Track 5: Multimedia Communications/Networking

**Semester I (Fall)**
- **EE 464** Probability Theory for Engineers (3, FaSpSm)
  or
- **EE 465** Probabilistic Methods in Computer Systems Modeling (3, FaSp)
  (464 for students interested in SIPI and Comm; 465 for students interested in Network)
- **EE 441** Applied Linear Algebra for Engineering (3, FaSpSm)
- **EE 401** Transform Theory for Engineers (3, Fa)
  or
- **EE 483** Introduction to Digital Signal Processing (3, FaSp)

**Semester II (Spring)**
- **EE 450** Introduction to Computer Networks (3, FaSpSm)
- **EE 562a** Random Processes in Engineering (3, FaSpSm) *Prerequisite:* EE 441, EE 464
  or
- **EE549** Queueing Theory for Performance Modeling (3, Sp) *Prerequisite:* EE 464 or EE 465

**Semester III (Fall)**
- **EE 565a** Information Theory (3, Fa) *Prerequisites:* 464 or
  EE 567 Communication Systems (3, Fa) *Corequisite:* EE 464 or EE 465
- **EE 535** Mobile Communications (3, Fa) *Prerequisite:* EE 562a
- **EE555** Broadband Network Architectures (3, FaSp) *Prerequisite:* EE 450 and EE 465.
  or
- **EE550** Design and Analysis of Computer Communication Networks (3, Fa)
  *Prerequisite:* EE 450 and (EE 549 or EE 465)

**Recommended Courses I**
- **EE569** Introduction to Digital Image Processing (3, FaSp)
- **EE 586L** Advanced DSP Design Lab (4) *Prerequisite:* EE 583 or EE 569.
- **EE 599** Special Topics (2-4, max 9)

**Recommended Courses II**
- **EE519** Speech Recognition and Processing for Multimedia (3, Fa) *Prerequisites:* 483
- **EE596** Wavelets (3, Fa) *Prerequisites:* 483, 441

Approved alternatives include EE 587, CSCI 542, or 500-level courses from the BME MS program in Neural Engineering. Students can take these courses and the listed “or” alternatives whenever they are available.