The Wireless Engineering certificate program is intended to provide practicing engineers, product managers and other technical personnel with leading edge specialized knowledge in wireless systems and standards. It incorporates courses covering multi-carrier, multi-antenna, and multi-user wireless communications, RF and microwave engineering, wireless signal processing and coding as well as IoT (Internet of Things).

Equipped with this foundational knowledge, participants will be able to address current and emerging challenges in the wireless field, advance in their career and increase their productivity.

**REQUIRED COURSES**
- Fundamentals of Digital Communication for Wireless Systems
- RF System Design for Wireless Communications
- Introduction to OFDM/OFDMA and 4G/5G Systems

**ELECTIVE: (CHOOSE TWO)**
- Antenna Theory and Design
- Microwave Transmission Engineering
- DSP in Wireless Communications
- Fundamentals of 5G NR

**PROGRAM HIGHLIGHTS**
- Explore the latest wireless technologies including LTE, 5G and Wi-Fi
- Online format provides convenient and flexible course schedule
- Program can be completed in as little as 15 months
- Remain up-to-date in a constantly evolving wireless industry
- Prepare for new opportunities in the wireless engineering industry

**AT A GLANCE**
- **FORMAT** Online
- **ESTIMATED COST** $4,770*
- **DURATION** 15 Months

*Excludes textbooks and materials.

**LEARN MORE**
Richard J. Baran
Program Manager, Technology & Engineering
unexengr@ucsd.edu
(858) 534-9152

**APPLY TODAY**
extension.ucsd.edu/wireless