



Flight Plan Overview

Fall, 2013

8/2/2013

Outline



/hat is <i>Flight Plan</i> ?p. 3	•
TU Today: Where Are Our Gaps?p. 8	ı
riority Action Plansp. 1	9
esourcesp. 3	33
nplementation and Accountabilityp. 3	37
ext Stepsp. 4	18
ppendix A: Complete Implementation Plansp. 5	0
ppendix B: Select Comparative Chartsp. 1	20

WHAT IS FLIGHT PLAN?

Objectives



Flight Plan serves as a blueprint that guides Tennessee Tech's path forward.

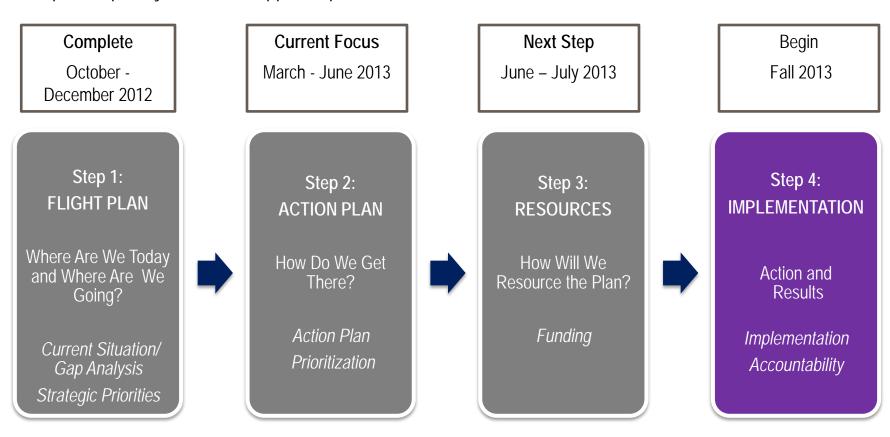
- Develop a process that engages stakeholders in the development of a long-term plan
- Complete a fact-driven review of Tennessee Tech's current state
 - Use data to compare Tennessee Tech to selected peers
 - Gather stakeholder perspectives through engagement and interviews
 - Identify the implications of external factors impacting TTU, including the Complete College Tennessee Act
- Determine strategic directions to position the University for continued success in the future
- Establish a process to turn directions into action

Outcome - Flight Plan will identify specific actions that advance Tennessee Tech. It will support a vision that builds on Tech's unique differentiators and enhances its value to the residents of the State of Tennessee.

Timeline



The Flight Plan first evaluated TTU's current situation and identify strategic priorities. Supporting action plans were developed for priority actions to support implementation in Fall 2013.



Stakeholder Engagement



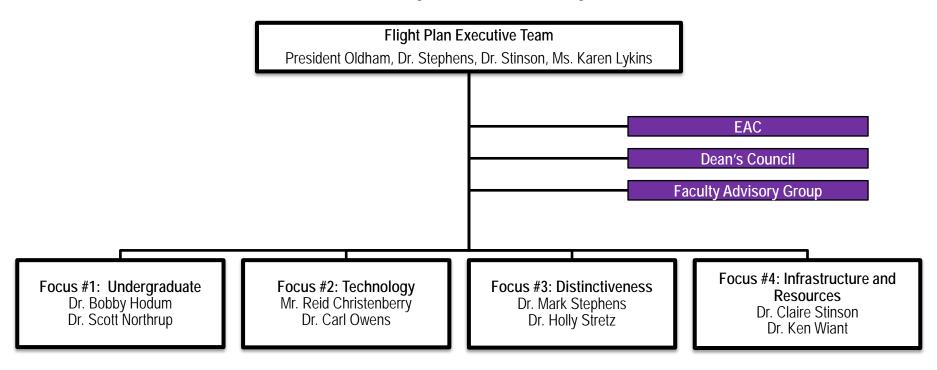
Faculty, staff and students were engaged in the *Flight Plan* process through multiple focus groups and feedback points. The following individuals comprised the original *Flight Plan* Steering Committee.

Member	Position
Dr. Susan Elkins	Vice President for Extended Programs and Regional Development
Mr. Lee Gatts	Student Government Association President
Dr. Melissa Geist	Associate Professor, Nursing
Dr. Robert Hodum	Associate Vice President for Enrollment Management and Student Success
Dr. Glenn James	Director of Institutional Research
Dr. David Larimore	Professor, Research Methods in Education
Ms. Karen Lykins	Associate Vice President for Communications & Marketing
Dr. Brian O'Connor	Faculty Senate President; Associate Professor, Mathematics
Dr. Carl Owens	Professor, Curriculum and Instruction
Dr. Joseph Rencis	Dean of Engineering, Clay N. Hixson Chair for Engineering Leadership, and Professor of Mechanical Engineering
Dr. Mark Stephens	Interim Provost, Vice President for Academic Affairs
Dr. Claire Stinson	Vice President for Business and Planning
Mr. Mark Wilson	Athletics Director

Action Plan Engagement



Nearly 50 faculty, staff and students are now actively engaged in the action plan process. Co-leaders representing academic and administrative areas have been assigned to lead each Flight Plan focus area.



TTU TODAY: WHERE ARE OUR GAPS?

Gap Analysis - Metrics



The Steering Committee identified 10 executive-level accountability metrics to include in a peer comparative analysis ("Gap analysis"). Six of the ten metrics align with Complete College Tennessee Act objectives.

Areas of Focus	Rationale	Metrics
Undergraduate Education	Core focus area aligned with missionAligns with state completion agenda	 ACT Score Range FTE Enrollment Bachelor's Degrees Conferred* Retention Rate (1st to 2nd Year)* Six-Year Graduation Rate*
Graduate Education	Continues to push Tech toward new directions	 Doctoral Degrees Conferred* Master's Degrees Conferred*
Research	Opportunities to enhance connection to industry and innovate	Total Research Expenditures/Full- time Tenured Faculty*
Financial Resources	Requirement to enable any strategic direction	 Operating Expenditures per Student FTE Endowment per Student FTE

^{*} Related or Similar to Complete College Tennessee Act Metrics

Gap Analysis – Peer Selection



The Committee agreed upon a set of selection of criteria to select peers for the gap analysis, while also allowing for additions to be made based on round-table discussions.

Initial Selection Criteria

- Enrollment size
- STFM focus
- Carnegie Classification
- Undergraduate to Graduate Student Ratio
- Academic / degree profile
- Level of urbanization
- Geographic Region
- Comprehensive university
- Public Institution



Selection Metrics (Used to Identify Candidate Peers)

- Comparable Undergraduate Enrollment (5,000 – 15,000
- Comparable Graduate Enrollment (500 5,000)
- % of Bachelor's Degrees in STEM Fields/Top Engineering Schools
- Carnegie Classification (Master's Large, Research High, Research Very High)
- Comparable Degree of Urbanization
- Southern Geography

Final Selection Round: Exceptions Based on Previous History

In addition to selecting *Flight Plan* peers, the other eight public universities in Tennessee were vetted for consideration; the Committee selected four of the eight to be included in a separate Gap Analysis.

Gap Analysis – Peer List



TTU established three peer groups for provide the ability to assess comparative performance on different levels. Gap analyses were prepared for the "National" and "Tennessee" peers.

Aspirational	National Peers	Tennessee Peers
Aspirational Examples/ Case Studies	National Gap Analysis	Tennessee Gap Analysis
All Metrics	Louisiana Tech	Univ. of Memphis
 Clemson University 	South Dakota State	■ East Tennessee State
Undergraduate	Murray State	■ Middle Tennessee State
– Miami University (Ohio)	■ New Mexico State	■ Univ. of Tennessee-
 James Madison 	■ Univ. of Alabama-Huntsville	Chattanooga
 Graduate and Research 	Univ. of Idaho	
SUNY-Binghamton	Univ. of Maine	
 Univ. of New Hampshire 	Appalachian State	

Gap Analysis – National Peers



Areas of Focus	Metrics	TTU	Comparative Group	TTU vs. Comparative Group
	ACT Score Range (75th/25th Percentile)	26/20	26/20	Equal
	FTE Enrollment	9,266	9,329	-63
Undergraduate Education	Bachelor's Degrees Conferred ¹	1,704	1,800	-96
Laddation	Retention Rate (1st to 2nd Year)	73%	77%	-4 Pts.
	Six-Year Graduation Rate	50%	54%	-4 Pts.
Graduate	Doctoral Degrees Conferred	18	41	-23
Education	Master's Degrees Conferred	347	552	-205
Research	Total Research Expenditures per Full-time Tenured Faculty Member	\$55K	\$156K	-\$101K
Financial	Operating Expenditures per Student FTE ²	\$11,402	\$15,222	-\$3,820
Resources	Endowment per Student FTE ³	\$5,844	\$8,057	-\$2,213

^{1.} Bachelor's Degrees Conferred is not published on TTU's Common Data Set. TTU's figure comes from Office of Institutional Research

^{2.} Operating expenditures includes instruction, academic support, student services, institutional support, operation of plant, and scholarships and fellowships

^{3.} US News Endowment Data

Gap Analysis – Tennessee Peers



Areas of Focus	Metrics	TTU	Comparative Group	TTU vs. Tennessee Group
	ACT Score Range (75th/25th Percentile)	26/20	25/20	+1/0
	FTE Enrollment	9,266	14,041	-4,775
Undergraduate Education	Bachelor's Degrees Conferred	1,696	2,574	-878
Laddation	Retention Rate (1st to 2nd Year)1	81%	79%	+2 Pts.
	Six-Year Graduation Rate ²	56%	49%	+7 Pts.
Graduate	Doctoral Degrees Conferred	18	73	-55
Education	Master's Degrees Conferred	347	725	-378
Research	Research and Service per Full-time Tenured Faculty Member (THEC Definition)	\$31K	\$60K	-\$29K
Financial	Operating Expenditures per Student FTE ³	\$11,402	\$15,098	-\$3,696
Resources	Endowment per Student FTE ⁴	\$5,844	\$7,571	-\$1,727

^{1.} Retention rate reflects the THEC definition and includes those students that were enrolled at either the admitting institution or another Tennessee public institution the following year.

^{2.} Six-year graduation rate reflects the THEC definition and includes those students who graduated from the admitting institution and/or another Tennessee Public university.

^{3.} Operating expenditures includes instruction, academic support, student services, institutional support, operation of plant, and scholarships and fellowships. UT- Chattanooga is not included in the average of the comparative group. FY2010 Data used as FY2011 was not available for all institutions.

^{4.} FY2011 US News endowment data and 2011 THEC Factbook enrollment data used.

Undergraduate Education





- Students expressed the advising model, registration/scheduling system, and bottleneck classes as opportunities for improvement.
- Academic advising is inconsistent with some, but not all, colleges providing strong advising services to their students.
- Retention and graduation rates have remained strong relative to Tennessee peers, but continues to lag behind *Flight Plan* and aspirational peers.

Technology CURRENT POSITION



- The demand for better services has been driven by the exponential increase in use of technology, including the number of mobile devices students bring to campus.
- Students have also detailed their desire to receive information via digital channels and perform university business processes through more convenient methods.
- Faculty and staff have acknowledged there is very little funding for ongoing experimentation or pilot projects in adopting leading-edge technology.
- Flight Plan identified the desire of faculty, staff, and students to expand emphasis on technologyforward experience into curriculum and the need for technology infrastructure to support research computing.

Distinctiveness

CURRENT POSITION



- Flight Plan identified the desire of faculty, staff, and students to expand emphasis on real-world problem solving into undergraduate curriculum by concentrating on co-curricular activities (study abroad, co-op learning, service learning, and undergraduate research).
- Faculty teams expressed a need for resources to incubate high-potential, interdisciplinary research ideas to ready opportunities for external funding.
- Overall graduate degrees offerings and research dollars are below expectations for the "Technological" institution of the state of Tennessee. Faculty wish to grow degree offerings in areas of market need and to better align with CCTA expectations.
- A focus on use of technology is needed to bring TTU closer to its position as the technological university in the State of Tennessee. This also includes new technology-based and innovative academic offerings and teaching methods.

Resources and Infrastructure





- TTU requires a new enrollment model to realize Flight Plan objectives. This includes the development of a data-driven enrollment model and improved use of scholarships to increase student yield.
- Stakeholders expressed a desire for a more developed infrastructure to support the needs of students, faculty, and the community. For example, stakeholders frequently cited need for increased green space, more commuter parking spots, enhanced student facilities, and greater dining capacity.
- Many of TTU's current business processes are out-of-date and inefficient, specifically the hiring and procurement processes.

Flight Plan Focus Areas



Based on a full internal assessment of TTU's current state, including the gap analysis, four strategic improvement directions emerged as *Flight Plan* focus areas.

