Department of Astronautical Engineering

DEN@Viterbi Orientation

ASTE Student Advisor, Hayley Peltz
AGENDA

- Welcome to DEN@Viterbi & USC
- Department Contact Information
- Important Dates & Deadlines
- Degree Requirements
- ASTE Department Policies, Procedures, Tips
- DEN D-clearance
- Desire2Learn Login & Training
- DEN Contact Information
- Q&A
Welcome to DEN@Viterbi and USC

Hayley Peltz, ASTE Student Advisor

Contact Information
Email hpeltz@usc.edu
Phone (213) 821-4234

- Advise undergrad, master, and doctoral students
- Email and appointments, in person and phone, are best
- Advisement Appointment link: https://myviterbi.usc.edu/
myViterbi Advisement Appointment System
https://myviterbi.usc.edu/

- Academic Integrity Introduction
- Advisement Appointment System
- Application to Graduate
UNIVERSITY CALENDAR – Spring 2017

Jan. 6  Last day to register and settle without a late fee
Jan. 9  Spring semester classes begin
Jan. 16 Martin Luther King Day, University Holiday
Jan. 27 Last day to register and add classes
          Last day to drop a course and receive a refund
          Last day to enroll for a course for a grade of Pass/No Pass or Audit
          Last day to purchase or waive tuition refund insurance
Jan. 31 Last day to drop a Monday-only class and receive a refund, or change the Monday-only class to Pass/No Pass or audit
Feb. 20  Presidents’ Day, University Holiday
Feb. 24 Last day to drop a class without a mark of “W” on the transcript
          Last day to change a Pass/No Pass course to letter grade
UNIVERSITY CALENDAR – Spring 2017 cont’d

Mar. 6  
Registration for Summer 2017 begins

March 12-19  
Spring recess

April 7  
Last day to drop a class with a mark of “W” on the transcript
Incomplete grade option

April 28  
Fall semester classes end

April 29 – May 2  
Study days

May 3-10  
Final examinations

Final Examinations Schedule link:
http://classes.usc.edu/term-20171/finals/
Master of Science in Astronautical Engineering (MSASTE)

- 27 units of course work; thesis *not* required but is possible
- 3.0 minimum GPA required to fulfill degree requirements
- Maximum transfer graduate credit: 4 units
- 5-year limit to satisfy degree requirements

Director, Master’s Program
Dr. Mike Gruntman, mikeg@usc.edu

Helpful websites:

https://gapp.usc.edu/graduate-programs/masters/astronautical-engineering/astronautical

http://astronauticsnow.com/msaste/faq.html
Degree Requirements for the ASTE Master’s Program

- **Four Core Requirements, 3 units each:**
  - ASTE 470 Spacecraft Propulsion
  - ASTE 520 Spacecraft System Design
  - ASTE 535 Space Environments and Spacecraft Interactions
  - ASTE 580 Orbital Mechanics I

- **Three Core Electives, 3 units each:**
  - ASTE 501ab Physical Gas Dynamics
  - ASTE 523 Design of Low Cost Space Missions
  - ASTE 524 Human Spaceflight Systems
  - ASTE 527 Space Studio Architecting
  - ASTE 529 Safety of Space Systems and Space Missions
  - ASTE 552 Spacecraft Thermal Control
Degree Requirements for the ASTE Master’s Program cont’d

Core Electives Continued
ASTE 553 Systems for Remote Sensing from Space
ASTE 554 Spacecraft Sensors
ASTE 556 Spacecraft Structural Dynamics
ASTE 557 Spacecraft Structural Strength and Materials
ASTE 570 Liquid Rocket Propulsion
ASTE 572 Advanced Spacecraft Propulsion
ASTE 574 Space Launch Vehicle Design
ASTE 581 Orbital Mechanics II
ASTE 583 Space Navigation: Principles and Practice
ASTE 584 Spacecraft Power Systems
ASTE 585 Spacecraft Attitude Control (summer only)
ASTE 586 Spacecraft Attitude Dynamics
ASTE 589 Solar system Navigation
Degree Requirements for the ASTE Master’s Program continued

- Two Technical Electives, 500-level, 3 units each.
  Courses that apply as technical electives:
  Any course from the list of ASTE Core Electives
  ASTE 599 Special Topics course
  A course from another engineering department approved by
  Faculty advisor Dr. Mike Gruntman (copy hpeltz@usc.edu to the
  email) prior to registration. More information can be found here:
  http://astronauticsnow.com/msaste/faq.html
ASTE 599 Special Topics Course

Special topics courses are not offered each semester.

