

*Graduate School
Annual Report*

2005-2006

*Tennessee Technological
University*

Summary of Activities

During the 2005-2006 academic year the Graduate School:

- ❑ Processed 2,843 applications for admission/readmission
- ❑ Admitted 2,156 students
- ❑ Increased for 2005 Fall Semester:
 - headcount by 3.3%
 - part-time enrollment by 6.3%
 - new student enrollment by 12%
 - in-state domestic student enrollment by 3.5%
 - out-of-state domestic student enrollment by 1.4%
 - international student enrollment by 1.3%
- ❑ Added/Updated 23 members to the Graduate Faculty
- ❑ Approved 86 theses and 13 dissertations
- ❑ Conferred 836 degrees:
 - 532 Master's
 - 291 Specialist in Education
 - 13 Doctor of Philosophy

Graduate School

Administration and Staff

Dr. Francis O. Otuonye, Associate Vice President for Research & Graduate Studies

Denise Anderson, Graduation Analyst
Shelia Kendrick, Coordinator
Sue Smith, Executive Aide
Sue Ann Smith, Secretary II
Becky Stafford, Transcript Analyst

Vision of the Graduate School

The vision of the Graduate School is to improve human knowledge through teaching, learning, research, and outreach.

Mission of the Graduate School

The Mission of the Graduate School is to promote, coordinate, enhance the quality of, and serve as an advocate for graduate education programs at Tennessee Technological University.

Core Value: Academic excellence through critical thinking skills, lifelong learning, and promotion of diversity.

Goals

- ❑ Enhance the intellectual community of scholars among graduate students and faculty.
- ❑ Provide quality control for all graduate education programs.
- ❑ Promote the academic excellence of all graduate programs.
- ❑ Support and facilitate research, including scholarly and creative activities.

Graduate Programs

Tennessee Technological University is authorized to offer master's degree programs in five colleges or schools, specialist's programs in the College of Education, and doctoral programs in the Colleges of Arts & Sciences, Education, and Engineering.

| COLLEGE/SCHOOL | MAJOR AREA | CONCENTRATION | DEGREE |
|--------------------------------|---|---|------------|
| Arts & Sciences | Biology | Fisheries Management General | M.S. |
| | Chemistry | | M.S. |
| | Computer Science | Internet-based Computing | M.S. |
| | English | | M.A. |
| | Mathematics | Applied Mathematics Mathematics Statistics | M.S. |
| | Environmental Sciences | Biology Chemistry | Ph.D. |
| Business Administration | Business Administration | Accounting Distance MBA General Management International Business Management Information Systems | M.B.A. |
| Education | Curriculum & Instruction | Curriculum Early Childhood Education Elementary Education Library Science (M.A. only) Reading Secondary Education Special Education | M.A./Ed.S. |
| | Educational Psychology & Counselor Education | Agency Counselor Educational Psychology Mental Health Counselor (M.A. only) School Counselor School Psychology | M.A./Ed.S. |
| | Exceptional Learning | Applied Behavior Analysis Literacy Program Planning & Evaluation | Ph.D. |
| | Exercise Science, Physical Education and Wellness | Elementary & Middle School Physical Education Lifetime Wellness Adapted Physical Education | M.A. |
| | Instructional Leadership | | M.A./Ed.S. |
| | Engineering | Chemical Engineering | |
| Civil Engineering | | Environmental Engineering Structural Engineering Transportation Engineering | M.S. |
| Electrical Engineering | | Communications Theory & Electronics Computers & Digital Systems Electromagnetic Fields & Physical Electronics Networks & Control Systems Nuclear Systems Power Systems & Energy Conversion | M.S. |
| Mechanical Engineering | | Acoustics Control Systems Design/Mechanical Systems Thermal Science/Systems Materials | M.S. |
| Engineering | | Individual Programs | Ph.D. |
| RODP Programs | | Advanced Studies in Teaching and Learning | |
| | Master of Professional Studies | Strategic Leadership | M.P.S. |
| | Nursing | Nursing Education Nursing Administration Nursing Informatics Family Nurse Practitioner | M.S.N. |

Graduate School Executive Committee

2005-2006 Committee Members

Dr. Rafal Ablamowicz
 Dr. Pedro Arce
 Ms. Ashby Axelgard
 Ms. Elizabeth Ayres
 Mr. Bharath Baburao
 Dr. Jon Booker
 Dr. Dan Combs
 Dr. Subramaniam Deivanayagam
 Dr. Dennis George
 Dr. Shelia Green
 Mr. Brandon Helm
 Dr. Sharon Huo
 Dr. Patricia Jordan
 Dr. Virginia Moore
 Dr. Robert Niebuhr
 Dr. Francis Otuonye, executive officer
 Dr. Larry Peach
 Dr. Paul Semmes, Chairperson
 Ms. Rebecca Vaughn
 Dr. John Wheeler
 Dr. Dale Wilson
 Dr. Bob Wood

Committee Role and Membership

Policies that govern the organization and administration of the Graduate School are developed by the Graduate School Executive Committee. As authorized by the Administrative Council of the University, the membership of this committee includes a minimum of eight faculty members, representing the four colleges in which graduate programs are offered; a minimum of seven administrators, to include representation from each of the four colleges; a minimum of four student members, also representing the four colleges; and such non-voting advisory members as may be determined by the President of the University. The Dean of Graduate Studies serves as executive officer. All appointments are made by the President. The chairperson of the committee is elected annually.

2005-2006 Meeting Dates

| | |
|-------------------|------------------|
| July 13, 2005 | January 19, 2006 |
| September 6, 2005 | February 7, 2006 |
| October 4, 2005 | March 14, 2006 |
| November 8, 2005 | April 18, 2006 |
| December 12, 2005 | |

Committee Actions

The executive committee met nine times—seven regular sessions and two special called meetings. The following actions were taken:

- Approved a concentration of International Business for the MBA program.
- Modified the admission requirements for Nondegree students to allow the submission of verification of degree with application and then have the official transcripts submitted before the end of the first semester of enrollment.
- Approved the use of an "Incomplete Grade Point Form" to be completed by the instructor before assigning an Incomplete grade.
- Approved new Probation and Dismissal for Unsatisfactory Performance policies.
- Approved a request from the Department of Counseling and Psychology for an exception of the written examination after the completion of 15 semester hours in the Ed.S. program.
- Approved a request from the School of Nursing for clarification on their grading policy and required GPA.
- Approved a request from the College of Education to change the name of its Ph.D. program from a Ph.D. in Exceptional Learning to a Ph.D. in Education, pending approval also from TBR. However, TBR did not approve the request.
- Approved a request from the College of Education to reconfigure two of the four concentrations within the Ph.D. program.
- Approved modifications of the Purpose and Scope of the Graduate School Executive Committee Procedures.
- Approved a request from the Department of Electrical and Computer Engineering to change the requirements of the M.S. degree nonthesis option.
- Approved a request from the Department of Curriculum and Instruction to permit a maximum of three semester hours of departmentally approved 5000-level credit in an Ed.S. program of study.
- Approved a request from the Division of M.B.A. Studies to modify their Quality of Work requirement
- Approved a request from the Department of Health and Physical Education to change the name of their department to the Department of Exercise Science, Physical Education and Wellness.
- Approved special requests from four students: (1) waiving requirement of two Bridge courses for the MSN program; (2) counting more than 9 hours of Special Standing credit for degree purposes; (3) requests for removing 3 Incomplete grades older than one year.
- Approved extensions of time limits for 24 students.
- Approved course additions, deletions, or changes in 15 departments, divisions, or schools.
- Elected Dr. Subramaniam Deivanayagam as chairperson for the 2006-2007 academic year.