1. Improve Undergraduate Student Experience

- Enhance quality of undergraduate student experience
- Improve academic advising
- Increase degrees conferred and retention; reduce time-todegree
- Focus on incoming student quality and diversity
- Improve student recruitment and use of scholarships

2. Transform Technology

- Enhance technology capabilities
- Improve technology infrastructure systems, and support services
- Support faculty in the application of technology in the classroom

3. Create Distinctive Programs and Invigorate Faculty

- Expand research and faculty scholarly activity
- Support faculty collaboration and development
- Evaluate structure where appropriate to promote crossdisciplinary and integrated programs and scholarship
- Improve graduate recruitment, incoming student quality, enrollment and degrees conferred
- Provide undergraduate research opportunities

4. Expand Financial Resources and Modernize Infrastructure

- Identify new revenue streams
- Grow endowment and private funding levels
- Develop campus and modernize physical infrastructure



Flight Plan Summary



TTU VISION

4 FOCUS ARFAS

UNDERGRADUATE EDUCATION

TECHNOLOGY

DISTINCTIVENESS

INFRASTRUCTURE AND RESOURCES

12 PRIORITY ACTIONS

- 1. FRESHMEN FLIGHT PATH
- 2. ACADEMIC ADVISING
- 3. HIGH-DEMAND COURSE CAPACITY
- 4. TECHNOLOGY SERVICE TO STUDENTS
- 5. TECHNOLOGY INFRASTRUCTURE AND INNOVATION
- 6. UNDERGRADUATE CO-CURRICULAR PROGRAM
- 7. MULTIDISCIPLINARY RESEARCH INNOVATION
- 8. NEW GRADUATE PROGRAMS
- 9. TECHNOLOGY IN TEACHING
- 10. ENROLLMENT, TUITION AND SCHOLARSHIPS
- 11. PHYSICAL INFRASTRUCTURE PRIORITIES
- 12. EFFICIENCY AND EFFECTIVENESS

10 METRICS

UNDERGRADUATE

- 1. ACT SCORE RANGE
- 2. FTE ENROLLMENT
- 3. BACHELOR'S DEGREES
- 4. RETENTION RATE
- 5. SIX-YEAR GRADUATION RATE

GRADUATE AND RESEARCH

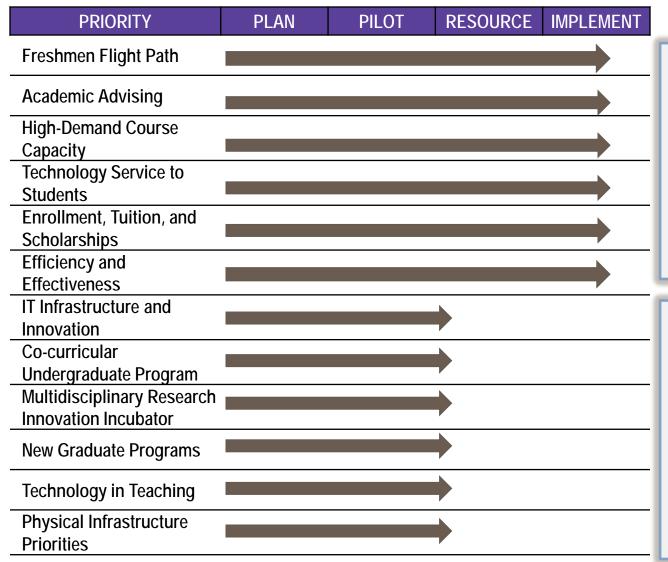
- 6. DOCTORAL DEGREES
- 7. MASTER'S DEGREES
- 8. RESEARCH EXPENDITURES PER FACULTY

FINANCIAL

- OPERATING EXPENDITURES PER STUDENT
- 10. ENDOWMENT PER STUDENT

Flight Plan Summary – 2013 to 2014





READY FOR ACTION

2013 to 2014 Action Focus: Implementation; outcomes

- Initiatives ready for action or address an immediate need
- Resources allocated for 2013 to 2014
- Outcomes expected

TRANSFORMATIONAL

2013 to 2014 Action Focus: Pilot programs; resource plans

- Large, multi-year initiatives
- Further planning and stakeholder engagement required
- Pilot projects
- Full resource plans needed

Objectives



The action and implementation plan process engaged stakeholder to identify high-impact actions aligned with Flight Plan and develop high-level implementation plans.

- Address gaps in the four areas of focus: undergraduate education, technology, distinctiveness, and infrastructure/resources
- Engage academic and administrative leaders to identify and prioritize opportunities for both immediate and long-term improvement
- Identify the necessary investments needed
- Establish an expectation for accountability, assessment, and continuous improvement
- Surface opportunities for operational effectiveness

Process



The *Flight Plan* focus areas serve as the foundation for the action plan process. The objective of this process is to surface university-level priorities for the 2013 to 2014 academic year.

ACTIONS

 Specific actions to support commitments, includes both shortterm and long-term actions

PRIORITY ACTIONS

 Actions designated as high-impact; universitylevel priorities for the 2013 to 2014 academic year

IMPLEMENTATION PLANS

 Resource, milestones and accountability plans to support priority actions

COMMITMENTS

 Major improvement directions categories for each focus area

FLIGHT PLAN FOCUS AREAS

UNDERGRADUATE EDUCATION
TECHNOLOGY
DISTINCTIVENESS
INFRASTRUCTURE AND RESOURCES

Implementation Plans



#1 - Freshmen Flight Path For Flight Plan priority actions, implementation plans were developed to THUNIVERSITY provide a data-driven view of the context, rationale, and resources required A cross-functional team will need to be assembled to lead implementation for each proposed action. ountability Plan #1 - Freshmen Flight Path TUNIVERSIT Scott Northrup RESOURCES Freshmen Flight Path will require an estimated \$75K in recurring resources to complete the actions outlined; representation from: additional one-time funds will be required for the attendance system (TBD) Illustrative Example anagement #1 - Freshmen Flight Path TUNIVERSITY MILESTONES bmitted to Flight Plan Leaders every Context for Action A high-level implementation plan with important milestones is presented below. completion nting on-time completion Description, items that should be communicated to #1 - Freshmen Flight Path Objectives, & TUNIVERSITY ACTION STEPS Metrics Near-term actions will focus on structuring the program, rolling out a pilot program, and selecting attendance #1 - Freshmen Flight Path THUNIVERSITY CONTEXT FOR ACTION Freshmen Flight Path supports an early intervention strategy, which is consistent with current trends in higher eral Trends in Higher Education #1 - Freshmen Flight Path TU UNIVERSITY Memohis currently offers a similar system IMPLEMENTATION PLAN "wake-up call" to those students who are Resources & **Accountability** Freshmen Flight Plath is an early intervention system intended to improve first-to-second year retention. ducation IS must successfully bring together the SUMMARY nic advising center, and the Office of Description Success Metrics ement / Academic Retention implement the newly-created Freshman Flight Plan Metrics Flight Path, an early intervention system ntique to explore outcomes-based Aunding Improve 1sto-2nd year retention among strengthen undergraduate retention will (EIS) and first-year retention program for freshmen through early intervention for Six-Year Graduation Rate students who exhibit high-risk Milestones characteristics for drop out (poor class attendance, low performance on Provide faculty members, with an Operational Metrica accurate, easy-to-use, and technology enabled class roll system # of student intervention visits per Retention ties in to most aspects of the undergraduate experience and supports # students successfully completing CCTA goals. **Action Steps** Retention also enhances financial resources by minimizing students lost after the first year.



Flight Plan is supported by 12 priority action plans related to Undergraduate Education, Technology, Distinctiveness, and Infrastructure and Resources.

Team	Supporting Action Plan Profiles
Undergraduate Education	3
Technology	2
Distinctiveness	4
Infrastructure and Resources	3



Implementation plans have been developed for 12 Flight Plan priority actions.

PRIORITY	ACTION	OBJECTIVE
Freshmen Flight Path	Implement an early intervention first-year retention program for freshmen focusing on class attendance	Improve retention through early, proactive intervention
2 Academic Advising	Establish a consistent approach to academic advising that expands the number of professional advisors and enhances the faculty-student mentorship role	Increase retention and graduation rates by ensuring consistency and focusing on success in the freshmen year
High-Demand Course Capacity	Identify high-demand courses and add additional capacity through hiring faculty and effectively using classroom space	Increase graduation rates by providing students access to courses needed to graduate on time
Technology Service to Students	Improve technology service to students by meeting student need for connectivity and support	Support a technology-forward student experience



Implementation plans have been developed for 12 Flight Plan priority actions.

PRIORITY	ACTION	OBJECTIVE
IT Infrastructure and Innovation	Create an IT strategic plan to strengthen technology capabilities in infrastructure and services; establish a fund to promote innovation	Build technology capabilities representative of a premier technological university
Co-curricular Undergraduate Program	Redesign TTU's undergraduate programs to emphasize co-curricular activity in order to better prepare students to solve real-world problems	Increase graduation rates by proving students with a distinctive and relevant undergraduate experience
7 Multidisciplinary Research Innovation	Establish Innovation for Distinctiveness in Education and Applied Sciences, an incubator to cultivate promising and distinctive research opportunities	Expand funded research by surfacing prospects for new, distinctive research opportunities
New Graduate Programs	Offer new graduate degree programs in high- demand, distinctive areas	Increase Master's and PhD degrees conferred to align with CCTA objectives



Implementation plans have been developed for 12 Flight Plan priority actions.

PRIORITY	ACTION	OBJECTIVE
7 Technology in Teaching	Provide faculty advanced support to increase adoption of digital learning practices and technology innovation in the classroom	Increase graduation rates and student success; support faculty innovation in teaching
Enrollment, Tuition, and Scholarships	Evaluate undergraduate and graduate enrollment and tuition; improve use of scholarships	Broaden financial resources through sustained growth; strengthen TTU's ability to recruit excellent students
Physical Infrastructure Priorities	Enrich and modernize university physical infrastructure	Improve the experience of students, faculty and staff
Efficiency and Effectiveness	Streamline administrative requirements by simplifying business processes and leveraging technology to improve effectiveness	Ensure effective stewardship of financial resources by increasing administrative efficiency

Undergraduate Action Plan



FOCUS #1 – UNDERGRADUATE EDUCATION COMMITMENTS AND PRIORITY ACTIONS

Commitment One: Improve student success through early intervention □ Freshmen Flight Path	Commitment Three: Reduce time-to-degree ☐ High-Demand Course Capacity
Commitment Two: Establish a dual approach to academic advising, both improving support for class registration and strengthening student-faculty mentorship Academic Advising	Commitment Four: Improve the undergraduate experience ☐ Technology Service to Students ☐ Athletics Flight Plan Supplemental
	Commitment Five: Advance enrollment practices ☐ Enrollment, Tuition and Scholarships

Technology Action Plan



FOCUS #2 – TECHNOLOGY COMMITMENTS AND PRIORITY ACTIONS

Commitment One: Improve Technology Service

☐ Technology Service to Students

Commitment Two: Strengthen Technology Infrastructure and Promote Innovation

☐ IT Infrastructure and Innovation

Distinctiveness Action Plan



FOCUS #3 – DISTINCTIVENESS COMMITMENTS AND PRIORITY ACTIONS

Commitment One: Redesign TTU's Undergraduate Programs to Better Prepare Students to Solve Real-World Problems

□ Co-Curricular Undergraduate Program

Commitment Two: Establish New Distinctive, Collaborative Programs

☐ Multidisciplinary Research Innovation

Commitment Three: Offer New Graduate Degrees

■ New Graduate Degrees

Commitment Four: Invigorate and Support Faculty

□ Technology in Teaching

Resources and Infrastructure Action Plan



FOCUS #4 – RESOURCES AND INFRASTRUCTURE DRAFT ACTION PLAN

DRAFTAC	HON PLAN
Commitment One: Cultivate a Sustainable Financial Model □ Enrollment, Tuition, and Scholarships	Commitment Three: Improve Efficiency and Effectiveness ☐ Efficiency and Effectiveness
Maximize Complete College Tennessee Act Allocated Dollars	Commitment Four: Generate New External Resources ☐ TTU Foundation
Commitment Two: Enrich Physical Infrastructure to Enhance the Student Experience and Support the Academic Mission	☐ Increase External Grant Funding and Commercialization
☐ Physical Infrastructure Priorities	

RESOURCES

Overview



Resources required to support the Priority Action implementation plans were organized into two categories.

Near-term Investments

- Resource estimates and requests that will fund priority action plans during the 2013-14 year.
- Funding incorporated in 2013-14 plan

Longer-term Investments

- Resource estimates and requests that will fund priority action plans during the 2014-2015 year and beyond.
- Resource plans will need to be developed in the 2013-14 year

Summary of Resources



Priority Action	2013-14 Resource Committed	Resource Plan To Be Developed 2013-14
1. Freshmen Flight Path Program	•	
2. Academic Advising	•	
3. Relieve High-Demand Courses	•	
4. Technology Service to Students	•	
5. Technology Infrastructure and Innovation	• (Partial)	•
6. Co-curricular Undergraduate Program	● (Partial)	•
7. Multi-Disciplinary Research		•
8. New Graduate Programs		•
9. Technology in Teaching		•
10. Enrollment, Tuition, and Scholarships	•	
11. Physical Infrastructure Priorities		•
12. Efficiency and Effectiveness	•	

Sources of Funds



The following funding strategies have been employed at public universities which have made performance advancements and can be applied to *Flight Plan*.

