

ROBERT M. SMITH

INTERIM EXECUTIVE DIRECTOR

BILL LEE GOVERNOR

STATE OF TENNESSEE

HIGHER EDUCATION COMMISSION STUDENT ASSISTANCE CORPORATION

312 ROSA L. PARKS AVENUE, 9TH FLOOR NASHVILLE, TENNESSEE 37243 (615) 741-3605

TO: Bernie Savarese, Acting Vice President of Academic Affairs and Student Success

University of Tennessee System

FROM: Julie A. Roberts, Chief Academic Officer

Tennessee Higher Education Commission

SUBJECT: University of Tennessee, Knoxville

Letter of Notification: Bachelor of Science in Applied Artificial Intelligence, BSAAI

DATE: September 6, 2023

Thank you for the submission of the Letter of Notification (LON) for the Applied Artificial Intelligence, Bachelor of Science (BSAAI) program. Per THEC Policy A1.0 New Academic Programs: Approval Process, the LON is evaluated on the following criteria: alignment with state master plan and institutional mission; feasibility; institutional capacity to deliver the proposed academic program; and program costs and revenues.

After reviewing the revised LON, I approve University of Tennessee, Knoxville's (UTK) plan to develop the New Academic Program Proposal (NAPP) for the Applied Artificial Intelligence, Bachelor of Science (BSAAI). As UTK continues to develop the proposed program, all concerns italicized in the attached LON evaluation must be reflected in the NAPP. It is understood the proposed program will be developed in accordance with the mission of UTK and will meet the Master Plan for Tennessee Postsecondary Education 2015-2025 degree completion and workforce development objectives.

Attachment

cc: Randy Boyd, UT System, President
Robert M. Smith, THEC, Executive Director
Donde Plowman, UTK, Chancellor
John Zomchick, UTK, Provost
Karen Etzkorn, UT System, Director of Academic Affairs
Xiaopeng Zhao, UTK, Program Director, College of Emerging and Collaborative Studies
Ryan Korstange, THEC, Director of Academic Affairs

Tennessee Higher Education Commission Letter of Notification Evaluation September 6, 2023



The evaluation of the Letter of Notification (LON) is in accordance with the THEC Policy A1.0 New Academic Programs: Approval Process. The evaluation is conducted by interested parties and THEC staff. The LON is posted on the THEC website for a 15-day period of comment by interested parties. Based on the internal and external evaluation, THEC will make a determination to support, not to support, or defer a decision based on a revised LON.

Institution: University of Tennessee, Knoxville **LON Submission Date:** August 7, 2023

Academic Program, Degree Designation: Applied Artificial Intelligence, BSAAI

Concentration(s): N/A

Proposed CIP Code and Title: 11.0102

Proposed Implementation Date: August 2024

Time Period Posted on Website for Public Comment: August 8, 2023 – August 22, 2023

Academic Program Liaison(s):

Karen Etzkorn, Director of Academic Affairs

University of Tennessee System Phone number: 865-974-2140 Email: etzkorn@tennessee.edu

Xiaopeng Zhao, Program Director

College of Emerging and Collaborative Studies

University of Tennessee, Knoxville Phone number: 865-974-7682

Email: xzhao9@utk.edu

Note: Comments in italics within this document should be addressed in the NAPP.

Letter of support from President/Chancellor	•	A signed letter of support written by Bernie Savarese, dated August 3, 2023 was included in the proposal. A campus letter of support was received from John Zomchick, Provost and Senior Vice Chancellor, on July 29, 2023.
Section II: Background		
Background on academic program development		Several industry reports from 2023 point to significant growth in Artificial Intelligence (AI) prompted the College of Emerging and Collaborative Studies (CECS) at the University of Tennessee, Knoxville (UTK) to propose an Applied Artificial Intelligence (AAI) program that would meet the projected demand for skilled professionals in this emerging area. Reports include:

