



DEN@Viterbi

Department of Biomedical Engineering

Orientation



Welcome to DEN@Viterbi and USC



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Graduate Affairs Advisor

Biomedical Engineering Department

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AGENDA

- Department Contact Information
- Degree Requirements
- Advisement: BME Advisement Hold, DEN D-clearance
- DEN Contact Information
- Q & A



PROGRAM OVERVIEW

- [MS in Biomedical Engineering \(MS BME/General BME\)](#)
- [MS in Imaging and Imaging Informatics \(MIII\)](#)
- [MS in Medical Devices & Diagnostic Engineering \(MDDE\)](#)



MS in Biomedical Engineering (MS BME/General BME) (28 units total)

Required Courses All courses are required - 15 units total

BME 501 | Advanced Topics in Biomedical Systems (4 units, Fall & Spring)

BME 502 | Advanced Studies of the Nervous System (4 units, Fall only)

BME 511 | Physiological Control Systems (3 units, Fall only)

BME 513 | Signal and Systems Analysis (3 units, Spring only)

BME 533 | Seminar in Bioengineering (1 unit, Fall & Spring)

Required Technical Elective courses – 13 units total

See more at:

<https://viterbigradadmission.usc.edu/programs/masters/msprograms/biomedical-engineering/ms-biomedical-engineering/>



MS in Imaging and Imaging Informatics (MIII) (28 units total)

Required Courses All courses are required – 22 units total

BME 501 | Advanced Topics in Biomedical Systems (4 units, Fall & Spring)

BME 513 | Signal and Systems Analysis (3 units, Spring only)

BME 525 | Advanced Biomedical Imaging (3 units, Spring only)

BME 527 | Integration of Medical Imaging Systems (3 units, Fall only)

BME 528 | Medical Imaging Informatics (3 units, Spring only)

BME 535 | Ultrasonic Imaging (3 units, Spring only)

EE 569 | Introduction to Digital Image Processing (3 units, Fall only)

Technical Electives –6 units total

See more at:

<https://viterbigradadmission.usc.edu/programs/masters/msprograms/bio-medical-engineering/ms-bme-medical-imaging-imaging-informatics/>



MS in Medical Devices & Diagnostic Engineering (MDDE)

(28 units total)

Required Courses - 19 units total

BME 501 | Advanced Topics in Biomedical Systems (4 units, Fall & Spring) **OR**

BME 502 | Advanced Studies of the Nervous System (4 units, Fall only)

BME 513 | Signal and Systems Analysis (3 units, Spring only)

BME 650 | Biomedical Measurement and Instrumentation (3 units, Spring only)

BME 416 | Development and Regulation of Medical Products (3 units, Spring only) **OR**

*MPTX 511 | Introduction to Medical Product Regulation (3 units, available Year-round)

ISE 527 | Quality Management for Engineers (3 units, available Year-round) **OR**

*MPTX 515 | Quality Assurance (3 units, available Spring & Summer only)

ISE 545 | Technology Development and Implementation (available Year-round)

Technical Elective 1 course required - 3 units total.

Required Specialization Track - 6 units from one of the required specialization tracks.

See more at:

<https://viterbigradadmission.usc.edu/programs/masters/msprograms/biomedical-engineering/ms-in-medical-device-and-diagnostic-engineering/>

***see section on REGISTRATION regarding d-clearance process for MPTX & RSCI courses**

Regulatory Affairs Course list: <http://regulatory.usc.edu/courses/>



MDDE Program Continued...

Choose ONE track – 6 credits total

Medical Technology and Device Science Track

BME 535 | Ultrasonic Imaging (Spring only)

DEN@Viterbi students completing this specialization will substitute the 2nd BME elective (not available online) with a department approved alternative

Product Development Track

ISE 515 | Engineering Project Management (Available Year-round)

ISE 555 | Invention & Technology Development. *DEN@Viterbi students completing this specialization will substitute with a department approved alternative.*

Regulatory Track (*Available online through Regulatory Affairs*)

MPTX 513 | Regulation of Medical Devices and Diagnostics (Fall & Summer only)

RSCI 527 | Medical Product Safety (3 units, Summer only)

BME DEPARTMENT REGISTRATION RULES



- All BME courses require D-clearance.
- All BME graduate students have a **MANDATORY ADVISEMENT HOLD** from the BME Department.

Step 1: Contact your Graduate Student Advisor for MANDATORY ADVISEMENT

Step 2: REQUEST D-CLEARANCE FROM DEN

Note 1 Schedule a meeting with the Graduate Student Advisor if you are unclear about your course plan. Provide your 10-digit USC ID and specify that you are a DEN student.

Note 2 Elective courses that are not on the BME list of approved technical electives for your program require a petition. Degree applicability of technical electives must always be approved by the Department Chair.

See more at <https://bme.usc.edu/student-resources/graduate-student-resources/>



HOW TO REQUEST D-CLEARANCE FOR MPTX or RSCI COURSES

Send an e-mail request to Toni Rodriguez (tonirodr@usc.edu) with the information below:

- Name, USC 10-digit ID, e-mail
- Course # (ie. MPTX 513)
- Graduate Program (eg. MS BME or MDDE)
- Distance Student

Consult the full MPTX/RSCI schedule at
<http://regulatory.usc.edu/CourseSchedules.htm>

See more at <http://bme.usc.edu/students/graduate-students-current/advising-information.htm>

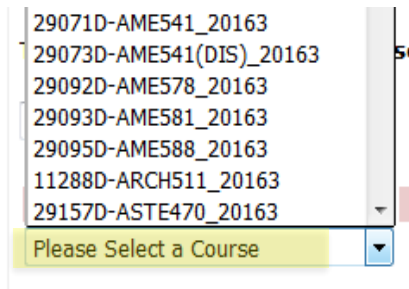
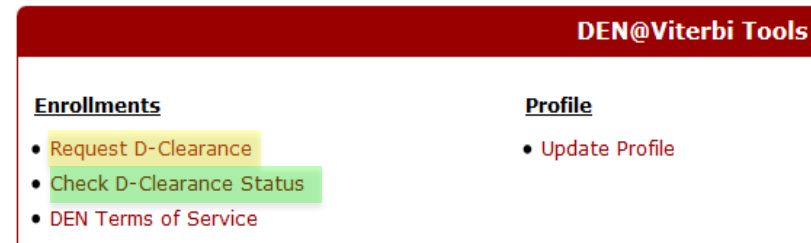


HOW TO REQUEST D-CLEARANCE FROM DEN

All DEN courses require D-clearance.



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To begin D-Clearance, Please select a term to apply for D Clearance



1. Login to DEN Desire2Learn: <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
4. Approval process takes 1 business day. To view the status of a request, click on “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



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

<https://viterbigrad.usc.edu/>

DEN@Viterbi Support	Contact Information	Staff
<u>Technical support,</u>	dentsc@usc.edu	Rebecca Lee
<u>Desire2Learn training,</u>	213-740-9356	Bianca Richter
<u>Homework</u>		
<u>Exams</u>	denexam@usc.edu 213-740-9356	Shirley Schutt (exams)
<u>GAPP Advisor for registration, d-clearance, policies and procedures</u>	ptrinida@usc.edu 213-740-0116	Patty Rinehart
<u>Tuition Deferment or Vouchers</u>	susannas@usc.edu 213-740-8198	Susanna Sahakian



**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

<https://viterbigrad.usc.edu/academic-services/new-student-information/>.