Source	Examples	
Operational Effectiveness	 Strong focus on operational effectiveness measures to "reinvest" in the academic enterprise 	
Enrollment and Tuition Balance	 TTU has conveyed its desire to increase both in-state and out-of-state undergraduate enrollment, in addition to graduate enrollment 	
Retention	Many of Flight Plan's Undergraduate Education priority actions are designed to increase retention and graduation, keeping student tuition dollars on campus and increasing overall success in the CCTA funding formula.	
Gifts and Endowment Support	 Development of strategic campaigns to reinforce broad university priorities 	

IMPLEMENTATION AND ACCOUNTABILITY

Overview



Those responsible for overseeing the Priority Action implementation plans will be held accountable for reporting to the *Flight Plan* executive team as well as measure success against operational and *Flight* Plan metrics.

Accountability

 Priority Action leaders will appointed for each of the 12 priority actions and have an implementation team made up of representatives from applicable departments.

Reporting

• The Priority Action leaders will report directly to their individual focus group leaders, who will be responsible for regular reporting on progress to the *Flight Plan executive team*.

Communication

Regular communications to campus stakeholder groups

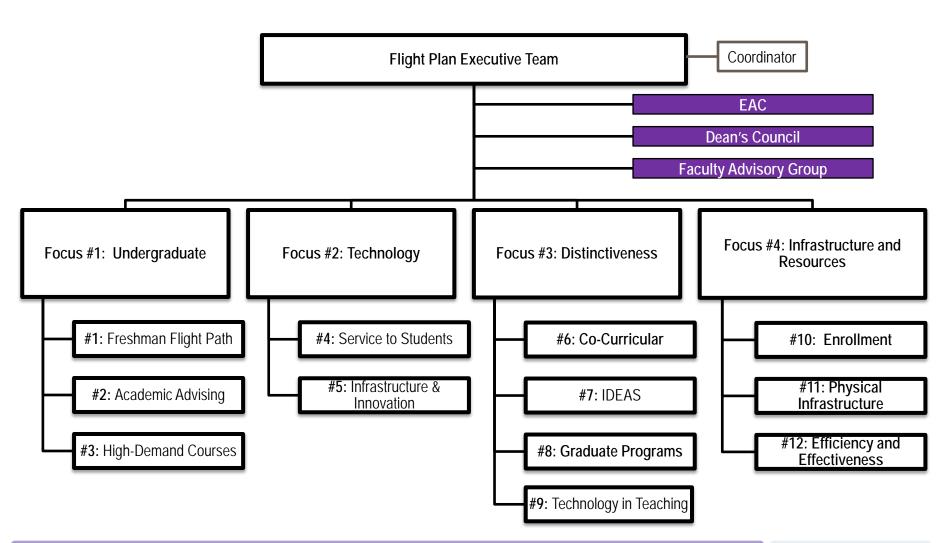
Metrics

- The Flight Plan Gap analysis metrics will be updated on an annual basis under the direction of the Flight Plan executive team.
- Operational metrics included in individual plans will supplement this reporting with more frequent updates.

Structure



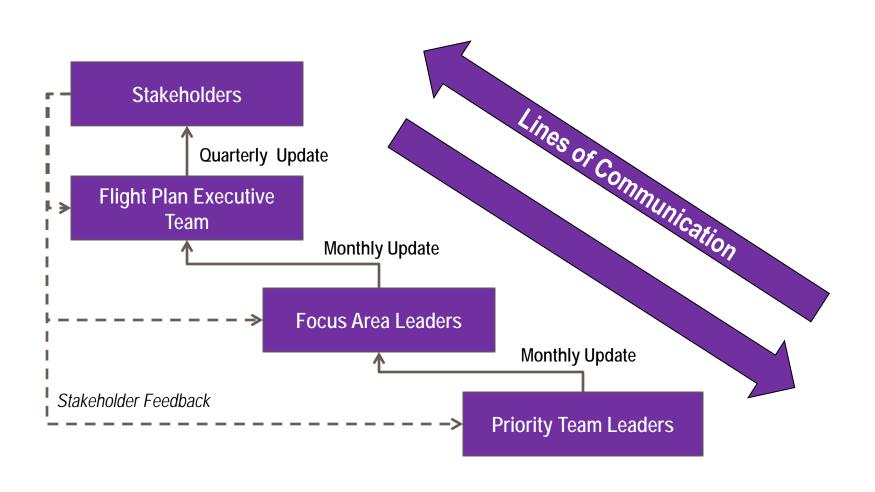
The following structure illustrates a suggested structure to implementation.



Progress Reporting



The lines of communication will depend on regular updates and accountability for progress reporting.



Executive Metrics



The ten executive-level metrics included in the *Flight Plan* Gap Analysis will be refreshed concurrently.

FLIGHT PLAN FOCUS AREAS

	Metrics	Undergraduate	Technology	Distinctiveness	Infrastructure & Resources
	ACT Score Range (75th/25th Percentile)	•			
	FTE Enrollment	•			
Undergraduate Education	Bachelor's Degrees Conferred ¹	•	•	•	
Eddodion	Retention Rate (1st to 2nd Year)	•	•	•	
	Six-Year Graduation Rate	•	•	•	
Graduate	Doctoral Degrees Conferred		•	•	
Education	Master's Degrees Conferred		•	•	
Research	Total Research Expenditures per Full-time Tenured Faculty Member		•	•	
Financial	Operating Expenditures per Student FTE				•
Resources	Endowment per Student FTE				•

While operational metrics will be tracked at smaller intervals, formal reports on *Flight Plan* metrics should be delivered by the *Flight Plan* executive team to the President on an **annual** basis.

Operational Metrics



PRIORITY	TEAMS	OPERATIONAL METRIC	REPORTING FREQUENCY
		Fall-to-spring retention rate	Annually
Flight Path	Undergraduate / Technology	# of student intervention visits per semester	Semester
	33	% of freshmen with 2.0 GPA or higher per semester	Semester
		# of students eligible to return that register on-time	Semester
Academic Advising	Undergraduate	# of withdrawals	Semester
		Professional Advisor-to-student ratio in the colleges	Semester
High Damard Carrage	L la de verre di cete	Seat and classroom utilization ratios (EMS)	Semester
High-Demand Courses	Undergraduate	Number of students needing courses vs. capacity (DW)	Semester
		# of Wi-Fi "Dark Spots"	Monthly
Technology Service to Students	Technology	# of Tech Service Desk Visits	Monthly
Students		# of Switches/Access Points Across campus	Monthly

Operational Metrics



PRIORITY	TEAMS	OPERATIONAL METRIC	REPORTING FREQUENCY
Tachmalagurlangustian	Technology /	Central IT Operating Expenditures/ Student FTE	Annually
Technology Innovation	Resources & Infrastructure	# of Users Per Central IT Staff FTE	Annually
		# of students participating in undergraduate research	Semester
Co-Curricular		# of students receiving credit for study abroad coursework	Semester
Undergraduate	Distinctiveness	# of students receiving co-op positions (particularly in engineering)	Semester
		# of students in service learning programs	Semester
Multidisciplinary	Dictinativanas	# of cross-appointments for faculty members	Annually
Research	Distinctiveness	# of projects funded through the innovation incubator	Annually

Operational Metrics

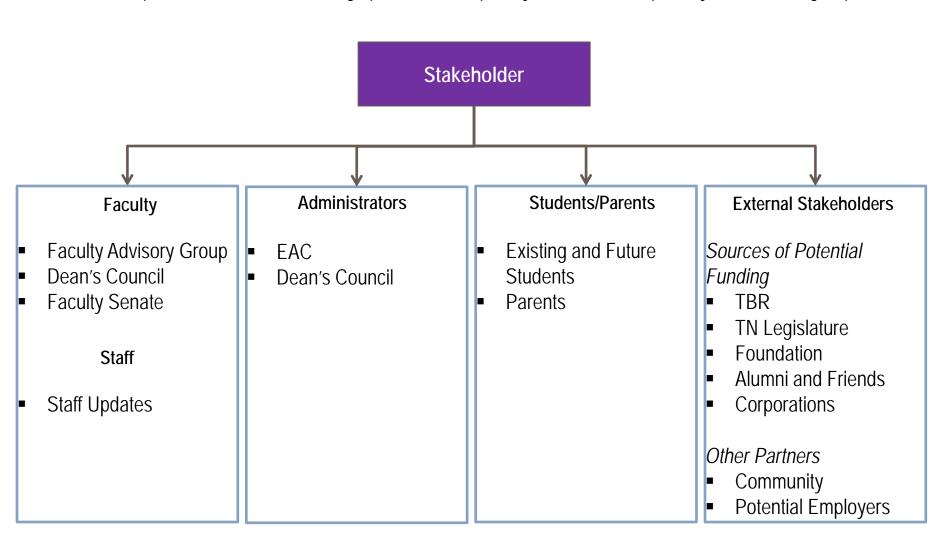


PRIORITY	TEAMS	OPERATIONAL METRIC	REPORTING FREQUENCY
		# of Graduate Degrees offered	Semester
New Graduate Programs	Distinctiveness	# of graduate students enrolled	Semester
		# of Ph.D. students enrolled	Semester
Technology in Distinctiveness / # of faculty participating in course redesigns		# of faculty participating in course redesigns	Semester
Teaching	Technology	# of redesigned courses	Semester
Enrollment, Tuition,	Resources &	Net tuition revenue	Semester
and Scholarships	Infrastructure / Undergraduate	In-state vs. out-of-state mix	Annually
Dhyoical Infractive	December 9	Progress towards development and completion of the landscaping master plan	Annually
Physical Infrastructure Priorities	Resources & Infrastructure	# of parking spaces	Annually
		# of descriptive signs posted outside of campus buildings	Annually
Efficiency and	Resources &	Time to complete a new hire process	Semester
Effectiveness	Infrastructure / Technology	Number of suppliers in an individual product category; % spend on contract	Annually

Stakeholder Communication



TTU will be responsible for communicating updates on the priority actions to four primary stakeholder groups.



Stakeholder Communication



The following chart outlines communication types and timing Flight Plan launch.

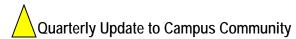
Stakeholder Group	Description	Mode of Delivery	Timing
University Stakeholders	FacultyAdministratorsStaffStudents	ArticlesPrinted MaterialsWebsiteMeetings	 Fall– Vision, Flight Plan launch Spring – Implementation updates, "wins", stakeholder feedback
TBR	 Tennessee Board of Regents 	Executive MeetingPrinted Materials	 Fall – Executive briefing w/ TBR Spring – Executive-level metrics update, status update
Other Stakeholders	AlumniParentsRegional PartnersState Legislative AdvocatesCommunity	Articles/Alumni MagazinePrinted MaterialsWebsite	 Fall– Vision, Flight Plan launch, select meetings Spring – "Wins"

Implementation Plan Timeline and Milestones



Near-term priority actions will be completed throughout the 2013-2014 school year while long-term priority actions will commence in fall, 2014.

		2013													
Milestone	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Finalize Draft Plans															
Near-term Resource Estimates Confirmed and Funded															
Implementation Teams Commence Near-Term Projects															
Discuss Long-term Funding Options															
Complete Near-Term Implementation Plans															
Secure Long-term Funding															
Launch Long-term Implementation Plans															
		•													



NEXT STEPS

Action Plan

MILESTONES



We are currently in the implementation plan finalization and community roll out phase for *Flight Plan* priorities.

Timeline	Milestones	Status
February 2013	Leaders and teams appointedKick-off discussion heldTimetable established	✓
March 2013	 Action plan structure complete Improvement directions and candidate actions 	✓
April/May 2013	 Prioritization and sequencing of actions complete Designate Flight Plan priorities Identify unit-level improvement directions High-level timetables and sequencing 	✓
May 2013	 Supporting implementation plans for Flight Plan priorities complete Context, actions and milestones Resource estimates Accountability plan 	✓
June 2013	 Finalize priorities and implementation plans Budget review and commitments complete 	√
July 2013	Implementation begins	Current Focus
August 2013	Roll out to the community	Current Focus

APPENDIX A: COMPLETE IMPLEMENTATION PLANS

Implementation Plans



Implementation plans were developed to identify specific near-term actions for improvement, promote communication among stakeholders, and support implementation.

- Implementation plan profiles include:
 - Rationale and strategic objectives
 - Near-term action steps
 - Resource requirements
 - Implementation considerations
 - Accountability plan
 - Key success metrics for measuring progress
- Plans were used as a method of communicating and gathering feedback:
 - Shared with key stakeholders for early feedback and buy-in
 - Used to clarify resource needs
- Plans were also designed to promote accountability for implementation

Contents



Priority Action	Page
1. Freshmen Flight Path Program	p.53
2. Academic Advising	p. 59
3. Relieve High-Demand Courses	p. 65
4. Technology Service to Students	p. 71
5. Technology Infrastructure and Innovation	p. 77
6. Co-curricular Undergraduate Program	p. 83
7. Multi-Disciplinary Research Innovation	p. 89
8. New Graduate Programs	p. 95
9. Technology in Teaching	p. 100
10. Enrollment, Tuition, and Scholarships	p. 105
11. Physical Infrastructure Priorities	p. 111
12. Efficiency and Effectiveness	p. 115

IMPLEMENTATION PLAN



Freshmen Flight Plath is an early intervention system intended to improve first-to-second year retention.

