

DATE: January 27, 2011

SUBJECT: Academic Program Review

ACTION RECOMMENDED: Information

BACKGROUND INFORMATION: In January 2010, the Tennessee Higher Education Commission, in consultation with the two systems, began reporting annually on the status of all facets of academic program productivity. THEC had for many years reported the performance of new programs and established programs on a cyclic basis. These separate reports met statutory requirements that the Commission evaluate proposed and existing academic programs to ensure their quality and viability, certify program demand, and avoid unnecessary duplication.

The 2011 report, second in the series of annual reports, pulls together a comprehensive analysis of all program activity. The use of these data is fundamental to institutional, system, and state responses to the Complete College Tennessee Act of 2010 (CCTA). The comprehensive report and the data analysis behind it are intended to guide institutions in decisions about planning new programs, eliminating those for which student interest has diminished, and serving the state through mission distinction.

The CCTA constitutes the framework for the 2010-2015 state Master Plan for higher education, the outcomes-based funding formula, and the sharpened emphasis on institutional mission differentiation. This public agenda requires careful planning for academic programs that are characterized by quality and strategic funding to meet the transformative legislation's goals of increased state educational attainment and economic development.

The January 2011 Annual Academic Program Review incorporates improvements suggested from institutional application of the 2010 data.

- **Mission Distinctions.** This year's report has been changed to provide summary information on academic programs that are thriving along with those that are not meeting standard viability thresholds for minimum number of graduates. This report highlights top-producing statewide programs and top-producing programs at individual institutions. These analyses emphasize institutional mission differences, which should become more distinct as a result of both the operation of the outcomes-based funding formula and heightened mission focus in program planning. To assist institutions and systems in reinforcing mission priorities, especially for doctoral programs, THEC maintains publicly available web information on program productivity and program supply/demand data at:

www.state.tn.us/thec/Divisions/AcademicAffairs/AcademicAffairs.html

- **Resource Commitment.** This year's report tracks for the first time the actions that institutions and systems took over the year to terminate or to revitalize those programs identified as low-producing. Based on feedback from institutions and systems, Commission staff conducted analyses of low-producing programs to identify those degree fields which constitute core academic programs essential to the institution's general education infrastructure and were under-productive at more than three institutions. These core programs are excluded from the low-producing accountability, though institutions are expected to continue to monitor them.

The results of the upcoming year's program review, which will be reported in January 2012, should be additionally strengthened by revisions in THEC policy governing approval of program planning and implementation.

- **More Rigorous Assessment of Program Need.** In response to the 2010 review, THEC staff is recommending revisions in Commission policy governing the approval and monitoring of academic programs. Specifically, these revisions require that institutions demonstrate greater depth and quality of assessment of mission consonance and need for a new program at the earliest stage in the program planning process, the Letter of Intent to plan. The requirement of a full feasibility study and detailed financial projections at this step should reduce the number of programs the governing boards and THEC approve that eventually fail to meet institutional, system, and state expectations for productivity.
- **More Flexible Program Approval Calendar.** The final major policy revision is increasing the frequency at which the Commission will entertain approval of new programs to support institutional responses to demonstrated market demand. The policy change will place program approvals on the THEC agenda at each regularly scheduled Commission meeting rather than only in January and July.

The following comprehensive analysis presents the status of the four components of THEC academic program review:

1. **Program Approvals and Terminations: Net change in state program inventory.** The number of programs approved and programs terminated by institution, system, and state from January 2010 to January 2011.
2. **Post Approval Monitoring: New programs.** Assessment of success of new programs approved within the last five years against their projected enrollment, financial, and productivity goals.
3. **Academic Program Productivity Review: Programs in operation at least five years.** On-going monitoring of all programs in operation for more than five years to identify those that are not graduating a sufficient number of students.
4. **Program Accreditation and Program Evaluation: Performance Funding qualitative reviews.** Results of accreditation reviews, consultant evaluations, or academic audits of established programs as a Performance Funding qualitative measure.

THEC 2011 Comprehensive Academic Program Review Conclusions

The following summary statements represent the status as of January 2011 of the state academic program inventory of academic programs at all levels and certificate programs requiring at least 24 semester hours.

Program Approvals and Terminations: Net change in the state inventory of programs

A total of 32 new programs have been approved and a total of 37 have been terminated within 2009-10. Twenty-six (26) of these new programs are associates and certificates at community colleges. This activity indicates responsiveness to the work place needs, particularly in the establishment of certificates.

Post Approval Monitoring: New programs

Of the 79 new programs approved in the last five years and currently under Post-approval Monitoring, 29 (or 36 percent) are meeting institutional projections for enrollment and graduation.

The remaining 50 programs are failing to meet one of these projections, and 66 percent are failing to meet both standards.

Academic Program Productivity Review: Programs in operation at least five years

Fifteen (15) percent of established programs (all certificate and degree levels) delivered by Tennessee institutions are not meeting nationally used minimum number of graduates indicators.

Following last year's report, there were 214 of approximately 1,100 programs remaining as low-producing. The current report identifies 190 as low-producing. After excluding low-producing core service programs, the number is reduced to 168. This significant shift is attributed to the concerted efforts of both systems in terminating and consolidating low-producing programs.

In addition, Commission staff conducted analysis of low-producing programs to identify those degree fields that constitute core academic programs essential to general education infrastructure, and were under-productive at more than three institutions. Following these guidelines, 22 programs were extracted and identified as "Core CIP" programs, rather than as simply low-producing programs.

Tennessee supports 121 doctoral programs (excluding medicine, dentistry, pharmacy, veterinary medicine, and law). Close to 40 percent, or 46 of the 121 are either newly established (29) or are low-producing

(17). The continuing large number of low-producing doctoral programs that have been in operation five years or longer remains a resource allocation issue for institutions to monitor.

Program Accreditation and Program Review: Performance Funding qualitative reviews

During the last year, 100 programs were evaluated using the traditional external consultant review or the Tennessee-specific academic audit. Collectively, evaluation results revealed that 89 percent of all standards were satisfied.

Currently 556 programs are eligible for specialized accreditation by program field. Eligibility is determined when all Tennessee institutions agree on a specific accreditor as best representing qualitative standards for each discipline. All programs are accredited except for newly approved programs (27) and two programs where institutions elected not to seek accreditation. In those instances where accreditation was not achieved, institutions’ performance funding scores were negatively impacted.

Four Components of Annual THEC Program Evaluation

(1) Program Approvals and Terminations: Net change in state program inventory

The Commission has the statutory responsibility to review and approve new academic programs. New programs are developed as the needs and demands within the state warrant. The responsibility of program termination lies with the two governing boards, although the Commission staff may recommend termination to the TBR and UT systems. During 2010, the Commission approved a total of 10 new programs and the governing boards terminated 37 programs. The Board of Regents also approved 22 certificate programs that were less than 24 credit hours.

In recognition of institutional budget reductions, Dr. Rhoda approved through interim action only those new programs proposed as highest priority by the two system leaders. Additionally, during this period of budget reductions, new program start-up must be met through external funding sources or documented institutional redirection of existing funds. A complete listing of program approvals and terminations can be found in Appendix A.

Table 1: New Programs and Terminations

	New Programs	Terminations	Net Change
UT System	2	4	-2
TBR Universities	4	10	-6
TBR Community Colleges	26	23	3
Total Actions	32	37	-5

- Of the 32 new programs, 26 programs were approved at the associate or certificate level as meeting immediate demand for regional work force development. THEC also approved 2 master’s and 4 doctoral degree programs. Three of the four doctoral programs were approved in the field of Nursing Practice, in accordance with the recent endorsement of the Doctor of Nursing Practice as the entry level credential for advanced nursing practice.
- The majority of programs terminated by the governing boards were either at the pre-baccalaureate or baccalaureate level. One doctoral program, one Educational Specialist and 4 Master’s programs were removed from the state inventory.
- The majority of the 37 programs terminated were in the education field with an additional four programs terminated in the fields of Agriculture and Health Professions.

(2) Post Approval Monitoring: New programs

Newly approved programs remain in the Post Approval Monitoring cycle for five years at the baccalaureate level and above and three years for pre-baccalaureate programs. This review evaluates programs against enrollment and graduate ratios, program cost, program progress toward accreditation, and other goals agreed upon by the governing boards and THEC through program authorization. THEC notifies institutions when programs fail to meet these goals and requests plans to ensure program viability. THEC can recommend termination for those programs that do not, over the monitoring period, show improvement. The January 2011 Post Approval Monitoring report can be found in Appendix B.

Table 2: Summary of Post Approval Monitoring

	Programs Meeting Benchmarks	Programs Not Meeting Benchmarks	Delayed Programs
UT System	11	15	-
TBR Universities	11	21	-
TBR Community Colleges	7	14	1
Total	29	49	1

- Of the seventy-nine (79) programs reviewed during the 2010 Post Approval Monitoring cycle, 29 or 36 percent met the projections listed in the program proposal or exceeded productivity benchmarks.
- Forty-nine (49) programs did not meet projections or benchmarks, and will be required to submit Program Productivity Plans in the upcoming year.
- Seventeen (17) of the 50 programs that did not meet projections attained at least one standard in either enrollment or graduation.

(3) Academic Program Productivity Review: Programs in operation at least five years

Once a program completes the Post Approval Monitoring cycle, it is considered “mature” and is then evaluated through THEC’s Academic Program Productivity review. The purpose of this review is to ensure that demand for the programs continues as is evidenced by the number of graduates produced. This process identifies programs that are not meeting nationally-used graduate production benchmarks: an average of ten graduates per year over a five-year period for baccalaureate and pre-baccalaureate programs, an average of 5 for master’s programs over five-years, and an average of three for doctorates over this same period of time.