Graduate Faculty

New Full Memberships

A full member of the Graduate Faculty shall have: an earned doctorate or equivalent terminal degree in an appropriate discipline; achieved professorial rank in the discipline relevant to the degree; achieved an appropriate level of scholarship and erudition characterized by honesty, accuracy, critical ability and thoroughness; and demonstrated (by involvement in institutional activities) his or her commitment to the academic community and the University, as well as to his or her students and academic discipline.

| | |
|---|--|
| Dr. Halina Ablamowicz , Ph.D. | Associate Professor of English |
| Dr. Holly G. Anthony , Ph.D. | Assistant Professor of Curriculum and Instruction |
| Dr. Ileana C. Carpen , Ph.D. | Assistant Professor of Chemical Engineering |
| Dr. Steven M. Click , Ph.D. | Assistant Professor of Civil and Environmental Engineering |
| Ms. Shannon D. Collins , M.S. | Assistant Professor of Curriculum and Instruction |
| Dr. Helen T. Dainty , Ph.D. | Assistant Professor of Curriculum and Instruction |
| Dr. Kent T. Dollar , Ph.D. | Assistant Professor of History |
| Dr. Omar S. A. Elkeelany , Ph.D. | Assistant Professor of Electrical and Computer Engineering |
| Dr. Paula V. Engelhardt , Ph.D. | Assistant Professor of Physics |
| Dr. Andrew J. Hetzel , Ph.D. | Assistant Professor of Mathematics |
| Dr. Nancy J. Kolodziej , Ed.D. | Assistant Professor of Curriculum and Instruction |
| Dr. Susan D. Laningham , Ph.D. | Assistant Professor of History |
| Dr. Benjamin J. Mohr , Ph.D. | Assistant Professor of Civil and Environmental Engineering |
| Dr. Mahesh Panchagnula , Ph.D. | Assistant Professor of Mechanical Engineering |
| Dr. Holly A. Stretz , Ph.D. | Assistant Professor of Chemical Engineering |

New Associate Memberships

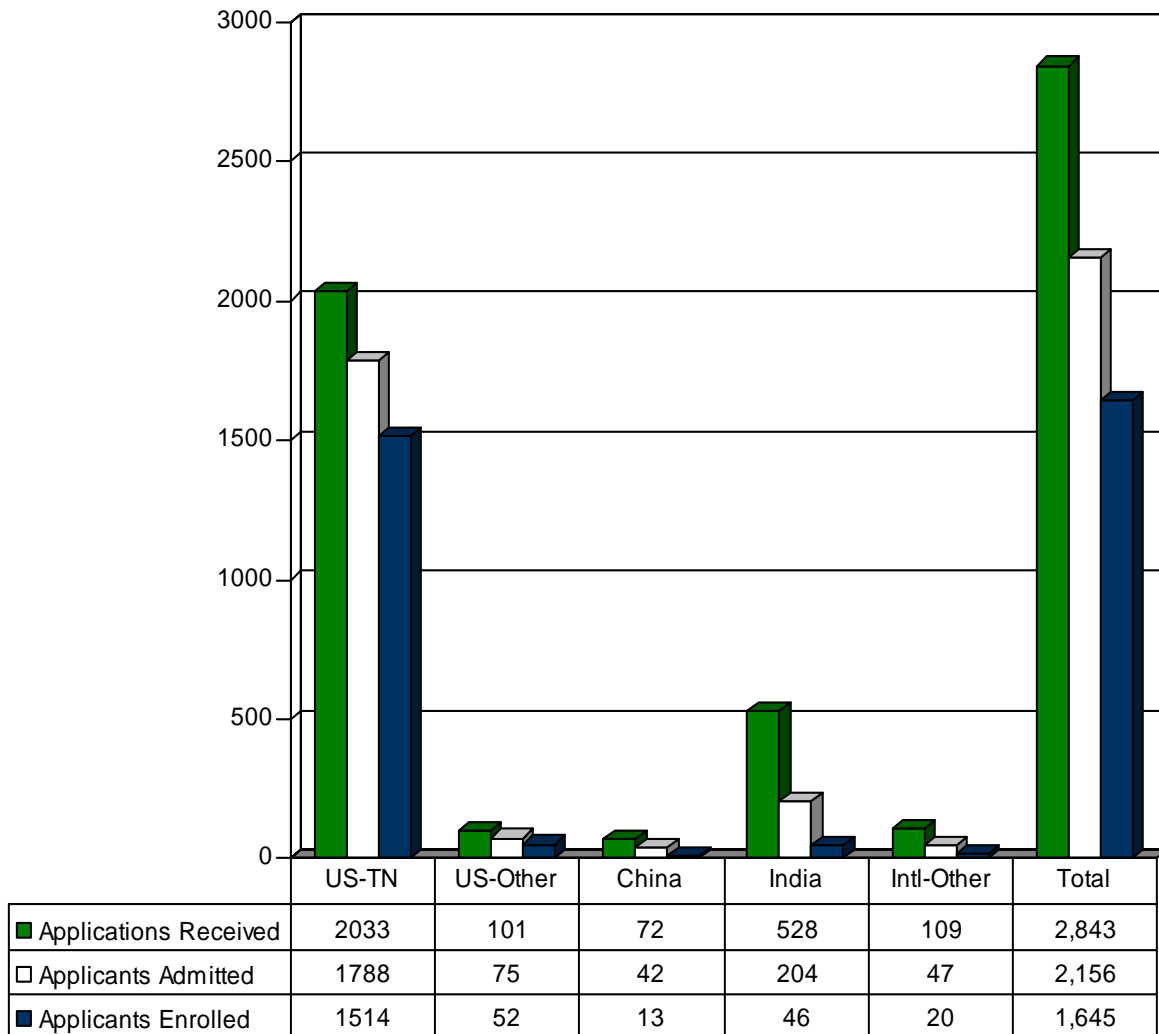
A faculty member who does not qualify for full membership on the Graduate Faculty may be appointed as an Associate Member on the basis of at least a master's degree and demonstrated specific competencies to carry out the departmental special needs for graduate teaching, advisement, or research.

| | |
|---|--|
| Mr. Robert Gray Anderson , M.S. | Adjunct Instructor of Biology |
| Dr. R. Kenton Craven , Ph.D. | Adjunct Professor of English |
| Dr. Christopher A. Edwards , Ph.D. | Adjunct Professor of Counseling and Psychology |
| Dr. Sherrie M. Foster , Ed.D. | Adjunct Professor of Counseling and Psychology |
| Ms. Darlene A. Franklin , M.S.N. | Assistant Professor of Nursing |
| Dr. Christy Killman , D.A. | Associate Professor of Health and Physical Education |
| Dr. George L. Walker , D.A. | Adjunct Assistant Professor of Health and Physical Education |
| Dr. Cynthia Webster , Ph.D. | Adjunct Professor of Counseling and Psychology |

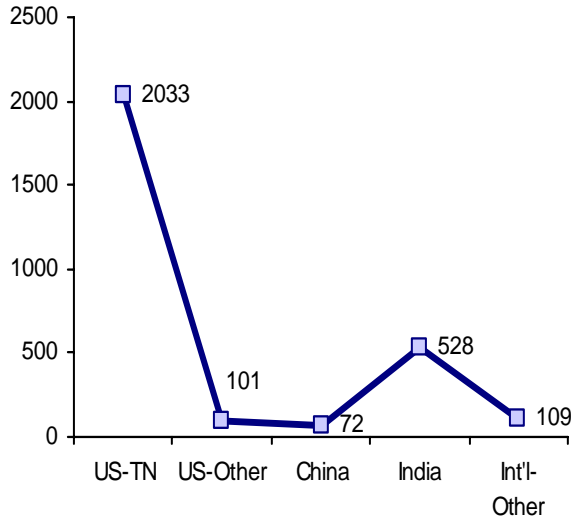
Graduate Admissions

Interest in graduate study at Tennessee Technological University continues to grow. Tremendous energy is expended in the Graduate School to assist academic departments as efficiently and expeditiously as possible in recruiting, admitting, monitoring, and assuring the completion of graduate degrees for their students.

Admissions 2005-2006



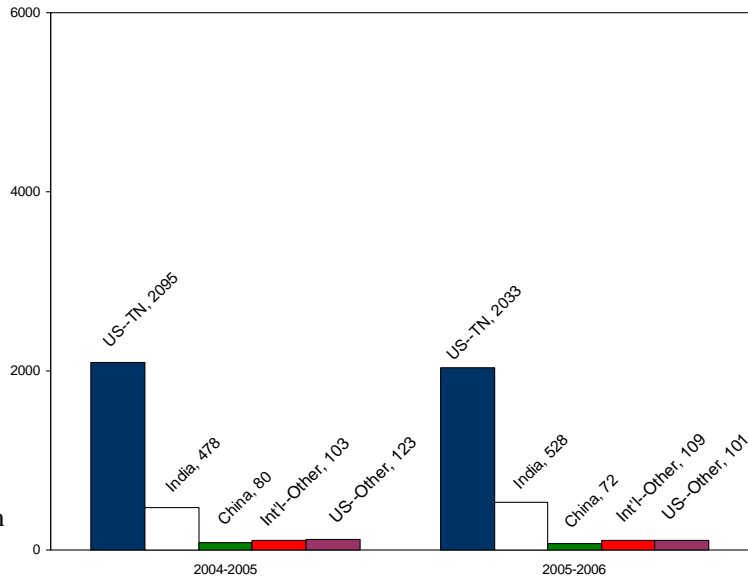
Total Applications Received
2004-2005 vs 2005-2006



□ The International applications increased by 7.3% over 2004-2005. This is the first increase of international applications since 2002-2003. The number of US applications received in 2005-2006 decreased by 1.2% (total of 36 applications over 2004-2005).