- the Organization for Economic Cooperation and Development (OECD) Employment Outlook,
- o the World Economic Forum Future of Jobs Report,
- LinkedIn's AI in the IT Job Market report,
- o Indeed & Glassdoor's Hiring and Workplace Trends Report,
- The World Economic Forum's Future of Jobs Report indicated that 75 percent of the surveyed companies would adopt some form of Al in the next five years.
- LinkedIn's AI in the IT job market report noted a possible increase
 of efficiency with the automation of repetitive tasks. It also noted a
 potential risk of upskilling and reskilling to keep pace with
 changing technology.
- Indeed & Glassdoor's key trends in the job market report indicated
 Al related jobs had a 20 percent increase in May 2023.
- The US Department of Education AI report shows an increase in employing AI in education and indicating its potential to revolutionize education through enhanced learning, teaching, assessment, research, and development.
- Indeed & Glassdoor's 2023 Hiring and Workplace Trends Report indicated a 20 percent surge in Al jobs across the United States in May of this year. This surge is also reflected in Tennessee, The Bureau of Labor Statistics projects a growth rate of 3.3 percent for positions such as computer and information research scientists, including Al specialists, in Tennessee for 2022.

Purpose and nature of academic program

- The proposed program is designed to provide training in foundational AI concepts, data sources, and tools across multiple disciplines. The program will also provide instruction in methods and components of AI solutions. This training will be less technical and more streamlined than a computer science degree.
- The proposed AAI program will be 120 credit hours and will be delivered in a hybrid format.
- The target audience of the proposed program includes students interested in a career in AI and students who are still determining their ideal career path.
- The proposed program will also attract community college students that want to elevate their academic and professional portfolios with a degree from a r-year institution.
- The proposed program will exist within a rich, collaborative environment, allowing students to delve into various applications of AI and related technologies across diverse fields such as design, music, social sciences, natural sciences, business, and communications. The goal is to produce graduates with a blend of technical prowess and interdisciplinary acumen who are well equipped to influence the emerging workplace applications of AI.

	•	Program outcomes listed in the LON depict a student that will have		
		the skills to navigate and excel in the Al landscape. Specific		
		outcomes are listed on page 11 of the LON.		
Alignment with State	•	The proposed program aligns with market needs outlined in the		
Master Plan and		State Master Plan Update by responding to a growth in Al-related		
Institutional Mission		jobs and the need to "interact with artificial intelligence using		
		critical thinking, data analysis, and diverse communication skills		
		rather than simply rely on artificial intelligence to complete a		
		variety of tasks" (p. 35).		
	•	This program also aligns with a strategic mission from the THEC		
		State Master Plan. to develop graduates who are technically skilled,		
		ethically aware, and socially responsible by providing		
		interdisciplinary instruction, emphasizing technical skills and		
		broader competencies, and offering a foundational understanding		
		of AI. Taken together, this program fulfills THEC's aim of supporting		
		workforce development.		
	-	The proposed program aligns with UTK's mission profile by providing forward-looking and innovative academic offerings,		
		reflecting the institutions commitment to stay at the forefront of		
		technology and innovation.		
		The proposed program is structured around hands-on and real-		
		world experiences, which will further UTK's strategic partnerships		
		and innovative research.		
	•	Further, given the high demand for AI professionals, many		
		graduates will remain in Tennessee after graduation, fulfilling UTK's		
		mission to give back to the state through its alumni.		
Institutional capacity to	•	The program is supported by the CECS at multiple levels:		
deliver the proposed		o The Program Directors and Program Coordinators will oversee		
academic program		the curriculum and enrollment, course scheduling,		
		assessment, accreditation, capstone, and research course		
		contents.		
		 The CECS Director of Marketing will oversee advertising, 		
		outreach, and prospective student recruitment.		
		The CECS Director of Advising will oversee the advising of all		
		CECS majors in their degree program operations.		
		The Director of Partnerships and Economic Development will		
		also engage campus, community, and industry partners to support experiential learning in the program, fostering		
		pathways to student employment.		
Existing programs	•	No universities utilize CIP code 11.0102 in Tennessee. However,		
offered at public and	_	several universities offer undergraduate degrees in computer		
private Tennessee		science or data science with a concentration in AI (CIP code		
institutions		11.0701). Please provide more information about each of these		
		programs, including the name of the degree and concentration,		
		and the number of degrees awarded for the last three years.		
		 Middle Tennessee State University 		
	1	,		