Using these reports as tools, the systems work with institutions in determining whether to terminate or commit necessary resources to strengthen low-producing programs. In so doing, institutions may retain programs that may not produce a desired number of graduates but may otherwise contribute to the general education curriculum in providing service courses or complementing other degree offerings. The THEC Academic Program Productivity study for the 2009-10 academic year can be found in Appendix C.

Table 3: Low-Producing Program Status – January 2011

	Reviewed Programs	Achieved Benchmark	Core CIP Programs	Pending Consolidation/ Termination	Retain	No Recommended Action
UT System	61	4	7	16	30	4
TBR Universities	71	7	15	4	25	20
TBR Comm Colleges	82	13	0	13	38	18
Total	214	24	22	32	94	42

Summary of Low Producing findings:

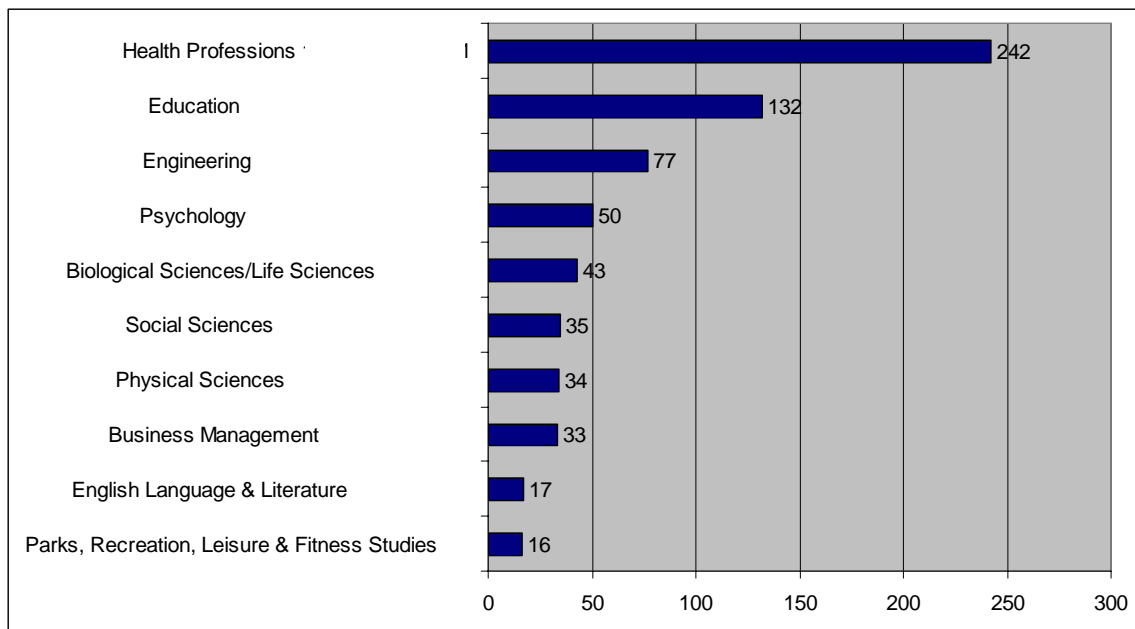
- Twenty-four (24) programs achieved benchmarks during the 2009-10 academic year, and will be removed from the low-producing list during next year’s review.
- Based on feedback from both the system and institutional level, Commission staff conducted analysis of low-producing programs to identify those degree fields which:
 - (1) Constitute core academic programs essential to the institution’s general education infrastructure, and
 - (2) Were under-productive at more than three institutions.

Following these guidelines, 22 programs were extracted and identified as “Core CIP” programs, rather than as simply low-producing programs, and are listed in Appendix D.

- Currently, 32 programs have either been terminated by governing boards or are awaiting action by TBR and UT. If students are enrolled in the program, it is phased out over time to allow all students the opportunity to graduate. Thus, terminating a program with enrolled students does not realize immediate cost savings. Furthermore, in many cases institutions preserve the field and the tenured faculty in it by lodging the terminated program as a concentration under another related degree program.
- Ninety-four (94) of the programs, or 44 percent, were previously recommended by the institution for retention. This recommendation was submitted to THEC at the January 2010 meeting with steps identified to improve overall program productivity or justification that the retained program contributed service courses to general education or academic minors.
- Thirty-five (35) academic programs failed to meet benchmark standards and did not receive any response or recommendation from the system or institution during the January 2010 low producing review. Seven doctoral programs listed as low-producing are new programs and were not evaluated during last year's cycle, and are thus without a response.

Productive Programs. This year's academic program review included analysis of not only low-producing programs, but also sought to identify those programs which are highly productive and are worthy of mention as successful academic programs. For the purposes of this report, degree production trends as a state were analyzed, and the top 10 academic program fields at the doctoral, master's, bachelor's, and associate levels were identified (Charts 4-7).