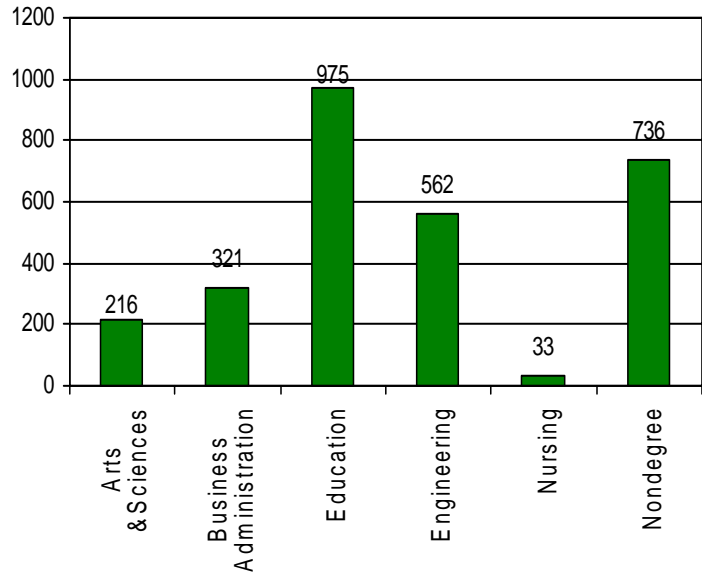
Applications Received by Residence
2005 - 2006

- Of the 2,843 total applications received, 75.1% originated within the United States.
- Over 95% of the applications received from the United States were submitted by students within the state of Tennessee.
- Of the international applications received, 74.5% arrived from India, 10.1% were sent from China, with 15.4% were received from other countries.

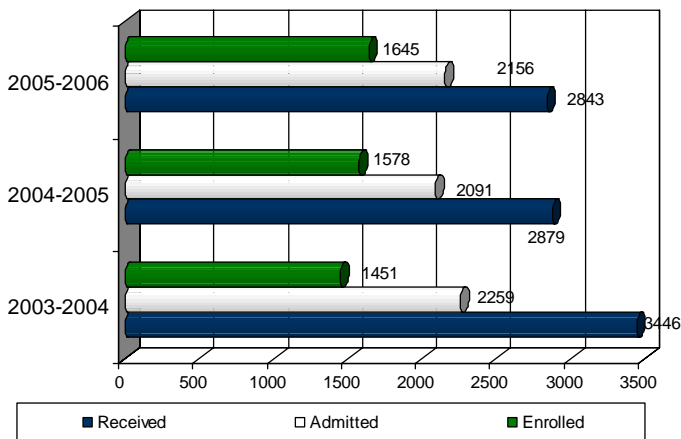


*Applications Received by Discipline
2005-2006*

□ As can be seen in the graph to the right, 34.3% of all applications received are for majors in the College of Education with the College of Education attracting 19.8% of the applications.



*Applications Resulting in Admission
and Enrollment
2003-2006*

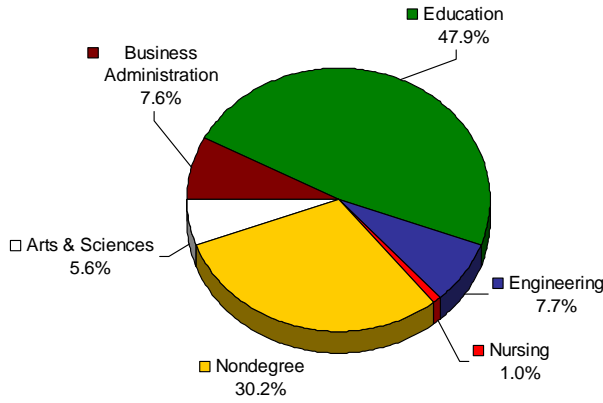


□ Of the 2,843 applications received during the 2005-2006 academic year, 75.8% resulted in admitted graduate students and 57.8% in enrolled students.

□ Although the number of applications decreased slightly over 2004-2005, the number of admissions and enrolled applicants increased by 3.1% and 4.2%, respectively.

Graduate Enrollments

*Graduate Enrollment by College
2005 Fall*



□ Nearly 50% of the graduate enrollment is in the College of Education.

□ The College of Arts and Sciences has shown the largest increase in enrollment in a degree program over 2004 Fall (13.8%).

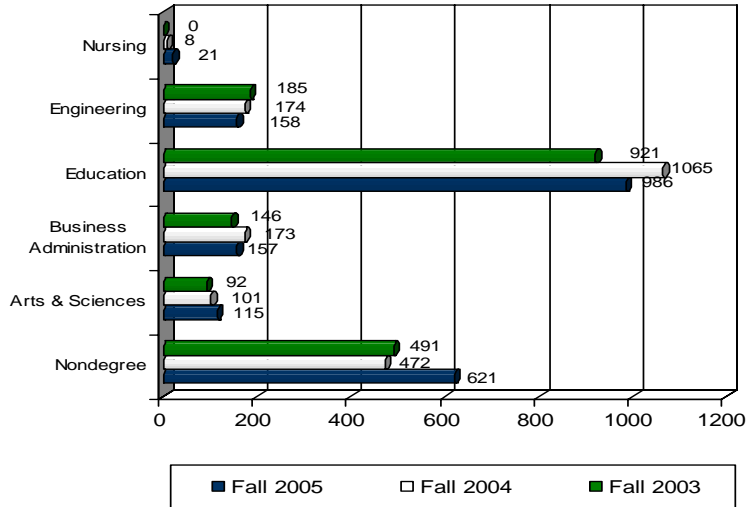
□ The School of Nursing program (MSN) showed an increase of 262% over the previous year. Their program began in the Fall semester of 2004.

□ The College of Education shows decrease of 7.5% over 2004.

□ The College of Engineering continues to show a slight decrease of 9.2%.

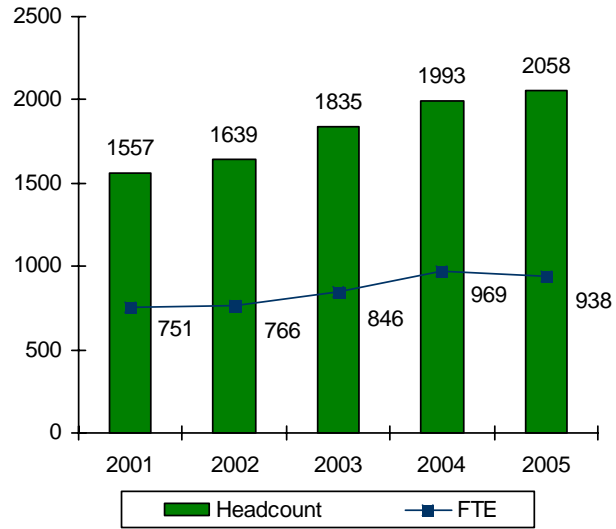
□ The College of Business Administration saw a slight decrease in enrollment (9.3%).

*Enrollment Trends by College
Fall Terms
2003-2005*

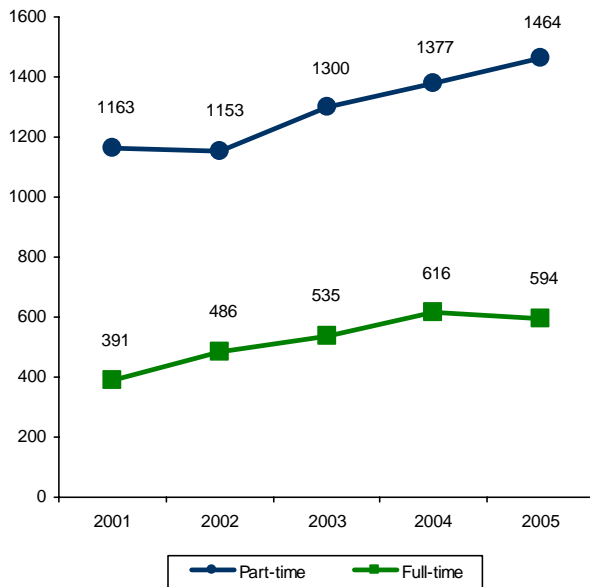


- Graduate student headcount increased 3.2% Fall 2005 while the FTE decreased slightly (3.3%).