		1		
		 East Tennessee State University 		
		 Tennessee State University 		
		 Tennessee Technological University 		
		 University of Memphis 		
		 Vanderbilt University 		
		o Belmont University		
		 Lee University 		
		 Christian Brothers University 		
		o Rhodes College		
	-	UTK offers a certificate in Artificial Intelligence and Machine		
		Learning with approximately 10 degrees awarded over the past		
		three years.		
Accreditation		The proposed program will obtain Data Science Council of America		
		(DASCA) accreditation to initiate accreditation with the Artificial		
		Intelligence Board of America (ARTIBA). Appendix B (pg. 40) of the		
		LON has a timeline for this accreditation.		
		The program will require a substantive change request be		
		submitted to SACSCOC.		
Administrative		The AAI major will be housed in the College of Emerging and		
Structure		Collaborative Studies at the University of Tennessee, Knoxville. The		
5		organizational chart is presented on page 17 of the LON.		
Section III: Feasibility Stud	dv	organizational charets presented on page 17 of the 2011.		
Student interest	•	UTK distributed an online survey to 3,716 undergraduates in the		
Stadent meerest		,		
Student interest		Tickle College of Engineering with 526 respondents. approximately		
Statent interest		Tickle College of Engineering with 526 respondents. approximately 34 percent (178 respondents) indicated that they would have been		
Statent interest		Tickle College of Engineering with 526 respondents. approximately 34 percent (178 respondents) indicated that they would have been extremely interested in the proposed program, had it been		
	_	Tickle College of Engineering with 526 respondents. approximately 34 percent (178 respondents) indicated that they would have been extremely interested in the proposed program, had it been available when they selected their major.		
		Tickle College of Engineering with 526 respondents. approximately 34 percent (178 respondents) indicated that they would have been extremely interested in the proposed program, had it been available when they selected their major. Additionally, 41 percent of respondents (213 students), expressed		
	•	Tickle College of Engineering with 526 respondents. approximately 34 percent (178 respondents) indicated that they would have been extremely interested in the proposed program, had it been available when they selected their major. Additionally, 41 percent of respondents (213 students), expressed extreme interest in pursuing a human-robot interaction		
		Tickle College of Engineering with 526 respondents. approximately 34 percent (178 respondents) indicated that they would have been extremely interested in the proposed program, had it been available when they selected their major. Additionally, 41 percent of respondents (213 students), expressed extreme interest in pursuing a human-robot interaction concentration or major.		
		Tickle College of Engineering with 526 respondents. approximately 34 percent (178 respondents) indicated that they would have been extremely interested in the proposed program, had it been available when they selected their major. Additionally, 41 percent of respondents (213 students), expressed extreme interest in pursuing a human-robot interaction concentration or major. Finally, 26 percent of the respondents (132 students) indicated that		
		Tickle College of Engineering with 526 respondents. approximately 34 percent (178 respondents) indicated that they would have been extremely interested in the proposed program, had it been available when they selected their major. Additionally, 41 percent of respondents (213 students), expressed extreme interest in pursuing a human-robot interaction concentration or major. Finally, 26 percent of the respondents (132 students) indicated that they would have selected a concentration or major in Al for		
	•	Tickle College of Engineering with 526 respondents. approximately 34 percent (178 respondents) indicated that they would have been extremely interested in the proposed program, had it been available when they selected their major. Additionally, 41 percent of respondents (213 students), expressed extreme interest in pursuing a human-robot interaction concentration or major. Finally, 26 percent of the respondents (132 students) indicated that they would have selected a concentration or major in Al for cybersecurity.		
Local and Regional		Tickle College of Engineering with 526 respondents. approximately 34 percent (178 respondents) indicated that they would have been extremely interested in the proposed program, had it been available when they selected their major. Additionally, 41 percent of respondents (213 students), expressed extreme interest in pursuing a human-robot interaction concentration or major. Finally, 26 percent of the respondents (132 students) indicated that they would have selected a concentration or major in Al for cybersecurity. An analysis by Lightcast projects the regional (Tennessee and		
	•	Tickle College of Engineering with 526 respondents. approximately 34 percent (178 respondents) indicated that they would have been extremely interested in the proposed program, had it been available when they selected their major. Additionally, 41 percent of respondents (213 students), expressed extreme interest in pursuing a human-robot interaction concentration or major. Finally, 26 percent of the respondents (132 students) indicated that they would have selected a concentration or major in Al for cybersecurity. An analysis by Lightcast projects the regional (Tennessee and neighboring states) trends for target occupations from the		
Local and Regional	•	Tickle College of Engineering with 526 respondents. approximately 34 percent (178 respondents) indicated that they would have been extremely interested in the proposed program, had it been available when they selected their major. Additionally, 41 percent of respondents (213 students), expressed extreme interest in pursuing a human-robot interaction concentration or major. Finally, 26 percent of the respondents (132 students) indicated that they would have selected a concentration or major in Al for cybersecurity. An analysis by Lightcast projects the regional (Tennessee and neighboring states) trends for target occupations from the proposed degree to increase by 16 percent in the region from		
Local and Regional	•	Tickle College of Engineering with 526 respondents. approximately 34 percent (178 respondents) indicated that they would have been extremely interested in the proposed program, had it been available when they selected their major. Additionally, 41 percent of respondents (213 students), expressed extreme interest in pursuing a human-robot interaction concentration or major. Finally, 26 percent of the respondents (132 students) indicated that they would have selected a concentration or major in Al for cybersecurity. An analysis by Lightcast projects the regional (Tennessee and neighboring states) trends for target occupations from the proposed degree to increase by 16 percent in the region from 2022-2027. This equates to an increase of approximately 55,000		