Chart 4: Top Producing Doctoral Programs, 2009-10 *



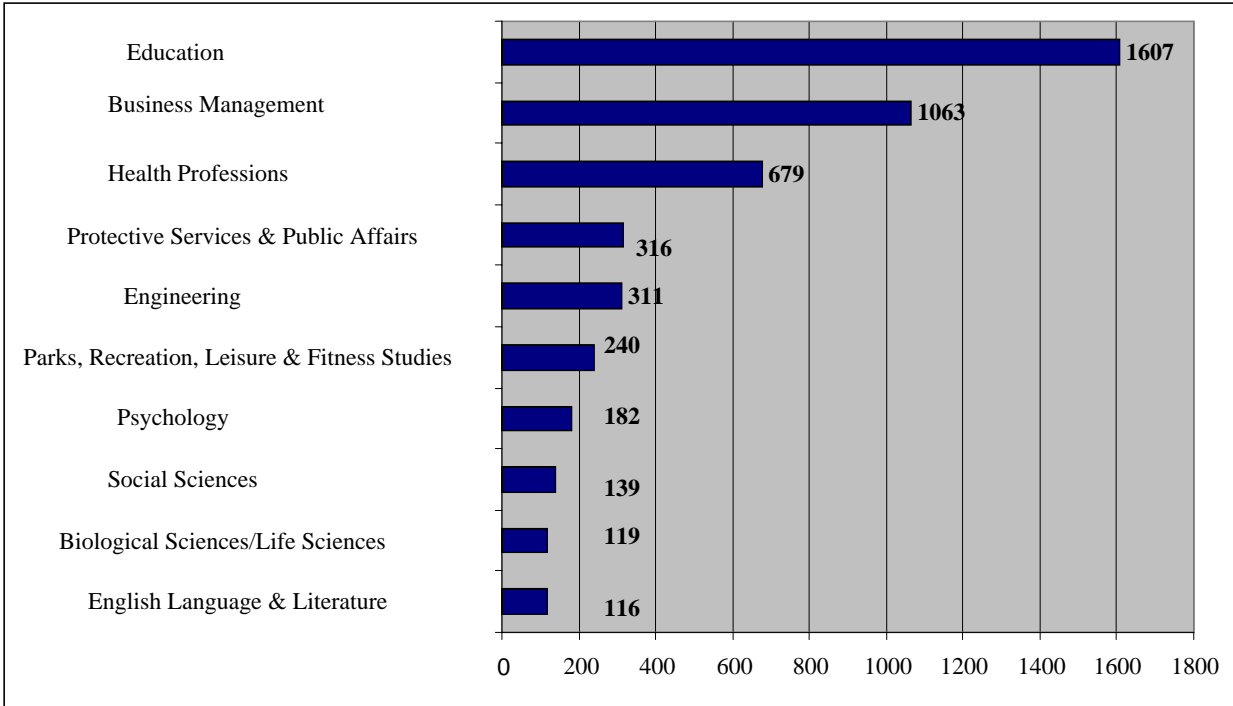


Chart 6: Top Producing Bachelor Degree Programs, 2009-10

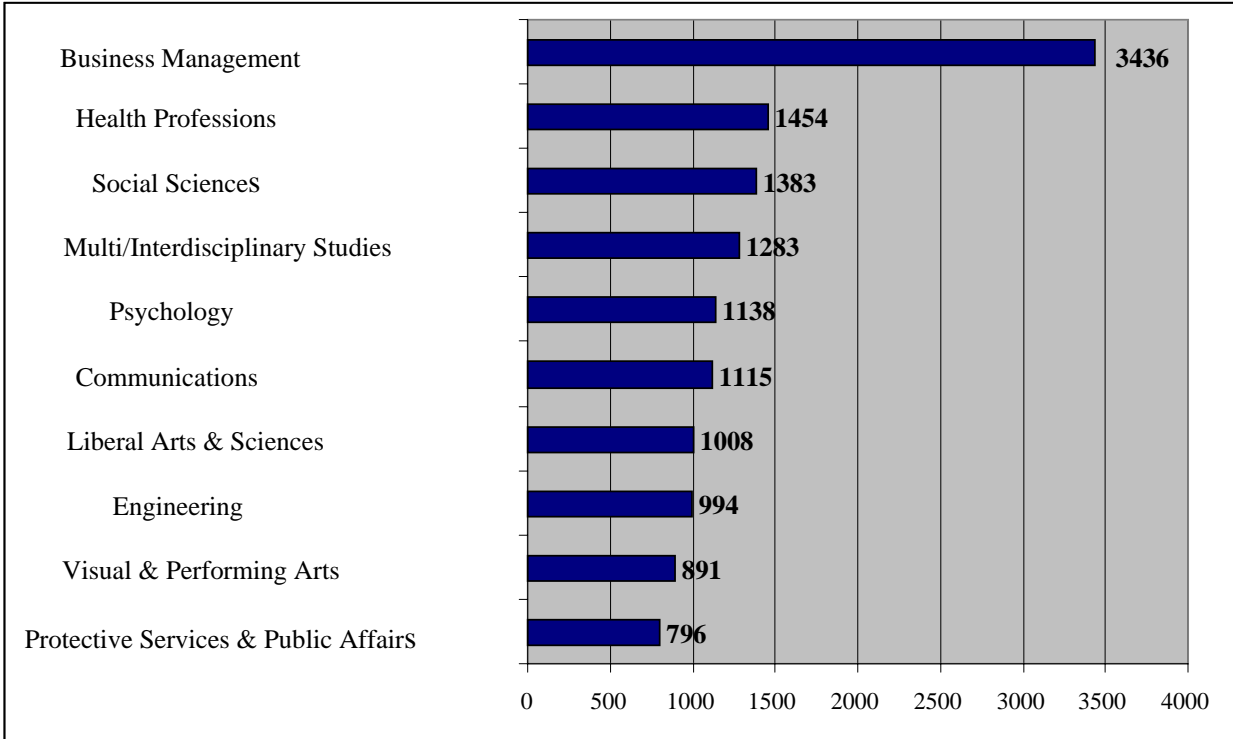
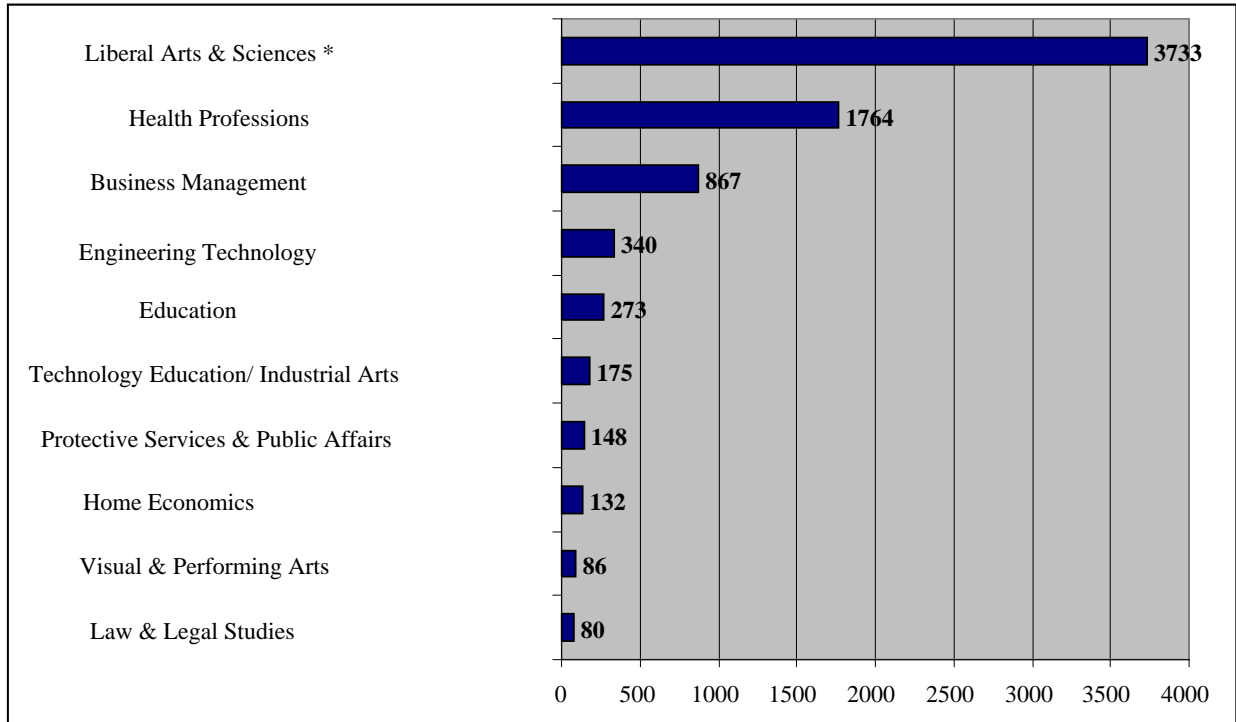


Chart 7: Top Producing Associate Degree Programs, 2009-10



* Liberal Arts and Sciences degrees represent the University Parallel Associate of Arts (AA) and Associate of Science (AS) degrees for students who intend to transfer to a four-year institution.

In addition, each institution's 2009-2010 Report of Graduates was individually analyzed to determine the top performing academic program at each degree level. These high producing programs, listed below, serve as an illustration of the existing mission distinctions between institutions. These distinctions are a key element of both the 2010-2015 Master Plan and the recently adopted funding formula.

**Top Producing Programs by Institution
2009-10**

University of Tennessee System

UT Chattanooga

Bachelor BS, Business Administration
Master's MBA
Doctoral DPT, Doctor of Physical Therapy

UT Knoxville

Bachelor BA, Psychology
Master's MS, Education
Doctoral PhD, Education

UT Martin

Bachelor BS, University Studies
Master's MSED, Teaching

UT Health Science Center

Bachelor BSN, Nursing
Master's MSN, Nursing
Doctoral DPT, Doctor of Physical Therapy

Tennessee Board of Regents 4 Year Institutions

Austin Peay State University

Bachelor BBA, General Business
Master's MAT, Teaching

Tennessee State University

Bachelor BS, Education
Master's MSN, Nursing
Doctoral DPT, Doctor of Physical Therapy

East Tennessee State University

Bachelor BSN, Nursing
Master's MSN, Nursing
Doctoral DPT, Doctor of Physical Therapy

Tennessee Tech University

Bachelor BS, Education
Master's MA, Instructional Ldrship.
Doctoral PhD, Engineering

Middle Tennessee State University

Bachelor BS, Mass Communication
Master's MBA
Doctoral PhD, Public History

University of Memphis

Bachelor BPS, Individual Studies
Master's Instructional Leadership
Doctoral PhD Business Admin

Among two year institutions, Associate degree programs in the Liberal Arts are the most productive programs at 12 of 13 institutions. At one community college, Jackson State, the most productive program was in the Health Professions field.

Doctoral Programs. The productivity of high-cost doctoral programs warrants close attention from the institutions, systems, and THEC. Doctoral education is vitally important to the state and to the larger mid-South region Tennessee institutions increasingly serve. Providing highly qualified researchers, specialists, and educators is a fundamental charge to universities with research missions. It is also the responsibility of the state to ensure program quality by sufficiently funding a complement of doctoral programs which will meet demand but not duplicate costs.

Several concerns drive the THEC's focused attention to ensuring the viability of doctoral programs in state-supported universities: start-up costs during difficult budget years, the large number of new doctoral programs, the large number of low-producing established doctorates, and the potential unnecessary duplication of student access and state spending within specific degree program areas. In complying with the Complete College Tennessee Act of 2010, the 2010-2015 Master Plan for higher education stresses institutional mission distinction as a fundamental principle governing program placement and state need as a funding priority in approval of new doctoral programs. The Master Plan also asserts that doctoral programs coverage and access assurance will be statewide; the rationale for new doctoral programs will not be immediate geographic region need. The status of Tennessee's doctoral program inventory is as follows:

- Tennessee supports 121 doctoral degree programs (excluding doctorates in medicine, dentistry, pharmacy, veterinary medicine, and law).

- Forty-six (46) of the 121 doctoral degree programs are either new or low-producing. This number represents close to 40 percent of the total doctoral program offerings.
- Twenty-nine [29] of the 121 programs have been approved or implemented in the last five years. THEC monitors these programs to determine if their actual enrollments and expenditures meet projections on which THEC approved the programs.
- Seventeen (17) of the 91 doctoral programs that have been in operation more than five years did not produce an average of three graduates per year over a five-year period. During the last academic year (2009-10), three programs did not graduate any students, and 15 awarded only one degree.
- Of the 17 low-producing doctoral programs, five programs are in engineering and three programs are in the health professions.

Commission staff has conducted an analysis of doctoral program productivity and fields where additional programs would likely be redundant. The analysis revealed that there are adequate numbers of doctoral programs in the fields of biological sciences, education, engineering, and psychology. The doctoral program analysis can be found in Appendix E.

The following chart shows the number of new programs, mature programs, and the productivity status of mature programs by institution.

Table 5: Doctoral Programs

	New Doctoral Programs	Mature Doctoral Programs	Low- Producing Doctoral Programs	% Low- Producing (Mature Programs)
UT Chattanooga	2	2	1	50%
UT Knoxville	12	42	8	19%
UT Health Science	1	9	2	22%
East Tennessee	6	5	1	20%
Middle Tennessee	5	3	0	0%
Tennessee State	1	6	2	33%
Tennessee Tech	0	3	1	33%
Univ of Memphis	2	22	2	9%
Total	29	92	17	18%

(4) Accreditation and Program Review: Performance Funding qualitative review.