*Headcount vs. FTE
Enrollment
Fall Terms*



*Part-time vs. Full-time
Enrollment
Fall Terms*

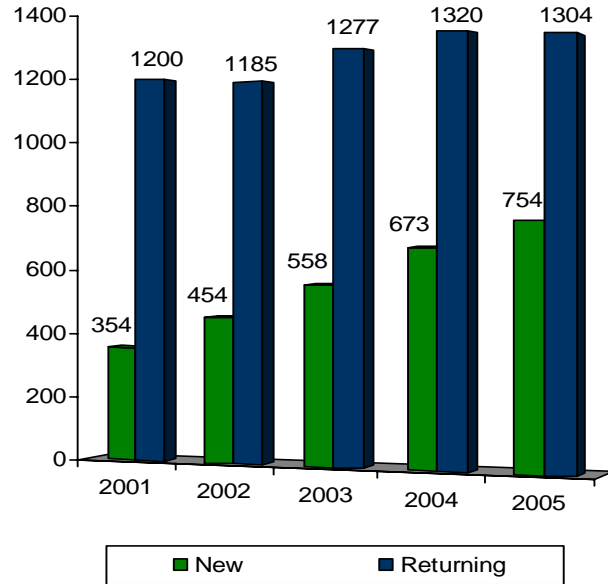


- Part-time enrollment has shown a 6.3% increase over the last year.

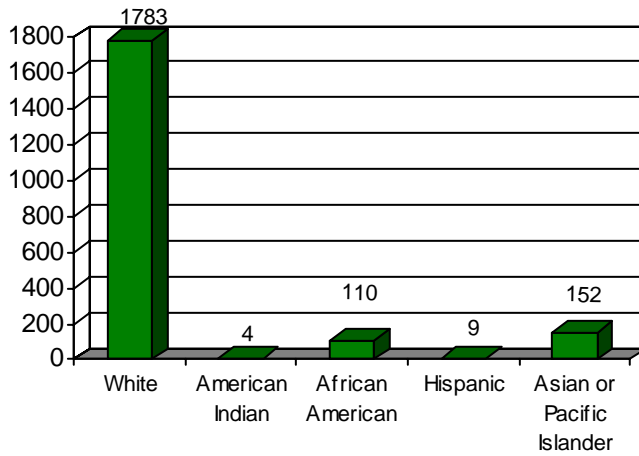
- Fulltime enrollment has shown a slight decrease of 3.6% during the last year.

*New vs. Returning Student Enrollment
Fall Terms*

□ The number of new student enrollment increased by 12% over 2004. The returning/continuing student number decreased in 2005 by 1.2%.



*Graduate Enrollment by Race
2005 Fall*

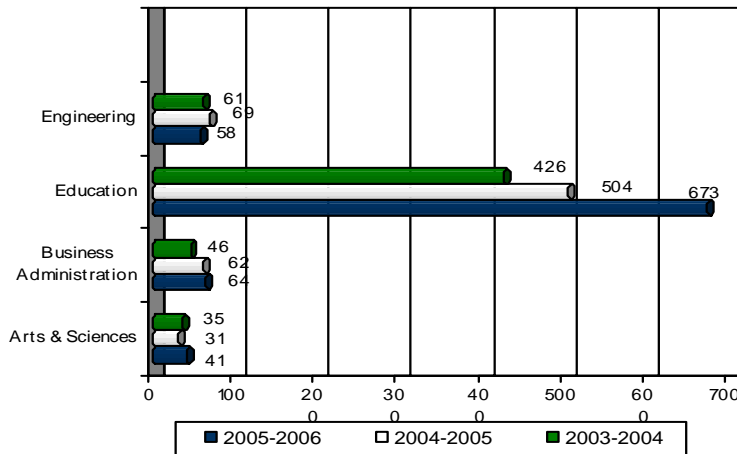


□ The graduate student enrollment is comprised of the following:

| | |
|---------------------------|-------|
| White | 86.7% |
| Asian or Pacific Islander | 7.4% |
| African American | 5.3% |
| Hispanic | 0.4% |
| American Indian | 0.2% |

Graduate Degrees Conferred

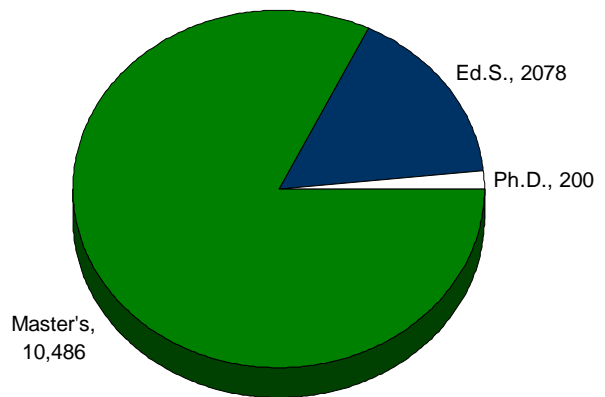
By College
2003 - 2006



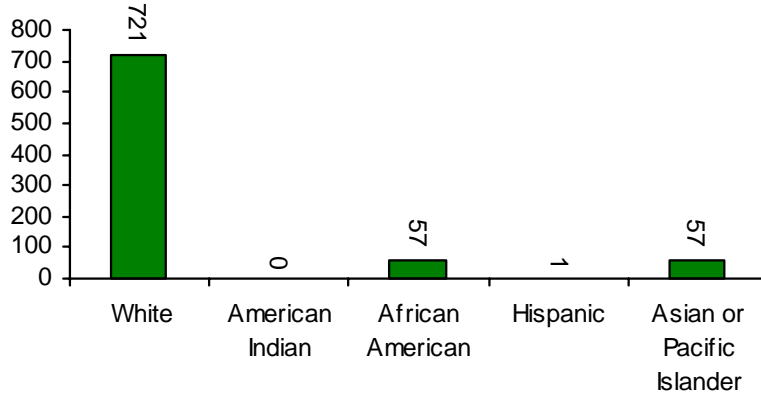
□ A comparison of the number of degrees conferred by each college for a three-year period may be seen to the left.

By Degree Level
1959-2006

- Since the inception of graduate studies, TTU has conferred 12,764 graduate degrees.
- As seen graphically at the right, the master's level represents the largest area of degrees conferred to date.



*Degrees Awarded
By Race
2005-2006*

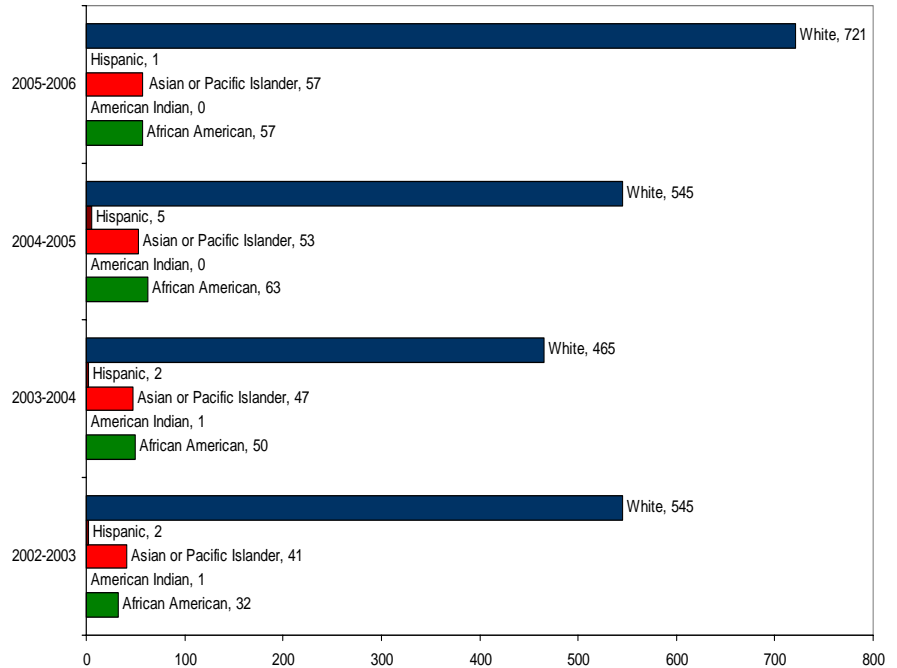


☐ The figure to the left shows the breakdown of the degrees awarded by race over the last year.