Local and Regional	•	Tickle College of Engineering with 526 respondents. approximately 34 percent (178 respondents) indicated that they would have been extremely interested in the proposed program, had it been available when they selected their major. Additionally, 41 percent of respondents (213 students), expressed extreme interest in pursuing a human-robot interaction concentration or major. Finally, 26 percent of the respondents (132 students) indicated that they would have selected a concentration or major in Al for cybersecurity. An analysis by Lightcast projects the regional (Tennessee and neighboring states) trends for target occupations from the proposed degree to increase by 16 percent in the region from 2022-2027. This equates to an increase of approximately 55,000 jobs. <i>Please provide additional information on local demand for</i>		
Local and Regional Demand	•	Tickle College of Engineering with 526 respondents. approximately 34 percent (178 respondents) indicated that they would have been extremely interested in the proposed program, had it been available when they selected their major. Additionally, 41 percent of respondents (213 students), expressed extreme interest in pursuing a human-robot interaction concentration or major. Finally, 26 percent of the respondents (132 students) indicated that they would have selected a concentration or major in Al for cybersecurity. An analysis by Lightcast projects the regional (Tennessee and neighboring states) trends for target occupations from the proposed degree to increase by 16 percent in the region from 2022-2027. This equates to an increase of approximately 55,000 jobs. <i>Please provide additional information on local demand for the proposed program.</i>		
Local and Regional	•	Tickle College of Engineering with 526 respondents. approximately 34 percent (178 respondents) indicated that they would have been extremely interested in the proposed program, had it been available when they selected their major. Additionally, 41 percent of respondents (213 students), expressed extreme interest in pursuing a human-robot interaction concentration or major. Finally, 26 percent of the respondents (132 students) indicated that they would have selected a concentration or major in AI for cybersecurity. An analysis by Lightcast projects the regional (Tennessee and neighboring states) trends for target occupations from the proposed degree to increase by 16 percent in the region from 2022-2027. This equates to an increase of approximately 55,000 jobs. <i>Please provide additional information on local demand for the proposed program.</i> According to an analysis conducted by Lightcast for UTK, there		
Local and Regional Demand	•	Tickle College of Engineering with 526 respondents. approximately 34 percent (178 respondents) indicated that they would have been extremely interested in the proposed program, had it been available when they selected their major. Additionally, 41 percent of respondents (213 students), expressed extreme interest in pursuing a human-robot interaction concentration or major. Finally, 26 percent of the respondents (132 students) indicated that they would have selected a concentration or major in Al for cybersecurity. An analysis by Lightcast projects the regional (Tennessee and neighboring states) trends for target occupations from the proposed degree to increase by 16 percent in the region from 2022-2027. This equates to an increase of approximately 55,000 jobs. <i>Please provide additional information on local demand for the proposed program.</i> According to an analysis conducted by Lightcast for UTK, there were 201,513 total job postings for employees with skills trained in		
Local and Regional Demand	•	Tickle College of Engineering with 526 respondents. approximately 34 percent (178 respondents) indicated that they would have been extremely interested in the proposed program, had it been available when they selected their major. Additionally, 41 percent of respondents (213 students), expressed extreme interest in pursuing a human-robot interaction concentration or major. Finally, 26 percent of the respondents (132 students) indicated that they would have selected a concentration or major in Al for cybersecurity. An analysis by Lightcast projects the regional (Tennessee and neighboring states) trends for target occupations from the proposed degree to increase by 16 percent in the region from 2022-2027. This equates to an increase of approximately 55,000 jobs. <i>Please provide additional information on local demand for the proposed program.</i> According to an analysis conducted by Lightcast for UTK, there were 201,513 total job postings for employees with skills trained in this program were listed from July 2022 to June 2023 in the		
Local and Regional Demand		Tickle College of Engineering with 526 respondents. approximately 34 percent (178 respondents) indicated that they would have been extremely interested in the proposed program, had it been available when they selected their major. Additionally, 41 percent of respondents (213 students), expressed extreme interest in pursuing a human-robot interaction concentration or major. Finally, 26 percent of the respondents (132 students) indicated that they would have selected a concentration or major in Al for cybersecurity. An analysis by Lightcast projects the regional (Tennessee and neighboring states) trends for target occupations from the proposed degree to increase by 16 percent in the region from 2022-2027. This equates to an increase of approximately 55,000 jobs. <i>Please provide additional information on local demand for the proposed program.</i> According to an analysis conducted by Lightcast for UTK, there were 201,513 total job postings for employees with skills trained in this program were listed from July 2022 to June 2023 in the Southeast Region, of which 124,375 were unique.		
Local and Regional Demand	•	Tickle College of Engineering with 526 respondents. approximately 34 percent (178 respondents) indicated that they would have been extremely interested in the proposed program, had it been available when they selected their major. Additionally, 41 percent of respondents (213 students), expressed extreme interest in pursuing a human-robot interaction concentration or major. Finally, 26 percent of the respondents (132 students) indicated that they would have selected a concentration or major in Al for cybersecurity. An analysis by Lightcast projects the regional (Tennessee and neighboring states) trends for target occupations from the proposed degree to increase by 16 percent in the region from 2022-2027. This equates to an increase of approximately 55,000 jobs. <i>Please provide additional information on local demand for the proposed program.</i> According to an analysis conducted by Lightcast for UTK, there were 201,513 total job postings for employees with skills trained in this program were listed from July 2022 to June 2023 in the		