Within the state’s Performance Funding accountability program, institutions are required to evaluate undergraduate and graduate programs. These reviews call for institutions to first develop self-evaluations of programs under review. The accreditation peer review process satisfies the Performance Funding requirements for programs that are eligible for accreditation. Other programs must undergo evaluation by external consultants or trained teams of auditors. The purpose of academic program review is to ensure that standards of the discipline are being met and that adequate financial support is evident. Each program is reviewed according to accreditation review cycles or at least once every five to seven years by THEC program evaluation criteria.

Table 6: Academic Program Evaluation by Type

	Accreditable Programs	Traditional Program Review	Academic Audit	Total
UT System	140	113	0	253
TBR Universities	284	136	65	485
TBR Community Colleges	132	57	96	205
Total	556	306	161	1023
Percentage	54%	30%	16%	

- During 2009-10, approximately 100 academic programs were evaluated using the traditional program review or academic audit. Evaluation results revealed that 89 percent of all standards were satisfied. These reviews and subsequent follow-up by the institutions also help to assess program quality, need, and demand.
- Currently 556 programs are eligible for accreditation. Eligibility is determined when all Tennessee institutions agree on a specific accreditor as best representing qualitative standards for each discipline. All programs are accredited except for newly approved programs (27) and two programs where institutions elected not to seek accreditation. In those instances where accreditation was not achieved, institutions’ performance funding scores were negatively impacted.

Appendix A
Tennessee Higher Education Commission
2010 Program Actions: Approvals and Terminations

Program Approvals				
	Institution	Academic Program	Degree Level	Approval Date
1	Chattanooga	Emergency Med Technician - Paramedic	Certificate	Mar-10
2	Middle Tennessee	Horse Science	Masters	Jun-10
3	Nashville	Drafting and Construction (10 SCH)	Certificate	Jun-10
4	Dyersburg	Agriculture Applications	Certificate	Jul-10
5	Northeast	Auto Body Service Technology	Certificate	Jul-10
6	Walters	Clean Energy Building Tech (23 SCH)	Certificate	Jul-10
7	Walters	Clean Energy Core Tech (11 SCH)	Certificate	Jul-10
8	Walters	Clean Energy Electricity Technology (23 SCH)	Certificate	Jul-10
9	Walters	Clean Energy Transportation Tech (23 SCH)	Certificate	Jul-10
10	Dyersburg	Corrections and Law Enforcement	Certificate	Aug-10
11	Walters	Clean Energy	Associate	Aug-10
12	Cleveland	Accounting (22 SCH)	Certificate	Aug-10
13	Cleveland	Business and Management (21 SCH)	Certificate	Aug-10
14	Cleveland	Computer Business Applications (23 SCH)	Certificate	Aug-10
15	Cleveland	Customer Service (21 SCH)	Certificate	Aug-10
16	East Tennessee	Doctor of Nursing Practice	Doctorate	Aug-10
17	Univ of Memphis	Social and Behavioral Science	Doctorate	Aug-10
18	UT Chattanooga	Doctor of Nursing Practice	Doctorate	Aug-10
19	UT Knoxville	Doctor of Nursing Practice	Doctorate	Aug-10
20	Walters	Clean Energy Technology	Associate	Aug-10
21	Univ of Memphis	Social Work	Masters	Sep-10
22	Walters	Industrial Automation (20 SCH)	Certificate	Sep-10
23	Walters	Industrial Electricity (19 SCH)	Certificate	Sep-10
24	Walters	Operations Management & Quality (18 SCH)	Certificate	Sep-10
25	Walters	Industrial Mechanics (18 SCH)	Certificate	Sep-10
26	Chattanooga	General Engineering	Associate	Oct-10
27	Nashville	Information Security (21 SCH)	Certificate	Nov-10
28	Pellissippi	Commercial & Industrial Electricity (17 SCH)	Certificate	Nov-10
29	Pellissippi	Electrical Construction (14 SCH)	Certificate	Nov-10
30	Pellissippi	Industrial Maintenance Technology (20 SCH)	Certificate	Nov-10
31	Pellissippi	Alternate Energy & Process Control (14 SCH)	Certificate	Nov-10
32	Pellissippi	General Culinary Arts	Certificate	Nov-10

Program Terminations				
	Institution	Academic Program	Degree Level	Termination Date
1	Austin Peay	Computer Technology and Information Management	Associate	Jan-10
2	Middle Tennessee	Chemistry	Doctorate	Jan-10
3	Volunteer	Histotechnology	Associate	Jan-10
4	Volunteer	Social Services	Associate	Jan-10
5	Walters	Workforce Preparedness	Certificate	Mar-10
6	Columbia	Commercial Music -- Multimedia for Songwriters	Certificate	Apr-10
7	Columbia	Early Childhood Education	Associate	Apr-10
8	Columbia	Horticulture	Associate	Apr-10
9	Nashville	Medical Transcription	Certificate	Apr-10
10	Univ of Memphis	Women and Gender Studies	Masters	Apr-10
11	Northeast	CISCO Networking Technology	Certificate	Jun-10
12	Northeast	Personal Computer/Network Technology	Certificate	Jun-10
13	Northeast	Industrial Maintenance	Certificate	Jun-10
14	Roane	Police Management	Certificate	Jun-10
15	Southwest	Landscape Management	Certificate	Jun-10
16	Southwest	Turfgrass Management	Certificate	Jun-10
17	Southwest	Landscape and Turfgrass Management	Associate	Jun-10
18	Southwest	Occupational Safety and Environmental Health	Certificate	Jun-10
19	Southwest	Fire Science	Associate	Jun-10
20	Tennessee State	School Psychology	Educational Specialist	Jun-10
21	Tennessee State	Speech Pathology and Audiology	Bachelor	Jun-10
22	Tennessee State	Medical Technology	Bachelor	Jun-10
23	Tennessee Tech	Industrial Engineering	Bachelor	Jun-10
24	Univ of Memphis	Earth Sciences	Bachelor	Jun-10
25	UT Chattanooga	Foreign Language Education	Bachelor	Jun-10
26	UT Chattanooga	Music Education	Bachelor	Jun-10
27	UT Chattanooga	Secondary Mathematics Education	Bachelor	Jun-10
28	UT Chattanooga	Secondary Natural Sciences Education	Bachelor	Jun-10
29	Walters	Quality Control Technology	Certificate	Jun-10
30	Walters	Industrial Maintenance	Certificate	Jun-10
31	Middle Tennessee	Aerospace Education	Masters	Jul-10
32	Middle Tennessee	Human Sciences	Masters	Jul-10
33	Cleveland	Workforce Preparedness: Business	Certificate	Aug-10
34	Jackson	Home Manager	Certificate	Aug-10
35	Jackson	Public Library	Certificate	Aug-10
36	Roane	Office Information Technology	Certificate	Aug-10
37	Nashville	Sign Language Interpreting	Associate	Nov-10

Appendix B
Tennessee Higher Education Commission
2009-10 Post Approval Monitoring

Programs - Benchmarks Attained

<p>Austin Peay State University</p> <ul style="list-style-type: none"> • Criminal Justice, BS • Teaching, MAT <p>East Tennessee State University</p> <ul style="list-style-type: none"> • Anthropology, BA • Geology, BS • Clinical Psychology, PhD • Pharmacy, PharmD <p>Middle Tennessee State University</p> <ul style="list-style-type: none"> • Global Studies, BA • Construction Management, BS • Professional Science, MS • Literacy Studies, PhD <p>Regents Online Campus Collaborative:</p> <ul style="list-style-type: none"> • Master of Professional Studies 	<p>University of Tennessee, Chattanooga</p> <ul style="list-style-type: none"> • Mechanical Engineering, BS • Athletic Training, MS • Mathematics, MS • Learning and Leadership, EdD <p>University of Tennessee, Knoxville</p> <ul style="list-style-type: none"> • Public Relations, BSC • Biomedical Engineering, MS • Landscape Architecture, MLA, MA, MS • Exercise and Sports Science, PhD • Retail/Hospitality Management, PhD <p>University of Tennessee, Martin</p> <ul style="list-style-type: none"> • Finance, BSBA <p>University of Tennessee, Health Science Center</p> <ul style="list-style-type: none"> • Health Informatics and Information Management, MS
<p>Chattanooga State Community College</p> <ul style="list-style-type: none"> • Cardiovascular Sonography, Technical Certificate <p>Motlow State Community College</p> <ul style="list-style-type: none"> • General Technology, AAS <p>Nashville State Community College</p> <ul style="list-style-type: none"> • Industrial Process Control Technology, AAS • Paralegal Studies, AAS 	<p>Southwest Tennessee Community College</p> <ul style="list-style-type: none"> • Paramedic, AAS* <p>Volunteer State Community College</p> <ul style="list-style-type: none"> • Criminal Justice/Law Enforcement, AAS <p>Regents Online Campus Collaborative</p> <ul style="list-style-type: none"> • Nursing, AAS

**Program met productivity thresholds based on performance of an embedded certificate*

**2009-10 Post Approval Monitoring
Programs - Benchmarks Not Attained**

Austin Peay State University

- Chemical Engineering Technology, AAS
- Military History, MA*

East Tennessee State University

- International Affairs, BA
- Theatre, BA
- Women's Studies, BA
- Allied Health, MSAH
- Environmental Health, PhD
- Public Health, DrPH
- Early Childhood Education, PhD

Middle Tennessee State University

- Exercise Science, BS*
- Recording Arts and Technology, MFA
- Public History, PhD*

Tennessee State University

- Urban Studies, BS
- Occupational Therapy, MOT*
- Physical Therapy, DPT*

University of Memphis

- Biomedical Engineering, BSBE
- Bioinformatics, MS
- Computer Science, MS
- Public Health, MPH
- Architecture, MArch
- Computer Science, PhD*