*By Race
Four-Year Comparison
2002-2003 through 2005-2006*

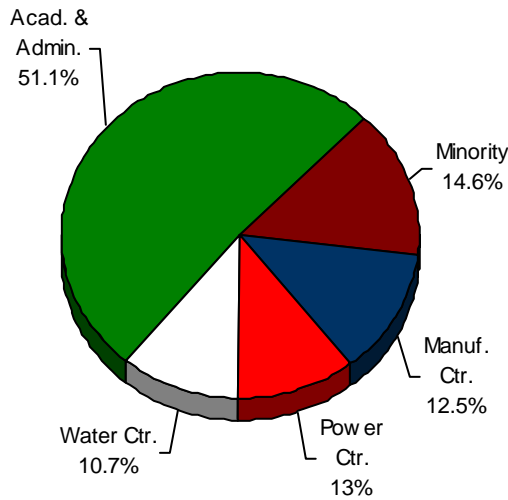
☐ As can be seen in the figure to the right, the number of degrees awarded to Asian or Pacific Islanders has continued to increase over the last four years.

☐ The number of degrees awarded to African Americans and Hispanics has remained relatively steady.



Graduate Student Support

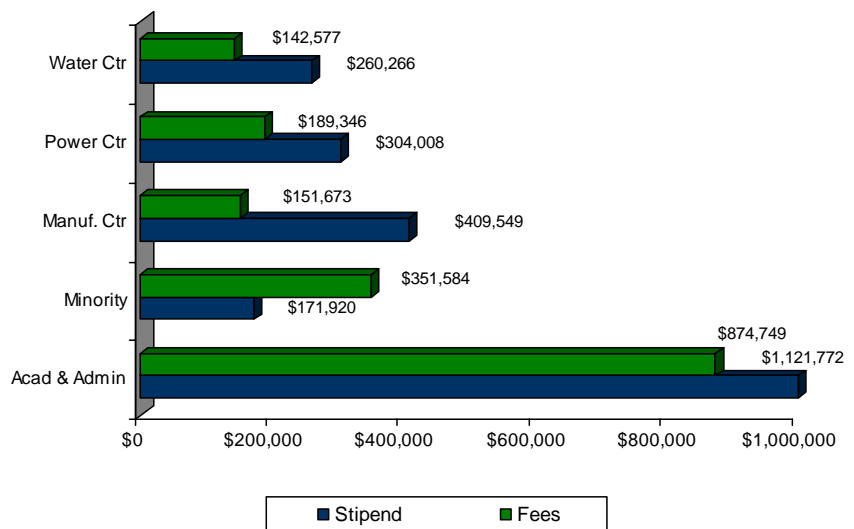
*Allocation of Graduate Student Funding by Source
2005 Fall*



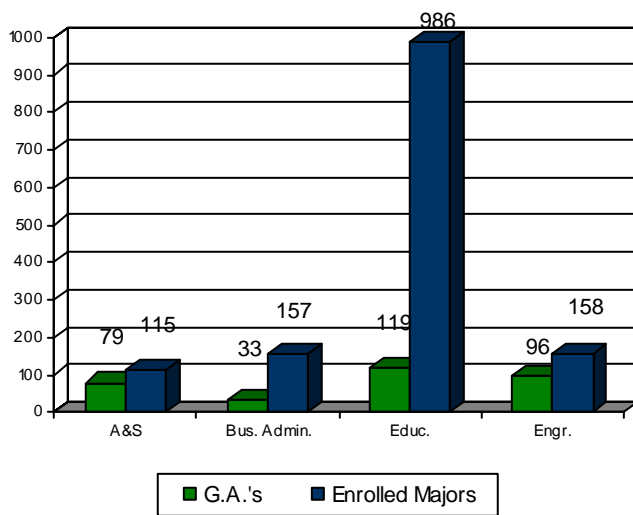
- The three Centers of Excellence provided 34.3% of the university's graduate student funding for a total of \$652,404 for Fall 2005.
- The University provided \$1,250,954 toward the graduate student funding for Fall 2005.

*University Funding of Graduate Assistantships
2005 Fall-2006 Spring*

- Total Graduate Assistantship funding during 2005-2006 totaled \$3,977,442. Amounts by source are shown in the figure to the right.



Number of Graduate Assistantships in Relation to Enrollment by College 2005 Fall



□ The Colleges of Arts & Sciences and Engineering continue to have the largest percentages (68.7% and 60.8%, respectively) of enrolled students receiving an assistantship while the Colleges of Business Administration and Education have the smallest percentages (21.0% and 12.1%, respectively).

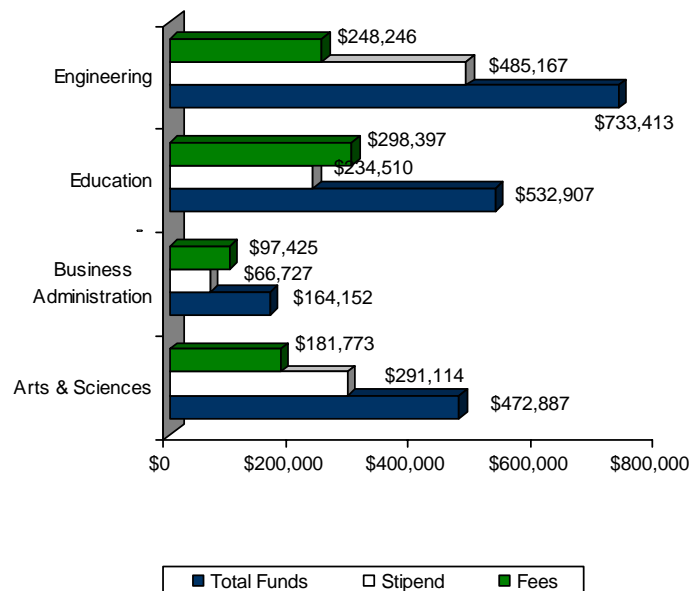
□ The total funding by college is shown at the right. The College of Engineering received 38.5% of the graduate student support.

□ The total funding shown does include all minority assistantships as well as fellowships.

□ The percentage of support received by each college is shown below:

| | |
|-----------------|-------|
| Arts & Sciences | 24.8% |
| Business Admin. | 8.6% |
| Education | 28.1% |
| Engineering | 38.5% |

Allocation of Graduate Student Funding By College 2005 Fall



Appendix A

GRADUATE SCHOOL CHARACTERISTICS
Fall Terms 2001- 2005

| | 2001 | 2002 | 2003 | 2004 | 2005 |
|-------------------------------|-------------|-------------|-------------|-------------|-------------|
| Total Enrollment (FTE) | 1554 | 1639 | 1835 | 1993 | 2058 |
| | 751 | 766 | 846 | 969 | 938 |
| <hr/> | | | | | |
| Full-time | 391 | 486 | 535 | 616 | 594 |
| Part-time | 1163 | 1153 | 1300 | 1377 | 1464 |
| <hr/> | | | | | |
| By Degree Sought | | | | | |
| M.A. | 642 | 622 | 624 | 697 | 646 |
| M.B.A. | 120 | 122 | 146 | 173 | 157 |
| M.Ed. | 0 | 0 | 0 | 6 | 7 |
| M.S. | 186 | 185 | 201 | 197 | 188 |
| M.S.N. | 0 | 0 | 0 | 8 | 21 |
| Ed.S. | 233 | 227 | 286 | 340 | 310 |
| Ph.D. | 60 | 71 | 87 | 100 | 108 |
| <hr/> | | | | | |
| Nondegree | 313 | 412 | 491 | 472 | 621 |
| <hr/> | | | | | |
| By Gender | | | | | |
| Male | 521 | 545 | 609 | 651 | 619 |
| Female | 1033 | 1094 | 1226 | 1342 | 1439 |
| <hr/> | | | | | |
| By Residence | | | | | |
| Tennessee | 1367 | 1455 | 1617 | 1765 | 1827 |
| Out-of-State | 41 | 54 | 61 | 73 | 74 |
| International | 146 | 130 | 157 | 155 | 157 |
| <hr/> | | | | | |
| By Entry Status | | | | | |
| New | 354 | 454 | 558 | 673 | 754 |
| Returning | 1200 | 1185 | 1277 | 1320 | 1304 |
| <hr/> | | | | | |
| By Race | | | | | |
| White | 1352 | 1436 | 1568 | 1715 | 1783 |
| American Indian | 4 | 3 | 2 | 3 | 4 |
| African American | 51 | 69 | 106 | 122 | 110 |
| Hispanic | 6 | 5 | 8 | 6 | 9 |
| Asian or Pacific Islander | 141 | 126 | 149 | 147 | 152 |