	T					
	_	cast also predicte		•		
		ered design skills		_		
		ected at more than	•	r this region a	nd more than	
Community and	_	ercent for the nati		:	n rovido	
Community and Industry Partnerships		ers of industry sup	•	•	•	
industry Partnerships	internships, sponsor capstone projects, and hire graduates. Letters					
	were received from multiple organizations including: o Reelay					
		onix Energy				
		RobotLAB				
	0 N	lellOne				
	o P	hilips				
	Atmosera					
		oroposed program		•	•	
		ners like Oak Ridge		-		
		r companies for a Tenhats	dditional letters	s of support ir	iciuaing:	
		iO Urology				
		Amazon				
		Endeavor				
Section IV: Enrollment and	d Graduat	ion Projections				
Projected Enrollment	Year	Academic Year	Projected	Projected	Projected	
and Graduates			Total Fall	Attrition	Graduates	
			Enrollment			
	1	2024-2025	15	2		
	2	2025-2026	25	3		
	3	2026-2027	35	4		
	5	2027-2028	50	5	10	
		2028-2029 proposed program	l .	L T	17	
		s per semester an	•		on in 15 credit	
		llment figures are	•	-	percent first-	
		retention rate.		. 0		
Section V: Projected Costs	to Delive	r Proposed Progi	ram			
Faculty		new lecturer will b		. •		
		18,800 (salary + b		-	•	
	instructional costs described in the LON do not match those in the					
21 12 55		ncial projections f	•		1	
Non-Instructional Staff		rly undergraduate	•		•	
	of grading at \$20/hour. One grader will be hired in year 1, increasing to four in year 4. <i>The cost description does not match</i>					
	that in the financial projections form, please reconcile or provide					
		tional explanation				
		ections form.	,		- ,	
Graduate Assistants		raduate assistants	s indicated at th	nis time.		