	SUMMARY	
Description	Description Objective	
 Implement the newly-created Freshman Flight Path, an early intervention system (EIS), and first-year retention program for freshmen Provide faculty members with an accurate, easy-to-use, and technology-enabled class roll system 	 Objective Improve 1st-to-2nd year retention among freshmen through early intervention for students who exhibit high-risk characteristics for drop out (poor class attendance) Link to Flight Plan Retention ties in to most aspects of the undergraduate experience and supports CCTA goals Retention also enhances financial resources by minimizing students lost after the first year 	 Flight Plan Metrics 1st to 2nd year retention rate Six-Year Graduation Rate Operational Metrics Fall-to-spring retention rate # of student intervention visits per semester % of freshmen with 2.0 GPA or higher per semester

CONTEXT FOR ACTION



Freshmen Flight Path supports an early intervention strategy, which is consistent with current trends in higher education.

Context	Peers/ Trends in Higher Education
 TTU has seen flat levels of 1st-to-2nd year retention among first-time, full-time freshmen Retention has remained strong relative to Tennessee peers, but continues to lag behind <i>Flight Plan</i> and aspirational peers By targeting the attendance record of struggling students, TTU can provide an alternative path for success by intervening early in the process and potentially keeping the student on the proper course towards a degree 	 Mississippi State University uses its "Pathfinders Program" to assist incoming freshmen in getting easily transitioned to college life Professors and instructors are encouraged to report student absences so that Pathfinders staff can offer assistance to those who are having trouble UT-Chattanooga has its "Freshmen Academic Success Tracking Initiative" which tracks freshmen class attendance Implementing an EIS must successfully bring together the student, an academic advising system, and the Office of Enrollment Management / Academic Retention As many states continue to explore outcomes-based funding models, ideas that strengthen undergraduate retention will continue to thrive

ACTION STEPS



Near-term actions will focus on structuring the program, rolling out a pilot program, and selecting attendance tracking software.

Action Steps
Near-Term (1 to 6 Months)
 Structure Freshmen Flight Path program; define role of faculty, staff and RAs
 Establish faculty buy-in on program and direction of system
☐ Train staff and RA's on how to successfully intervene with students missing classes
□ Roll-out pilot program in Fall, 2013
□ Define requirements for attendance software that can link into Banner or another TTU database via mobile units or ID cards
□ Select system and begin implementation
Mid-Term (6 to 12 Months)
 Engage pilot faculty and advisors for real-time feedback on issues/successes of system
Conduct student focus groups
☐ Train faculty on technology-based roll system
Long-Term (12+ Month)
□ Launch program to all freshman (to include attendance)
☐ Gage success of program by monitoring both <i>Flight Plan</i> and operational metrics
 Determine any applicable revisions to program (expand variables to track)
☐ Issue communication to community on successes of new system





A high-level implementation plan with important milestones is presented below:

	2013			2014														
Milestone	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Flight Path Structure																		
Technology Systems Requirements																		
Train Staff and RAs																		
Soft Launch of Pilot Program																		
Technology Evaluation																		
Vendor Selection, Systems Training and Implementation																		
Engage Pilot Faculty Feedback																		
Engage Student Feedback																		
Metric Evaluation																		
Revise Program																		
Launch All-Freshmen Program																		

RESOURCES



Freshmen Flight Path will require an estimated \$75K in recurring resources to complete the actions outlined; additional one-time funds will be required for the attendance system (TBD).

Resource Estimates

Category	Recurring	One-Time				
Labor	\$55,000	\$0				
Non-Labor	\$20,000	TBD – Attendance System				
Total	\$75,000	\$0				

Detailed Description of Resource Needs

Labor

- Hire a Director of Retention Service (\$55,000 Base)
- Payments to Residential Advisors and other Interventionists

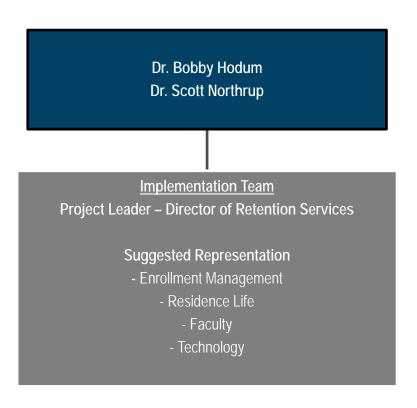
Non-Labor

- Purchase technology-enabled attendance system (Cost TBD)
- Travel to stay up-to-date with latest research and best practices

ACCOUNTABILITY



A cross-functional team will need to be assembled to lead implementation.



Accountability Plan

Flight Plan Leaders

 Undergraduate Leaders - Dr. Bobby Hodum, Dr. Scott Northrup

Implementation Team

- Project Leader Director of Retention Services
- Project team to include representation from:
 - Enrollment Management
 - Residence Life
 - Faculty Rep
 - Technology

Status Reporting

- Monthly status reports to be submitted to Flight Plan Leaders
- Reports will include:
 - Progress to completion
 - Issues preventing on-time completion
 - Feedback on items that should be communicated to other Action Plan teams

IMPLEMENTATION PLAN



The academic advising plan establishes a two-prong system of advising by expanding the number of professional advisors to support the registration process and refining the faculty role as mentor.

	SUMMARY										
	Description	Objective	Success Metrics								
•	Develop a professional advising system to improve class registration counseling	ObjectiveProvide a consistent experience in academic advising	 Flight Plan Metrics Bachelor's Degrees Conferred 1st to 2nd year retention rate 								
•	Expand the role of the "professional advisor" to ensure a student's registration process is aligned with the	Improve effective use of faculty time in advising	Six-Year Graduation Rate								
	forecasted degree path and time-to- degree	Develop a simpler process for freshmen registration	Operational Metrics# of students eligible to return that register on-time								
•	Build up the student-faculty relationship where the faculty member mentors the student on career and course recommendations	 Link to Flight Plan Targeting the complete advising process from freshman registration through commencement improves the student experience and demonstrates commitment to increasing the number of four-year graduates 	 # of withdrawals Professional Advisor-to-student ratio in the colleges 								

CONTEXT FOR ACTION



The plan addresses student feedback on access and consistency of advising; similar academic advising systems are in place at undergraduate aspirational peers.

Context	Peers/ Trends in Higher Education
 During the Flight Plan process, students communicated inconsistent advising experiences Certain colleges were able to provide exemplary advising services while others struggled to graduate students in four years due to inaccurate advice Students do not have a self-service method for verifying their progress towards degree requirements 	 Peers Aspirational peers James Madison University and Miami University assign all Freshman a professional advisor to assist with academic planning, the registration process, and exploring academic programs and careers Trends in Higher Education Scholars have sought to prove that there is an undeniable link between academic advising and student retention Many universities include advising as a critical component of a faculty member's yearly evaluation Colleges have attempted to automate the advising process as much as possible by offering "self-service" solutions before students meet with in-person advisors

ACTION STEPS



Near-term actions will focus on hiring and allocating professional advisors into colleges.

	Action Steps								
Nea	lear-Term (1 to 6 Months)								
	Hire a Director of Advisement Services								
	Develop plan for professional advisor integration into colleges								
	Secure additional funding for professional advisors								
	Designate physical space for professional advisors to take appointments in the colleges (if necessary)								
	Interview and hire advisors; distribute new hires among the colleges								
	Establish consistent professional development programs for faculty and professional advisors								
	Engage faculty on the new process and their enhanced role in mentorship								
	Train advisors on Degree Works / Visual Flow Charts and TTU systems								
	Issue communication to student and parent community on advising changes								
Mic	d-Term (6 to 12 Months)								
	Introduce DegreeWorks and appointment scheduling to students								
	Structure and pilot faculty mentorship program								
Loi	ng-Term (12+ Month)								
	Implement any changes to the system based off of constituent feedback								
	Roll out professional advising and faculty mentorship program to campus								

MILESTONES



A high-level implementation plan with important milestones is presented below:

			20	13								20	14					
Milestone	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Hire a Director of Advisement Services																		
Professional Advising Integration and Resource Plan																		
Physical Space and Support Systems Plan																		
Professional Development Plan																		
Faculty Communications and Feedback																		
New Staff Hiring and Training																		
Student and Parent Communications																		
Structure Faculty Mentorship Program																		
Launch Pilots																		
Student Feedback/ Focus Groups																		
Improvements to System/ Add Advisors as Needed																		
Roll Out to Campus																		

RESOURCES



Freshmen Flight Path will require an estimated \$785K in recurring resources to hire a Director of Advisement Services and additional professional advisors.

Resource Estimates

Category	Recurring	One-Time
Labor	\$775,000	\$0
Non-Labor	\$10,000	\$0
Total	\$785,000	\$0

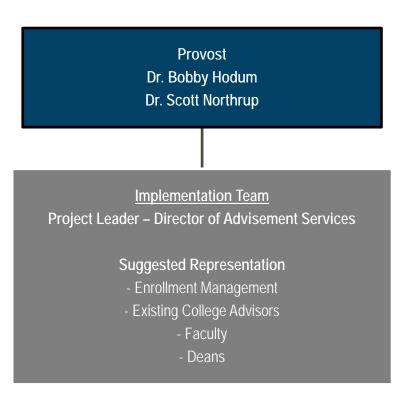
Detailed Description of Resource Needs

- Labor
 - Hire Director of Advisement Services (\$70,000)
 - Hiring of 15 Professional Advisors (\$705,000)
- Non-Labor
 - Operating and Travel Budget

ACCOUNTABILITY



A cross-functional team will need to be assembled to lead implementation.



Accountability Plan

Flight Plan Leaders

- Provost
- Undergraduate Leaders Dr. Bobby Hodum, Dr. Scott Northrup

Implementation Team

- Project Leader to be appointed: Director of Advisement Services
- Project team to include representation from:
 - Enrollment Management
 - Existing College Advisors (Representative)
 - Faculty Rep
 - Deans (Education, Arts & Sciences, Engineering)

Status Reporting

- Monthly status reports to be submitted to Flight Plan Leaders
- Reports will include:
 - Progress to completion
 - Issues preventing on-time completion
 - Feedback on items that should be communicated to other Action Plan teams

IMPLEMENTATION PLAN



The plan to add capacity to high-demand courses focuses on adding new faculty lines in needed areas and improving the utilization of space and scheduling.

SUMMARY										
Description	Objective	Success Metrics								
Identify high-demand courses and add additional capacity	ObjectiveEliminate course availability issues that prevent students from graduating on	Flight Plan MetricsBachelor's Degrees Conferred								
Evaluate classroom capacity and space issues via the newly implemented Event	time	1st to 2nd Year Retention Rate								
Management software	 Promote better space usage by aligning classroom needs with accurate student 	Six-Year Graduation Rate								
Hire faculty positions in areas with high- demand courses	counts Link to Flight Plan	Operational Metrics Seat and classroom utilization ratios								
Utilize a more robust summer program	Reducing time-to-degree is a critical, and necessary, component of <i>Flight Plan</i>	Number of students needing courses vs. capacity								
	Adding faculty lines to provide additional capacity will support student graduation rates and retention									

CONTEXT FOR ACTION



The plan provides additional capacity in required classes to allow students to make progress towards graduating in their anticipated time frame.

Context	Peer Context/ Trends in Higher Education
 Students conveyed feedback to the Flight Place committee that many classes did not have enfulfill student demand 	<u> </u>
The lack of section availability can prevent stu- registering and delay graduation	
To date, no event/classroom management sy for faculty/staff to quickly address space need	· 1
	James Madison University offers many of their most popular and high-demand courses during the summer session
	 Trends in Higher Education The California State University System is trying to utilize online classes and technology to relieve class bottlenecks
	Similar to James Madison, many schools try to utilize summer session for additional offerings of high-demand courses

ACTION STEPS



Near-term actions will focus on identifying departments and courses most in need of additional faculty positions.

Action Steps					
Near-Term (1 to 6 Months)					
Evaluate registration patterns to identify high-demand courses					
□ Launch new event management software system					
Utilize software and qualitative interviews to further review areas of high-demand courses					
Develop multi-year faculty hiring plan to address high-demand courses (Provost)					
Mid-Term (6 to 12 Months)					
Evaluate space utilization data to review opportunities to optimize schedule					
□ Benchmark against metrics					
□ Engage faculty and student feedback					
Long-Term (12+ Month) □ Revise processes					





A high-level implementation plan with important milestones is presented below:

	2013			2014														
Milestone	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Identify High-Demand Courses																		
Launch Event Management Software																		
Develop Capacity Plan for Year 1																		
Develop Multi-Year Faculty Hiring Plan																		
Begin Hiring Faculty for Year 1																		
Launch New Course Sections																		
Space Utilization and Scheduling Optimization																		
Evaluate Capacity Expansion through Summer School and On-line Courses																		
Develop Capacity Plan for Year 2																		
Confirm Faculty Hiring Plan for Year 2																		
Begin Hiring Faculty for Year 2																		
Launch New Course Sections																		

RESOURCES



Relieving high-demand courses will require an estimated over \$1 million in recurring resources to hire approximately 12 faculty positions.

