In the table(s) below, provide information about similar programs based on CIP codes. Institutions may list other programs that are similar but may be classified in a different CIP code. A search for similar programs by CIP can be conducted at https://dataportal.cpe.ky.gov/KYAcademicProgInventory.aspx. Please contact the Program Approval and Review Coordinator, <a href="https://leslie.les

Copy the table below as needed to address all similar programs.

Note: Although this information is required by CPE for degree programs, certificate programs should also complete this table so that they can better consider how competition will effect enrollment projections.

Similar Program 1:	
Institution:	University of Louisville, Speed School of Engineering
Program Name:	Data Science (DS) Certificate
Comparison of Objectives/Focus/Curriculum to Similar Programs: <i>Explain the differences in</i> <i>curriculum, focus, and/or objectives. If the</i> <i>proposed program curriculum does not differ</i> <i>substantially from existing programs, then</i> <u>describe potential collaborations with other</u> <i>institutions.</i>	The DS certificate aims to Expand students' knowledge in important data science areas like data mining, artificial intelligence, big data, and more. The certificate produces essential credentials to help advance a student's career as a data scientist.
	The proposed ADM certificate focuses on training students with an increased ability to utilize analytics in <u>decision-making</u> for a variety of organizations. Unique Industrial Engineering courses such as Operations Research and Simulation make this distinctive training possible.
	Additionally, the core course in the proposed ADM certificate IE 662 "Predictive Analytics for Decision Making I" has content that can be found in several courses in the DS certificate. However, we purposely designed IE 662 to cover a broad range of topics (with focus on application, and less theory) to allow our students to be able to identify the appropriate methods and employ them to aid 'decision making.' With this course, students would get the most important concepts of predictive analytics and decision making within a single course.
	In summary, the proposed certificate focuses on training student's ability to utilize analytics tools to assist decision making through systematic courses with the Industrial

	Engineering domain.
Comparison of Student Populations: Describe	The intended audience for this certificate
how your target student population is different	program is our current students in the
from those at other institutions and explain how	Department of Industrial Engineering, as well as
your program reaches this new population (e.g.	working professionals (e.g., project manager.
the proposed program is completely online while	operations manager) who use data-driven
other programs are face-to-face or hybrid).	approaches to enable decision making at
	various levels in their organization. Our
	program will be offered to both in-residence
	students as well as online
	The student population for the existing DS
	certificate either currently holds or will hold
	positions such as data scientist and data
	analyst
Access to Existing Programs: Explain how/why	The students in our program will also acquire
existing programs cannot reach your target	skills in operations research decision support
population and/or provide evidence that existing	system and simulation. The target audience is
programs do not have the capacity to meet	different than those students who are only
current student demand (e a the number of	interested in data science, which is the focus of
students on enrollment waiting list)	the DS certificate
Feedback from Other Institutions: Summarize	N/A
the feedback from colleagues at institutions with	
similar programs	
Similar Program 2:	
Institution:	University of Louisville, College of Business
	, , , ,
Program Name:	Managerial Analytics (MA) Certificate
Comparison of Objectives/Focus/Curriculum to	The MA certificate aims to increase students'
Similar Programs: Explain the differences in	functional knowledge in data analytics as it
curriculum, focus, and/or objectives. If the	applies to business management. These include
proposed program curriculum does not differ	areas such as finance and forecasting, price
substantially from existing programs, then	optimization, customer acquisition, computer
describe potential collaborations with other	information systems, web page analysis
institutions	operations management inventory planning
	and more. The certificate also focuses on
	students' ability to communicate analysis and
	results through data visualization and data
	ston/tolling
	storytening.
	The proposed ADM certificate focuses on
	training students with an increased ability to
	utilize analytics in decision-making for a variety
	of organizations. Industrial Engineering courses

	such as Operations Research and Simulation set
	us apart from the MA certificate.
	Additionally, the core course in the proposed
	ADM certificate IE 662 "Predictive Analytics for
	Decision Making I" has content that can be
	found in several courses in the DS certificate.
	However, we purposely designed IF 662 to
	cover a broad range of tonics (with focus on
	application and less theory) to allow our
	students to be able to identify the appropriate
	methods and employ them to aid 'decision
	making ' With this course students would get
	the most important concents of predictive
	analytics and decision making within a single
	course
	In summary, the proposed certificate focuses
	on training student's ability to utilize analytics
	tools to assist decision making through
	systematic courses with the Industrial
	Engineering domain.
Comparison of Student Populations: Describe	The intended audience for this certificate
how your target student population is different	program is our current students in the
from those at other institutions and explain how	Department of Industrial Engineering, as well as
your program reaches this new population (e.g.	working professionals (e.g., quality manager.
the proposed program is completely online while	industrial engineer, production engineer) who
other programs are face-to-face or hybrid).	use engineering-based data-driven approaches
	in their organizations' operational and business
	decisions. We expect all students to possess
	technical backgrounds to succeed in
	engineering courses
	engineering courses.
	The student population for the MA certificate
	are those in various business functions in an
	organization.
Access to Existing Programs: Explain how/why	The students in our program will also acquire
existing programs cannot reach your target	skills in operations research, decision support
population and/or provide evidence that existing	system, and simulation. The target audience is
programs do not have the capacity to meet	different than those students who are only
current student demand (e.g. the number of	interested in business analytics, the focus of
students on enrollment waiting list).	the MA certificate.
Feedback from Other Institutions: Summarize	N/A
the feedback from colleagues at institutions with	
similar programs.	