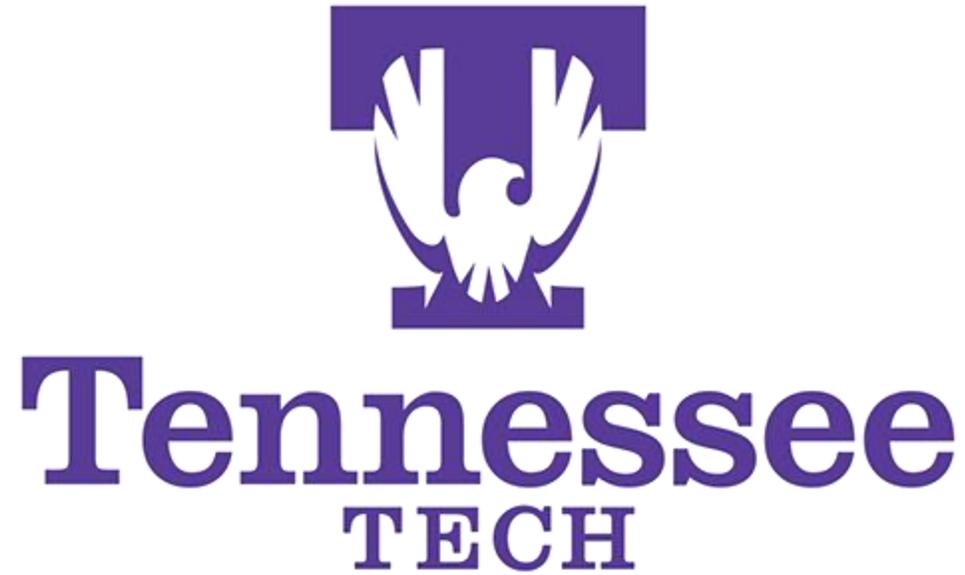


Presentation to Board of Trustees

April 30, 2025





BS in Interdisciplinary Computing (IC)

Presentation to Academic & Student Affairs Committee
Board of Trustees

April 30, 2025





Overview & Features of Program

- The BS in Interdisciplinary Computing (IC) will prepare students to apply the knowledge of computing, artificial intelligence, and data sciences to their chosen discipline.
- IC provides students with the expertise to “live” in the intersection of emerging industries and computer science.
- The National Science Foundation has long promoted the concept of **CS + X** with the **X** denoting a cognate area (a secondary field of specialization, such as agri-business, biology, journalism, etc).
- Graduates in this degree will lead organizations to discover new innovations in an ever-dynamic world.





Degree Requirements of Program

Degree requirements

- 41 credit hours of General Education Core
- 30 credit hours of Computing Core
- 18 credit hours of Intersectional Core (Teamwork, Communication, Conflict Resolution, Innovation, Entrepreneurship)
- 25 credit hours of Cognate area, including 10 credit hours of formal experiential learning
- 6 hours of elective courses

Potential Cognate Areas:

- Agri-Business
- Biology
- Criminal Justice
- Environmental Sciences
- Journalism
- Project Management

Each cognate area will have at least one faculty “Champion” to build support and courses for the program.





Need for Program

- The IC program addresses the need identified by the state's Higher Education Master Plan (entitled Enabling the Competitive Edge) which cites a need to *increase computer science and data analytics offerings*.
- The IC program creates a pathway for adult learners identified through Tennessee Reconnect to pursue computing degrees while also relying on knowledge gained from careers or past military service.
- The IC program addresses Governor Lee's Future Workforce Initiative to provide a direct response to the emerging technology industry making sure our students are first in line.
- The IC program addresses workforce initiatives by creating partnerships that engage industry leaders, workplace managers, and business executives.

External Support

"We believe the IC proposal has a clear intent to create new and strong pathways into computer science while broadening the availability of graduates to serve a wide variety of industries." *Don Viar, EPION*

"SAIC is interested in how the graduates can support our other business lines outside of Engineering, in particular healthcare." *Jill Moffit, SAIC*

"This is the right program at the right time, and TTU is the right school for it." *Glenn Platt, THEC's External Program Reviewer*





Targeted Student Population

Primary Audiences

- Traditional students seeking to integrate computing knowledge within a cognate discipline.
- Adult learners in the workforce and military veterans wanting to pursue computing degrees relying on knowledge gained from past service or workforce experience.
- Transfer students from community colleges who want to focus on the practical application of computing within a cognate discipline.





