BEFORE WE START...

• Please direct your attention to the short presentation.

• At the end of the presentation, you may ask questions via the Q&A window.

• The chat window is reserved for announcements. Please do not use the chat window for questions.
AGENDA

1. General Orientation Reminders
2. Student Support Services
3. Electrical and Computer Engineering
4. Reminders and Resources
5. Q & A
DEN General Orientation Reminders

• USC Welcome Packet pdf + DEN General Orientation Recording
  • [https://viterbigrad.usc.edu/ms-denviterbi-new-student-information/](https://viterbigrad.usc.edu/ms-denviterbi-new-student-information/)
  • Both are mandatory, please review if you have not already

• USC Mandatory Online Trainings
  • Found in myUSC > Safety & Wellness, completion is required. Hold placed if not completed.

• Remember to Create DEN@Viterbi Profile Before Registration
  • viterbi.usc.edu/denprofile

• Limited Status Students
  • USC NetID and email will be created within 2 weeks of the start of the term or within 3 days after enrollment of you register after start of term.
  • General advisement for limited status students: [den@vase.usc.edu](mailto:den@vase.usc.edu)

• After Registration, Technical Support and Training is available for DEN@Viterbi Students
  • [https://viterbigrad.usc.edu/technical-support/training-options/](https://viterbigrad.usc.edu/technical-support/training-options/)
  • Much is covered in DEN general orientation, please review that first
Student Support Services at Viterbi

Academic Department Advising

Academic advising on course registration and planning for future semesters.

VASE DEN Student Services

General advisement and policies and procedures.

DEN Technical Support Center

Technical support services for D2L, lecture posting, course notes support, and exams.

DEN Exams

Support and coordinate homework and exams on D2L.

*Part of the Technical support team
AGENDA

1 General Orientation Reminders
2 Student Support Services
3 Electrical and Computer Engineering
4 Reminders and Resources
5 Q & A
ECE – Student Services Team

Diane Demetras, Director
PhD Student Advisor
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Last names A-J
ptrinida@usc.edu

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zelada@usc.edu

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smgraves@usc.edu
“What services can my ECE advisor help me with?”
When can I register for Spring 2023 courses and what are the steps to register?

✓ Refer to Advisement and Registration Info email by ECE Dept.
✓ DEN students need to request d-clearance for DEN@Viterbi sections
✓ Deadline to register and settle account without late fee is 1/6/2023
<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jan 6</td>
<td>Last day to register and settle account without late fee</td>
</tr>
<tr>
<td>Jan 8</td>
<td>Spring semester classes begin</td>
</tr>
<tr>
<td>Jan 16</td>
<td>Martin Luther King Day, university holiday – no classes</td>
</tr>
<tr>
<td>Jan 27</td>
<td>Last day to register &amp; add classes</td>
</tr>
<tr>
<td>Jan 27</td>
<td>Last day to drop a class and receive a full tuition refund</td>
</tr>
<tr>
<td>Feb 20</td>
<td>Presidents' Day, university holiday – no classes</td>
</tr>
<tr>
<td>Feb 24</td>
<td>Last day to drop a class without a mark of “W” on transcript</td>
</tr>
<tr>
<td>Mar 12-19</td>
<td>Spring Recess</td>
</tr>
<tr>
<td>Apr 7</td>
<td>Last day to drop a class with a mark of “W”</td>
</tr>
<tr>
<td>Apr 28</td>
<td>Fall semester classes end</td>
</tr>
<tr>
<td>May 3-10</td>
<td>Final Examinations</td>
</tr>
</tbody>
</table>
ECE Programs Offered on DEN

- Master of Science in Electrical Engineering
- Master of Science in Computer Engineering
- Master of Science in Electrical Engineering (Computer Networks)
- Master of Science in Electrical Engineering/Engineering Mgmt.
- Master of Science in Electrical Engineering (Electric Power)
- Master of Science in Financial Engineering
- Master of Science in Green Technologies
- Master of Science in Electrical Engineering (VLSI Design)
Other MS programs in ECE Dept.

• Master of Science in Electrical Engineering (Computer Architecture)
• Master of Science in Applied Physics
• Master of Science in ECE (Analog Mixed-Signal and Radio Frequency)
• Master of Science in ECE (Machine Learning and Data Science)
• Master of Science in Electrical Engineering (Wireless Networks)
• Master of Science in Quantum Information Science

These programs cannot currently be completed through DEN. Unfortunately, a large portion of the required coursework are labs that are only offered on campus.

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.
“Build your own degree” program. **No required courses.** Students should complete at least 15-16 units from one of our academically related areas: Computer Networks, Computer Architecture, Communications, Controls, Data Science, Electric Power, Electromagnetics, Optics, Photonics, Mixed-Signal Integrated Circuits, Signal and Image Processing, and VLSI/CAD.

