principles used to measure, monitor, and control various environmental variables affecting plant growth/development, and climate in controlled environments.
- ▶ **Recognize** advantages & complexities associated with environmental control, plant growth and development.
- ▶ **Gain experience** in designing/developing a simple controlled environment system.
- ▶ **Learn by doing** - hands-on laboratory sessions with simple and advanced sensors & data acquisition systems.
- ▶ **Interactive and fun atmosphere** while learning.