Enrollment Projections

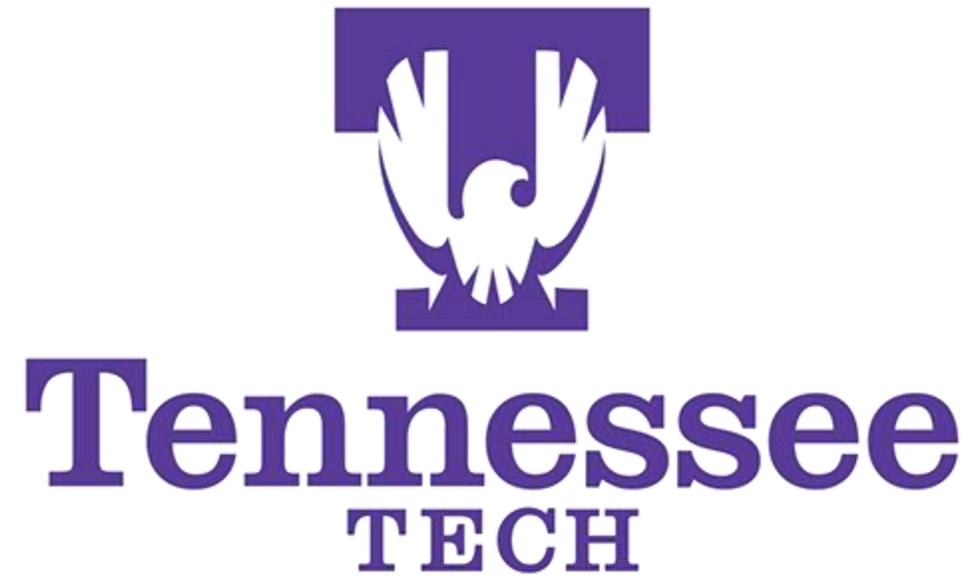
	Year 1	Year 2	Year 3	Year 4	Year 5
Enrollment (# of FTE Students)	10	15	20	30	40
Student Attrition	2	3	5	7	3
# of Graduates	-	-	0	7	12

Instructional Cost & Revenue Projections

- A Director/Coordinator will be hired to guide, recruit, and promote the program.
- Funding will be provided to hire and train cognate area Champions.
- 10 new courses will be developed for this program.
- Expenses shown below include faculty salary, benefits, and instructional support.

	Year 1	Year 2	Year 3	Year 4	Year 5
Expenses	\$241,350	\$247,526	\$255,842	\$261,801	\$274,118
Tuition/Fees	\$113,760	\$175,759	\$241,376	\$372,925	\$512,151





Maintenance (Tuition) and Mandatory Fees



Maintenance (Tuition) and Mandatory Fees Increase

- Mandatory factors to consider (T.C.A. 49-7-1603)
 - Level of state support
 - Total cost of attendance
 - Efforts to mitigate the financial effect on students



Maintenance (Tuition) and Mandatory Fees Increase

- Additional factors adopted by BOT to consider:
 - THEC mandatory tuition and fee ranges
 - 0% to 6.5% for FY 2025-2026
 - Comparison to peer institutions, competitor institutions, other LGIs
 - Other Tennessee schools have acted on or are considering between 2.5% and 5.5% increases
 - Higher Education Price Index
 - 3.4% for fiscal year July 2023-June 2024 (latest data)*
 - Consumer Price Index
 - 2.8% 12-month percent change, March 2025 (latest data)*

*Commonfund 2024 HEPI Data Released, December 2024

*U.S. Bureau of Labor Statistics



Comparison to Other Tennessee Schools

- Other LGIs
 - APSU voted 5% increase
 - ETSU proposed 4.98% increase
 - MTSU proposed 5.5% increase
 - UoM proposed 4-5% increase
 - TSU potential 6.5%
- TBR Community Colleges
 - Proposed 3.5% increase
- UT Campuses
 - Proposed UTK 0%, UTC & UTM 3% and UT Southern 2.5% increase



Proposed Maintenance and Mandatory Fee Increases

Proposed Increase in UG Maintenance (Tuition) and Mandatory Fees	4.83%
Maintenance Fees	4.80%
Mandatory Fees increase	5.05%

Proposed Increase in GR Maintenance (Tuition) and Mandatory Fees	5.01%
Maintenance Fees increase	5.00%
Mandatory Fees increase	5.05%



Impact on Full Time Students on Proposed Increases

UG Tuition Increase Comparison Full Time			
Fee Type	Current Amount	Increase per semester	New Amount
Undergraduate	\$4,995.00	\$240.00	\$5,235.00

GR Tuition Increase Comparison Full Time			
Fee Type	Current Amount	Increase	New Amount
Graduate	\$5,720.00	\$286.00	\$6,006.00

Program Service Fee Increase Comparison			
Fee Type	Current Amount	Increase	New Amount
Program Services Fee	\$693.00	\$35.00	\$728.00



