PhD program PEO
1. Prepare students for their professional careers by strengthening their knowledge in their specialization through independent inquiry and research in biomedical engineering.

M.S. Program PEOs
1. Enhance student skills through formal education and training, and professional development in biomedical engineering.
2. Work independently, as well as collaboratively with others, while demonstrating the professional and ethical responsibilities of the biomedical engineering profession.
Administrators

• Robert Rennaker, PhD, Department Head for Bioengineering
  Office: ECSS 3.907
  Phone: 972-883-3562
  Email: renn@utdallas.edu

• Shalini Prasad, PhD, Associate Department Head
  Office: ECSS 3.904
  Phone: 972-883-4247
  Email: shalini.prasad@utdallas.edu
<table>
<thead>
<tr>
<th>Research Faculty</th>
<th>Joseph Pancrazio</th>
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<tbody>
<tr>
<td>Orlando Auciello</td>
<td>Shalini Prasad</td>
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<tr>
<td>Leonidas Bleris</td>
<td>Robert Rennaker</td>
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<tr>
<td>Stuart Cogan</td>
<td>Danieli Rodrigues</td>
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<tr>
<td>Robert Gregg</td>
<td>Mario Romero-Ortega</td>
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<td>Heather Hayenga</td>
<td>David Schmidtke</td>
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<td>Seth Hays</td>
<td>Shashank Sirsi</td>
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<td>Kenneth Hoyt</td>
<td>Mihaela Stefan</td>
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<tr>
<td>Stephen Levene</td>
<td>Jun Wang</td>
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<tr>
<td>Lan Ma</td>
<td>Taylor Ware</td>
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<td>Hyun-Joo Nam</td>
<td></td>
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</tbody>
</table>
Teaching Faculty:
Tariq Ali
Allison Case
Steven Foland
Soudeh Ardestani Khoubrouy
Kathleen McNeeley
Clark Meyer
Joseph Pacheco
Todd Polk
Patrick Winter
M.S. Study plan

• 33 graduate credits

• Sections in the study plan
  – Prerequisite courses (do not count towards M.S. degree)
  – Core courses (3 courses, 9 credit hours)
  – Electives (4 courses, 12 credit hours)
  – BMEN 7188: Advanced seminar series (up to 3 credit hours) (recommended)
  – Approved Electives and Thesis Hours (up to 12 credit hours; BMEN 7188 counts towards approved electives)

• 24 of graded credit hours must be BMEN or BMEN cross-listed classes
Grade Requirements

• GPA in core classes: 3.3
• GPA in other graduate classes: B (3.0) or better
• GPA in prerequisite classes: B or better
• Students must complete prerequisites in the first 2 long semesters after entering the program; i.e. by end of Spring 2016.
• Students must take 9 graduate credit hours per semester for full-time status
M.S. thesis students

• Students must take 3-9 credits hours of the Approved Electives as thesis (BMEN 6v98) or research hours (BMEN 6v70)
• Must identify a faculty thesis adviser by the end of 2nd long semester, i.e. Spring 2016, and inform graduate advising team.
• Must defend M.S. thesis; thesis committee formation rules [http://catalog.utdallas.edu/now/graduate/policies/policy]
M.S. non-thesis students

- 33 credits → 11 courses
- 9 credits of core, 12 credits of electives, 3 credits of BMEN 7188, 9 credits of approved electives
- 24 BMEN or BMEN cross listed courses
How to find courses?

- [http://coursebook.utdallas.edu/](http://coursebook.utdallas.edu/)
  - Resource for instructor information, syllabus, and room locations
- [http://elearning.utdallas.edu/](http://elearning.utdallas.edu/)
  - Resource for electronic blackboard interface for classes
Transfer credits

• Only courses with grade B (3.0) or better can be considered for a transfer

• Transfer credits are subject to the following limitations:
  – No more than 25% (8 hours) of the total requirement of a M.S. degree may be transfer credits
  – A maximum of 36 hours of M.S. level credit may transfer into a Ph.D. program
  – No more than 15 credit hours taken as a non-degree student at UT Dallas can be subsequently applied to a degree program at UT Dallas
M.S. students - New for Fall 2015

