

Faculty Roster Form

Qualifications of Full-Time and Part-Time Faculty

Name of Institution: University of Louisville

Name of Primary Department, Academic Program, or Discipline: Bioengineering

Academic Term(s) Included: Summer 2023, Fall 2023, and Spring 2024

Date Form Completed: 2/12/24

<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>
NAME (F, P)	COURSES TAUGHT Including Term, Course Number & Title, Credit Hours	ACADEMIC DEGREES & COURSEWORK Relevant to Courses Taught, Including Institution & Major List specific graduate coursework, if needed	OTHER QUALIFICATIONS & COMMENTS Related to Courses Taught
Gina Bertocci, PhD – P		BS & MS in Mechanical Engineering – University of Pittsburgh PhD in Bioengineering – University of Pittsburgh	Licensed Professional Engineer Industry experience (11 yrs) Fellow – Amer Inst for Med & Biol Engr
Karen Bertocci, PhD - F	<ul style="list-style-type: none"> • BE 603 – Bioengineering Research Ethics – 2 cr –Summer Term • BE 695 – Advanced Research Design & Methods –3 cr – Spring Term 	BA, English Writing & PhD Rehab Sciences & Technology - University of Pittsburgh MBA, Duquesne University of Pittsburgh Certificate - Clinical Research, Epidemiology & Statistics, University of Louisville	
Joseph Chen, PhD - F	<ul style="list-style-type: none"> • BE 423 – Bioengineering Measurements Laboratory- 2 cr- Spring Term • BE 450 - Biomaterials and Biocompatibility – 3 cr – Summer Term • BE 670– Cancer Mechanobiology– 3 cr –Summer, Term 	BS, Biomedical Engineering, Mississippi State University MS, Biomedical Engineering, Mississippi State University PhD, Biomedical Engineering, Vanderbilt University	

<p>Ayman El-Baz, PhD – F</p>	<ul style="list-style-type: none"> • BE 101- Introduction to Bioengineering – 1 cr – Spring Term • BE 420-Biosystems & Signals, 3 cr- Spring Term • BE 530 – Machine Learning in Python – 3 cr –Spring Term • BE 540 – Machine Learning in Medicine – 3 cr –Spring Term • BE 542 – Computer Tools Med Image Analy – 3 cr –Spring Term • BE 543 -Computer Tools for Medical Image Analysis– 3 cr – Summer Term • BE 544-AI Techniques & Digital Pathology – 3 cr — Fall Term • BE 640- Computational Methods for Medical Image Analysis – 3 cr – Spring Term • BE 601- Be Doctoral Seminar– 1 cr – Fall and Spring Terms 	<p>BS & MS in Electrical Engineering – University of Mansoura PhD in Electrical Engineering – University of Louisville</p>	<p>ABET Program Evaluator (ABET-PEV) Fellow- IEEE, NAI, BMES, AIMBE, and Coulter</p>
<p>Hermann Frieboes, PhD - F</p>	<ul style="list-style-type: none"> • BE 497 – Senior Design, 3 cr –Fall Term • BE 650 – Advanced Biomaterials – 3 cr – Fall Term • BE 685 – Modeling of Biological Phenomena, 3 cr – Summer Term 	<p>At University of California, Irvine:</p> <ul style="list-style-type: none"> • B.S., Electrical Engineering • B.S., Computer Science • B.S., Physics • B.S., Applied Mathematics • M.S., Computer Engineering • M.S., Biomedical Engineering • Ph.D., Biomedical Engineering 	<p>Engineering experience in industry</p>

Guruprasad Giridharan, PhD - F	<ul style="list-style-type: none"> • BE 611 – Cardiovascular Dynamics – 3 cr - Summer Term • BE 683 – Artificial Organs- 3 cr- Spring Term • BE 691 – BE Non-thesis Project- 3 cr- Summer Term 	BS-Chemical Engineering, Univ. of Madras MS &PhD- Chemical Engineering, Univ. of Utah	
Steven C Koenig, PhD – F	<ul style="list-style-type: none"> • BE 480 – Medical Device Design – 3 cr – Spring Term 	BS, MS – Electrical Engineering – University of New Hampshire PhD – Biomedical Engineering – University of Texas	Fellow – Amer Inst for Med & Biol Engr
Jonathan Kopechek, PhD – F	<ul style="list-style-type: none"> • BE 340 – Computational Methodologies in Bioengineering – 3 cr – Summer Term • BE 430 – Biosystems Controls – 3 cr – Fall Term • BE 522 – Biomedical Acoustics – 3 cr –Fall Term 	BS in Electrical & Computer Engineering – The Ohio State University PhD in Biomedical Engineering – University of Cincinnati	
Martin O’Toole, PhD - F	<ul style="list-style-type: none"> • BE 605 – Tissue and Molecular Biology Techniques – 3 cr – Summer Term • BE453 – Introduction to Molecular Bioengineering – 3 cr – Fall Term • BE 491 Econ, Ethics FDA Reg-3cr-Fall Term • BE 553 Nanoscale Bioengineering- 3cr- Fall Term • BE 359 – Cell & Molecular Biology for Bioengineers – 3 cr – Spring Term 	BA Chemistry, University of Louisville BA Biology, University of Louisville MS Chemistry, University of Louisville PhD Chemistry, University of Louisville	Post-Doctoral Studies: Chemical Engineering, Electrical Engineering, Bioengineering

Tommy Rousset, PhD – F	<ul style="list-style-type: none"> • BE 322 – Circuits and Devices – 3 cr – Summer Term • BE 544 – LabVIEW for Bioengineers – 3 cr – Spring Term • BE 581 – Advanced Computer-Aided Design and Manufacturing for Bioengineering– 3 cr – Fall Term • BE 621 – Bioinstrumentation – 4 cr – Fall Term 	BA – Chemistry – Univ. of New Orleans BS & MS in Biomedical Engineering – Louisiana Tech University PhD in Mechanical Engineering – University of Louisville	Registered Engineer in Training (EIT) (La)
Patricia Soucy, PhD - F	<ul style="list-style-type: none"> • BE 354 – Anatomy and Physiology – 3 cr– Spring Term • BE 491 – Eng Econ, Ethics, FDA Analysis – 3 cr – Fall Term • BE 552 - Introduction to Tissue Engineering– 3 cr – Spring Term • BE 654- Advanced Physiology for Engineers – 3 cr– Fall Term • BE 668– BE Teaching practicum– 2 cr – Spring, Summer, Fall Terms • BE 692– BE Clinical Rotation– 2 cr – Spring, Summer, Fall Terms 	BS- Biomedical Engineering, Saint Louis University Ph.D.- Biomedical Engineering, Johns Hopkins University	
Michael Voor, PhD - P	<ul style="list-style-type: none"> • BE 310 – Biotransport Phenomena – 3 cr – Spring Term • BE 360 – Biomechanics 	BS in Mechanical Engineering – Tulane University MS and PhD in Biomedical Engineering – Tulane University	

	<p>Principles – 3 cr – Spring Term</p> <ul style="list-style-type: none">• BE 460 – Biomechanics of Tissues and Organs – 3 cr – Fall Term• BE 639 – Injury Biomechanics – 3 cr – Spring Term		
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F, P: Full-time or Part-time;