Refer to the Schedule of Classes for availability.
Five Areas of Concentration in ASTE

Students are *not* required to identify an area of specialization. These concentrations act as a guide for students in order to meet their educational or professional objectives.

**Spacecraft Propulsion**
- ASTE 501ab Physical Gas Dynamics
- ASTE 570 Liquid Rocket Propulsion
- ASTE 572 Advanced Spacecraft Propulsion
- ASTE 584 Spacecraft Power Systems
Five Areas of Concentration in ASTE cont’d

Spacecraft Dynamics
   ASTE 556 Spacecraft Structural Dynamics
   ASTE 557 Spacecraft Structural Strength and Materials
   ASTE 581 Orbital Mechanics II
   ASTE 583 Space Navigation: Principles and Practice
   ASTE 585 Spacecraft Attitude Control (*summer only*)
   ASTE 586 Spacecraft Attitude Dynamics

Space Systems Design
   ASTE 523 Design of Low Cost Space Missions
   ASTE 527 Space Studio Architecting
   ASTE 529 Safety of Space Systems and Space Missions
   ASTE 557 Spacecraft Structural Strength and Materials
Five Areas of Concentration in ASTE cont’d

**Spacecraft Systems**
- ASTE 552 Spacecraft Thermal Control
- ASTE 553 Systems for Remote Sensing from Space
- ASTE 554 Spacecraft Sensors
- ASTE 584 Spacecraft Power Systems

**Space Applications**
- ASTE 527 Space Studio Architecting
- ASTE 553 Systems for Remote Sensing from Space
- ASTE 554 Spacecraft Sensors
Department Policies, Procedures, Tips

- Maintain a 3.0 grade point average
- Review your STARS Report every semester.
  - You can access OASIS, Web Registration, USC email, STARS Report, view any holds and restrictions with a single sign-on at myUSC (http://my.usc.edu).
  - The STARS Report includes the degree and major you are currently pursuing, GPA, Catalogue year, admission term, the number of units and course required to fulfill your degree requirements.
  - Your STARS Report is manually activated after you enroll in your first course as an officially admitted student.
- Check your USC email regularly
- Email – include USC 10-digit ID
If scheduling a phone appointment, include your phone number in your request through the appointment system in https://myviterbi.usc.edu/

Prerequisite waivers for ASTE classes – please refer to http://astronauticsnow.com/msaste/faq.html

Plan your semester responsibly by referring to the Schedule of Classes http://classes.usc.edu/ and the ASTE Class Schedule http://astronauticsnow.com/msaste/astd_ms_class_schedule.pdf

If you will be working full-time, we strongly recommend only taking 1 class in your first semester

If you desire to change majors, you can do so after your first semester (contact the other department for the transfer procedures)
HOW TO REQUEST D-CLEARANCE FROM DEN

All DEN courses require D-clearance.

1. Login to DEN Desire2Learn: 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
CONTACT INFO

OFFICE OF GRADUATE AND PROFESSIONAL PROGRAMS
Location: Olin Hall of Engineering (OHE), Rm. 106
Hours: Mon. - Fri. 8:30 am - 5 pm (Pacific Time)
Phone: (213) 740-4488 | Fax: (213) 821-0851
http://gapp.usc.edu

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<tr>
<th>DEN@Viterbi Support</th>
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<tbody>
<tr>
<td>Technical support, Desire2Learn training, Homework</td>
<td><a href="mailto:dentsc@usc.edu">dentsc@usc.edu</a></td>
<td>Rebecca Lee</td>
</tr>
<tr>
<td></td>
<td>213-740-9356</td>
<td>Bianca Richter</td>
</tr>
<tr>
<td>Exams</td>
<td><a href="mailto:denexam@usc.edu">denexam@usc.edu</a></td>
<td>Shirley Schutt (exams)</td>
</tr>
<tr>
<td></td>
<td>213-740-9356</td>
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<tr>
<td>GAPP Advisor for registration, d-clearance, policies and procedures</td>
<td><a href="mailto:ptrinida@usc.edu">ptrinida@usc.edu</a></td>
<td>Patty Rinehart</td>
</tr>
<tr>
<td></td>
<td>213-740-0116</td>
<td></td>
</tr>
<tr>
<td>Tuition Deferment or Vouchers</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.