

## GRADUATE/DOCTORAL/PROFESSIONAL PROGRAM OUTCOMES MAP Core Courses Mapped to Program Outcomes

Academic Unit: Speed School of Engineering

Program Name: PhD in Translational Bioengineering

Chairperson: Ayman El-Baz

Form completed by: Patricia Soucy

This program has a program-specific accreditation curriculum map: oxtimes NO | oxtimes YES | oxtimes N/A

	OUTCOME								
	#1 Competency R	#2 Competency Related to			#3 Competency Related to				
	Knowledge: Students will be all evaluate the literal of Bioengineering synthesize that informanner that representations.	nowledge: udents will be able to critically raluate the literature in the field Bioengineering and be able to nthesize that information in a anner that represents a ultidisciplinary perspective		ent in Rese will demons their indep n Translatio ering throu on of resea , testable es, and oral ommunication	arch: strate the pendent onal ugh the rch	Professional Practice/Experience: Students will author scholarly work for dissemination at professional conferences and in publication in a peer-reviewed journal.			
CORE COURSES: Courses that all students are required to take.									
COURSE 1: BE 601 Bioengineering Seminar	I/E	P	N/A			I/E	P		
COURSE 2: BE 621 Bioinstrumentation	I/E	P	I/E	Р	A	N/A			
COURSE 3: BE 654	I/E	Р	N/A			I/E	Р		

Resources: louisville.edu/oapa/ie

For assistance, contact: brit.thompson@louisville.edu - or - 852.3950



Advanced Physiology for									
Engineers									
COURSE 4:	I/E	Р	А	I/E	Р	Α	I/E		Р
BE 695									
Bioengineering									
Research Design &									
Methods									
COURSE 5:	I/E			N/A			N/A		
ME 565									
Advanced									
Engineering									
Mathematics I									
COURSE 6:	N/A			N/A			I/E		
BE 603									
Bioengineering									
Research Ethics								_	
COURSE 7a:	N/A			N/A			I/E	Р	Α
BE 668:									
Bioengineering									
Teaching Practicum	21/2			21/2				_	
COURSE 7b:	N/A			N/A			I/E	Р	Α
BE 692:									
Bioengineering									
Clinical Rotation									

<sup>\*\*</sup> If you need additional rows, please hover your cursor over the left edge of this box and click the '+' button

LEGEND: I/E Introduced and/or Emphasized P Practiced A Assessed

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## **DEFINITIONS:**

[I and/or E] Introduced and/or Emphasized: learning outcome is explored in more profound depth (e.g. concepts have already been introduced, reinforced, and practiced in previous curriculum from undergraduate degree, but here they are working on it at a more complex level)

[P]: Practiced: application of learning outcomes via measurable activity are assessed to determine whether students have successfully achieved competency related to learning outcomes (e.g. exams; papers; projects)

[A] Assessed: students have achieved mastery of learning outcome as demonstrated through major culminating project (e.g. final exam, thesis or dissertation, practicum, recital, clinical experience, final presentation, internship, professional development experience, student-teaching experience, etc.) TIP: review courses in SLO reports

## **Resources:**

**Course Catalog - Graduate** 

Course Catalog - Professional

Office of Institutional Effectiveness | Curriculum Mapping Template 2022

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