- BMEN 7188: Advanced Seminar Series in Bioengineering – 1 credit graded course
- Prerequisites take priority over other classes
- Degree audits – once a semester
- Meet with a graduate adviser once a semester for advising, Jim Shivers or Claire Troy
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Schedule</th>
<th>Location</th>
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</thead>
<tbody>
<tr>
<td>6345</td>
<td>Self-Assembly of Biomaterials</td>
<td>Mon &amp; Wed : 11:30am-12:45pm</td>
<td>ECSN_2.126</td>
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<tr>
<td>6351</td>
<td>Biomedical Microdevices</td>
<td>Mon &amp; Wed : 2:30pm-3:45pm</td>
<td>ECSS_2.305</td>
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<tr>
<td>6373</td>
<td>Anatomy and Human Physiology for Engineers</td>
<td>Mon &amp; Wed : 5:30pm-6:45pm</td>
<td>ECSN_2.110</td>
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<tr>
<td>6374</td>
<td>Genes, Proteins and Cell Biology for Engineers</td>
<td>Fri : 10:00am-12:45pm</td>
<td>ATC_2.302</td>
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<tr>
<td>6377</td>
<td>Introduction to Protein Engineering</td>
<td>Fri : 4:00pm-6:45pm</td>
<td>JO_3.532</td>
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<tr>
<td>6378</td>
<td>Mechanobiology for Engineers</td>
<td>Tues &amp; Thurs : 11:30am-12:45pm</td>
<td>CB1_1.106</td>
</tr>
<tr>
<td>6386</td>
<td>Biological Processes: Modeling and Simulation</td>
<td>Tues &amp; Thurs : 10:00am-11:15am</td>
<td>CB1_1.102</td>
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<tr>
<td>6387</td>
<td>Applied Bioinformatics</td>
<td>Tues &amp; Thurs : 2:30pm-3:45pm</td>
<td>ECSS_2.203</td>
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<td>6391</td>
<td>Proteomics</td>
<td>Tues &amp; Thurs : 1:00pm-2:15pm</td>
<td>FO_3.616</td>
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<tr>
<td>6v40.024</td>
<td>Individual Instruction in Biomedical Engineering</td>
<td>Mon &amp; Wed : 10:00am-11:15am</td>
<td>ECSS_3.910</td>
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<td>6v87</td>
<td>Special Topics in Biomedical Engineering</td>
<td>Tues &amp; Thurs : 1:00pm-2:15pm</td>
<td>CB3_1.314</td>
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<tr>
<td>7188</td>
<td>Advanced Seminars in Biomedical Engineering</td>
<td>Fri : 1:00pm-2:00pm</td>
<td>SOM_1.107</td>
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</table>
Start as PhM student in Fall 2015
Pass BMEN Qualifying exam in Year 1 → PhD student
Pass BMEN PhD dissertation Proposal in year 2 → PhD candidate
Defend PhD → PhD conferral
Requirements for PhD Program

- 33 graded credit hours from graduate level courses pertinent to PhD area of study
- Primarily BMEN or BMEN cross-listed courses
- Need to have a UTD BMEN GPA, i.e. a minimum of 9 credits hours of graduate BMEN classes
- Only 36 master's level credit hours can transfer into the doctoral program
- Must have a minimum of 75 graduate credit hours at graduation semester
Mandatory Classes for PhD Students

• BMEN 7188 - Adv. Seminar Series – 1 credit – graded course, every semester except graduating semester
• BMEN 7387- Ind. Sci. Research – at least once after passing the BMEN QE
• BMEN 6v98 - Thesis credits – at least 3 credit hours prior to graduation semester.
PhD Qualifying Exam

• Must take it in first year of the PhD program
• Offered in week 1 and 2 of spring semester
• Submit the Application for the Doctoral Qualifying Examination form by the 12th week of the fall semester (Friday, November 14, 2015)
• A student is allowed two attempts to pass the qualifying exam
• Submit the Milestone Agreement Form, signed by your Faculty Advisor, to PhD Program Coordinator by end of your first semester
PhD Qualifying Exam

• 2 part exam
• Written QE:
  – 2 hour exam; electronic testing, multiple choice format
  – Scope of written QE: Breadth of undergraduate curriculum
  – Must pass written QE to take oral QE
• Oral QE:
  – 30 minute white board exam in front of faculty committee
  – Students failing the oral exam will need to retake it in the long semester following the first attempt
PhD dissertation proposal exam

• Student must complete the proposal exam within 2 long semesters of passing the QE
• Once the student passes the QE, a two page Prospectus of their dissertation topic with the Faculty Advisor’s signature of approval will need to be prepared and submitted to the Graduate Dean’s Office no later than the beginning of the 2nd long semester after passing the QE
• Student must declare intent before the fourth week of the semester in which the exam will be held
• Student must complete this exam in the first 12 weeks of the semester
• Student must submit the complete written dissertation proposal to the committee members at least 3 weeks before the proposal defense
The committee for the dissertation exam and the dissertation proposal remains the same.

