Area Courses
Signal and Image Processing

**Fundamental Courses**
- EE 441 Applied Linear Algebra for Engineering
- CSCI 455x Introduction to Programming Systems Design
- EE 483 Introduction to Digital Signal Processing
- EE 503 Probability for Electrical and Computer Engineers

**Mathematical Foundations**
- EE 512 Stochastic Processes
- EE 562 Random Processes in Engineering

**Law and Intellectual Property**
- EE 682 Law and Intellectual Property for Engineers

**Data Analysis and Machine Learning**
- EE 500 Neural and Fuzzy Systems
- EE 517 Statistics for Engineers
- EE 518 Mathematics and Tools for Financial Engineering
- EE 559 Mathematical Pattern Recognition
- EE 563 Estimation Theory
- EE 660 Machine Learning from Signals: Foundations and Methods
- EE 669 Multimedia Data Compression

**Speech, Biomedical, Audio, and Other Applications**
- EE 519 Speech Recognition and Processing for Multimedia
- EE 522 Immersive Audio Signal Processing
- EE 523 Advanced Biomedical Imaging
- EE 586L Advanced DSP Design Laboratory
- EE 591 Magnetic Resonance Imaging and Reconstruction
- EE 619 Advanced Topics in Automatic Speech Recognition

**Legend**
- **Grouping**
  - EE 000 Course Title
  - EE 000 Prerequisite Courses
  - EE 000 Corequisite Courses
  - EE 000 Recommended Prep.

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