DEN@Viterbi
ELECTRICAL ENGINEERING ORIENTATION

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EE Graduate Student Advisors
Phone: 213-740-4447
Location: EEB 102
Welcome to DEN@Viterbi and USC EE Graduate Student Advisors

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AGENDA

• Important Dates & Deadlines
• Degree Requirements
• Advisement: DEN D-clearance, Placement Exams
• EE Department Policies, Procedures, & Tips
• Department Contact Information
• DEN Contact Information
• Q & A
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<thead>
<tr>
<th>Date</th>
<th>Event Description</th>
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<tr>
<td>January 6</td>
<td>Last day to register and pay without late fee</td>
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<tr>
<td>January 9</td>
<td>Spring semester classes begin</td>
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<td>January 16</td>
<td>Martin Luther King Day, University Holiday</td>
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<tr>
<td>January 27</td>
<td>Last day to register and add classes; last day to drop a class and receive a refund</td>
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<td>February 20</td>
<td>Presidents Day, University Holiday</td>
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<td>February 24</td>
<td>Last day to drop a class without a mark of “W” on transcript</td>
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<td>March 12-19</td>
<td>Spring Break</td>
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<td>April 7</td>
<td>Last day to drop a class with a mark of “W”</td>
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<td>May 3-10</td>
<td>Final Exams</td>
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PROGRAM REVIEW

- Masters of Science in Electrical Engineering
- Masters of Science in Computer Networks
- Masters of Science in Multimedia and Creative Technologies
- Masters of Science in Electric Power
- Masters of Science in VLSI
- Masters of Science in Wireless Health Technologies
- Masters of Science in Computer Engineering
- Masters of Science in Financial Engineering
- Masters of Science in Wireless Networks
- Masters of Science in Electrical Engineering/Engineering Mgmt.
Masters of Science in Electrical Engineering

“Build your own degree” program. No required courses. Students must complete at least 15 units from one of our academically related areas: Computer Networks, Computer Architecture, Communications, Controls, Electric Power, Electromagnetics, Optics, Photonics, Mixed-Signal Integrated Circuits, Signal and Image Processing, and VLSI/CAD.

- **Minimum number of units to earn your degree:** 27 units.
- **Minimum GPA required for Graduation:** 3.0 GPA.
- **Minimum number of units at the 500 level or above:** 18 units.
- **Minimum number of units in electrical engineering:** 18 units.

Read more about our degree programs and our academically related areas (flowcharts) here: [https://minghsiehee.usc.edu/academics/ms/programs-details/](https://minghsiehee.usc.edu/academics/ms/programs-details/).
Masters of Science in EE Computer Networks

Fundamental Courses (3 Courses Required*)
- CSCI 402 - Operating Systems
- EE 450 - Introduction to Computer Networks
- EE 503 - Probability for Electrical and Computer Engineers
- EE 457 - Computer Systems Organization
*The fundamental courses may also be satisfied by passing EE placement exams.

Required Courses (3 of the following 4 courses)
- CSCI 551 - Computer Communications
- EE 550 - Design & Analysis of Computer Communication Networks
- EE 555 - Broadband Network Architectures
- EE 597 - Wireless Networks

Remaining units to be completed from list of approved electives. Read more here: http://catalogue.usc.edu/preview_degree_planner.php?catoid=6&poid=5616&return to=1461&print.
Masters of Science in EE Computer Networks cont.

- Minimum number of units to earn your degree: 27 units.
- Minimum GPA required for Graduation: 3.0 GPA.
- Minimum number of units at the 500 level or above: 18 units.
- Minimum number of units in Electrical Engineering: 15 units.
Masters of Science in EE Multimedia & Creative Technologies

Fundamental Courses (All 3 Required)
• EE 483 - Introduction to Digital Signal Processing
• EE 519 - Speech Recognition and Processing for Multimedia
• EE 569 - Introduction to Digital Image Processing

Remaining units to be completed from list of approved electives. Read more here: http://catalogue.usc.edu/preview_degree_planner.php?catoid=6&poid=5617&print.