UT Chattanooga

- Electrical Engineering, BS
- Early Childhood Education, BS*

UT Knoxville

- Computer Engineering, MS
- Reliability Engineering, MS
- Computer Engineering, PhD*
- Biomedical Engineering, PhD*
- Educational Psych/Research, PhD*
- School Psychology, PhD*
- Counselor Education, PhD*
- Higher Education Admin., PhD*
- Nutritional Sciences, PhD*
- Child and Family Studies, PhD

UT Health Science Center

- Cytopathology Practice, MS
- Dental Hygiene, MDH
- Physical Therapy, ScDPT

** Program met either enrollment or graduation benchmark.*

Programs - Benchmarks Not Attained (continued)

<p>Chattanooga State Community College</p> <ul style="list-style-type: none">• Dental Assisting, Certificate• Veterinary Technology, AAS <p>Columbia State Community College</p> <ul style="list-style-type: none">• Film Crew Technology, Certificate• Stage Crew Technology, Certificate <p>Dyersburg State Community College</p> <ul style="list-style-type: none">• Paramedic, Certificate• Emergency Medical Services, AAS*• General Technology, AAS	<p>Nashville State Community College</p> <ul style="list-style-type: none">• 3D Design and Graphics, Certificate• Healthcare Management, AAS*• Logistics Technology, AAS <p>Walters State Community College</p> <ul style="list-style-type: none">• Information Technology, AAS*• General Technology, AAS <p>Regents Online Campus Collaborative</p> <ul style="list-style-type: none">• Web Page Authoring, Certificate• Web Page Technology, AAS
--	---

* Program met either enrollment or graduation benchmark

Programs – Delayed Implementation

Jackson State Community College

- Occupational Therapy Assistant, AAS

Appendix C
Tennessee Higher Education Commission
Low Producing Program Report

Summary by Institution

	Reviewed Programs	Achieved Benchmarks	Core CIP ¹	Pending Consolidation Termination	Retain ²	No Recommended Action ³
UT Chattanooga	14	0	2	5	7	0
UT Knoxville	32	3	2	8	16	3
UT Martin	9	0	3	3	3	0
UT Memphis	6	1	0	0	4	1
UT System	61	4	7	16	30	4
Austin Peay	4	0	2	1	0	1
East Tennessee	14	0	3	0	3	8
Middle Tennessee	9	0	3	0	3	3
Tennessee State	20	4	2	3	8	3
Tennessee Tech	9	2	3	0	3	1
Univ of Memphis	15	1	2	0	8	4
TBR Universities	71	7	15	4	25	20
Chattanooga	6	2	0	0	4	0
Cleveland	3	2	0	0	1	0
Columbia	5	1	0	0	3	1
Dyersburg	6	0	0	0	5	1
Jackson	4	1	0	0	1	2
Motlow	2	1	0	0	0	1
Nashville	12	0	0	2	7	3
Northeast	8	3	0	3	0	2
Pellissippi	1	0	0	0	0	1
Roane	8	2	0	0	5	1
Southwest	13	0	0	5	7	1
Volunteer	5	0	0	1	2	2
Walters	9	1	0	2	3	3
TBR Community Colleges	82	13	0	13	38	18
Grand Total	214	24	22	33	93	42

¹ Core CIP Programs are listed in Appendix D, and are degree fields that constitute core academic programs essential to general education infrastructure and were under-productive at more than three institutions.

² Programs classified under the “retain” category are those programs that were reviewed by the systems during 2010 and were determined to contribute to general education or complement other degree offerings.

³ Programs classified under the category of “no recommended action” received neither a recommendation of retain or terminate from systems during the 2010 low producing review.

Summary of Low Producing Programs
University of Tennessee System
5 Year Average (2005-06 through 2009-10)

Institution	2000 CIP	Program	Degree	5 Yr. Avg.	Response
UTC	08.13.1302.00	ART EDUCATION	Bachelor	2	Consolidate
UTC	08.13.1312.00	MUSIC EDUCATION	Bachelor	0	Consolidate
UTC	08.13.1311.00	SECONDARY MATHEMATICS	Bachelor	2	Consolidate
UTC	08.13.1316.00	SECONDARY NATURAL SCIENCES	Bachelor	6	Consolidate
UTC	25.40.0601.00	GEOLOGY	Bachelor	5	Core CIP
UTC	25.40.0801.00	PHYSICS	Bachelor	2	Core CIP
UTC	10.16.0101.00	FOREIGN LANGUAGE & LITERATURE	Bachelor	8	Retain
UTC	16.24.0103.00	HUMANITIES	Bachelor	5	Retain
UTC	24.38.9999.01	PHILOSOPHY & RELIGION	Bachelor	7	Retain
UTC	30.50.0501.00	THEATRE & SPEECH	Bachelor	3	Retain
UTC	19.27.0301.00	APPLIED MATHEMATICS	Bachelor	5	Retain
UTC	09.15.1501.00	ENGINEERING TECHNOLOGY MGMT	Bachelor	3	Retain
UTC	30.50.0901.00	MUSIC	Bachelor	9	Retain
UTC	08.13.1306.00	FOREIGN LANGUAGE EDUC K-12	Bachelor	1	Terminate
UTK	25.40.0501.00	CHEMISTRY	Masters	5	Achieved Benchmark
UTK	28.54.0101.00	HISTORY	Doctoral	3	Achieved Benchmark
UTK	09.14.0701.00	CHEMICAL ENGINEERING	Doctoral	3	Achieved Benchmark
UTK	10.16.0902.00	ITALIAN	Bachelor	3	Consolidate
UTK	10.16.0402.00	RUSSIAN	Bachelor	1	Consolidate
UTK	32.52.1301.00	MANAGEMENT SCIENCE	Masters	4	Consolidate
UTK	25.40.0601.00	GEOLOGY	Bachelor	9	Core CIP
UTK	25.40.0801.00	PHYSICS	Bachelor	9	Core CIP
UTK	30.50.0703.00	ART HISTORY	Bachelor	9	Retain
UTK	10.16.0501.00	GERMAN	Bachelor	5	Retain
UTK	24.38.0201.00	RELIGIOUS STUDIES	Bachelor	8	Retain
UTK	21.30.9999.03	PRE-PROFESSIONAL PROGRAMS	Bachelor	6	Retain
UTK	31.51.1005.00	MEDICAL TECHNOLOGY	Bachelor	2	Retain
UTK	09.14.0301.00	BIOSYSTEMS ENGINEERING	Bachelor	6	Retain
UTK	01.01.1101.00	ENVIRONMENTAL & SOIL SCIENCES	Bachelor	7	Retain
UTK	09.14.1801.00	MATERIALS SCI & ENGINEERING	Bachelor	6	Retain
UTK	10.16.0501.00	GERMAN	Masters	3	Retain
UTK	18.26.0202.00	BIOCHEM/CELL/MOLECULAR BIOL	Masters	2	Retain
UTK	08.13.0401.00	LEADERSHIP STUDIES IN EDUC	Masters	4	Retain
UTK	09.14.0201.00	AEROSPACE ENGINEERING	Doctoral	1	Retain
UTK	09.14.1301.00	ENGINEERING SCIENCE	Doctoral	1	Retain
UTK	09.14.0301.00	BIOSYSTEMS ENGINEERING	Doctoral	1	Retain
UTK	09.14.3201.00	POLYMER ENGINEERING	Doctoral	2	Retain

Institution	2000 CIP	Program	Degree	5 Yr. Avg.	Response
UTK	28.45.1101.00	SOCIOLOGY	Doctoral	2	Retain
UTK	21.30.9999.04	INDIVIDUALIZED PROGRAM	Bachelor	2	Terminate
UTK	09.14.1201.00	ENGINEERING PHYSICS	Bachelor	1	Terminate
UTK	12.19.0402.00	CONSUMER SERVICES MGMT	Masters	2	Terminate
UTK	08.13.0401.00	EDUCATIONAL ADMINISTRATION	Educational Specialist	3	Terminate
UTK	08.13.0301.00	INSTRUCTIONAL TECH & EDUC STUD	Educational Specialist	2	Terminate
UTK	24.38.0101.00	PHILOSOPHY	Doctoral	1	
UTK	01.01.0901.00	ANIMAL SCIENCE	Doctoral	1	
UTK	32.52.1301.00	MANAGEMENT SCIENCE	Doctoral	2	
UTM	24.38.0101.00	PHILOSOPHY	Bachelor	4	Core CIP
UTM	19.27.0101.00	MATHEMATICS	Bachelor	2	Core CIP
UTM	25.40.0601.00	GEOSCIENCE	Bachelor	7	Core CIP
UTM	25.40.0501.00	CHEMISTRY	Bachelor	7	Retain
UTM	28.45.0901.00	INTERNATIONAL STUDIES	Bachelor	6	Retain
UTM	30.50.0901.00	MUSIC	Bachelor	9	Retain
UTM	10.16.0901.00	FRENCH	Bachelor	1	Terminate
UTM	10.16.0905.00	SPANISH	Bachelor	5	Terminate
UTM	08.13.1001.00	SPECIAL EDUCATION	Bachelor	9	Terminate
UTHSC	31.51.0799.01	CLINICAL LAB SCIENCE	Masters	6	Achieved Benchmark
UTHSC	18.26.9999.01	BIOMEDICAL SCIENCES	Masters	2	Retain
UTHSC	31.51.2004.00	PHARMACEUTICAL SCIENCES	Masters	1	Retain
UTHSC	18.26.1001.00	PHARMACOLOGY	Masters	0	Retain
UTHSC	31.51.0204.00	SPEECH & HEARING SCIENCE	Doctoral	1	Retain
UTHSC	31.51.2212.00	HEALTH OUTCOMES/POLICY	Doctoral	2	