		Fatingated aggreditation pasts for DCCA is \$24,000 and ADTIDA Is		
A coup ditation	•	Estimated accreditation costs for DSCA is \$21,900 and ARTIBA Is		
Accreditation		\$15,900. These costs are incurred in program years 4-5.		
Consultants	•	A one-time external reviewer cost of \$1500.		
_	•	No additional costs associated with equipment needed for this		
Equipment		program.		
	•	No additional costs associated with information technology are		
Information Technology		needed for this program.		
	•	No additional costs associated with library resources are needed		
Library Resources		for this program.		
Marketing	•	Marketing expenses will amount to \$500 per year		
Facilities	•	No additional costs are anticipated for facilities.		
Travel	•	No travel expenses are specifically associated with this program.		
Other Resources	•	No additional resources will be needed to support the program.		
Section VI: Projected Reve	nue	es for the Proposed Program		
	•	The program expects to generate \$47,682 in tuition revenue in year		
		1, increasing to \$467,282 in year 5. Revenue is calculated as \$378		
		per SCH for Tennessee residents and \$759 per SCH for non-		
		residents. The program is anticipating that 20 percent of enrolled		
Tuition		students have non-resident status.		
Grants	•	N/A		
Other	•	N/A		
Appendices				
	•	Letters of support were received and attached in Appendix A of the		
		LON from:		
		 Bill Malkes, CEO, NellOne Therapeutics Inc. 		
		o Don DeRosa, CEO, Eonix		
		 Deric Frost, CEO & Founder, Reelay Meetings, Inc. 		
		 Soheil Borhami, Scientist, Philips Research 		
		 Jeffrey Prosise, Chief Artificial Intelligence Officer, 		
		Atmosera		
		 Cedric Vaudel, Vice President of Sales at RobotLAB 		
Letters of Support		Group		
THEC Financial				
Projections Form	-	Financial projections provided in Appendix C.		
Public Comment				
	•	Public comments have been submitted by University of Memphis		
Public Comments		and attached as appendices. Please respond to any concerns in		
Received		these documents.		

