

UNIVERSITY OF CONNECTICUT

BIOMEDICAL ENGINEERING

GRADUATE ORIENTATION

FALL 2009

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3:00-4:30pm

Castleman 212

NEW STUDENTS – Welcome!

CURRENT STUDENTS – Thank you for joining us!

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Welcome to the BME Graduate Program Orientation!

Thank you for joining us today! We hope that this Orientation will be useful not only to incoming students, but for current students as well.

There have been important changes to the BME Graduate Program that we wish to share with you. The School of Engineering recently appointed me to serve as the BME Director of Graduate Studies. Dr. John Enderle served in this capacity for many years and we are grateful for his hard work and commitment to the Program. Dr. Enderle will continue to serve as the BME Director of Undergraduate Studies, as well as a Major Advisor to graduate students.

In addition, the BME Main Office has hired Kerrie Wenzler to assist me with the administrative aspects of the Graduate Program. Lisa Ephraim will continue to assist the Graduate Program during this transition; however, her main duties are at the Undergraduate level.

This booklet contains information for all BME graduate students. We hope that you find it useful!

Dr. Donald R. Peterson

BME Director of Graduate Studies

BME Graduate Program Changes

CURRENT STUDENTS: We would like to reassure current students that their plan requirements will not change; however, some procedures have changed:

Signatures/Approvals

- Dr. Peterson's signature will be required on all forms that request the Department Head's signature such as Independent Study forms.
- Upon the approval of your Major Advisor, you may obtain substitutions for non-BME coursework to fulfill your BME elective requirements. These may include courses in ECE, ME, CHEG, etc., that relate to BME and/or your Plan of Study. Please have your Major Advisor email Kerrie with his/her approval and the course name. Keep in mind that core requirements are still in effect for whichever catalog year you are on.
- *Changing from Masters Plan A to Masters Plan B or vice versa:* If you wish to change your MS Plan, please get your Major Advisor's approval and contact Kerrie. The BME Office and the Graduate School can change your Plan information in Peoplesoft. (Note: We cannot change MS to PhD, or PhD to MS. Contact Kerrie to find out the procedure for changing your degree status).

Graduation

- When you are ready to graduate, please inform Kerrie as soon as possible. She will give you instructions on which forms need to be completed, arrange for Thesis or PhD defense rooms, etc.
- *Plan of Study Forms:* When you are ready to graduate, you will need to complete a hardcopy Plan of Study form. Only your Major Advisor will need to approve and sign this form. Forms are available at <http://grad.uconn.edu/forms.html>. You may submit the approved form to Kerrie and she will submit to the Graduate School.

NEW STUDENTS: Please refer to the University of Connecticut Graduate Catalog 2009-2010 for basic requirements and a list of BME Faculty currently designated as Major Advisors (this list is also included at the end of this booklet).

Note that *The BME Graduate Program Handbook* available on our website is currently under revision. We will post the revised Handbook as soon as possible. If you have any questions regarding your requirements, please contact Dr. Peterson or your Major Advisor.

We highly recommend searching the UCONN website to locate answers to your questions. Almost all departments at the University have a website but, if you are unsuccessful locating the information yourself, you can contact the BME office.

Frequently Asked Questions

1. Is there transportation from the Storrs campus to the University of Connecticut Health Center for classes held at the Health Center?

No. The University does not provide transportation to or from the Health Center. If you do not have a vehicle, please contact Kerrie and she can provide a list of students enrolled in the course. You can contact these students to inquire about ride-sharing.

2. How can I obtain funding?

Currently, the BME Graduate Program does not have regular, dedicated funding for Graduate Assistantships (GA) in research or teaching. *Each individual faculty member has their own funding.* From the list of Major Advisors, contact the appropriate faculty within your area of research interest to introduce yourself and inquire about funding opportunities. If you are unsure whom to contact, ask Dr. Peterson for recommendations.

3. How do I obtain permission numbers to enroll in a closed course or a course that requires Instructor Consent?

Some graduate courses require Instructor Consent to enroll. Contact the Instructor directly to ask for a permission number. Certain courses are designed for Clinical Engineering Internship students and are not open to non-Clinical students. If no Instructor is listed for a course for which you need a permission number, please contact Kerrie. If a course is closed, you may still contact the Instructor to ask if they will let you enroll. They will issue you a permission number for this.

4. What do I do if I want to take a non-BME course?

If you wish to take a course outside of BME (i.e. ME, ECE, CHEG, etc.), contact your Major Advisor for approval. Please have your Major Advisor email Kerrie with his/her approval and the course catalog name and number.

5. I have tried contacting a faculty member but he/she has not responded. What do I do?

Faculty members are extremely busy and may receive hundreds of emails a day. Please be patient for a reply. You may also go in-person to the faculty member's office.

6. What do I do if I want to change my Masters Plan from B to A, or A to B, or to change my Degree from Masters to PhD, or PhD to Masters?

