# Track 2: Image and Video Signal Processing

## Semester I (Fall)

**Two from the following three basic courses**

- **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

- **EE 569** Introduction to Digital Image Processing (3, Fa) Recommended preparation: EE 401, EE 464

## Semester II (Spring)

- **EE 559** Mathematical Pattern Recognition (3, Sp) Prerequisite: EE 464; Corequisite: EE 441
- **EE 669** Multimedia Data Compression (3, Sp) Recommended preparation: EE 464

## Semester III (Fall)

- **EE 559/CSCI 574** Computer Vision (3, Fa) Prerequisite: CSCI 455x
- **EE 596** Wavelets (3, Fa) Prerequisite: EE 441, EE 483;

## One from Recommended Courses I

**Recommended Courses I**

- **EE 583** Adaptive Signal Processing (3, Sp) Prerequisite: EE 483, EE 562a
- **EE 586L** Advanced DSP Design Laboratory (4,Sp) Prerequisite: EE 583 or EE 569
- **EE 566** Optical Information Processing (3, Sp) Recommended preparation: EE 401.
- **EE 592** Computational Methods for Biomedical Imaging (3, Sp) Prerequisite: EE 483, EE 562a

## One from Recommended Courses II

**Recommended Courses II**

- **EE 562a** Random Processes in Engineering (3, FaSpSm) Prerequisite: EE 441, EE 464
- **EE 599** Special Topics in Signal Processing or Communication (2-4, max 9)
- **EE 591** Magnetic Resonance Imaging and Reconstruction (3, Fa) Prerequisite: EE 483, familiarity with MATLAB; Recommended preparation: EE 441, EE 464, BME 525
- **EE 691** Advanced Magnetic Resonance Imaging (3, Fa) Prerequisite: EE 441, EE 562a, EE 591