**Summary of Low Producing Programs
Tennessee Board of Regents - Universities
5 Year Average (2005-06 through 2009-10)**

Institution	2000 CIP	Program	Degree	5 Yr. Avg.	Response
APSU	24.38.0101.00	PHILOSOPHY	Bachelor	2	Core CIP
APSU	25.40.0801.00	PHYSICS	Bachelor	7	Core CIP
APSU	32.52.0407.00	DATA PROCESSING	Associate	5	Terminate
APSU	10.16.0905.00	SPANISH	Bachelor	3	
ETSU	28.45.0601.00	ECONOMICS	Bachelor	3	Core CIP
ETSU	24.38.0101.00	PHILOSOPHY	Bachelor	8	Core CIP
ETSU	25.40.0801.00	PHYSICS	Bachelor	4	Core CIP
ETSU	28.45.0701.00	GEOGRAPHY	Bachelor	7	Retain
ETSU	31.51.2202.00	ENVIRONMENTAL HEALTH	Bachelor	5	Retain
ETSU	31.51.2202.00	ENVIRONMENTAL HEALTH	Masters	2	Retain
ETSU	30.50.0701.00	ART	Bachelor	8	
ETSU	32.52.0601.00	ECONOMICS	Bachelor	8	
ETSU	09.15.1102.00	SURVEYING & MAPPING SCIENCE	Bachelor	6	
ETSU	30.50.0701.00	ART	Masters	2	
ETSU	28.45.1101.00	SOCIOLOGY	Masters	4	
ETSU	08.13.0401.00	EDUCATIONAL LEADERSHIP	Masters	4	
ETSU	08.13.1205.00	SECONDARY EDUCATION	Masters	4	
ETSU	31.51.1608.00	NURSING	Doctoral	2	
MTSU	24.38.0101.00	PHILOSOPHY	Bachelor	5	Core CIP
MTSU	28.45.0601.00	ECONOMICS	Bachelor	6	Core CIP
MTSU	25.40.0801.00	PHYSICS	Bachelor	5	Core CIP
MTSU	09.15.0303.00	ENVIRONMENTAL SCIENCE & TECH	Bachelor	6	Retain
MTSU	29.49.0104.00	AVIATION ADMINISTRATION	Masters	2	Retain
MTSU	19.27.0101.00	MATHEMATICS	Masters	2	Retain
MTSU	31.51.0913.00	ATHLETIC TRAINING	Bachelor	9	
MTSU	28.45.1101.00	SOCIOLOGY	Masters	4	
MTSU	08.13.1311.00	MATHEMATICS	Masters	4	
TSU	31.51.0602.00	DENTAL HYGIENE	Bachelor	10	Achieved Benchmark
TSU	30.50.0901.00	MUSIC	Bachelor	10	Achieved Benchmark
TSU	15.23.0101.00	ENGLISH	Masters	5	Achieved Benchmark
TSU	27.44.0401.00	PUBLIC ADMINISTRATION	Doctoral	3	Achieved Benchmark
TSU	19.27.0101.00	MATHEMATICS	Bachelor	8	Core CIP
TSU	25.40.0801.00	PHYSICS	Bachelor	3	Core CIP
TSU	10.16.0101.00	FOREIGN LANGUAGES	Bachelor	4	Retain
TSU	28.54.0101.00	HISTORY	Bachelor	6	Retain
TSU	03.05.0201.00	AFRICANA STUDIES	Bachelor	4	Retain
TSU	09.14.0801.00	CIVIL ENGINEERING	Bachelor	6	Retain
TSU	08.13.1210.00	EARLY CHILDHOOD EDUCATION	Bachelor	4	Retain

Institution	2000 CIP	Program	Degree	5 Yr. Avg.	Response
TSU	08.13.1312.00	MUSIC EDUCATION	Masters	3	Retain
TSU	18.26.0101.00	BIOLOGICAL SCIENCES	Doctoral	2	Retain
TSU	09.14.0901.00	COMPUTER/INFO SYSTEMS	Doctoral	1	Retain
TSU	31.51.1005.00	MEDICAL TECHNOLOGY	Bachelor	4	Terminate
TSU	31.51.0204.00	SPEECH PATHOLOGY & AUDIOLOGY	Bachelor	6	Terminate
TSU	26.42.1701.00	SCHOOL PSYCHOLOGY	Educational Specialist	2	Terminate
TSU	30.50.0701.00	ART	Bachelor	7	
TSU	25.40.0501.00	CHEMISTRY	Masters	3	
TSU	19.27.0101.00	MATHEMATICAL SCIENCES	Masters	4	
TTU	25.40.0501.00	CHEMISTRY	Masters	5	Achieved Benchmark
TTU	08.13.1299.00	ADV STUDIES IN TCHG & LEARNING	Masters	6	Achieved Benchmark
TTU	25.40.0601.00	GEOSCIENCES	Bachelor	8	Core CIP
TTU	19.27.0101.00	MATHEMATICS	Bachelor	6	Core CIP
TTU	25.40.0801.00	PHYSICS	Bachelor	4	Core CIP
TTU	10.16.0101.00	FOREIGN LANGUAGES	Bachelor	9	Retain
TTU	21.30.9999.02	WORLD CULTURES & BUSINESS	Bachelor	8	Retain
TTU	32.52.0601.00	ECONOMICS	Bachelor	4	Retain
TTU	01.03.0103.00	ENVIRONMENTAL SCIENCES	Doctoral	1	
UoM	15.23.0101.00	ENGLISH: WRITING & LANG STUD	Doctoral	3	Achieved Benchmark
UoM	28.45.0601.00	ECONOMICS	Bachelor	7	Core CIP
UoM	25.40.0801.00	PHYSICS	Bachelor	2	Core CIP
UoM	03.05.0201.00	AFRICAN AND AFRIC-AMER STUDIES	Bachelor	7	Retain
UoM	02.04.0401.00	ARCHITECTURE	Bachelor	8	Retain
UoM	09.14.0901.00	COMPUTER ENGINEERING	Bachelor	5	Retain
UoM	08.13.1314.00	PHYSICAL EDUC TEACHER EDUC	Bachelor	7	Retain
UoM	30.50.0703.00	ART HISTORY	Bachelor	6	Retain
UoM	26.42.1801.00	EDUCATIONAL PSYCH & RESEARCH	Masters	3	Retain
UoM	25.40.0801.00	PHYSICS	Masters	4	Retain
UoM	31.51.0204.00	AUDIOLOGY & SPEECH-LANGUAGE PATHOLOGY	Doctoral	2	Retain
UoM	28.45.0701.00	GEOGRAPHY	Bachelor	6	
UoM	25.40.0601.00	GEOLOGICAL SCIENCES	Bachelor	3	
UoM	09.15.0613.00	MANUFACTURING ENGIN TECH	Bachelor	5	

Summary of Low Producing Programs
Tennessee Board of Regents - Community Colleges
3 Year Average (2007-08 through 2009-10)

Institution	2000 CIP	Program	Degree	3 Yr. Avg.	Response
Chattanooga	09.15.1301.00	CAD TECHNOLOGY	Certificate	4	Retain
Chattanooga	32.52.1201.00	INFORMATION SYSTEMS TECH	Certificate	6	Retain
Chattanooga	27.43.0203.00	FIRE SCIENCE TECHNOLOGY	Associate	10	Achieved Benchmark
Chattanooga	09.15.0000.00	ENGINEERING TECHNOLOGY	Associate	20	Achieved Benchmark
Chattanooga	13.21.0101.01	APPLIED TECHNOLOGY	Associate	9	Retain
Chattanooga	09.15.0612.00	INDUSTRIAL MAINTENANCE TECH	Associate	3	Retain
Cleveland	31.51.0904.00	EMERGENCY MEDICAL SERVICES	Certificate	13	Achieved Benchmark
Cleveland	27.43.0107.00	LAW ENFORCEMENT TRAINING	Certificate	31	Achieved Benchmark
Cleveland	27.44.9999.00	PUBLIC & GOV'T SERVICES	Associate	4	Retain
Columbia	32.52.0201.01	BUSINESS MANAGEMENT	Certificate	14	Achieved Benchmark
Columbia	30.50.0999.02	COMMERCIAL PERFORMANCE	Certificate	5	Retain
Columbia	27.43.0107.00	CRIMINAL JUSTICE	Associate	7	Retain
Columbia	01.01.0601.00	HORTICULTURE	Associate	3	Retain
Columbia	12.19.0706.00	EARLY CHILDHOOD EDUCATION	Associate	5	
Dyersburg	06.11.0401.00	COMPUTER SYSTEMS OPERAT & MGT	Certificate	1	Retain
Dyersburg	31.51.0707.00	MEDICAL CODING	Certificate	6	Retain
Dyersburg	06.11.0401.00	COMPUTER INFORMATION TECH	Associate	2	Retain
Dyersburg	12.19.0706.00	EARLY CHILDHOOD EDUCATION	Associate	4	Retain
Dyersburg	27.43.0107.00	JUSTICE SERVICES	Associate	5	Retain
Dyersburg	12.19.0706.00	EARLY CHILDHOOD EDUCATION	Associate	4	
Jackson	12.19.0799.00	HOME MANAGER	Certificate	8	Retain
Jackson	13.21.0101.01	GENERAL TECHNOLOGY	Associate	10	Achieved Benchmark
Jackson	30.50.0402.00	GRAPHICS DESIGN TECHNOLOGY	Associate	2	
Jackson	12.19.0706.00	EARLY CHILDHOOD EDUCATION	Associate	9	
Motlow	12.19.0706.00	EARLY CHILDHOOD EDUCATION	Certificate	11	Achieved Benchmark
Motlow	12.19.0706.00	EARLY CHILDHOOD EDUCATION	Associate	6	
Nashville	01.01.0605.00	HORT & LAND. GARDENING	Certificate	7	Retain
Nashville	30.50.0605.00	PHOTOGRAPHY	Certificate	3	Retain
Nashville	09.15.1301.00	COMPUTER-AIDED DRAFTING	Certificate	5	Retain
Nashville	32.52.0701.00	ENTREPRENEURSHIP	Certificate	0	Terminate
Nashville	07.12.0503.00	CULINARY ARTS	Certificate	2	
Nashville	29.48.0503.00	PRODUCTION MACHINE OPERATOR	Certificate	9	
Nashville	07.12.0503.00	CULINARY SCIENCE	Associate	7	Retain
Nashville	29.47.0604.00	AUTOMOTIVE TECHNOLOGY	Associate	4	Retain
Nashville	12.19.0706.00	EARLY CHILDHOOD EDUCATION	Associate	9	Retain
Nashville	10.16.1603.00	SIGN LANGUAGE INTERPRETING	Associate	5	Terminate
Nashville	27.44.0201.00	SOCIAL SERVICES	Associate	5	Retain