The BME department head will appoint a chair (other than your adviser) for the dissertation proposal exam.

Your adviser will be the chair of your dissertation exam.
PhD candidate

Student will have advanced to candidacy when the student has:

• Passed the qualifying examination
• Formed a Dissertation Committee approved by the Department Head of Bioengineering and the Dean of Graduate Studies
• Completed the dissertation proposal exam
• Completed 33 graded graduate coursework (including allowable transfer credit)
• Maintained a 3.3 GPA
• Satisfied any other program or school candidacy requirements

Candidacy must be achieved before a student is eligible to enroll in dissertation courses

(Please note that graduate students who earn more than 99 total graduate hours will be charged out-of-state tuition.)
Jim Shivers - contact for registration, general program advising, MS and PhD graduation tracking, dissertation notification and deadlines pertaining to students.

Email: jts032000@utdallas.edu
Phone: 972-883-4631
Claire Troy – contact for degree plan audits, transfer credit process, graduation application process, probation and drop status options, milestones information and all related paperwork. Also can contact for any questions or concerns about holds on your account through other student services offices.

Email: cct130230@utdallas.edu
Phone: 972-883-4615
Time Limits

- All requirements for the master’s degree must be completed within one **six-year** period.
- All requirements for the doctoral degree must be completed within one **ten-year** period.
- Students whose master’s degrees are accepted for full credit toward a PhD must complete all requirements for the doctoral degree within one **eight-year** period.
- Any work exceeding these limits, whether completed at this university or elsewhere, will not count toward the degree.
Research Assistantship (RA) and Teaching Assistant (TA) opportunities are primarily for students pursuing a PhD.

- (RA) appointments are offered by faculty – you must inquire with individual faculty members
- (TA) appointments are offered by the department and selected by the graduate committee
- Must maintain academic good standing
• Information Resources are provided for education and research only
  – **All official communications will be sent through your UT Dallas email address only**
  – Unauthorized use of IR resources will be penalized as permitted by law
Information Resources

• **Resolving Issues (Email issues):** First, see your advisor, faculty instructor!
  
  – Group Emails to the School will not be tolerated (loss of computer privileges will result – students must follow their chain of supervision).
Academic Dishonesty

• Any form of academic dishonesty will not be tolerated
  – All matters related to academic dishonesty and disciplinary actions are described at: http://www.utdallas.edu/deanofstudents/
Scholastic Opportunities

• For more information on fellowships and scholarships, please visit:
  http://ecs.utdallas.edu/students/scholarships.html
Important Links

• Galaxy Account:  https://sis-portal-prod.utdallas.edu/psp/DEPPRD/EMPLOYEE/EMPL_UTD/h/?tab=PAPP_GUEST

• Academic Calendar:  http://www.utdallas.edu/academiccalendar/

• Semester Schedule:  http://coursebook.utdallas.edu/

• Information Resources (tech support):  http://www.utdallas.edu/ir/

• Registrar’s Office:  http://www.utdallas.edu/student/registrar/

• Bursar’s Office:  http://www.utdallas.edu/bursar/
• Concurrent Enrollment: https://www.utdallas.edu/registrar/files/Concurrent_Enrollment_Form_rev_01072015.pdf

• Graduate Dean’s Office: http://www.utdallas.edu/dept/graddean/

YOU MUST START EARLY!

• Courses available at UTSW:
  http://www.utsouthwestern.edu/education/graduate-school/about-us/biomedical-sciences-catalog.html

• Courses available at UT Arlington:
  http://www.uta.edu/bioengineering/

• Course(s) must be approved by your advisor
  – Concurrent enrollment is not permitted during student’s graduating semester
  – UTD students cannot perform research in UTA or UTSW labs their first year
Welcome to the Department!