Resource Estimates

Category	Recurring	One-Time
Labor	\$1,045,000	\$0
Non-Labor	\$0	\$0
Total	\$1,045,000	\$0

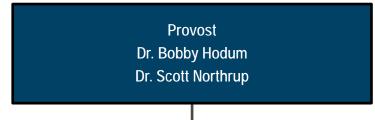
Detailed Description of Resource Needs

- Labor
 - Resources to add ~12 Faculty positions
- Non-Labor
 - Operating and Travel Budget

ACCOUNTABILITY



A cross-functional team will need to be assembled to lead implementation.



Implementation Team

Project Leader – Member of Provost's office with Responsibility for Hiring Faculty

Suggested Representation

- Provost's Office

Enrollment Management (Registrar)

- - Coordinator for Event Management System

Accountability Plan

Flight Plan Leaders

- Provost
- Undergraduate Leaders Dr. Bobby Hodum, Dr. Scott Northrup

Implementation Team

- Project Leader: Member of Provost's office
- Project team to include representation from:
 - Provost's Office
 - Enrollment Management/Registrar
 - Coordinator for Event Management System

Status Reporting

- Monthly status reports to be submitted to Flight Plan Leaders
- Reports will include:
 - Progress to completion
 - Issues preventing on-time completion
 - Feedback on items that should be communicated to other Action Plan teams

#4 – Technology Service to Students

IMPLEMENTATION PLAN



The objective of this plan is to improve technology services to students with an emphasis on Wi-Fi connectivity and support.

	SUMMARY	
Description	Objective	Success Metrics
 Improve technology service to students by meeting student need for connectivity and service: Ubiquitous Wi-Fi Technology Service Desk Student TechSpot 	 Objective Provide students with reliable and innovative technology services Support the TTU brand as a technology-forward experience Link to Flight Plan Transforming technology is one of the core improvement directions of Flight Plan Improving and scaling technology service to students improves the student experience 	 Flight Plan Metrics 1st to 2nd Year Retention Rate Bachelor's Degrees Conferred Six-Year Graduation Rate Master's Degrees Conferred Doctoral Degrees Conferred Doctoral Metrics # of Wi-Fi "Dark Spots" # of Tech Service Desk Visits # of Switches / Access Points Across campus

#4 – Technology Service to Students

CONTEXT FOR ACTION



Improving service to students addresses major points of feedback from the *Flight Plan* process and helps TTU become more competitive with peers.

Context	Peers/ Trends in Higher Education
Throughout the Flight Plan planning process, students	Peer Context
frequently mentioned gaps in basic technology services	Each of the Flight Plan aspirational peers have robust,
The demand for better services has been driven by the exponential increase in the number of mobile devices	reliable campus-wide Wi-Fi networks that have been evaluated against customer service surveys
students bring to campus	Students are able to purchase Dell and Apple computers through the university contracts
Students have also detailed their desire to receive information via digital channels and perform university business processes through more convenient methods	Customers have access to tech support staff who are able to do warranty repairs and answer basic questions on hardware, purchasing, and software installation
While device usage has surged, students have no access to service or opportunities to purchase additional devices on	Trends in Higher Education
campus	 Universities are quickly adapting to student pressure/demand for reliable and quality technology support services and Wi-Fi coverage
	Push mobile app technology has made it simpler for many university departments to quickly provide students with vital information on a myriad of topics

ACTION STEPS



Near-term actions will focus on expanding Wi-Fi and adding support services for students.

Action Steps
Near-Term (1 to 6 Months)
☐ Finalize installation of switches and access points for ubiquitous Wi-Fi
 Secure a location for a technology service desk and Student TechSpot (preferably combined) and renovate if necessary
☐ Hire employees for service desk
□ Train student employees
□ Acquire equipment
□ Plan Student TechSpot format and secure funding
Mid-Term (6 to 12 Months)
□ Launch technology service desk
□ Establish TechSpot support services
 Develop Student TechSpot store or contract with outside vendor
Long Torm (12: Month)
Long-Term (12+ Month)
□ Launch Student TechSpot store





A high-level implementation plan with important milestones is presented below:

			20	13			2014											
Milestone	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Finalize installation of switches and access points																		
Locate and fund Service Desk/TechSpot																		
Hire and train employees																		
Launch service desk																		
Develop plan and resource estimates for TechSpot																		
Develop TechSpot																		
Launch TechSpot																		

RESOURCES



The resources required for Wi-Fi and services are included in the broader technology plan. Additional estimates that may be required for TechSpot are to be determined next year.

Resource Estimates

Category	Recurring	One-Time
Labor	Included in Technology Plan	
Non-Labor		
Total		

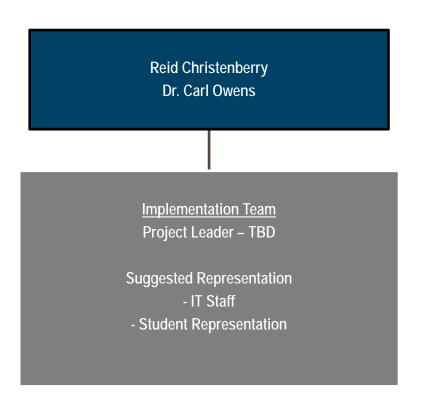
Detailed Description of Resource Needs

- Labor
 - Included in technology plan
- Non-Labor
 - TBD

ACCOUNTABILITY



This plan will be led out of IT.



Accountability Plan

Flight Plan Leaders

Technology Leaders - Reid Christenberry, Dr. Carl Owens

Implementation Team

- Project Leader to be appointed from IT staff
- Project team to include representation from:
 - IT Staff
 - Student representation

Status Reporting

- Monthly status reports to be submitted to Flight Plan Leaders
- Reports will include:
 - Progress to completion
 - Issues preventing on-time completion
 - Feedback on items that should be communicated to other Action Plan teams





The objective of this implementation plan is to fortify the technology infrastructure at TTU and promote future innovation through a dedicated IT strategic plan.

	SUMMARY	
Description	Objective	Success Metrics
Develop an information technology strategic plan that fortifies TTU's IT infrastructure and enables innovation for the future	 Objective Increase overall performance of infrastructure and support staff through additional hires 	Flight Plan Metrics • Supportive of all metrics
 Complete an ad-hoc evaluation of research and academic computing 	 Evaluate opportunities to create a technology innovation fund to add representation from stakeholders on 	Operational MetricsCentral IT Operating Expenditures/ Student FTE
Create a Technology Innovation Fund to generate new ideas and implement		# of Users Per Central IT Staff FTE
advanced capabilities in academics and		
research	 Necessity to provide dedicated resources that support innovation and 	
 Add staff resources to address technological gaps 	growth	
	Ability to support the goals of Focus Group # 4	





Similar to trends at many universities, TTU intends to address technology gaps to increase competitiveness and implement incentives to encourage innovation and stakeholder participation.

Context	Peers/ Trends in Higher Education
 Technology capabilities were widely acknowledged as a performance gap during the Flight Plan process Faculty and Staff have acknowledged there is very little funding for ongoing experimentation or pilot projects in adopting leading-edge technology 	 Miami University uses a portion of their student technology fee as funding for "innovative student-focused technology projects submitted by students, faculty or staff" The University System of Georgia has placed in its guidelines for a technology fee that innovative uses of technology is an emphasis Trends in Higher Education Most universities are building advanced IT capabilities to improve service to students and advance competitiveness in instruction and research Certain universities have created hybrid funds that, in addition to having a commercialization/research emphasis, are dedicated to innovative academic technology projects that: Improve the quality of instruction Create a differentiator for attracting higher caliber students to the University

ACTION STEPS



Near-term actions will focus on implementing the technology staffing plan, creating the strategic plan, and governing the TIF development.

Action Steps
Near-Term (1 to 6 Months)
☐ Brief faculty on process to create a new strategic plan
□ Launch an ad-hoc committee to review research computing needs
 Form strategic planning committee with representation from faculty, administrators, students, and IT staff
 Develop baseline assessment to peers on IT metrics
 Begin creation of a three year Information Technology Strategic Plan and corresponding resource plan
☐ Begin hiring additional resources for year one
Mid-Term (6 to 12 Months)
□ Have the IT strategic planning committee develop a governance structure, including a process to create and manage the TIF charter (guidelines, and reasonable expectations for annual allocations)
□ Launch IT strategic plan to campus and community
□ Secure initial funding for TIF
■ Begin taking proposals for technology projects
■ Make decisions on funded projects
Long-Term (12+ Month)
Provide funding for initial round of projects
□ Review performance metrics to peers





A high-level implementation plan with important milestones is presented below:

			20	13								201	14					
Milestone	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Announce IT Strategic Plan																		
Ad-Hoc Committee on Research Computing																		
IT Strategic Plan																		
Resource Plan for IT Strategic Plan and Research Computing																		
Governance Structure and TIF Structure																		
Launch IT Strategic Plan																		
Secure TIF Funding for Pilot Project																		
Receive Proposals for TIF and Select Pilot Project																		
Determine Resource Allocations for IT Strategic Plan and TIF																		
Launch Formal TIF Initiative																		
Launch 2014 IT Strategic Initiatives (Consistent with Plan)																		



RESOURCES

The technology plan calls for \$500K to augment the IT staff at TTU by 11 staff positions with additional resources to be allocated to IT. Plans for additional resources will result from the planning processes outlined in this action plan.

Resource Estimates

Category	Recurring	One-Time
Labor	TBD	
Non-Labor		
Total		

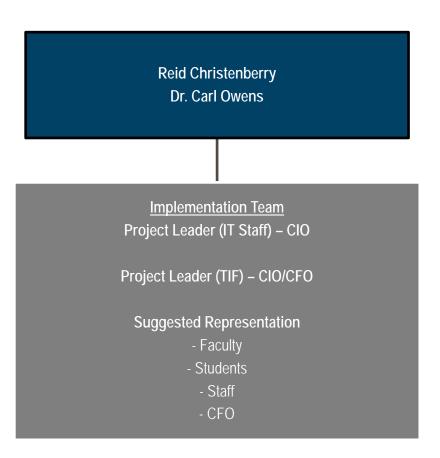
Detailed Description of Resource Needs

- Labor
 - 11 staff position hires to IT services (Year 1)
 - Additional positions to be determined; funding secured
- Non-Labor
 - TBD

ACCOUNTABILITY



This plan will be led out of IT with significant stakeholder engagement.



Accountability Plan

Flight Plan Leaders

Technology Leaders - Reid Christenberry, Dr. Carl Owens

Implementation Team

- The CIO will lead the IT strategic plan
- The strategic plan will be crafted by a committee with representation from:
 - Faculty
 - Staff
 - Students
 - CFO

Status Reporting

- Monthly status reports to be submitted to Flight Plan Leaders
- Reports will include:
 - Progress to completion
 - Issues preventing on-time completion
 - Feedback on items that should be communicated to other Action Plan teams





The objective of this plan is to augment the overall student experience for undergraduates by promoting and encouraging, co-curricular activities.

	SUMMARY	
Description	Objective	Success Metrics
 Redesign TTU's undergraduate programs to emphasize co-curricular activity in order to better prepare 	ObjectiveEmphasize the co-curricular undergraduate experience to distinguish	 Flight Plan Metrics 1st to 2nd Year Retention Rate
students to solve real-world problems	TTU from peers	 Six Year Graduation Rate
 Promote Undergraduate Research (URECA Funds) 	with undergraduate curricula	į
		Operational Metrics
Expand co-ops	Promote cross-discipline work	 Number of students participating in undergraduate research
 Sponsor service learning 	Link to Flight Plan	
 Encourage study abroad 	 Increase co-curricular undergraduate programs to establish a distinctive environment at TTU 	 Number of students receiving credit for study abroad coursework
		 Number of students receiving co-op positions (particularly in engineering)
		 Number of students in service learning programs



CONTEXT FOR ACTION

There is the desire among faculty and students to enhance current programs and highlight the opportunities available from alternative learning experiences.

	Context	Peers/ Trends in Higher Education
•	Flight Plan identified the desire of faculty, staff, and students to expand emphasis on real-world problem solving into undergraduate curriculum	 Peer Context: SUNY-Binghamton provides an alternate transcript that details a student's co-curricular and leadership activities
•	While undergraduate engineering students are frequently able to secure co-op positions during the year, students from other disciplines would like similar experiences	Miami University includes co-curricular experiences with the Honors program
•	Increasing service learning opportunities complements THEC's plan for comprehensive skill development	Clemson University offers both online (classroom) and outside-the-classroom co-curricular experiences Translation University offers both online (classroom) and outside-the-classroom co-curricular experiences
		 Trends in Higher Education: Purdue University found that "highly-engaged" students in co-curricular activities had higher retention and success rates
		 The AAUC has highlighted a number of high-impact educational opportunities, including: Collaborative assignments/projects Undergraduate Research
		 Service learning/Community-based Learning Diversity/Global Learning Capstone Projects / Internships



ACTION STEPS

Near-term opportunities will focus on establishing an administration for tracking co-curricular participation and encouraging participation to both faculty and students.