• Minimum number of units to earn your degree: 27 units.
• Minimum GPA required for Graduation: 3.0 GPA.
• Minimum number of units at the 500 level or above: 18 units.
• Minimum number of units in Electrical Engineering: 18 units.
• No more than 4 units of electives can be taken outside of the Viterbi School.
Masters of Science in EE Electric Power

Fundamental Courses (All 4 Required)
• EE 443 - Introduction to Power Systems
• EE 444 - Power Systems Technology
• EE 521 - Power System Analysis and Design
• SAE 515 - Sustainable Infrastructure Systems

Remaining units to be completed from list of approved electives. Read more here: http://catalogue.usc.edu/preview_degree_planner.php?catoid=6&poid=5649&print.

• Minimum number of units to earn your degree: 27 units.
• Minimum GPA required for Graduation: 3.0 GPA.
• Minimum number of units at the 500 level or above: 18 units.
• Minimum number of units in Electrical Engineering: 18 units.
Masters of Science in EE VLSI

All courses are required with option of taking one of EE 536b or EE 577b (though both can be taken if desired*):

- EE 536a - Mixed-Signal Integrated Circuit Design
- EE 577a - VLSI System Design
- EE 536b - Mixed-Signal Integrated Circuit Design (or EE 577b)
- EE 577b - VLSI System Design (or EE 536b)
- EE 552 - Asynchronous VLSI Design

Remaining coursework to be completed from three areas of electives. Students must take 2 courses from one area and 1 course from a different area. Read more here: http://catalogue.usc.edu/preview_degree_planner.php?catoid=6&poid=5618&print

- Minimum number of units to earn your degree: 27 units.
- Minimum GPA required for Graduation: 3.0 GPA.
- Minimum number of units at the 500 level or above: 18 units.
- Minimum number of units in Electrical Engineering: 18 units.
Masters of Science in EE Wireless Health Technology

The Masters of Science in EE Wireless Health Technology cannot currently be completed through DEN. Unfortunately, a large portion of the required coursework is offered through the Keck School of Medicine. At this point, there is no plan to offer these courses online through DEN.

If you are interested in joining this program and will eventually be able to complete courses on campus, please contact us directly and we’ll advise you on how to proceed.
Masters of Science in Computer Engineering

Fundamental Courses
• CSCI 402 - Operating Systems
• EE 450 - Introduction to Computer Networks
• EE 503 - Probability for Electrical and Computer Engineers
• EE 457 - Computer Systems Organization
• EE 477 - MOS VLSI Circuit Design
*Fundamental courses may be waived by passing placement exams.

Core Courses (two courses are required)
• EE 550 - Design and Analysis of Computer Communication Networks (or EE 555)
• EE 555 - Broadband Network Architectures (or EE 550)
• EE 557 - Computer Systems Architecture
• EE 577a - VLSI System Design

Remaining units to be completed from list of approved electives. Read more here: http://catalogue.usc.edu/preview_program.php?catoid=6&poid=5595.
Masters of Science in Computer Engineering cont.

- Minimum number of units to earn your degree: 27 units.
- Minimum GPA required for Graduation: 3.0 GPA.
- Minimum number of units at the 500 level or above: 18 units.
- Minimum number of units in Electrical Engineering: 18 units.
Masters of Science in Financial Engineering

Required Courses (All Courses are required with either ISE 563 or FBE 559).
• GSBA 548 - Corporate Finance
• ISE 563 - Financial Engineering or FBE 559 - Management of Financial Risks
• EE 503 - Probability for Electrical and Computer Engineers
• EE 512 - Stochastic Processes
• EE 518 - Mathematics and Tools for Financial Engineers
• ENGR 596 - Internship In Engineering or EE 590 - Directed Research for 1 unit

The Remaining coursework must be completed from two areas of electives: Finance, Business, & Economics; and Optimization, Simulations & Stochastic Processes*. Students must take 2 courses from each area.
*In the Optimization area, students cannot take both EE 553 and ISE 520 for credit.
Read more here:
Masters of Science in Financial Engineering cont.

- Minimum number of units to earn your degree: **30 units**.
- Minimum GPA required for Graduation: 3.0 GPA.
- Minimum number of units at the 500 level or above: **18 units**.
Masters of Science in EE Wireless Networks

Entrance Requirement: Students must pass EE 450 - Introduction to Computer Networks or pass the EE 450 placement exam to complete the degree requirements.