Proposed Mandatory Fee Increase

- Program Services Fee proposed to increase from \$693 per semester to \$728 per semester.
 - Increase of 5.05% with a max of \$35 per semester
 - Facilities fee component proposed to increase from \$103 a semester to \$118 a semester
 - Fee will be used to help fund development of student-centric spaces
 - Student Activity fee component proposed to increase from \$48 a semester to \$68 a semester
 - Fee will be used for operational costs and renewal and replacement of equipment



Typical Net Costs to Students

Gross UG Tuition & Mandatory Fees (Freshman/Sophomores)	\$5,963
Presidential Scholarship	(2,000)
HOPE Scholarship	(2,250)
Full Pell Grant	(3,698)
Net Undergraduate Tuition & Mandatory Fees	\$(1,985)

Gross UG Tuition & Mandatory Fees (Juniors/Seniors)	\$5,963
Presidential Scholarship	(2,000)
HOPE Scholarship	(2,850)
Full Pell Grant	(3,698)
Net Undergraduate Tuition & Mandatory Fees	\$(2,585)



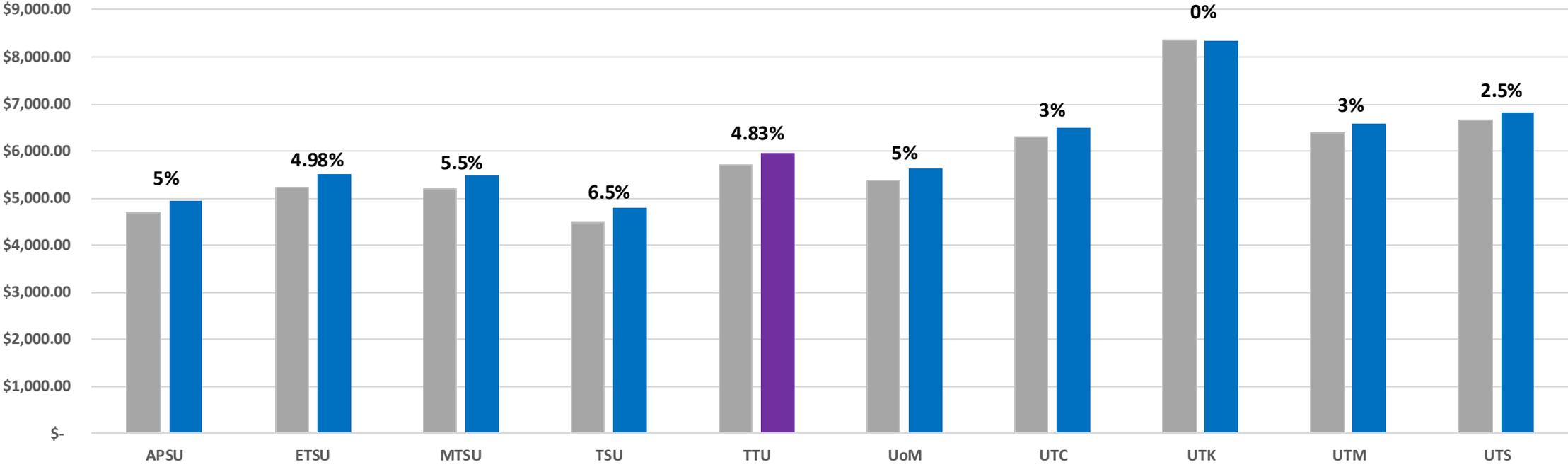
Impact on Students at Less Than Full Time

Undergraduate Tuition Impact Per Hour (Hours 1-11)	Mandatory Fee Impact Per Hour (Hours 1-6)
\$17	\$11

Graduate Tuition Impact Per Hour (Hours 1-10)	Tuition Impact Per Hour (Hours \geq 11)	Mandatory Fee Impact Per Hour (Hours 1-6)
\$27	\$8	\$11



Comparison of UG Maintenance (Tuition) & Mandatory Fees Tennessee Public Universities



■ AY 24 - 25 UG Tuition and Mandatory Fees

■ AY 25 - 26 UG Proposed/Approved Tuition and Mandatory Fees



Revenue Increase Estimates FY2025-26

<u>Increase</u>	<u>UG Tuition</u>	<u>GR Tuition</u>	<u>Total</u>
4.8%	3,784,638	-	3,784,638
5.0%	-	\$497,352	<u>\$ 497,352</u>
			\$4,281,990



TN Tech Estimated Cost Increases FY2025-26

Scholarships – State Mandated and Presidential Scholars Program	\$1,741,695
2.6% Salary Pool w/ Fringe Benefits	2,721,036
Faculty Promotions	300,000
Group Health Increases	762,600
Other Inflationary Costs	<u>2,098,300</u>
Total estimated cost increases	\$7,623,631
State Appropriation Increase for Operating Funding	\$3,117,300
Addressed with tuition increases	\$4,281,990
Balance to be addressed with other resources	\$224,341