FALL TERM GRADUATE ENROLLMENTS
Master's, Ed.S., and Ph.D. Levels
 2001-2005

| <i>College/Major</i> | <i>2001</i> | <i>2002</i> | <i>2003</i> | <i>2004</i> | <i>2005</i> |
|---------------------------------------|-------------|-------------|-------------|-------------|-------------|
| ARTS & SCIENCES | | | | | |
| Master's | | | | | |
| Biology (M.S.) | 23 | 28 | 30 | 30 | 39 |
| Chemistry (M.S.) | 9 | 9 | 10 | 8 | 12 |
| Computer Science (M.S.)* | | 3 | 9 | 22 | 18 |
| English (M.A.) | 13 | 16 | 17 | 17 | 20 |
| Mathematics (M.S.) | 9 | 13 | 10 | 11 | 13 |
| Ph.D. | | | | | |
| Environmental Sciences | <u>14</u> | <u>16</u> | <u>16</u> | <u>13</u> | <u>13</u> |
| Subtotals | 68 | 85 | 92 | 101 | 115 |
| <hr/> | | | | | |
| BUSINESS ADMINISTRATION | | | | | |
| M.B.A. | 120 | 122 | 146 | 173 | 157 |
| <hr/> | | | | | |
| EDUCATION | | | | | |
| M.A. | | | | | |
| Curriculum & Instruction | 160 | 177 | 208 | 219 | 180 |
| Educational Psychology | 88 | 89 | 77 | 80 | 69 |
| Health & Physical Education | 17 | 8 | 20 | 27 | 28 |
| Instructional Leadership | 364 | 332 | 302 | 354 | 349 |
| M.Ed. | | | | | |
| Adv. Studies in Teaching & Learning** | | | | 6 | 7 |
| Ed.S. | | | | | |
| Curriculum & Instruction | 7 | 8 | 24 | 28 | 24 |
| Educational Psychology | 31 | 30 | 37 | 24 | 33 |
| Instructional Leadership | 195 | 189 | 225 | 288 | 253 |
| Ph.D. | | | | | |
| Exceptional Learning*** | <u>17</u> | <u>24</u> | <u>28</u> | <u>39</u> | <u>43</u> |
| Subtotals | 879 | 857 | 921 | 1065 | 986 |
| <hr/> | | | | | |
| ENGINEERING | | | | | |
| M.S. | | | | | |
| Chemical | 24 | 20 | 18 | 16 | 10 |
| Civil | 22 | 25 | 23 | 17 | 20 |
| Electrical | 39 | 41 | 52 | 55 | 45 |
| Industrial | 7 | 2 | 2 | 0 | 0 |
| Mechanical | 53 | 44 | 47 | 38 | 31 |
| Ph.D. | | | | | |
| Engineering | <u>29</u> | <u>31</u> | <u>43</u> | <u>48</u> | <u>52</u> |
| Subtotals | 174 | 163 | 185 | 174 | 158 |
| <hr/> | | | | | |
| NURSING**** | | | | | |
| M.S.N. | | | | 8 | 21 |
| <hr/> | | | | | |
| NONDEGREE | 313 | 412 | 491 | 472 | 621 |
| <hr/> | | | | | |
| TOTALS | 1554 | 1639 | 1835 | 1993 | 2058 |

*The Computer Science program began 2002 Fall
 ***The Exceptional Learning program began 2000 Fall

**The Adv. Studies in Learning & Teaching Program began 2004 Summer
 ****The Master of Science in Nursing Program began 2004 Fall

GRADUATE ENROLLMENT BY DEGREE LEVELS
A Five-Year Comparison
 2001-2002 to 2005-2006

| <i>Year</i> | <i>Degree</i> | <i>Summer</i> | <i>Fall</i> | <i>Spring</i> |
|------------------|---------------|---------------|-------------|---------------|
| 2005-2006 | M.A. | 494 | 646 | 637 |
| | M.B.A. | 117 | 157 | 171 |
| | M.Ed. | 4 | 7 | 6 |
| | M.S. | 92 | 188 | 178 |
| | M.S.N. | 12 | 21 | 21 |
| | Ed.S. | 317 | 310 | 327 |
| | Ph.D. | 80 | 108 | 106 |
| | NDGR | <u>47</u> | <u>621</u> | <u>118</u> |
| | Totals | 1163 | 2058 | 1564 |
| 2004-2005 | M.A. | 473 | 697 | 696 |
| | M.B.A. | 91 | 173 | 139 |
| | M.Ed. | 3 | 6 | 4 |
| | M.S. | 110 | 197 | 184 |
| | M.S.N. | | 8 | 13 |
| | Ed.S. | 218 | 340 | 350 |
| | Ph.D. | 72 | 100 | 99 |
| | NDGR | <u>34</u> | <u>472</u> | <u>86</u> |
| | Totals | 1001 | 1993 | 1571 |
| 2003-2004 | M.A. | 441 | 624 | 623 |
| | M.B.A. | 90 | 146 | 130 |
| | M.S. | 120 | 201 | 200 |
| | Ed.S. | 232 | 286 | 283 |
| | Ph.D. | 51 | 87 | 92 |
| | NDGR | <u>41</u> | <u>491</u> | <u>67</u> |
| | | Totals | 975 | 1835 |
| 2002-2003 | M.A. | 516 | 622 | 588 |
| | M.B.A. | 75 | 122 | 129 |
| | M.S. | 105 | 185 | 194 |
| | Ed.S. | 178 | 227 | 272 |
| | Ph.D. | 49 | 71 | 70 |
| | NDGR | <u>23</u> | <u>412</u> | <u>59</u> |
| | | Totals | 946 | 1639 |
| 2001-2002 | M.A. | 528 | 642 | 637 |
| | M.B.A. | 89 | 120 | 108 |
| | M.S. | 117 | 186 | 167 |
| | Ed.S. | 188 | 233 | 221 |
| | Ph.D. | 45 | 60 | 57 |
| | NDGR | <u>51</u> | <u>313</u> | <u>75</u> |
| | | Totals | 1018 | 1554 |

GRADUATE DEGREES CONFERRED BY COLLEGE
A Three-Year Comparison

| <i>College/Major</i> | <i>2003-2004</i> | | | <i>2004-2005</i> | | | <i>2005-2006</i> | | |
|----------------------------|------------------|-------------|-------------|------------------|-------------|-------------|------------------|-------------|-------------|
| | <i>Sum.</i> | <i>Fall</i> | <i>Spr.</i> | <i>Sum.</i> | <i>Fall</i> | <i>Spr.</i> | <i>Sum.</i> | <i>Fall</i> | <i>Spr.</i> |
| ARTS & SCIENCES | | | | | | | | | |
| Biology (M.S.) | 5 | 2 | 8 | 2 | 5 | 2 | 5 | 3 | 9 |
| Chemistry (M.S.) | 0 | 1 | 4 | 2 | 1 | 2 | 1 | 1 | 1 |
| Computer Science (M.S.) | 0 | 0 | 0 | 0 | 1 | 6 | 5 | 2 | 1 |
| English (M.A.) | 1 | 3 | 4 | 2 | 1 | 1 | 2 | 2 | 4 |
| Math (M.S.) | 0 | 1 | 4 | 0 | 2 | 1 | 0 | 2 | 3 |
| Ph.D. | | | | | | | | | |
| Environmental Sciences | <u>1</u> | <u>0</u> | <u>1</u> | <u>1</u> | <u>1</u> | <u>2</u> | <u>0</u> | <u>0</u> | <u>0</u> |
| Subtotals | 7 | 7 | 21 | 6 | 11 | 14 | 13 | 10 | 18 |
| BUSINESS ADMIN. | | | | | | | | | |
| M.B.A. | 16 | 21 | 9 | 6 | 41 | 15 | 31 | 17 | 16 |
| EDUCATION | | | | | | | | | |
| M.A. | | | | | | | | | |
| Curr. & Instruction | 24 | 11 | 19 | 27 | 16 | 29 | 40 | 7 | 27 |
| Educ. Psychology | 6 | 3 | 8 | 8 | 14 | 11 | 4 | 7 | 11 |
| Health & P.E. | 0 | 0 | 1 | 1 | 2 | 5 | 3 | 1 | 5 |
| Instruct. Leadership | 94 | 25 | 58 | 113 | 28 | 62 | 113 | 47 | 109 |
| M.Ed. | | | | | | | | | |
| Adv. Stu. Tchg. & Lrng. | | | | 0 | 0 | 0 | 0 | 0 | 2 |
| Ed.S. | | | | | | | | | |
| Curr. & Instruction | 1 | 1 | 1 | 2 | 1 | 3 | 2 | 0 | 1 |
| Educ. Psychology | 4 | 8 | 8 | 7 | 0 | 6 | 3 | 7 | 9 |
| Instruct. Leadership | 56 | 27 | 68 | 88 | 24 | 54 | 137 | 33 | 99 |
| Ph.D. | | | | | | | | | |
| Exceptional Learning | <u>2</u> | <u>0</u> | <u>1</u> | <u>0</u> | <u>2</u> | <u>1</u> | <u>5</u> | <u>1</u> | <u>0</u> |
| Subtotals | 187 | 75 | 164 | 246 | 87 | 171 | 307 | 103 | 263 |
| ENGINEERING | | | | | | | | | |
| M.S. | | | | | | | | | |
| Chemical | 5 | 4 | 1 | 4 | 3 | 4 | 3 | 2 | 0 |
| Civil | 2 | 2 | 5 | 3 | 7 | 3 | 2 | 2 | 3 |
| Electrical | 3 | 7 | 1 | 7 | 10 | 4 | 8 | 12 | 3 |
| Industrial | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mechanical | 6 | 9 | 7 | 7 | 6 | 3 | 6 | 7 | 3 |
| Ph.D. | | | | | | | | | |
| Engineering | <u>2</u> | <u>1</u> | <u>1</u> | <u>3</u> | <u>4</u> | <u>1</u> | <u>2</u> | <u>3</u> | <u>2</u> |
| Subtotals | 18 | 24 | 16 | 24 | 30 | 15 | 21 | 26 | 11 |
| NURSING | | | | | | | | | |
| M.S.N. | | | | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTALS | 228 | 127 | 210 | 282 | 169 | 215 | 372 | 156 | 308 |