Institution	2000 CIP	Program	Degree	3 Yr. Avg.	Response
Nashville	09.15.0000.00	ARCH, CIVIL & CONSTRU ENG TECH	Associate	8	
Northeast	12.19.0706.00	EARLY CHILDHOOD DEVELOPMENT	Certificate	22	Achieved Benchmark
Northeast	31.51.0904.00	EMT: PARAMED	Certificate	14	Achieved Benchmark
Northeast	32.52.0401.00	OFFICE TECHNOLOGY	Certificate	6	Achieved Benchmark
Northeast	06.11.0203.00	CISCO NETWORK TECHNOLOGY	Certificate	1	Terminate
Northeast	06.11.0901.00	PERSONAL COMP/NETWORK TECH	Certificate	1	Terminate
Northeast	29.47.0303.00	INDUSTRIAL MAINTENANCE	Certificate	5	Terminate
Northeast	12.19.0706.00	EARLY CHILDHOOD EDUCATION	Associate	4	
Northeast	30.50.0402.00	GRAPHICS DESIGN TECHNOLOGY	Associate	2	
Pellissippi	13.21.0101.01	GENERAL TECHNOLOGY	Associate	6	
Roane	27.43.0107.00	POLICE MANAGEMENT	Certificate	10	Achieved Benchmark
Roane	31.51.0805.00	PHARMACY TECHNICIAN	Certificate	10	Achieved Benchmark
Roane	31.51.09999.00	DIAGNOSIS & PROCEDURAL CODING	Certificate	9	Retain
Roane	28.45.0702.00	GEOGRAPHIC INFO SYSTEMS	Certificate	7	Retain
Roane	32.52.0401.00	OFFICE INFORMATION TECH	Certificate	1	Retain
Roane	31.51.2202.00	ENVIRONMENTAL HEALTH TECH	Associate	5	Retain
Roane	28.45.0702.00	GEOGRAPHIC INFO SYSTEMS	Associate	5	Retain
Roane	12.19.0706.00	EARLY CHILDHOOD EDUCATION	Associate	4	
Southwest	32.52.0101.00	CUSTOMS BROKERAGE	Certificate	3	Retain
Southwest	12.19.0706.00	EARLY CHILDHOOD EDUCATION	Certificate	6	Retain
Southwest	29.46.0302.00	ELECTRIC UTILITY CONSTRUCTION	Certificate	4	Retain
Southwest	29.46.0302.01	UTILITY TECHNOLOGY/ELECTRIC	Certificate	4	Retain
Southwest	29.46.9999.00	UTILITY TECHNOLOGY/GAS	Certificate	0	Retain
Southwest	01.01.0605.00	LANDSCAPE MANAGEMENT	Certificate	3	Terminate
Southwest	01.01.0607.00	TURFGRASS MANAGEMENT	Certificate	0	Terminate
Southwest	09.15.0701.00	OCCUPATIONAL SAFETY & ENV HEAL	Certificate	0	Terminate
Southwest	31.51.3104.00	DIETETIC TECHNICIAN	Associate	9	Retain
Southwest	29.47.0101.00	ELECTRONIC TECHNOLOGY	Associate	5	Retain
Southwest	27.43.0203.00	FIRE SCIENCE	Associate	4	Terminate
Southwest	01.01.0699.01	LANDSCAPE AND TURFGRASS MNGT	Associate	4	Terminate
Southwest	12.19.0706.00	EARLY CHILDHOOD EDUCATION	Associate	3	
Volunteer	32.52.0401.00	OFFICE MANAGEMENT TECHNOLOGY	Certificate	7	Retain
Volunteer	31.51.1004.00	MEDICAL LAB TECHNOLOGY	Associate	7	Retain
Volunteer	27.44.0201.00	SOCIAL SERVICES	Associate	0	Terminate
Volunteer	12.19.0706.00	EARLY CHILDHOOD EDUCATION	Associate	5	
Volunteer	13.21.0101.01	GENERAL TECHNOLOGY	Associate	6	
Walters	07.12.0503.00	CULINARY ARTS	Certificate	10	Achieved Benchmark
Walters	31.51.0713.01	MEDICAL INSURANCE SPECIALIST	Certificate	7	Retain
Walters	29.47.0303.00	INDUSTRIAL MAINTENANCE	Certificate	0	Terminate
Walters	09.15.0702.00	QUALITY CONTROL TECHNOLOGY	Certificate	1	Terminate
Walters	23.32.0101.00	WORKFORCE PREPAREDNESS	Certificate	0	

Institution	2000 CIP	Program	Degree	3 Yr. Avg.	Response
Walters	31.51.0707.00	HEALTH INFORMATION TECH	Associate	7	Retain
Walters	01.01.0603.00	PRODUCTION HORTICULTURE	Associate	9	Retain
Walters	32.52.0401.00	OFFICE ADMINISTRATION	Associate	1	
Walters	12.19.0706.00	EARLY CHILDHOOD EDUCATION	Associate	4	

Appendix D
Tennessee Higher Education Commission
Core CIP Baccalaureate Programs
5 Year Average (2005-06 through 2009-10)

Institution	2000 CIP	Academic Program	5 Yr. Avg
UT Martin	27.0101	Mathematics	2
Tennessee Tech	27.0101	Mathematics	6
Tennessee State	27.0101	Mathematics	8
Austin Peay	38.0101	Philosophy	2
UT Martin	38.0101	Philosophy	4
Middle Tennessee	38.0101	Philosophy	5
East Tennessee	38.0101	Philosophy	8
UT Chattanooga	40.0601	Geology	5
UT Martin	40.0601	Geoscience	7
Tennessee Tech	40.0601	Geoscience	8
UT Knoxville	40.0601	Geology	9
Univ of Memphis	40.0801	Physics	2
UT Chattanooga	40.0801	Physics	2
Tennessee State	40.0801	Physics	3
East Tennessee	40.0801	Physics	4
Tennessee Tech	40.0801	Physics	4
Middle Tennessee	40.0801	Physics	5
Austin Peay	40.0801	Physics	7
UT Knoxville	40.0801	Physics	9
East Tennessee	45.0601	Economics	3
Middle Tennessee	45.0601	Economics	6
Univ of Memphis	45.0601	Economics	7

Appendix E
Tennessee Higher Education Commission
Doctoral Program Productivity
5 Year Average (2005-06 through 2009-10)

Institution	CIP Code	Academic Program	Degree Level	5 Year Average	Program Status
AGRICULTURE					
1. UT Knoxville	010000	Plant, Soils and Insects	PhD	4	
2. UT Knoxville	010901	Animal Science	PhD	2	Low-Producing
3. UT Knoxville	011001	Food Science & Technology	PhD	3	
NATURAL RESOURCES AND CONSERVATION					
4. UT Knoxville	030101	Natural Resources	PhD	4	
5. Tennessee Tech	030103	Environmental Sciences	PhD	1	Low-Producing
COMMUNICATION AND JOURNALISM					
6. Univ of Memphis	090102	Communication	PhD	5	
7. UT Knoxville	090102	Communication	PhD	7	
8. Univ of Memphis	110701	Computer Science	PhD	2	Jan-06
9. UT Knoxville	110701	Computer Science	PhD	6	
EDUCATION **					
10. UT Knoxville	130101	Education	PhD	27	
11. Tennessee State	130301	Curriculum & Instruction	EdD	15	
12. Tennessee Tech	130301	Exceptional Learning	PhD	8	
13. Univ of Memphis	130301	Instruc & Curriculum Leadership	EdD	8	
14. East Tennessee	130401	Educational Leadership	EdD	29	
15. Tennessee State	130401	Admin & Supervision	EdD	19	
16. Univ of Memphis	130401	Leadership & Policy Studies	EdD	4	
17. UT Chattanooga	130401	Learning and Leadership	EdD	6	Jul-04
18. Univ of Memphis	130406	Higher and Adult Education	EdD	7	
19. UT Knoxville *	130406	Higher Education Administration	PhD	3	Jul-08
20. Univ of Memphis	131101	Counseling & Personnel Services	EdD	3	
21. UT Knoxville *	131102	Counselor Education	PhD	5	Jul-08
22. East Tennessee	131210	Early Childhood Education	PhD		Jul-08
23. Middle Tennessee	131315	Literacy Studies	PhD		Jul-07
24. Middle Tennessee	139999	Mathematics & Science Education	PhD		Jul-09
ENGINEERING **					
25. Tennessee Tech	140101	Engineering	PhD	10	
26. Univ of Memphis	140101	Engineering	PhD	5	
27. UT Knoxville	140201	Aerospace Engineering	PhD	1	Low-Producing
28. UT Knoxville	140301	Biosystems Engineering	PhD	1	Low-Producing
29. Univ of Memphis	140501	Biomedical Eng (w/ UTHSC)	PhD	2	Joint Program
30. UT Health Science	140501	Biomedical Eng (w/ UoM)	PhD	1	Joint Program
31. UT Knoxville	140501	Biomedical Engineering	PhD		Jan-08

