

Wireless Communications Onramp

Course outline

Simulate a Basic Digital Communications Link

Implement the essential components of a single-carrier digital communications system, including additive white Gaussian noise.

Pulse Shaping Filters

Incorporate transmit and receive filters into your simulation.

Multipath Channels

Model a multipath channel and evaluate the impact on link quality.

OFDM

Implement orthogonal frequency-division multiplexing (OFDM), a multicarrier modulation scheme.