

## At the Interface of **Engineering** and **Life Sciences**

**When** (tentative): M/W 15:00-16:15

**Where** (tentative): HELD 109

**Instructors:** Xiaoning Qian ([xqian@ece.tamu.edu](mailto:xqian@ece.tamu.edu))  
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**Credit:** 3

### Course Description:

This team-taught course aims to provide a broad overview of electrical and computer engineering principles that are being applied to various areas in life sciences and introduce recent trends in interfacing engineering and various life science disciplines to address emerging grand challenges.

**Topics:** Sensing, Signal Processing, Imaging, Devices, Systems Engineering and Their Applications in modern life sciences in healthcare, bio-energy, bio-security, and other potential biomedical fields

### Prerequisites:

Your sincere interest in applying engineering principles & techniques to help understand and intervene life systems to improve the quality-of-life.

(suitable for junior and senior students, but not limited to)

### Grading (tentative):

Homework 80% + Selective Course mini-Project (20%)

