

Courses in Wireless Comm. Area

Group 0: Core Courses

- [EL5373](#) Internet Architecture and Protocols
- [EL5473](#) Introduction to VLSI System Design
- [EL5613](#) Introduction to Electric Power Systems
- [EL6113](#) Signals, Systems and Transforms
- [EL6253](#) Linear System
- [EL6303](#) Probability Theory
- [EL6413](#) Analog and High Frequency Amplifier Design
- [EL6713](#) Electromagnetic Theory and Applications

Group 1: Basic Wireless Courses

- [EL5013](#) Wireless Personal Communication Systems
- [EL5023](#) Wireless Information Systems Lab I
- [EL5033](#) Wireless Information Systems Lab II
- [EL6013](#) Principles of Digital Communications: Modulation and Coding
- [EL6023](#) Wireless Communications: Channel Modeling and Impairment Mitigation
- [EL6033](#) Modern Wireless Communication Techniques and Systems

Group 2: Advanced Wireless Courses

- [EL6063](#) Information Theory
- [EL6073](#) Error Control Coding
- [EL7023](#) Space-Time Wireless Communications
- [EL90X3](#) Select Topics in Wireless Communication
- EL 6333** [Detection and Estimation Theory](#)

Group 3: Telecommunication Courses

- EL 5363** [Principles of Communication Networks](#)
- EL 5373** [Internet Architecture and Protocols](#)
- EL 6373** [Local and Metropolitan Area Networks](#)
- EL 6383** [High-Speed Networks](#)
- EL 6393** [Advanced Network Security](#)

Group 4: Probability and Signal Processing Courses

- EL 6113** [Signals, Systems and Transforms](#)
- EL 6303** Probability Theory
- EL 6313** [Stochastic Processes](#)
- EL 7133** [Digital Signal Processing](#)

Suggested Study Plans

Option 1

Semester One

1. EL 6303 [Probability Theory](#) (core course 1)
2. One course from group 1
3. One course from group 1

Semester Two

1. One course from group 0 (Core course 2: example: **EL 6113**)
2. One course from group 1
3. One course from groups 1, 2, 3, or 4

Semester Three and/or Summer

1. One course from group 0 (Core course 3: example: **EL 5373**)
2. One course from group 1
3. One course from groups 1, 2
4. One course from groups 1, 2, 3, or 4

Option 2

Semester One

1. EL 6303 [Probability Theory](#) (core course 1)
2. One other course from group 0 (Core course 2: example: **EL 6113**)
3. One course from group 1

Semester Two

1. One course from group 0 (Core course 3: example: **EL 5373**)
2. One course from group 1
3. One course from groups 1, 2, 3, or 4

Semester Three and/or Summer

1. One course from group 1
2. One course from group 1
3. One course from groups 1, 2
4. One course from groups 1, 2, 3, or 4