From: Ladrica Menson-Furr (Imnsnfrr) < lmnsnfrr@memphis.edu>

Sent: Wednesday, August 9, 2023 4:12 PM

To: Carol Danehower (vdanehwr) <vdanehwr@memphis.edu>

Cc: Deborah Perron Tollefsen (dtollfsn) < dtollfsn@memphis.edu>; David J Russomanno (drussmnn)

<<u>drussmnn@memphis.edu</u>>; Abby L Parrill-Baker (aparrill) <<u>aparrill@memphis.edu</u>>

Subject: Re: Public Comment - UTK Applied Artificial Intelligence, BSAAI and Innovative Transdisciplinary

Studies (BS-ITS)

Good afternoon, Provost Russomanno, Dr. Danehower, and Dr. Tollefsen,

I have included Dr. Wang's comments on the proposal below. Please see the updated, copied information.

Kind regards,	
L. Menson-Furr	
<mark>Vasile Rus</mark>	

• There are some critical aspects about the program that are missing in the LON in order to understand what the program is about. What is the core of the new program? What exactly are the core courses (27 credits CECS core)? Course titles and short descriptions are needed. Is the structure of this program something like 'core + certificate(s)'? If so, aren't the certificates more like concentrations in a standard program? Once the core is specified it will be more clear what the new degree is about.

- Furthermore, it is not clear whether students getting this degree will have to declare the new degree as their major or not, i.e., will this be an additional major students from any other major can declare and pursue (double major)? The LON states 'For example, students from any major can choose a certificate in Artificial Intelligence offered by CECS.' Will the other major allow them to do that within the typical 120-hour program requirement?
- Figure 1 is supposed to help but it is not clear. Is it the proposed program the one shown in the middle in Figure 1 or the one on the right hand side of that figure? The one in the middle actually indicates more than 120 credit hours needed (96 + 27 + CECS Program Plan) which is confusing or it may just be an error.
- while the stated goal of 'CECS aims to reduce the redundancy of delivery of topics such as data science and artificial intelligence' seems appealing from a university efficiency perspective, there is the problem of 'one-size fits all' instructional strategy which leads to much less effective instruction. If students from all majors are taking the same course (which seems to be implied by the redundancy elimination argument) and the requirements of the course are the same for everyone, students from social sciences will systematically do worse than the engineering or math admitted students. That is, redundancy or offering same course to different audiences has its purpose which is to

- tailor instruction to students as much as it may be possible in a classroom/one-to-many environment. Indeed, redundant delivery of certain topics is justified by the fact that, for instance, an AI course for social sciences students should be taught differently from an AI course taught to engineers or math students.
- the LON should address in more depth and provide convincing arguments with respect to how students from various backgrounds/colleges/majors will be taking courses to meet the requirements of a stackable certificate, say, in Data Science or Artificial Intelligence. For instance, a student in engineering versus a student in social sciences will have very different backgrounds with respect to foundational skills required for doing well in the Data Science or Artificial Intelligence certificate. How will the new program address this challenge? Will this be addressed at admissions and how exactly? Or later and how exactly?
- details about admissions to this new program are critical and must be specified.
- cost estimates must be further detailed, e.g., with respect to new course development, director compensation, fellows compensation, etc.

Lan Wang

it's unclear how the number of courses offered and number of students in each class match their enrollment projection. More specifically, the proposal says "Five gateway courses taught in years 1 and 2, six in year 3, seven in year 4, and eight in year 5. Each course is assumed to have five students in year 1, incremented by one additional student per class up to nine students per class in year 5". But the projection has 50 students enrolled in the fifth year. So the question is why there are only up to nine students per class in year 5 for eight classes.

- it's unclear exactly how many lecturers and other instructional staff will be needed. The proposals says "Lecturers needed based on a 4/4 teaching load", eight courses will be offered in year 5, so it appears that one lecturer will be sufficient. And the salary will be \$90,000 annually for the lecturers. However, the budget for Faculty & Instructional Staff in year 5 is \$237,300. The proposal needs to explain exactly how many lecturers and other instructional staff will be needed each year and how the budget is calculated.

Ladrica Menson-Furr, Ph.D. Assistant Dean, College of Arts and Sciences Director, African and African American Studies Program Associate Professor of African American Literature

The University of Memphis 106 Scates Hall Memphis, TN 38152 (901) 678-1332