Action Steps
Near-Term (1 to 6 Months)
☐ Appoint a faculty-led group to develop strategy and implementation oversight for co-curricular program expansion
□ Establish an Office of Undergraduate Research
□ Launch pilot undergraduate research projects
☐ Coordinate existing co-curricular programs and evaluate ways to make programs more robust
□ Evaluate opportunities to recognize co-curricular achievements for student records
Mid-Term (6 to 12 Months)
□ Identify requirements for co-curricular activities and connect them with evaluation criteria
□ Develop expansion plans with resource estimates for study abroad, service learning and co-ops
Long-Term (12+ Month)
□ Launch co-curricular transcript
□ Evaluate co-curricular requirement





A high-level implementation plan with important milestones is presented below:

			20	13			2014													
Milestone	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
Appoint faculty oversight group on co-curricular programs																				
Establish an Office of Undergraduate Research																				
Undergraduate Research Program Development																				
Coordinate Co-Curricular Programs / Develop Ideas																				
Undergraduate Research Pilot Programs																				
Co-Curricular Program Evaluation and Student Record Creation Plan (Co-Curricular Transcript)																				
Co-Op Expansion Plan and Resources																				
Study Abroad Expansion Plan and Resources																				
Service Learning Expansion Plan and Resources																				
Resource Decisions																				
Launch Co-Curricular Transcript																				
Expand Co-Op, Study Abroad and Service Learning																				



RESOURCES

The initial phase plan calls for nearly \$300K to add resources to support undergraduate research. Future resources will be required to address co-cop, study abroad and service learning expansion.

Resource Estimates

Category	Recurring	One-Time
Labor	\$60,000	\$0
Non-Labor	\$230,000	\$0
Total	\$290,000	\$0

Detailed Description of Resource Needs

Labor

Necessary personnel to establish an Office of Undergraduate Research (Director, release time, administrative staff, etc.)

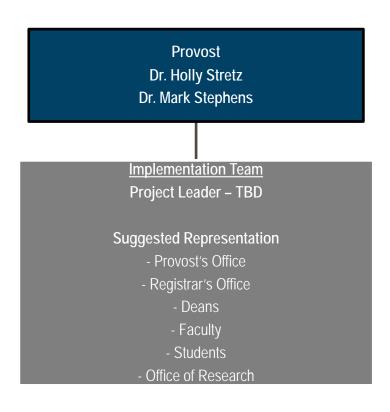
Non-Labor

- Additional URFCA funds
- Equipment and office expenses
- Faculty development
- Marketing





This plan will be led out of the Provost's Office.



Accountability Plan

Flight Plan Leaders

- Provost
- Distinctiveness Leaders Dr. Holly Stretz, Dr. Mark Stephens

Implementation Team

- Project Leader- To be appointed
- Team to include representation from:
 - Provost's Office
 - Registrar's Office
 - Deans
 - Faculty
 - Students
 - Office of Research

Status Reporting

- Monthly status reports to be submitted to Flight Plan Executive Team
- Reports will include:
 - Progress to completion
 - Issues preventing on-time completion
 - Feedback on items that should be communicated to other Action Plan teams

#7 - Research Innovation





The objective of this action plan is to develop an incubator system to promote inter-disciplinary research among faculty members.

Actio	n Summary – INNOVATION INCUBATOR (IE	DEAS)
Description	Objective	Success Metrics
 Create a Multidisciplinary Innovation Incubator to cultivate promising and distinctive research opportunities with an end goal of promoting commercialization Develop common criteria (NSF-style) and faculty oversight to select promising ideas and provide short-term support to ready the opportunity for external funding 	 Objective Surface prospects for new, distinctive research opportunities Offer new, collaborative programs that fit the educational needs of the state of Tennessee Link to Flight Plan Invigorating faculty to collaborate and explore research opportunities is an essential component of Flight Plan 	 Flight Plan Metrics Total Research Expenditures/Full-time Tenured Faculty Doctoral Degrees Conferred Master's Degrees Conferred Operational Metrics Number of cross-appointments for faculty members Number of projects funded through the innovation incubator

#7 - Research Innovation

CONTEXT FOR ACTION



IDEAS is intended to identify, select, and cultivate new interdisciplinary research opportunities on a competitive basis.

	Context	Peers/ Trends in Higher Education
•	As the only "Technological" university in the state of Tennessee, TTU requires a more robust research and innovation profile	Peer Context: The Clemson University CyberInstitute serves as an "incubator of transdisciplinary research, empowering students, researchers, and educators to contribute, and
•	Creating a NSF-style application process can support innovative faculty members with new, and distinctive, interdisciplinary research ideas The idea is to support faculty teams over a short period of time to incubate and ready the opportunity for external funding	 compete in, today's knowledge-based economy" The CyberInstitute engages with scholars and researchers in all disciplines, including those in the humanities and social sciences, to help them "leverage existing resources and take advantage of new knowledge and technologies to transform their research"
		 Broad Trends in Higher Education: Inter-disciplinary research/collaboration that produces technological innovation is a focus of funding agencies

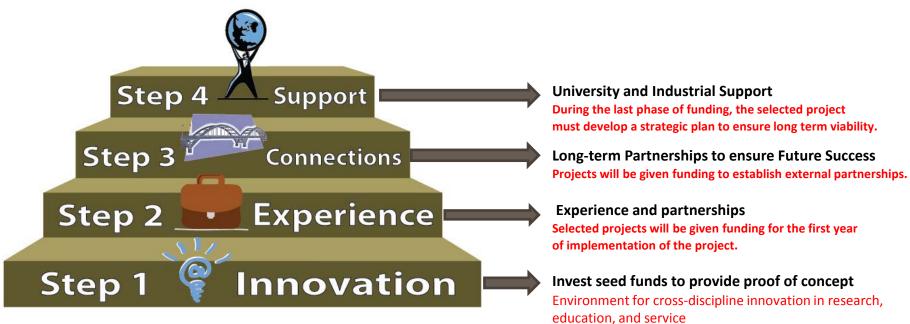
#7 – Research Innovation





The following is a conceptual model that the Committee may consider as it develops the incubator.





*Graphics created by Dennis George

#7 - Research Innovation





Near-term actions will concentrate on establishing a governance structure for funding ideas and requesting proposals.

Action Steps
Near-Term (1 to 6 Months)
□ Establish a governance structure for the innovation committee
□ Adopt selection criteria and terms of support (timeframe, deliverables, expectations, resources)
□ Launch ad-hoc research computing review (note: action to be sponsored in technology team)
Mid-Term (6 to 12 Months)
□ Call for proposals for additional pilot projects(s)
□ Receive report of findings
Long-Term (12+ Month)
□ Secure funding for additional pilot projects
□ Re-think patents and invention disclosures to foster innovation
☐ Incentivize faculty to start new ventures

#7 - Research Innovation





A high-level implementation plan with important milestones is presented below:

			20	13								20	14					
Milestone	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Establish governance structure and committee																		
Develop selection criteria and terms of support																		
Ad-hoc committee on research computing (via technology team)																		
Pilot project funding and selection																		
Call for additional proposals																		
Secure funding for second round of pilot projects																		
Revisions to criteria and terms based on pilot																		
Fund second round of pilot projects																		

#7 – Research Innovation

ACCOUNTABILITY PLAN



This plan will be led out of the Research Office.



Accountability Plan

Flight Plan Leaders

- Vice President, Research
- Distinctiveness Leaders Dr. Holly Stretz, Dr. Mark Stephens

Implementation Team

- Project Leader- Research (TBD)
- Project team to include representation from:
 - Office of Research
 - Provost's Office
 - Faculty

Status Reporting

- Monthly status reports to be submitted to Flight Plan Executive Team
- Reports will include:
 - Progress to completion
 - Issues preventing on-time completion
 - Feedback on items that should be communicated to other Action Plan teams

IMPLEMENTATION PLAN



The objective of this plan is to increase the total number of graduate and Ph.D. degrees conferred with new offerings in high-demand fields.

		SUMMARY	
	Description	Objective	Success Metrics
•	Offer new Graduate Degrees in high- demand fields Educate and support faculty on the structure for evaluating and developing new graduate programs	 Objective Increase the quantity and quality of TTU's Graduate Degrees Offer new programs in growing fields, especially STEM-related fields 	 Flight Plan Metrics Doctoral Degrees Conferred Master's Degrees Conferred Total Research Expenditures/Full-time Tenured Faculty
		 Link to Flight Plan Adding new degree programs is a major component of Flight Plan Graduate degree programs in targeted areas will increase the research emphasis of the institution and provide more STEM-related offerings to students 	 Operational Metrics Number of Graduate Degrees offered Number of graduate students enrolled Number of Ph.D. students enrolled

CONTEXT FOR ACTION



Offering new, targeted graduate programs aligns with CCTA goals, while simultaneously fulfilling demand from Tennessee residents for certain programs.

Context	Peers/ Trends in Higher Education
 Moving forward, the added emphasis on increasing TTU's research profile will call for the institution to add additional Master's Degree offerings and/or concentrations 	Peer Context: Not all aspirational peers are currently offering Professional Science Master's programs
The Complete College Tennessee Act metrics include both PhDs and Master's Degrees conferred	James Madison University is launching an Online Ph.D. Program in Nursing in Spring, 2014
To date, the majority of faculty have misconceptions about the evaluation and approval process for establishing new Graduate programs	University of New Hampshire's Ph.D. in Nursing program offers online and hybrid classes as part of the curriculum
Cradatio programs	Trends in Higher Education:
	"New advanced practice nurses can anticipate needing or being strongly encouraged to get a doctor of nursing practice (D.N.P.) degree beginning in about 2015"- US News
	Between 2008 and 2010, the number of universities offering a Master's degree in Professional Sciences nearly doubled as students see the degree as "hybrid" and "agile" – NYTimes.com

ACTION STEPS



Near-term actions will focus on clarifying the process to launch new graduate programs.

Action Steps
Near-Term (1 to 6 Months)
□ Develop a clear, and communicative, methodology for faculty to establish new graduate programs, including multi-disciplinary programs
☐ Hold a symposium to teach faculty about the process
□ Launch additional Professional Sciences Master's (PSM) Degree concentrations
□ Develop, and communicate, protocols on PSM concentrations
Mid-Term (6 to 12 Months) Continue launching additional Professional Sciences Master's Degree concentrations
□ Faculty begin writing proposals for new programs
□ Faculty review new proposals with Provost's office and make decisions
Long Torm (12, Month)
Long-Term (12+ Month)
□ Complete proposal for Nursing Ph.D. Program with ETSU





A high-level implementation plan with important milestones is presented below:

			20	13			2014											
Milestone	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Clarify methodology for new or expanded graduate programs																		
Add initial PSM concentrations to the Master's Program																		
Host workshop for faculty on creating new programs																		
Continue developing and launching PSM concentrations																		
Provost's Office receives faculty proposals on new programs																		
Send Ph.D. in Nursing proposals (with ETSU) to TBR for approval																		

ACCOUNTABILITY PLAN



This plan will be led out of the Provost's Office.



Accountability Plan

Flight Plan Leaders

- Provost
- Distinctiveness Leaders Dr. Holly Stretz, Dr. Mark Stephens

Implementation Team

- Leader- To be appointed
- Project team to include representation from:
 - Provost's Office
 - Deans
 - Faculty

Status Reporting

- Monthly status reports to be submitted to Flight Plan Executive Team
- Reports will include:
 - Progress to completion
 - Issues preventing on-time completion
 - Feedback on items that should be communicated to other Action Plan teams

IMPLEMENTATION PLAN



The objective of this plan is to promote digital learning techniques to interested faculty and encourage them to revamp their undergraduate courses.

	SUMMARY	
Description	Objective	Success Metrics
 Invigorate and support faculty to offer advanced support for technology in teaching Course Redesign (flipping classrooms, hybrid courses) Approach for incorporating MOOCs and other digital innovations Provisioned Mobile Devices Classroom Technology Upgrade Utilize the TBR's new relationship with Coursera to capitalize on opportunities that fit well with the desires of TTU's faculty 	 Objective Promote digital instruction that suits faculty interests and fulfills demand for more instant communication channels Link to Flight Plan Supporting faculty as they approach technology in the classroom is another pillar of Flight Plan This action enables interactive learning with a digital component and incorporates hybrid class learning techniques to fulfill student demand 	 Flight Plan Metrics 1st to 2nd Year Retention Rate Six Year Graduation Rate Master's Degrees Conferred Bachelor's Degrees Conferred Operational Metrics Number of faculty participating in course redesigns Number of redesigned courses

CONTEXT FOR ACTION



Digital instruction methods are becoming increasingly integrated among aspirational peers, and offer an additional medium for distribution of education.

