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

Academic Unit: Speed School of Engineering
Program Name: Analytics for Decision Making Graduate Certificate
Chairperson: Dr. Pratik Parikh
Form completed by: Dr. Lihui Bai
This program has a program-specific accreditation curriculum map: ☒ NO | ☐ YES | ☐ N/A

OUTCOME		
#1 Competency Related to Content Knowledge: Be able to collect, process, and analyze data; be able to develop proper prescriptive and predictive models to help decision making; O #1 here.	**#2 Competency Related to Engagement in Research:** Be able to inform and make recommendations to decision makers by incorporating prescriptive and predictive methods. In other words, be able to infer modeling results and turn them into tangible insights to assist decision-making.	**#3 Competency Related to Professional Practice/Experience:** Paste SLO#3 here.
CORE COURSES: Courses that all students are required to take.		
COURSE 1: IE662: Predictive Analytics for Decision Making I I/F – Introduction through lectures, emphasized through homework assignments and projects P – Practiced through homework assignments and project A – Assessed through homework assignments and project	IE662: Predictive Analytics for Decision Making I P – Practiced through homework assignments and project A – Assessed through homework assignments and project	
COURSE 2:		
COURSE 3:		
COURSE 4:		

Resources: louisville.edu/oapa/ie
For assistance, contact: theo.barthes@louisville.edu - or - 852.3950

COURSE 5:			
COURSE 6:			
COURSE 7:			
COURSE 8:			
COURSE 9:			
COURSE 10**:			

** 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

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 Catalogs

Training Materials