To change your Masters Degree Plan (A or B), contact your Major Advisor for approval and then contact Kerrie to inform her of the Plan change. Either she or the Graduate School can update this information in Peoplesoft with written consent from your advisor. Please note that only the Graduate School can change your Degree (i.e. Masters to PhD, PhD to Masters). Contact Kerrie for instructions on how to change your Degree.

7. Whom do I contact if I have course registration problems?

Contact the Registrar's Office.

8. Whom do I contact if I have questions about my tuition and fee bill?

Contact the Bursar's Office.

9. How do I register for an Independent Study?

Obtain the Independent Study Form from <http://www.registrar.uconn.edu/indstudy.pdf>. The Subject Area and Catalog Number for a BME Independent Study is BME 5099. On the form, complete your name, Student ID, Subject Area, and Catalog #. Leave the Section and Class number blank. Enter the maximum units authorized by the Instructor. Enter the Year and Semester for the Independent Study. Have the Instructor approve the Name of Project (this will appear on your transcript). Have the Instructor sign first and then get your Major Advisor's signature. Finally, get Dr. Peterson's signature as Dept. Head. Once you have obtained all signatures, bring the form to the Registrar's Office and they will enroll you.

10. Will graduate courses ever get cancelled?

Yes, sometimes BME graduate courses get cancelled due to low enrollment or for other reasons. The BME website has course offerings listed for each semester. We update the information regularly and will note any course cancellations or schedule changes.

11. I am a Masters Degree student. Can I apply for the Clinical Engineering Internship program?

Yes. However, the Clinical Engineering Internship Program is extremely competitive and we receive applications from students around the world. Currently, there are approximately 6-8 internships at various regional hospitals. Admission to this Internship program is for Fall semesters only. Dr. John Enderle and Mr. Frank Painter are the Clinical Engineering Internship Directors. Qualified applicants will be selected by Dr. Enderle and Mr. Painter from the applicant pool and will be offered a chance to interview at the various hospitals. The hospitals choose the applicants they wish to hire. Applications for the Clinical Engineering Internship are normally due by January. The selection of interviewees occurs in February/March and final decisions are made in April. Please visit the BME website for additional information on the Clinical Engineering Internship Program. You do not need to submit a separate graduate application in order to apply to this program. Simply contact Kerrie to let her know you wish to be considered for the Clinical Engineering Internship Program.

12. I just switched from Masters Plan A to Plan B. Do I need to continue taking GRAD 5950 (Masters Thesis Research) credits?

No. If you are a Masters Plan B student, you do not need GRAD 5950. Complete coursework only.

13. I just switched from Masters Plan B to Plan A. Do I need to take GRAD 5950 (Masters Thesis Research) credits?

Yes. If you will be completing a thesis, you need 9 credits total of GRAD 5950 to meet your graduation requirements. You may take 1-9 credits of this per semester; most students take 3 credits per semester for 3 semesters. You may take more, but not less, than 9 credits total. If you have difficulty registering for the number of credits you want, contact the Graduate School, or if you have further questions, contact Kerrie or Dr. Peterson.

14. I did not receive a Graduate Assistantship and need to find employment. What can I do?

Contact the Office of Student Employment at <https://studentjobs.uconn.edu/>. This resource is not limited to Undergraduate students. You may also ask your BME Instructors if they need assistance with grading, proxying classes, etc.

Major Advisors in Biomedical Engineering

The following BME faculty serve as graduate school major, adjunct, and emeritus advisors in biomedical engineering (see footnotes). For faculty contact information, go to www.bme.uconn.edu and click on Faculty, Alphabetical Listing:

Major Advisors:

Douglas Adams¹: Biomechanics, Rehabilitation

Leslie Bernstein¹: Auditory System, Physiological Modeling

Paul Campagnola¹: Biomaterials, Cellular & Tissue Engineering, Imaging, Biotechnology, Biochemical Engineering, Physiological Modeling

William Chapple¹: Neuroscience, Physiological Modeling

Thomas Chen¹: Biotechnology

Martin Cherniack¹: Ergonomics, Epidemiology

Christian Davis³: Biomechanics, Biomaterials

Dipak K. Das¹: Physiological Modeling, Cardiovascular Systems

John Enderle¹: Biocontrols, Physiological Modeling, Oculomotor System, Signal Processing

Monty Escabi¹: Biocontrols, Physiological Modeling, , Signal Processing, Auditory System

Pouran Faghri¹: Rehabilitation Engineering

Martin Fox¹: Devices, Imaging, Medical Informatics, Ultrasound

A. Jon Goldberg¹: Biomaterials

Ian Greenshields¹: Bioinformatics, Imaging

Greg Huber¹: Biomechanics and Fluid Dynamics

Faquir Jain¹: Bioinstrumentation

Bahram Javidi¹: Bioinstrumentation, Optical Imaging

Kazem Kazerounian¹: Biomechanics

Yusuf M. Khan¹: Biomaterials, Cellular and Tissue Engineering

Duck Kim¹: Auditory System, Physiological Modeling

Shiva Kotha¹: Biomechanics

Donald Kreutzer¹: Biomaterials, Biosensors, Biotechnology, Cellular and Tissue Engineering, Physiological Modeling