Context	Peers/ Trends in Higher Education
Student feedback informed the <i>Flight Plan</i> steering committee of a desire to have content delivered through multiple formats	 Peer Context: Each of the five aspirational peers are either practicing the "Flipping the Classroom" model or are in the process of exploring implementation
Utilizing mobile technology and "Flipped classrooms" offers alternatives to the traditional classroom and fulfills the needs of those students seeking an alternative experience	 Miami University recently implemented their The Top 25 Project focusing on redesigning the university's highest enrollment courses and placing the student at the very
General classroom technology upgrades are needed to bring TTU closer to market competitors by offering a comparable, if not enhanced, experience	 center of the learning experience Trends in Higher Education: Both faculty and administrators are actively searching for
The recent TBR agreement with <i>Coursera</i> can assist TTU administration, as well as faculty, by offering a proven platform for experimenting with new online formats	 Universities are investing in "smart" classrooms that can easily interact with different types of mobile devices to enhance the classroom experience and allow students better access to faculty content





Near-term efforts will concentrate on educating faculty about different opportunities while determining the best course of action for applying technology in the classroom.

Action Steps
Near-Term (1 to 6 Months)
□ Engage faculty on course redesign process
☐ Hold an assessment period to determine prospective courses for re-design by enrollment and faculty interest
□ Determine technological needs in the classroom to implement re-designed courses
□ Develop resource plan for implementation
□ Engage colleges on necessary upgrades to technology
☐ Select pilot courses based on assessment period results and faculty desires
Mid-Term (6 to 12 Months)
□ Secure release time for selected faculty
□ Redesign courses (hybrid course, Flip the Classroom, etc.)
☐ Implement mobile device usage in classroom
Long-Term (12+ Month)
□ Launch pilot courses





A high-level implementation plan with important milestones is presented below:

	2013						2014											
Milestone	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Faculty engagement																		
Course re-design Assessment Period																		
Overall classroom technology assessment																		
Define need, determine approach to service, and establish criteria and terms of course selection																		
Engage colleges and experiment with pilot programs																		
Evaluate pilot programs and develop plan for broader initiative																		
Develop resource plan and secure resources for Year 1																		
Engage colleges to identify courses tor program																		
Redesign applicable courses																		
Launch Redesigned courses																		

ACCOUNTABILITY PLAN



This plan will be led out of the Provost's Office.



Accountability Plan

Flight Plan Leaders

- Provost
- Distinctiveness Dr. Holly Stretz, Dr. Mark Stephens

Implementation Team

- Project Leader- Provost
- Project team to include representation from:
 - Provost's Office
 - Deans
 - Faculty
 - CIO and IT Staff

Status Reporting

- Monthly status reports to be submitted to Flight Plan Executive Team
- Reports will include:
 - Progress to completion
 - Issues preventing on-time completion
 - Feedback on items that should be communicated to other Action Plan teams

#10 - Enrollment, Tuition, and Scholarships





The objective of this plan is to institute a data-driven enrollment model to evaluate and optimize enrollment.

	SUMMARY								
Description	Objective	Success Metrics							
Assess current state of enrollment management offices to determine priorities		 Flight Plan Metrics Undergraduate FTE Enrollment Bachelor's Degrees Conferred 							
Implement a data-driven enrollmetuition model	of-state, high performing, etc.) to	Operating Expenditures per Student FTE							
Evaluate current and future in-state out-of-state undergraduate enrolling plans	 Link to Flight Plan A data-driven enrollment and tuition model represents a proactive 	 Operational Metrics Net tuition revenue In-state vs. out-of-state mix 							
 Increase scholarships through fundraising 	approach to targeted enrollment growth								

#10 - Enrollment, Tuition, and Scholarships



CONTEXT FOR ACTION

To date, scholarship dollars are provided to students without significant data to support their potential return on investment to the institution.

	Context	Peers/ Trends in Higher Education	
•	TTU has very limited control over tuition due to legislative constraints	 Peer Context: Clemson University embarked on an enrollment management assessment to forge a long-term and data- 	
•	A data-driven enrollment and tuition model is not currently in place	driven methodology for admissions and financial aid	
		Trends in Higher Education:	
•	Student and administrator feedback determined that financial aid packages are not conveyed to prospective students early enough in the admissions process	 Universities use discounting for a variety of strategic purposes 	
		While tuition discounting has traditionally been practiced at small, private institutions (with high rates), medium-to-large public schools have also begun adopting these practices	
		"Tuition discounting reached a record high in 2011-12 at private nonprofit colleges, but that common technique for attracting students often failed to have the desired effect, especially at small, less-selective institutions" – NACUBO	

#10 - Enrollment, Tuition, and Scholarships



ACTION STEPS

Near-term actions will focus on evaluating the current state and implementing a fully-functional model; in the long-term, scholarship decisions will be made via the model.

Action Steps							
Near-Term (1 to 6 Months)							
■ Assessment of admissions data, current processes, and technology capabilities							
□ Evaluation of current enrollment strategy for TTU residents and non-residents							
□ Prioritize future changes in strategy and operations							
□ Start scholarship fundraising efforts							
Mid-Term (6 to 12 Months)							
Structure the beginnings of a data-driven enrollment and tuition model that integrates scholarship and financial aid offerings to make admissions and financial aid offerings in a timely manner (comparable to other TBR institutions)							
□ Develop the model							
☐ Train enrollment management and admissions staff							
□ Launch model							
Long-Term (12+ Month) Apply new model to admissions and financial aid decisions for the entering transfer class in Spring, 2014 and all students in Fall, 2015							

#10 – Enrollment, Tuition, and Scholarships





A high-level implementation plan with important milestones is presented below:

	2013							2014										
Milestone	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Admissions Assessment																		
Financial Aid Assessment																		
Evaluation of Current Strategies																		
Finalize Action Steps and Resource Plan																		
Scholarship Fundraising																		
Begin Structuring Data-Driven Financial Aid Decision Model																		
Develop Model																		
Launch Model																		
Continuous review, model evaluation, and improvement																		
Apply Model to Decision Making																		

#10 - Enrollment, Tuition, and Scholarships





This plan will be led through a combination of the Business Office and Office of Enrollment Management.

Infrastructure - Dr. Claire Stinson, Dr. Ken Wiant Undergraduate - Dr. Bobby Hodum Implementation Team Leader - TBD **Suggested Representation** - Enrollment Management - Financial Aid - CFO Office

Accountability Plan

Flight Plan Leaders

- Infrastructure & Resources Dr. Claire Stinson, Dr. Ken Wiant
- Undergraduate Dr. Bobby Hodum

Implementation Team

- Leader- To be determined
- Project team to include representation from:
 - Enrollment management
 - Financial Aid
 - CFO's Office

Status Reporting

- Monthly status reports to be submitted to Flight Plan Leaders
- Reports will include:
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 - Feedback on items that should be communicated to other Action Plan teams

IMPLEMENTATION PLAN



The objective of this plan is to enhance Tennessee Tech's campus and infrastructure based on prioritized needs.

		SUMMARY								
	Description	Objective	Success Metrics							
•	Add new academic space and renovate classrooms	ObjectiveMake it simpler for stakeholders to travel to, from, and around campus	Flight Plan MetricsOperating Expenditures per Student FTE							
•	Enrich university physical infrastructure to address the student experience: - Intramural sports - "Commons" space - Dining Enhance exterior university spaces: - Green space - Parking - Roads - Signage	 Create a well-defined main entrance to campus to signal to the community when someone is on campus Provide students and faculty with enhanced space Link to Flight Plan A key Flight Plan recommendation was to upgrade overall physical 	 Operational Metrics Number of parking spaces Total number of descriptive signs posted outside of campus buildings Progress towards development and completion of the landscape master plan 							
	 Landscape master plan 	infrastructure to improve the student experience and support faculty and staff								

CONTEXT FOR ACTION



Outdoor space development has been delayed in recent years due to a backlog of deferred maintenance initiatives that have taken priority over green space enhancement efforts.

Context	Peers / Trends in Higher Education
 Classrooms and academic spaces in many buildings are outdated There are currently a number of limitations across campus affecting the student experience: Insufficient intramural sports opportunities Limited collaborative study space Limited dining capacity and diversity 	 Peer Context: Clemson University provides an information system on all on- and off campus facilities to aid the public in identifying and locating facilities Miami University sets up "Green Space" networks to ensure that their wireless is reachable to outdoor areas
Many of TTU's buildings on campus mirror one another in their design, making it difficult for those unfamiliar with campus to navigate	 Trends in Higher Education: Increasing signage across campus can have a direct impact on admissions process
Lack of green space contributes to some students' perception of TTU as a commuter school	Some campuses have turned to digital signage to promote the sharing of vital information
There are not enough parking spots on campus to accommodate all commuter students along with faculty and staff (this need will increase in order to support campus growth and a loss of parking for new buildings)	According to a study by Texas State University, the presence of green space plays a large role in enhancing the overall quality of life for many undergraduate students

ACTION STEPS



Near-term actions will focus on identifying potential areas for development and enhancement, specifically areas that promote the student experience.

that promote the statent experience.
Action Steps
Near-Term (1 to 6 Months)
☐ Identify space for large classrooms
 Define classroom structure suitable for differing teaching needs and styles across faculty, disciplines, and courses
□ Launch event management software
Evaluate needs for intramural sports
☐ Tie external items into the refined campus Master Plan
 Identify locations within academic buildings and the University Center for improved common space
 Identify locations for development of new dining space
 Identify green space needs
☐ Identify building signage needs
□ Conduct campus traffic/parking study
Mid-Term (6 to 12 Months) to
Develop resource and fundraising plan
Prioritize year one projects
□ Fund projects
Long-Term (12+ Months)
□ Launch funded projects





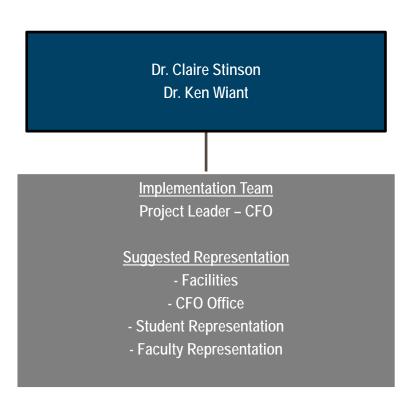
A high-level implementation plan with important milestones is presented below:

	2013							2014											
Milestone	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Identify academic space for renovation																			
Identify development areas for athletic facilities																			
Launch event management software																			
Identify refined campus Master Plan additions																			
Identify signage needs																			
Launch traffic/parking study																			
Prioritize year one opportunities																			
Develop resource plan																			
Commence with funded projects																			

ACCOUNTABILITY PLAN



This plan will be led through a combination of the Business Office and Facilities Management.



Accountability Plan

Flight Plan Leaders

Dr. Claire Stinson, Dr. Ken Wiant

Implementation Team

- Project Leader- CFO
- Project team to include representation from:
 - Facilities
 - CFO's Office
 - Student Representation
 - Faculty Representation

Status Reporting

- Monthly status reports to be submitted to Flight Plan Leaders
- Reports will include:
 - Progress to completion
 - Issues preventing on-time completion
 - Feedback on items that should be communicated to other Action Plan teams





The objective of this plan is to increase administrative efficiency and effectiveness.

	SUMMARY								
Description	Objective	Success Metrics							
 Improve efficiency and effectiveness through optimizing and automating business processes: Recruiting, Hiring, and Onboarding 	 Objective Simplify administrative processes to improve efficiency and effectiveness Leverage technology to automate 	Flight Plan MetricsOperating Expenditures per Student FTE							
 Purchasing Scheduling/Registration Utilize effective, collaborative, and technology-enabled tools Electronic Workflow / Microsoft SharePoint Mobile Applications Push Technology 	Link to Flight Plan Effective use of human and financial resources by making processes more efficient	 Operational Metrics Project dependent metrics (examples): Recruiting, Hiring, and Onboarding - Time to complete a new hire process Purchasing - Number of suppliers in an individual product category 							

CONTEXT FOR ACTION



Many of TTU's current business processes are cumbersome, inefficient, and time-consuming, resulting in displeased stakeholders.

Context	Peers/ Trends in Higher Education
 The hiring process requires many pages of required regulations and burdens While purchasing is not a major issue for the institution, the process is not streamlined or automated Changes can be made to the registration and scheduling process that would increase service levels to students Collaborative sharing tools are not currently utilized on many paper-based business processes 	 Peer Context: In 2009, Clemson University's HR team identified an opportunity to streamline Clemson's hiring process The old process was filled with duplicate entries, wasted time, unnecessary paper, and an inefficient signature/approval model The new result was an electronic process that targeted the inefficient issues and aligned to their new strategic plan Trends in Higher Education: Many universities have adopted business process efficiency initiatives to streamline and automate administrative processes Public institutions are using a combination of state and locally-negotiated contracts in order to capture the best price on goods

ACTION STEPS



Near-term actions will focus on identifying problem processes and developing best-practice workflows.