- **Minimum number of units to earn your degree:** 28 units.
- **Minimum GPA required for Graduation:** 3.0 GPA.
- **Minimum number of units at the 500 level or above:** 19 units.
- **Minimum number of units in electrical engineering:** 20 units.

Read more about our degree programs and our academically related areas (flowcharts) here: [https://minghsiehece.usc.edu/academics/ms/master-of-science-electrical-engineering-program-details/](https://minghsiehece.usc.edu/academics/ms/master-of-science-electrical-engineering-program-details/)
Master of Science in Computer Engineering

The MS in Computer Engineering degree is earned by completing an integrated program of at least 28 units of approved coursework emphasizing three key areas: Computer Architecture, Networks and VLSI/CAD. Students must take at least one course from two of the three areas. Here is a listing of the most commonly registered DEN courses in the Computer Engineering program.

- **Minimum number of units to earn your degree:** 28 units.
- **Minimum GPA required for Graduation:** 3.0 GPA.
- **Minimum number of units at the 500 level or above:** 19 units.
- **Minimum number of units in Electrical Engineering:** 20 units.

**Computer Architecture:**
- EE 457 - Computer Systems Organization
- EE 532 - Wireless Internet and Pervasive Computing
- EE 542 - Internet and Cloud Computing
- EE 557 - Computer Systems Architecture
Networks:
- EE 450 - Introduction to Computer Networks
- EE 550 - Design and Analysis of Computer Communication Networks
- EE 555 - Broadband Network Architectures
- EE 597 - Wireless Networks

VLSI/CAD:
- EE 477 - MOS VLSI Circuit Design
- EE 536a/b - Mixed-Signal Integrated Circuit Design
- EE 537 - Modern Solid-State Devices
- EE 577a/b - VLSI System Design
- EE 658 - Diagnosis and Design of Reliable Digital Systems

*Recommended first term courses - EE 450 (4), EE 457 (4), EE 477 (4), EE 503 (4), EE 451 (4)*

*Note: Approved Computer Science coursework can also be applied toward the Computer Engineering degree. Please speak to your respective advisor for more information.*
Master of Science in EE Computer Networks

- 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.

**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 course may also be satisfied by passing EE placement exams. No units, however will be earned for passing a placement exam
Master of Science in EE Computer Networks, continued

**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

**Recommended first term courses:** EE 450 (4), EE 457 (4), EE 503 (4)

Remaining units to be completed from list of approved electives. Read more here:

[https://minghsiehece.usc.edu/academics/ms/](https://minghsiehece.usc.edu/academics/ms/)
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.
- Recommended first term courses - Follow the MSEE-general degree and ISE degree requirements per catalogue policy. Please contact your academic advisor for specific details.
Master of Science in EE Electric Power

- **Minimum number of units to earn your degree:** 28 units.
- **Minimum GPA required for Graduation:** 3.0 GPA.

**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

**Recommended first term courses:** EE 443 (4), EE 526 (4)

Remaining units to be completed from list of approved electives. Read more here: [https://minghsiehece.usc.edu/academics/ms/](https://minghsiehece.usc.edu/academics/ms/)
Master of Science in Financial Engineering

• **Minimum number of units to earn your degree:** 33 units.
• **Minimum GPA required for Graduation:** 3.0 GPA.
• **Minimum number of units at the 500 level or above:** 22 units.

**Required Courses** *(All courses are required with the option of taking either ISE 563 or FBE 559).*

• GSBA 548 - Corporate Finance (Spring on DEN)
• 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
• EE 590 - Directed Research
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.

If you have questions about requirements, you can also email our faculty advisor - Prof. Petros Ioannou at msfine@usc.edu

Recommended first term courses EE 503 (4), EE 518 (4), GSBA 548 (3)

https://minghsiehece.usc.edu/academics/ms/
Students pursuing the MS in Green Technologies are required to take two courses in each of the three topical areas: **Green Systems and the Environment**, **Energy Technology and Efficiency**, and **Sustainability and Society**. Students are also required to select three approved elective courses.

- **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 the Viterbi School of Engineering**: 18 units.