Institution	CIP Code	Academic Program	Degree Level	5 Year Average	Program Status
32. UT Knoxville	140701	Chemical Engineering	PhD	3	
33. UT Knoxville	140801	Civil Engineering	PhD	6	
34. Tennessee State	140901	Computer & Info Systems	PhD	1	Low-Producing
35. UT Knoxville	140901	Computer Engineering	PhD	3	Jul-04
36. UT Knoxville	141001	Electrical Engineering	PhD	10	
37. UT Knoxville	141301	Engineering Science	PhD	2	Low-Producing
38. UT Knoxville	141801	Materials Science & Engineering	PhD	11	
39. UT Knoxville	141901	Mechanical Engineering	PhD	4	
40. UT Knoxville	142301	Nuclear Engineering	PhD	3	
41. UT Chattanooga	142701	Computational Engineering	PhD	2	Low-Producing
42. UT Knoxville	143201	Polymer Engineering	PhD	2	Low-Producing
43. UT Knoxville	143501	Industrial and Information Engineering	PhD	4	
FOREIGN LANGUAGES					
44. UT Knoxville	160101	Modern Foreign Languages	PhD	3	
FAMILY AND CONSUMER SCIENCES					
45. UT Knoxville	190101	Human Ecology	PhD	7	
46. UT Knoxville *	190501	Nutritional Sciences	PhD	1	Jul-08
47. UT Knoxville *	190701	Child and Family Studies	PhD	3	Jul-08
ENGLISH LANGUAGE AND LITERATURE					
48. Middle Tennessee	230101	English	PhD	4	
49. Univ of Memphis	230101	English: Writing & Lang Studies	PhD	3	
50. UT Knoxville	230101	English	PhD	7	
BIOLOGICAL AND BIOMEDICAL SCIENCES **					
51. Tennessee State	260101	Biological Sciences	PhD	2	Low-Producing
52. Univ of Memphis	260101	Biology	PhD	5	
53. East Tennessee	260102	Biomedical Sciences	PhD	5	
54. UT Knoxville	260202	Biochem/Cellular/Molecular Biology	PhD	4	
55. Middle Tennessee	260204	Molecular Biosciences	PhD		Jul-09
56. UT Knoxville	260503	Microbiology	PhD	4	
57. UT Knoxville	261301	Ecology & Evolutionary Biology	PhD	5	
58. UT Health Science	269999	Biomedical Sciences	PhD	11	
59. UT Knoxville	269999	Life Sciences	PhD	5	
MATHEMATICS AND STATISTICS					
60. Univ of Memphis	270101	Mathematical Sciences	PhD	5	
61. UT Knoxville	270101	Mathematics	PhD	5	
62. Middle Tennessee	270303	Computational Science	PhD		Jul-09
PARKS, RECREATION, LEISURE AND FITNESS STUDIES					
63. Middle Tennessee	310501	Human Performance	PhD	7	
64. East Tennessee	310505	Sport Physiology and Performance	PhD		Jul-09

Institution	CIP Code	Academic Program	Degree Level	5 Year Average	Program Status
65. UT Knoxville *	310505	Exercise & Sports Science	PhD	4	Jul-08
PHILOSOPHY					
66. Univ of Memphis	380101	Philosophy	PhD	3	
67. UT Knoxville	380101	Philosophy	PhD	1	Low-Producing
PHYSICAL SCIENCES					
68. Univ of Memphis	400501	Chemistry	PhD	4	
69. UT Knoxville	400501	Chemistry	PhD	12	
70. Univ of Memphis	400601	Earth Science	PhD	3	
71. UT Knoxville	400601	Geology	PhD	3	
72. UT Knoxville	400801	Physics	PhD	11	
PSYCHOLOGY **					
73. Tennessee State	420101	Psychology	PhD	10	
74. Univ of Memphis	420101	Psychology	PhD	12	
75. UT Knoxville	420101	Psychology	PhD	15	
76. East Tennessee	420201	Psychology	PhD		Jul-06
77. Univ of Memphis	420601	Counseling Psychology	PhD	8	
78. UT Knoxville	420901	Industrial/Organizational Psych	PhD	4	
79. UT Knoxville	421701	School Psychology	PhD		Jul-08
80. Univ of Memphis	421801	Educational Psych & Research	PhD	4	
81. UT Knoxville	421801	Educational Psych & Research	PhD	4	Jul-08
PUBLIC ADMINISTRATION AND SOCIAL SERVICES					
82. Tennessee State	440401	Public Administration	PhD	3	
83. UT Knoxville	440701	Social Work	PhD	4	
SOCIAL SCIENCES					
84. UT Knoxville	450201	Anthropology	PhD	4	
85. Middle Tennessee	450601	Economics	PhD	4	
86. UT Knoxville	450701	Geography	PhD	4	
87. UT Knoxville	451001	Political Science	PhD	4	
88. UT Knoxville	451101	Sociology	PhD	2	Low-Producing
VISUAL AND PERFORMING ARTS					
89. Univ of Memphis	500901	Music	PhD	2	Low-Producing
90. Univ of Memphis	500901	Music	DMA	7	
HEALTH PROFESSIONS					
91. East Tennessee	510202	Audiology	AUD	5	
92. Univ of Memphis	510202	Audiology	AUD	6	
93. UT Health Science	510202	Audiology	AUD	8	
94. Univ of Memphis	510204	Audiology & Speech Pathology	PhD	2	
95. UT Health Science	510204	Speech & Hearing Science	PhD	1	Low-Producing
96. East Tennessee	511605	Doctor of Nursing Practice	DNP		Aug-10
97. UT Chattanooga	511605	Doctor of Nursing Practice	DNP		Aug-10

Institution	CIP Code	Academic Program	Degree Level	5 Year Average	Program Status
98. UT Health Science	511605	Nursing Practice	DNP	43	
99. UT Knoxville	511605	Doctor of Nursing Practice	DNP		Aug-10
100. East Tennessee	511608	Nursing	PhD	2	Low-Producing
101. UT Health Science	511608	Nursing (joint with UTK)	PhD	6	
102. UT Knoxville	511608	Nursing (joint with UTHSC)	PhD	4	
103. UT Health Science	512004	Pharmaceutical Sciences	PhD	11	
104. East Tennessee	512201	Public Health	DrPH		Jul-06
105. Univ of Memphis	512201	Social and Behavioral Science	PhD		Aug-10
106. East Tennessee	512202	Environmental Health	PhD		Jul-06
107. UT Health Science	512212	Health Outcomes & Policy Research	PhD	2	Low-Producing
108. East Tennessee	512308	Physical Therapy	DPT	20	
109. Tennessee State	512308	Physical Therapy	DPT	20	Jan-05
110. UT Chattanooga	512308	Physical Therapy	DPT	35	
111. UT Health Science	512308	Physical Therapy	DPT	45	
112. UT Health Science	512308	Physical Therapy	ScDPT	2	Approved Nov 2002 and Implemented 2005
113. UT Knoxville	519999	Comparative/Exp Medicine	PhD	3	
BUSINESS, MANAGEMENT AND MARKETING					
114. Univ of Memphis	520201	Business Administration	PhD	11	
115. UT Knoxville	520201	Business Administration	PhD	10	
116. UT Knoxville	520601	Economics	PhD	3	
117. UT Knoxville *	520901	Retail, Hospitality, Tourism Mgmt	PhD	2	Jul-08
118. UT Knoxville	521301	Management Science	PhD	2	Low-Producing
HISTORY					
119. Univ of Memphis	540101	History	PhD	4	
120. UT Knoxville	540101	History	PhD	3	
121. Middle Tennessee	540105	Public History	PhD	3	Jul-05

* Productivity figures reported for new programs are based on degrees awarded for the past two reporting years (2008-09 through 2009-10). New programs at University of Tennessee Knoxville were converted from existing concentrations within the Health and Human Sciences, PhD and Education, PhD programs.

** Analysis of Doctoral Programs by Discipline

Discipline	Number of Doctoral Programs	2005-06	2006-07	2007-08	2008-09	2009-10	5 Year Average
Biological Sciences	9	35	38	45	41	42	40
Psychology	9	54	53	53	66	50	55
Education	14	117	106	119	114	125	116
Engineering	18	55	65	81	74	76	70