

GRADUATE CERTIFICATE IN WIRELESS COMMUNICATIONS

Wireless telecommunication has experienced remarkable growth since the introduction of cellular telephones. With the licensing by the FCC of spectrum for Personal Communication Services (PCS) and other services such as wireless LANs, wireless Internet, and wireless Personal Area Networks the rate of growth is expected to increase even further. In order to give those with an electrical engineering background the specific knowledge needed to work in this expanding market, Polytechnic has structured a series of four graduate level courses that cover the knowledge needed to compete successfully in this industry. The program consists of one required course and three recommended elective courses. A GPA of 3.0 or higher is required in the four courses to receive the certificate. This certificate can be finished completely online.

Required Course:

Course No./Title	Credits
EL 6303 Probability Theory	3

Recommended Elective Courses (choose 3):

Course No./Title	Credits
EL 5013 Wireless Personal Communication Systems	3
EL 5023 Wireless Information Systems Lab I	3
EL 6013 Principles of Digital Communications: Modulation & Coding	3
EL 6023 Wireless Communications: Channel Modeling & Impairments Mitigation	3
EL 6033 Modern Wireless Communication Techniques and Systems	3
EL 6063 Information Theory	3
EL 6073 Error Control Coding	3
EL 6753 UHF Propagation for Wireless Systems	3
EL 7023 Space-Time Wireless Communications	3
EL 90x3 Selected Topics in Wireless Communication	3

Certificate Coordinator:

For further information regarding the Wireless Communications Certificate, contact Professor Frank Cassara at 631-755-4360 or cassara@rama.poly.edu