GRADUATE DEGREES CONFERRED TO DATE
1959-2006

| <i>Year</i> | <i>Master's</i> | <i>Specialist</i> | <i>Doctoral</i> |
|---------------|-----------------|-------------------|-----------------|
| 1959-1960 | 9 | | |
| 1960-1961 | 15 | | |
| 1961-1962 | 16 | | |
| 1962-1963 | 15 | | |
| 1963-1964 | 19 | | |
| 1964-1965 | 22 | | |
| 1965-1966 | 31 | | |
| 1966-1967 | 60 | | |
| 1967-1968 | 88 | | |
| 1968-1969 | 109 | | |
| 1969-1970 | 124 | | |
| 1970-1971 | 198 | | |
| 1971-1972 | 203 | 7 | |
| 1972-1973 | 257 | 6 | |
| 1973-1974 | 217 | 18 | 2 |
| 1974-1975 | 247 | 20 | 1 |
| 1975-1976 | 260 | 30 | 4 |
| 1976-1977 | 240 | 23 | 3 |
| 1977-1978 | 205 | 13 | 1 |
| 1978-1979 | 253 | 25 | 1 |
| 1979-1980 | 222 | 41 | 3 |
| 1980-1981 | 277 | 31 | 2 |
| 1981-1982 | 229 | 26 | 2 |
| 1982-1983 | 196 | 36 | 4 |
| 1983-1984 | 208 | 26 | 6 |
| 1984-1985 | 252 | 31 | 4 |
| 1985-1986 | 213 | 32 | 2 |
| 1986-1987 | 178 | 35 | 7 |
| 1987-1988 | 206 | 32 | 5 |
| 1988-1989 | 298 | 46 | 6 |
| 1989-1990 | 264 | 19 | 8 |
| 1990-1991 | 185 | 35 | 4 |
| 1991-1992 | 247 | 44 | 7 |
| 1992-1993 | 221 | 36 | 7 |
| 1993-1994 | 231 | 50 | 15 |
| 1994-1995 | 269 | 44 | 8 |
| 1995-1996 | 268 | 64 | 9 |
| 1996-1997 | 284 | 43 | 11 |
| 1997-1998 | 333 | 69 | 3 |
| 1998-1999 | 334 | 80 | 8 |
| 1999-2000 | 348 | 91 | 4 |
| 2000-2001 | 392 | 101 | 5 |
| 2001-2002 | 414 | 117 | 7 |
| 2002-2003 | 448 | 158 | 15 |
| 2003-2004 | 382 | 174 | 9 |
| 2004-2005 | 467 | 185 | 14 |
| 2005-2006 | <u>532</u> | <u>291</u> | <u>13</u> |
| TOTALS | 10,486 | 2078 | 200 |

GRADUATE STUDENT SUPPORT BY COLLEGE AND SOURCE

Fall 2005-Spring 2006

| College Major | Acad. & Admin. | | Minority | | Manuf. Center | | Power Center | | Water Center | | Total | |
|----------------------------|--------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|--------------------|--------------------|
| | Stipends | Fees | Stipends | Fees | Stipends | Fees | Stipends | Fees | Stipends | Fees | Stipends | Fees |
| Arts & Sciences | \$357,536 | \$231,581 | \$28,200 | \$18,281 | \$11,000 | \$5,473 | \$7,765 | \$5,351 | \$197,757 | \$107,565 | \$602,258 | \$368,251 |
| Biology | \$76,508 | \$41,990 | \$14,450 | \$10,122 | | | | | \$153,835 | \$89,536 | \$244,793 | \$141,648 |
| Chemistry | \$71,125 | \$46,215 | | | | | | | \$6,800 | \$2,676 | \$77,925 | \$48,891 |
| Computer Science | \$34,801 | \$28,157 | | | \$11,000 | \$5,473 | \$4,400 | \$2,676 | | | \$50,201 | \$36,306 |
| English | \$73,766 | \$54,190 | | | | | | | | | \$73,766 | \$54,190 |
| Environ. Sciences | \$43,286 | \$18,260 | \$10,000 | \$5,352 | | | | | \$37,122 | \$15,353 | \$90,408 | \$38,965 |
| Mathematics | \$58,050 | \$42,769 | \$3,750 | \$2,807 | | | \$3,365 | \$2,675 | | | \$65,165 | \$48,251 |
| Business Admin. | \$140,744 | \$164,290 | \$4,800 | \$31,322 | \$3,200 | \$0 | | | | | \$148,744 | \$195,612 |
| M.B.A. | \$140,744 | \$164,290 | \$4,800 | \$31,322 | \$3,200 | \$0 | | | | | \$148,744 | \$158,957 |
| Education | \$374,665 | \$342,148 | \$83,120 | \$258,200 | | | | | | | \$457,785 | \$600,348 |
| Curr. & Instruc. | \$92,300 | \$112,663 | \$0 | \$6,719 | | | | | | | \$92,300 | \$119,382 |
| Educ. Psy. | \$46,215 | \$54,916 | \$6,000 | \$26,653 | | | | | | | \$52,215 | \$81,569 |
| Exceptional Learning | \$147,800 | \$67,912 | \$50,000 | \$36,473 | | | | | | | \$197,800 | \$104,385 |
| Health & P.E. | \$30,200 | \$36,190 | | | | | | | | | \$30,200 | \$36,190 |
| Inst. Leadership | \$58,150 | \$70,467 | \$27,120 | \$188,355 | | | | | | | \$85,270 | \$258,822 |
| Engineering | \$248,827 | \$136,730 | \$55,800 | \$43,781 | \$395,349 | \$146,200 | \$296,243 | \$183,995 | \$62,509 | \$35,012 | \$1,058,728 | \$545,718 |
| Chemical Engr. | \$25,000 | \$14,296 | \$10,300 | \$9,177 | \$92,360 | \$29,427 | \$21,791 | \$10,083 | \$25,472 | \$13,671 | \$174,923 | \$76,654 |
| Civil Engr. | \$48,330 | \$29,818 | | | \$11,000 | \$5,712 | \$31,657 | \$20,014 | \$37,037 | \$21,341 | \$128,024 | \$76,885 |
| Electrical Engr. | \$82,635 | \$50,105 | \$45,500 | \$32,702 | \$92,359 | \$36,411 | \$128,821 | \$76,454 | | | \$349,315 | \$195,672 |
| Mechanical Engr. | \$92,862 | \$42,511 | \$0 | \$1,902 | \$199,630 | \$74,650 | \$113,974 | \$77,444 | | | \$406,466 | \$196,507 |
| TOTALS | \$1,121,772 | \$874,749 | \$171,920 | \$351,584 | \$409,549 | \$151,673 | \$304,008 | \$189,346 | \$260,266 | \$142,577 | \$2,267,515 | \$1,709,929 |