Liisa Kuhn¹: Biomaterials, Tissue, Molecular and Cellular Engineering

Sangamesh G. Kumbar¹: Biomaterials, Cellular and Tissue Engineering

Cato Laurencin¹: Biomaterials, Cellular and Tissue Engineering

Jay Lieberman¹: Biomechanics

Lanbo Liu¹: Imaging and Biosignal Processing

Les Loew¹: Cellular & Tissue Engineering, Imaging, Biotechnology, Biochemical Engineering, Physiological Modeling

Ion Mandoiu¹: Bioinformatics

R. Michael Meneghini¹: Biomechanics

Andrew Moiseff¹: Neuroscience, Physiological Modeling

William Mohler¹: Biomaterials, Cellular & Tissue Engineering, Imaging, Biotechnology, Biochemical Engineering, Physiological Modeling

Lakshmi Sreedharan Nair¹: Biomaterials, Cellular and Tissue Engineering

Mary Lynn Newport¹: Biomaterials

Robert Northrop³: Bioinstrumentation, Biocontrols, Physiological Modeling

Nejat Olgac¹: Biomechanics

Douglas Oliver¹: Anatomy

Donald Peterson¹: Biomechanics, Ergonomics, Rehabilitation

Carol Pilbeam¹: Pharmacology, Physiological Modeling

Heather Read¹: Physiological Modeling

Mansoor Sarfarazi¹: Bioinformatics, Cellular and Tissue Engineering

Ranjan Srivastava¹: Biochemical Engineering, Biotechnology,

Dong-Guk Shin¹: Bioinformatics

Richard Simon¹: Bioinformatics, Signal Processing

Wei Sun¹: Biomechanics

David Waitzman¹: Physiological Modeling and Electrophysiology

Nicholas Warren¹: Ergonomics

Yong Wang¹: Biomolecular Engineering, Tissue Engineering, Biochemical Engineering

Mei Wei¹: Biomaterials

Quing Zhu¹: Bioinstrumentation, Biosensors, Imaging, Ultrasound

Adjunct Faculty:

Jeffery Bronke²: Clinical Engineering

Terry Crofts²: Clinical Engineering

Amato DeRosa²: Clinical Engineering

Leonard Eisenfeld²: Pediatrics, Medical Electronics, Clinical Engineering

Kevin Jensen²: Clinical Engineering

Joseph McIsaac²: Anesthesia, Devices, Electromagnetic Fields, Physiological Modeling

Nicholas Noyes²: Clinical Engineering

Frank Painter: Clinical Engineering

Henry Stankiewicz², Clinical Engineering

Arif Subhan²: Clinical Engineering

¹ The major advisor is the chair of the thesis/dissertation advisory committee. The major advisor is responsible for coordinating the supervisory work of the advisory committee (course of study and research program of the student). In some instances, the major advisor may choose to involve a thesis advisor to assist with the graduate research program for the student.

² The adjunct faculty is a member of the thesis/dissertation advisory committee.

³ Emeritus Professor who can no longer serve as a major advisor, but can be an associate advisor.

BME Main Office Contact Information & Office Hours

Dr. Donald Peterson

BME Program Director of Graduate Studies

Office: A. B. Bronwell, Room 205

Phone: 860-486-0372

Email: peterston@engr.uconn.edu

In-Person Availability: At least one day per week on the Storrs campus. Widely available in his lab on the Medical School Campus in Farmington.

Dr. John Enderle

Professor, BME Program Director of Undergraduate Studies, and Major Advisor for Graduate Students

Office: A. B. Bronwell, Room 217

Phone: 860-486-5521

Email: jenderle@bme.uconn.edu

In-Person Availability: Contact Kerrie or Lisa to arrange an appointment with Dr. Enderle.

Lisa Ephraim

Academic Advisor I (Undergraduates)

Office: A. B. Bronwell, Room 217

Phone: 860-486-5838

Email: lisae@engr.uconn.edu

In-Person Availability: Walk-ins ok, or contact Lisa or Kerrie for appointment.

Jennifer Desrosiers

Financial Manager/Program Assistant II

(Jennifer processes Graduate Assistantships for Dr. Enderle ONLY and processes payroll for student employees of the BME Program.)

Office: A. B. Bronwell, Room 217

Phone: 860-486-0116

Email: jennd@engr.uconn.edu

In-Person Availability: Call Jennifer ahead to schedule meeting.

Kerrie Wenzler

Administrative Specialist for Graduate Program

Office: A. B. Bronwell, Room 217

Phone: 860-486-5838

Email: kerriew@engr.uconn.edu

In-Person Availability: Walk-ins ok, or you may email or call Kerrie directly.

BME Main Office Hours

Monday-Friday, 8:30am-Noon, 1:00-4:30pm

The office is closed for lunch every day from Noon-1pm. Please plan your visit accordingly.

STUDENT NOTES