Action Steps
Near-Term (1 to 6 Months)
□ Launch purchasing software and optimize procurement business processes
Implement revised hiring procedures
 Conduct study of current inefficient business processes
□ Engage feedback from administrators on inefficient processes
■ Determine appropriate areas to introduce collaborative tools (SharePoint)
Mid-Term (6 to 12 Months)
 Develop Phase 1 process optimization plan for scheduling and registration
 Adopt mobile technology/push communication to pilot on scheduling and registration
□ Determine continuous improvement cycle
□ Phase 2 process efficiency project selection
☐ Develop resource plan for Phase 2
Long-Term (12+ Month)
□ Launch Phase 2 process efficiency projects





A high-level implementation plan with important milestones is presented below:

	2013							2014												
Milestone	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
Procurement process implementation																				
Hiring process implementation																				
Determine registration and scheduling process optimization																				
Feedback on new candidate processes for future																				
Phase 1- Registration and scheduling implementation																				
Mobile app/push communication pilot																				
Continuous improvement cycle development																				
Phase 2 resource plan																				
Phase 2- process efficiency selection and optimization					·															
Phase 2- process efficiency implementation																				





This plan will be led through a combination of the Business Office with participation from IT.



Accountability Plan

Flight Plan Leaders

Dr. Claire Stinson, Dr. Ken Wiant

Implementation Team

- Leader- To be determined
- Project team to include representation from:
 - CFO's Office
 - Relevant process owners
 - IT staff

Status Reporting

- Monthly status reports to be submitted to Flight Plan Leaders
- Reports will include:
 - Progress to completion
 - Issues preventing on-time completion
 - Feedback on items that should be communicated to other Action Plan teams

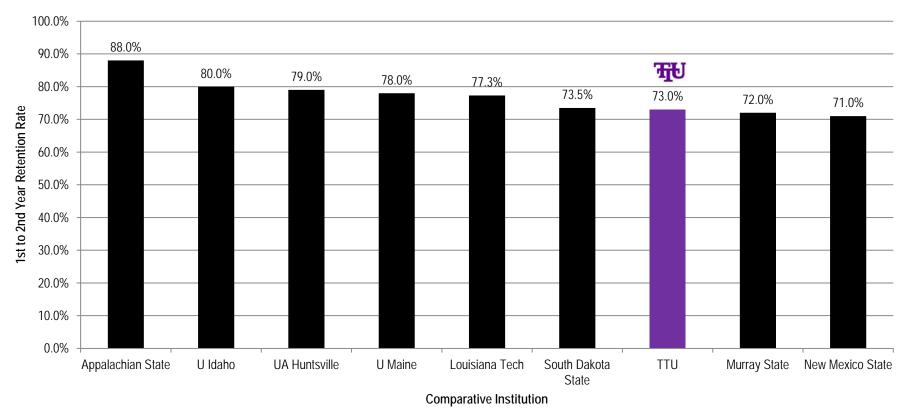
APPENDIX B: SELECT COMPARATIVE CHARTS

RETENTION



Tennessee Tech's 1st to 2nd year retention is in the bottom third.

1st to 2nd Year Retention

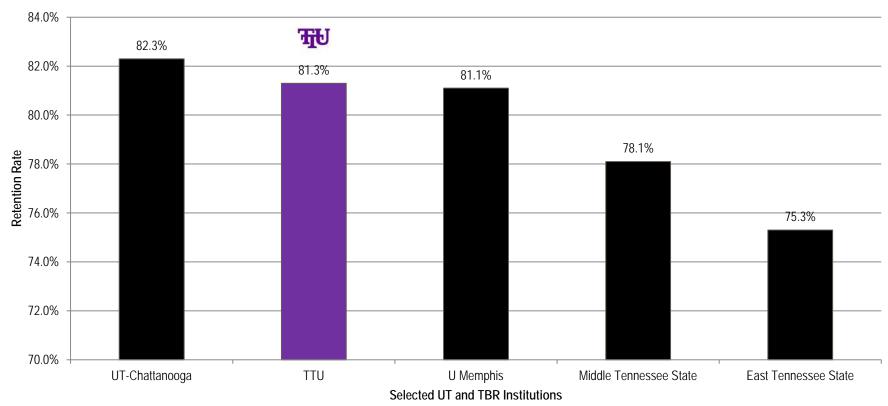






Tennessee Tech's 1st to 2nd year retention rate is near the top of the Tennessee Peer group.

1st to 2nd Year Retention Rate (FTFT Freshmen)



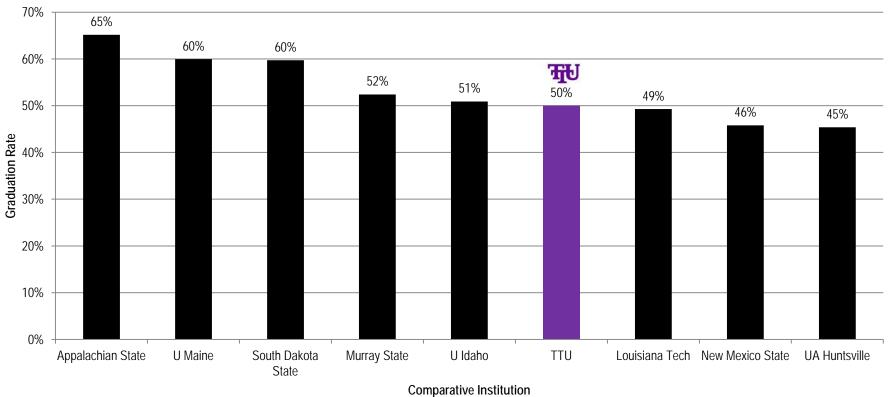
Data Source: THEC Factbook 2012-13, Table 2.1

SIX-YEAR GRADUATION RATE



TTU's six-year graduation rate is in the bottom half of the comparative peer set.

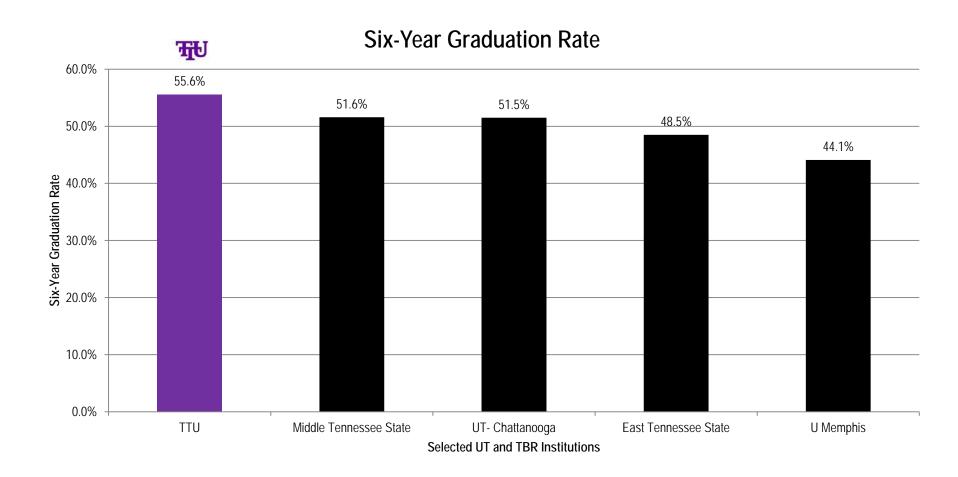
Six-Year Graduation Rate







Tennessee Tech's six-year graduation rate is the highest out of the selected Tennessee peers.



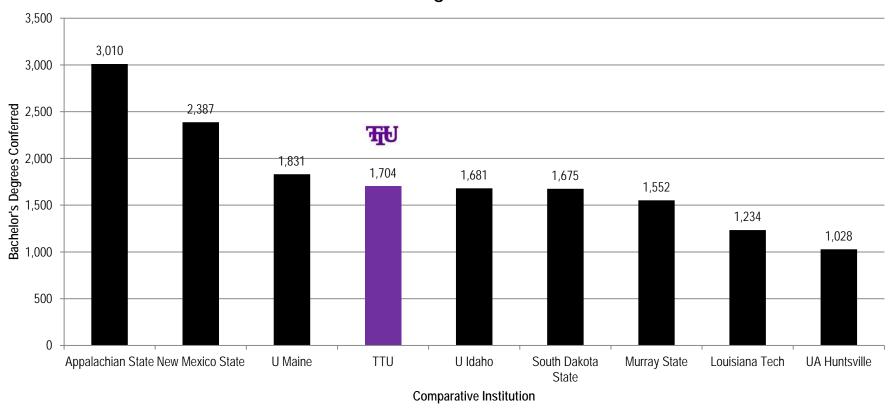
Data Source: THEC Factbook 2012-13, table 2.16





TTU's Bachelor's degrees conferred is also above the median of the comparative peer set.

Bachelor's Degrees Conferred

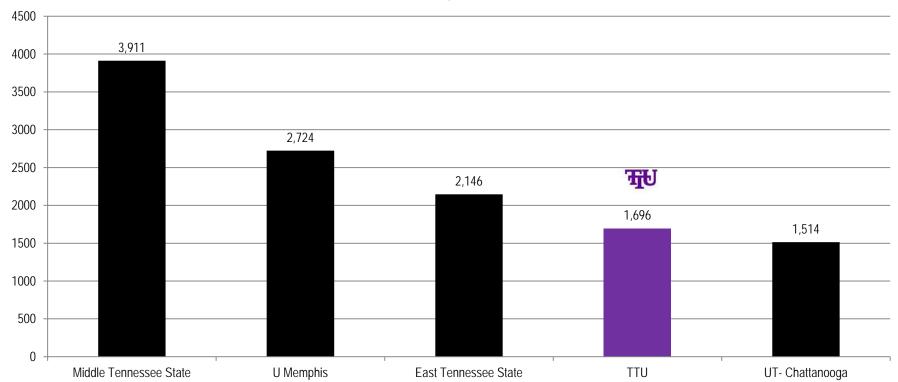






TTU confers the second lowest number of Bachelor's degrees in the peer set.

Bachelor's Degrees Conferred



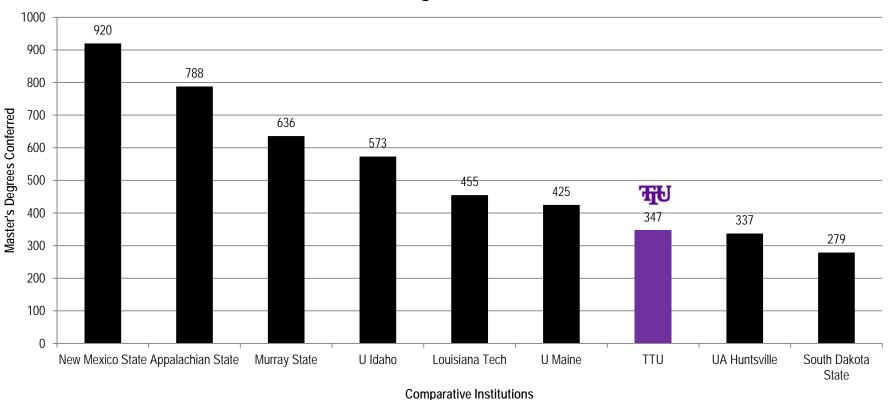
Data Source: THEC Factbook 2012-13, table 2.4





Master's degrees conferred are below average for the comparative peer set.

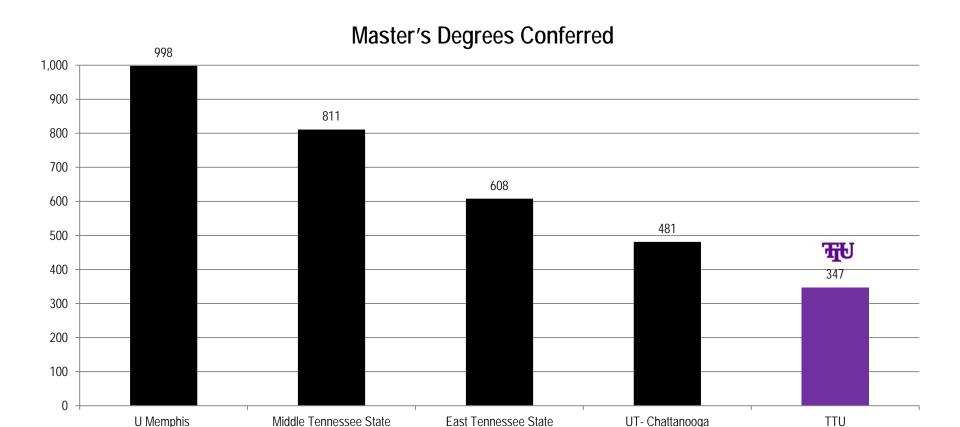
Master's Degrees Conferred







Master's degrees conferred is at the bottom of the selected Tennessee peers.



Data Source: THEC Factbook 2012-13, table 2.4