## Track 3: Biomedical Signal and Image Processing

### Semester I (Fall)
- **EE 441** Applied Linear Algebra for Engineering (3, FaSpSm) Prerequisite: MATH 445
- **EE 464** Probability Theory for Engineers (3, FaSpSm) Prerequisite: EE 301 and MATH 445
- **EE 483** Introduction to Digital Signal Processing (3, FaSp) Prerequisite: EE 301

### Semester II (Spring)
- **EE 592** Computational Methods for Biomedical Imaging (3, Sp) Prerequisite: EE 483, EE 562a
- **BME 525** Advanced Biomedical Imaging (4, Sp)

### Semester III (Fall)
- **EE 569** Introduction to Digital Image Processing (3, Fa) Recommended preparation: EE 401, EE 464
- **EE 591** Magnetic Resonance Imaging and Reconstruction (3, Fa) Prerequisite: EE 483, familiarity with MATLAB; Recommended preparation: EE 441, EE 464, BME 525

### One from Recommended Courses I
- **EE 562a** Random Processes in Engineering (3, FaSpSm) Prerequisite: EE 441, EE 464
- **BME 528** Medical Imaging Informatics (3, Sp) Prerequisite: BME 425 or BME 525, BME 527
- **BME 535** Ultrasonic Imaging (3, Sp)
- **PSYC 555** Introduction to Functional -Magnetic Resonance Imaging (4, FaSp)

### One from Recommended Courses II
- **EE 519** Speech Recognition and Processing for Multimedia (3, Fa) Prerequisite: EE 483
- **EE 562a** Random Processes in Engineering (3, FaSpSm) Prerequisite: EE 441, EE 464
- **EE 596** Wavelets (3, Fa) Prerequisite: EE 441, 483; Recommended preparation: EE 569, MATH 570a
- **PSYC 555** Introduction to Functional -Magnetic Resonance Imaging (4, FaSp)