

USC Ming Hsieh Department of Electrical and Computer Engineering  
**1st Semester Course Recommendations**

The following lists are recommended courses in the first semester by major/degree programs. The number in parentheses indicates the units per class.

**MSEE-General Degree Focus Areas Only**

Communications	EE 450 (4), EE 503 (4), EE 510 (4)
Computer Architecture	EE 450 (4), EE 457 (4), EE 477 (4), EE 451 (4)
Computer Networks	EE 450 (4), EE 457 (4), EE 503 (4)
Controls	EE 482 (3), EE 503 (4), EE 510 (4)
Data Science	EE 503 (4), EE 510 (4), EE 483 (4)
Electric Power Systems	EE 443 (4), EE 444 (4), SAE 515 (3)
Electromagnetics, Optics, Photonics	EE 470 (3), EE 471 (4), EE 506 (4), EE 529 (4)
Signal and Image Processing	EE 483 (4), EE 503 (4), EE 510 (4)
VLSI (Digital)	EE 457 (4), EE 477 (4)
VLSI (Mixed-Signal)	EE 479 (4), EE 504 (3), EE 508 (3), EE 537 (4)

**MSEE-Computer Architecture Degree**

EE 450 (4), EE 457 (4), EE 477 (4), EE 451 (4)

**MS-Computer Engineering (CENG) Degree**

EE 450 (4), EE 457 (4), EE 477 (4), EE 503 (4), EE 451 (4)

**MSEE-Computer Networks Degree**

EE 450 (4), EE 457 (4), EE 503 (4)

**MS in ECE-Machine Learning and Data Science Degree**

EE 483 (4), EE 503 (4), EE 510 (4)

**MSEE-Multimedia and Creative Technologies Degree**

EE 450 (4), EE 483 (4), EE 503 (4), EE 510 (4)

**MSEE-VLSI Design Degree**

EE 457 (4), EE 477 (4), EE 479 (4), EE 504 (3), EE 508 (3), EE 537 (4)

**MSEE-Wireless Health Technology Degree**

EE 450 (4), EE 503 (4), MEDS 530a (4)

**MSEE-Wireless Networks Degree**

EE 450 (4), EE 503 (4), EE 558 (3)

**MS-Financial Engineering (MS-FINE) Degree**

EE 503 (4), EE 518 (4), GSBA 548 (3)

**MS-Green Technologies Degree**

CE 469, (2), ENE 505 (4), CHE 510 (3), SAE 515 (3)

**MS-Electrical Engineering/Engineering Management (EEMG) Dual Degree**

Follow the MSEE-general degree and ISE degree requirements per catalogue policy.

Please contact your academic advisor for specific details.

**Notes:**

- Full-time enrollment for MS students at USC is a minimum of 8.0 units (2-3 courses).
- Placement Exams are available for the following courses: EE 450, EE 457, EE 477, EE 479. The DEN office will coordinate placement exams for DEN students.
- EE 590 and EE 598 are not allowed in your first semester.
- Students enrolled in the MSEE-Wireless Networks degree program must pass the EE 450 placement exam or register for EE 450. Please note that if you register for EE 450, this course will not count toward your degree.
- No CSCI courses in the 1<sup>st</sup> semester: As a first semester ECE graduate student, you would not be allowed to register in a CSCI course. No d-clearance would be granted to you. Only continuing ECE students (2nd semester or above) may request d-clearance from the CSCI Department.