Required Courses (3 Courses Required*)
• CSCI 402 - Operating Systems
• EE 503 - Probability for Electrical and Computer Engineers
• EE 511 - Simulation Methods for Stochastic Systems (Note: EE 511 is typically not offered through DEN)
• EE 535 - Mobile Communications
• EE 597 - Wireless Networks

Remaining units to be completed from list of approved electives. Read more here: http://catalogue.usc.edu/preview_degree_planner.php?catoid=6&poid=5620&print.
Masters of Science in EE Wireless Networks cont.

- Minimum number of units to earn your degree: 27 units.
- Minimum GPA required for Graduation: 3.0 GPA.
- Minimum number of units at the 500 level or above: 18 units.
- Minimum number of units in Electrical Engineering: 18 units.
Masters of Science in Electrical Engineering/Engineering Management

This dual degree program is designed for graduate electrical engineers whose career objectives lead to increasing technical management responsibilities.

- All applicants must meet EE and ISE admissions requirements.
- Minimum number of units to earn your degree: 48 units.
  - EE units: 24
  - ISE units: 18
  - Approved elective units: 6
- All courses counted toward dual degree must be taken at the 500-level, except those 400-level courses required by the MSEE degree.
- Minimum GPA required for Graduation: 3.0 GPA.
EE Dept. Policies, Procedures, Tips

• Refer to the USC Schedule of Classes for planning purposes [http://classes.usc.edu/](http://classes.usc.edu/).
• We waive 300-level or below pre-requisites and most non-EE pre-requisites for Grad Students upon request.
• Cross-listed courses may qualify for credit as EE courses (i.e. CSCI 455x is EE 455).
• If this is your first semester or if you’re working full-time, we strongly recommend only taking 1 course.
• Check your USC email regularly! Forward to another email account if necessary.
• Transfer Credit – possible to transfer up to 4 units.
• When sending an e-mail, please include your USC ID # in all messages.
HOW TO REQUEST D-CLEARANCE FROM DEN

All DEN courses require D-clearance.

1. Login to DEN Desire2Learn: [http://courses.uscden.net](http://courses.uscden.net)
2. Select DEN@Viterbi Tools
3. Select Request D-Clearance and submit required information based on course chosen
4. Approval process takes 1-3 business days. To check status of D-Clearance go to DEN@Viterbi Tools> Check D-Clearance Status
5. You can register once your request has been processed. D-clearances expire 7 days from when it is issued so register as soon as you obtain it to secure a seat in a course.

For questions on D-Clearance status, contact masters@gapp.usc.edu
1. Bookmark https://courses.uscden.net
2. Your D2L username is your full USC Email Address
3. If you do not remember your D2L password, click “Forgot your password?”

Sign up for an exclusive one-on-one training session inside a virtual classroom to learn all about Desire2Learn:
http://gapp.usc.edu/graduate-programs/den/technical-support/training-options
# DEN@Viterbi Contacts

Office of Graduate and Professional Programs (GAPP) – [www.gapp.usc.edu](http://www.gapp.usc.edu)

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<tr>
<th>DEN@Viterbi Support</th>
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<th>Staff</th>
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<tr>
<td><strong>Technical Support:</strong></td>
<td></td>
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</tr>
<tr>
<td>Desire2Learn Training</td>
<td><a href="mailto:dentsc@usc.edu">dentsc@usc.edu</a></td>
<td>Bianca Richter</td>
</tr>
<tr>
<td>Homework</td>
<td>213-740-9356</td>
<td>Rebecca Lee</td>
</tr>
<tr>
<td><strong>Exams</strong></td>
<td></td>
<td>Shirley Schutt</td>
</tr>
<tr>
<td><strong>GAPP Advisor:</strong></td>
<td></td>
<td>Patty Rinehart</td>
</tr>
<tr>
<td>Registration, D-Clearance,</td>
<td><a href="mailto:ptrinida@usc.edu">ptrinida@usc.edu</a></td>
<td></td>
</tr>
<tr>
<td>Policies and Procedures</td>
<td>213-740-0116</td>
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</tr>
<tr>
<td><strong>Tuition Deferment or Vouchers</strong></td>
<td><a href="mailto:susannas@usc.edu">susannas@usc.edu</a></td>
<td>Susanna Sahakian</td>
</tr>
<tr>
<td></td>
<td>213-740-8198</td>
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THANK YOU!

HAVE A GREAT SPRING SEMESTER!
FIGHT ON!

A recording of this online orientation and presentation will be available for viewing and download on the GAPP website at http://gapp.usc.edu/students/orientation#den.