USC Viterbi
School of Engineering
Ming Hsieh Department of Electrical and Computer Engineering

Area Courses
Communications

Fundamental Courses

EE 450 Introduction to Computer Networks
4 units

EE 503 Probability for Electical and Computer Engineers
4 units

EE 510 Linear Algebra for Engineering
4 units

EE 511 Simulation Methods for Stochastic Systems
1 unit
EE 503

Mathematical Foundations

EE 512 Stochastic Processes
3 units EE 503, (EE 510 or EE 518)

EE 562 Random Processes in Engineering
4 units EE 503, EE 510

Wireless Communications

EE 535 Mobile Communications
4 units EE 503
EE 510 EE 511

EE 635 Advanced Wireless Communications
3 units EE 535

Communication Theory and Coding

EE 564 Digital Communication and Coding Systems
4 units EE 503, EE 510

EE 565 Information Theory and Its Application to (Big) Data
4 units EE 503

EE 567 Communication Systems
3 units
EE 510 EE 503

EE 664 Advanced Topics in Communication Theory
3 units EE 564
EE 535, EE 565a, EE 565b EE 503, EE 510

Networking

EE 550 Design and Analysis of Computer Communication Networks
4 units EE 450, EE 503

EE 555 Broadband Network Architectures
3 units EE 450, EE 503

EE 558 Optical Fiber Communication Systems
3 units

EE 579 Wireless and Mobile Networks Design and Laboratory
3 units EE 550 or EE 555 or CSCI 551

EE 597 Wireless Networks
4 units EE 450, EE 503
EE 467

EE 650 Advanced Topics in Computer Networks
3 units EE 450, EE 503
EE 550 or CSCI 551

Legend

Grouping

EE 000 Course Title
Course Units Prerequisite Courses
Recommended Prep. Corequisite Courses

This chart shows course relationships
Please check the University Catalogue for specific course details including any recommended prepatory courses and Degree Requirements

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