

Communications Area MS Comprehensive Examination (Subject Exam)

Recommended SDSU Courses:

EE558: Digital Communications, EE641: RF Wireless Systems, EE650: Modern Communication Theory, EE652: Prin and Apps of Information Theory, EE653: Coding Theory, EE655: Modem Design

Topics:

EE558: Formatting and baseband modulation, baseband demodulation/detection, communication link analysis

EE641: Antenna parameters and noise, radio wave propagation, path-loss in terrestrial wireless channels and link budgets, channel characterization and classification, multiple access and cellular systems

EE650: Bandpass modulation and demodulation/detection, multiplexing and multiple-access

EE652: Calculation of entropy, differential entropy and mutual information for sources, Huffman coding, calculation of channel capacity

EE653: Linear block codes, cyclic codes

EE655: QAM, Equalization, phase locked loops, orthogonal frequency division multiplexing