**Green Systems and the Environment**:
- ISE 576 - Industrial Ecology: Technology-Environment Interaction (Spring)
- SAE 515 - Sustainable Infrastructure Systems (Fall)
Master of Science in Green Tech, continued

Energy Technology and Efficiency:
• CHE 510: Energy and Process Efficiency (Fall) or AME 577: Survey of Energy and Power for a Sustainable Future (Spring)
• EE 526: Renewable Energy in Power Systems (Spring) or ENE: 505 Energy and the Environment (Fall)

Sustainability and Society:
• CE 469: Sustainable Design and Construction (Fall)
• ENE 502: Environmental and Regulatory Compliance (Spring)

Electives within area of interest – will need to be approved by Prof Ed Maby (faculty advisor)

Recommended first term courses – ENE 505 (4), EE 526 (4), SAE 515 (4), ISE 576 (4)

Read more here:
https://minghsiehece.usc.edu/academics/ms/
Master of Science in EE VLSI

- 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.

All courses are required with the option of taking either EE 577b or EE 536b (though both can be taken if desired*):
- EE 577a - VLSI System Design
- EE 479 - Analog Integrated Circuit Design or EE 536a - Mixed-Signal Integrated Circuit Design
- EE 552 - Asynchronous VLSI Design
- EE 577b - VLSI System Design or EE 536b - Mixed-Signal Integrated Circuit Design*

Recommended first term courses-EE 457 (4), EE 477 (4)

- Remaining units to be completed from list of approved electives. Read more here:
- [https://minghsiehece.usc.edu/academics/ms/](https://minghsiehece.usc.edu/academics/ms/)
• 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 for graduate students upon request.
• Cross-listed courses may qualify for credit as EE courses (i.e. CSCI 455x is EE 455).
• Transfer Credit – possible to transfer up to 4 units.
• If this is your first semester and/or if you’re working full-time, we recommend only taking 1 course
• Check your USC email regularly! Forward to another email account if necessary.
• When sending an e-mail, please always include your USC ID # in all messages.
• Special Request Form- non-EE coursework to be reviewed for approval
D2L Login and Training

USC Viterbi School of Engineering – DEN@Viterbi

Log in to view your courses offered through DEN@Viterbi, explore tools and features, and customize your eLearning experience for programs and courses supported by DEN@Viterbi. Students must be registered and approved to view select courses.

First Time Logging in?
DEN@Viterbi Students: You must create a profile first before you can log in.
On-campus students: Profile is created automatically.
If you have problems logging on or seeing your courses, please contact DEN@Viterbi Technical Support Center office at dentsc@usc.edu or 213-740-9356.

Log In Options

- USC NetID: Active users with a @usc.edu address can use their USC NetID login option. If this does not work, you may still use your original D2L credentials described below

**USC NetID Login**

- D2L email account and password: Log on by D2L email account and password option below. Your D2L username is your FULL EMAIL ADDRESS.
DEN D-Clearance Request

1. Login to DEN Desire2Learn: [http://courses.uscden.net](http://courses.uscden.net)
2. Go to DEN@Viterbi Tools on the navigation bar
3. Select “Request D-clearance” link, select the term, and select a course

Important reminders:

- Approval process takes 1-2 business days. To view the status of a request, click on “Check D-Clearance Status”
- 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.

All DEN courses require D-clearance.

For questions on D-Clearance status, contact den@vase.usc.edu
Questions?

Please submit your questions in the Q&A box
Advising Contact Information

ECE Advising
- Email: assigned advisor or studentinfo@ee.usc.edu
  *Please include USC ID number in emails*
- Website: https://minghsiehece.usc.edu
- Fall 2022 Virtual Drop-In Advising –
  Tues. 2pm-4pm PST and Fri. 10am-12pm PST

VASE Advising
- Email: welcome@vase.usc.edu
- Website: https://viterbigrad.usc.edu/
- Virtual Walk-in Hours (Monday-Friday, PST):
  - 10:00 AM - 12:00 PM
  - 6:00 PM – 8:00 PM
**DEN CONTACT INFORMATION**

**Location:** Olin Hall of Engineering (OHE), Rm. 106  
**Hours:** Mon. - Fri. 8:30 am - 5 pm (Pacific Time)  
[https://viterbigrad.usc.edu/academic-services/denviterbi-student-services/](https://viterbigrad.usc.edu/academic-services/denviterbi-student-services/)

<table>
<thead>
<tr>
<th>DEN@Viterbi Support</th>
<th>Contact Information</th>
<th>Staff</th>
</tr>
</thead>
</table>
| Technical support, Desire2Learn training, Homework | dentsc@usc.edu  
213-740-9356 | Daniel Cueva |
| DEN d-clearance inquiries | den@vase.usc.edu | |
| Exams | denexam@usc.edu  
213-740-9356 | Shirley Schutt |
| VASE Advisor  
• General advisement  
• Policies & Procedures | den@vase.usc.edu  
213-740-4488 | Andrea Mora, Andy Chen, William Wences |
Please help us by submitting the survey after you leave the meeting.

THANK YOU!