Minority dollars include both Graduate Assistantships and Minority Fellowships

Appendix B

Dissertations and Theses

July 1, 2005—June 30, 2006

DISSERTATIONS

- Anderson, Melinda Mackie.** “Measurement of Body Mass Index, Nutrient Analysis of Food Intake, and Dietary Eating Patterns Associated with Preschool-aged Children.” December 2005. Exceptional Learning. (Dr. D. Dean Richey)
- Baggett, Bob A.** “A Meta-Analysis of the Efficacy of Interventions with Children Diagnosed with Autism.” August 2005. Exceptional Learning. (Dr. John J. Wheeler)
- Chitiyo, Morgan.** “Positive Behavior Supports: An Evaluation of the Social Validity and Cost Effectiveness of a Consultative/Technical Assistance Model.” August 2005. Exceptional Learning. (Dr. John J. Wheeler)
- Dainty, Helen Thompson.** “Frequency of Positive and Negative Responses of Teachers and the Impact of Knowledge of Performance.” August 2005. Exceptional Learning. (Dr. John J. Wheeler)
- Dong, Gan.** “Sensorless and Efficiency Optimized Induction Machine Control with Associated Converter PWM Modulation Schemes.” December 2005. Engineering. (Dr. Joseph O. Ojo)
- Gerregano, Dolly Diane.** “The Role of the IFSP Document in Early Intervention: Family-Centeredness, Functionality, and Family Empowerment.” August 2005. Exceptional Learning. (Dr. D. Dean Richey)
- Khalili, Amin.** “Stress and Deformation Analysis of Rotating Discs.” May 2006. Engineering. (Dr. John Peddieson, Jr.)
- Littrell, Annette Brewington.** “‘My Space’: Using Blogs as Literature Journals with Adolescents.” August 2005. Exceptional Learning. (Dr. Betty D. Roe)
- Lu, Zigui.** “Electrically Conductive Spinel and Perovskite Phases for Solid Oxide Fuel Cell Interconnect Applications.” December 2005. Engineering. (Dr. Jiahong Zhu)
- Martin, Matthew Eric.** “Development of a Dual-Modality Hyperspectral Imaging System (DMHSI) for the Detection of Esophageal Cancer.” August 2005. Engineering. (Dr. Glenn T. Cunningham and Dr. Dale A. Wilson)
- Vijiapurapu, Lakshmi Sowjanya.** “Modeling of Turbulent Flow Through Rough Pipes.” December 2005. Engineering. (Dr. Jie Cui)
- Wolfe, Kevin Brian.** “First Principles and Artificial Neural Networks Modeling of Waste Temperatures in a Forced-Aeration Landfill Bioreactor.” May 2006. Engineering. (Dr. Lenly Weathers)
- Zhou, Hong.** “Spanning Tree and Free Form Wide Curve Theories for Compliant Mechanism Synthesis.” August 2005. Engineering. (Dr. Kwun-lon Ting)

THESES

- Adair, Brian D.** “Patterns in the Distribution of Adult and Juvenile Freshwater Mussels (*Bivalvia: unionidae*) within a Bed.” August 2005. Biology. (Dr. James B. Layzer)
- Ahmed, Dinah A.** “Modeling of Pulsed Corona Reactors for NO_x Removal Based on Nonuniform Electric Field Profiles.” December 2005. Electrical Engineering. (Dr. Satish Mahajan)
- Akogun, Abiodun Emmanuel.** “Theory and Application of Time Reversal Technique to Ultra Wideband Wireless Communications.” August 2005. Electrical Engineering. (Dr. Robert C. Qiu)
- Alapati, Prasad N. V. D.** “Numerical and Experimental Analysis of Turbulent Flow in Aqua-Swirl™ Concentrator.” August 2005. Mechanical Engineering. (Dr. Jie Cui and Dr. Vincent Neary)
- Alley, Bethany Lyn.** “Lemnacean Flora in Coastal South Carolina.” May 2006. Biology. (Dr. S. K. Ballal)
- Amimireddygar, Krishna C.** “Dynamic Layer-1 VPN Provisioning in Next-Generation Sonet/SDH Networks.” August 2005. Electrical Engineering. (Dr. Nasir Ghani)
- Atthuru, Karthik.** “Shared Protection Strategies in Virtual Concatenation-enabled Transport Networks.” December 2005. Electrical Engineering. (Dr. Nasir Ghani)
- Ayeleso, Babatunde Joseph.** “Tiered Survivability in Virtual Concatenation-Enabled Next-Generation Sonet/SDH Networks.” August 2005. Electrical Engineering. (Dr. Nasir Ghani)
- Badam, Srinivas.** “Flow Development in a Circular Duct with a Highly Distorted Inlet Condition.” August 2005. Mechanical Engineering. (Dr. Stephen Idem and Dr. Sastry Munukutla)
- Barlow, Andrew John.** “Modeling Grocery Store Choice in a Small Urban Area.” May 2006. Civil Engineering. (Dr. Daniel Badoe)
- Bizwell, Emily Anne.** “Aggressive Interactions between the Endangered Nashville Crayfish (*Orconectes Shoupi*) and Two Coexisting Crayfish Species.” May 2006. Biology. (Dr. Hayden T. Mattingly)
- Bottoms, Robert Dorsey.** “A Study of Load Models on Transient Stability Determination.” December 2005. Electrical Engineering. (Dr. Ghadir Radman)
- Canavan, Anne Marie.** “The Gothic *Gatsby*.” December 2005. English. (Dr. Michael Burdick)
- Challa, Venkata V.** “Modeling the Solubility of Blowing Agents in Polyols Using Statistical Associating Fluid Theory with Variable Range (SAFT-VR) Equation of State.” August 2005. Chemical Engineering. (Dr. Donald P. Visco)
- Christensen, Andrew Thomas.** “Hydraulic Performance and Sediment Trap Efficiency for the Stormtech® SC-740 Isolator™ Row.” December 2005. Civil Engineering. (Dr. Vincent Neary)
- Couch, Kimberly Louise.** “Mode Choice Behavior of University Students: Impact of Urban Form, Life Style, and Socioeconomic Characteristics.” December 2005. Civil Engineering. (Dr. Daniel Badoe)
- Dalela, Bhavesh.** “A Study of Multivariable Supplementary Power System Stabilizers.” December 2005. Electrical Engineering. (Dr. Ghadir Radman)

- Darden, John Rufus.** "A Study of the Amphibian Community and Core Terrestrial Habitat of Wetlands at Arnold Air Force Base, Tennessee." May 2006. Biology. (Professor O. Ray Jordan)
- Deshpande, Ameya Suresh.** "Measurement of Bending Mode Residual Stresses in Graphite-Epoxy Composites by the Finite Element Hole-Drilling Method." December 2005. Mechanical Engineering. (Dr. Darrell E. P. Hoy)
- Devadas, Rajesh R.** "Buckling of Circular Plates under Variable Inplane Loads." December 2005. Mechanical Engineering. (Dr. John Peddieson, Jr.)
- Dillehay, Geneil Hailey.** "An Investigation of Water Quality in Two Cave Systems Located in Tennessee's Highland Rim Physiographic Province." August 2005. Civil Engineering. (Dr. Lenly Weathers)
- Douglas, Terry Wayne.** "Design and Testing of a Biaxial Tensile Test Frame for Composites." May 2006. Mechanical Engineering. (Dr. Darrell E. P. Hoy)
- Dube, Sanjay K.** "Evaluation of Novel Methods in Mixture Phase Equilibrium Calculations Using Equations of State." August 2005. Chemical Engineering. (Dr. Donald P. Visco)
- Elliott, Barry Thomas.** "Overlapping Congruent Isosceles Triangles." May 2006. Mathematics. (Dr. Richard P. Savage, Jr.)
- Escue, Andrew Ross.** "Numerical Investigation of Swirling Pipe Flows." May 2006. Mechanical Engineering. (Dr. Jie Cui)
- Fox, Eric Stephen.** "An Analysis of the Vibration of Transversely Isotropic Toroidal Shells." August 2005. Civil Engineering. (Dr. Jane Liu)
- Goldsworthy, Cory A.** "Population Dynamics of Reintroduced Barrens Topminnows." August 2005. Biology. (Dr. Phillip W. Bettoli)
- Goodfred, David W.** "Characterization of Benthic Macroinvertebrate Communities Within the Emory River Watershed, Tennessee." May 2006. Biology. (Dr. S. Bradford Cook)
- Harmon, Benjamin Wade.** "pH-Dependent Extraction of Cesium by a Calix[4]Arene-Crown-6 Ether Bearing a Pendant Amine Group." December 2005. Chemistry. (Dr. Dale D. Ensor)
- Hayworth, Rebecca Pierce.** "Comparison of the LRFR HL-93 Truck Model to LRFR State Specific and AASHTO Legal Load Models and to the LFR HS20 Truck Model." May 2006. Civil Engineering. (Dr. Xiaoming Sharon Huo)
- Hovious, James Walter.** "Modeling and Verification of Large Synchronous Generators." December 2005. Electrical Engineering. (Dr. Joseph O. Ojo)
- Jakkula, Deepti.** "Preconditioning of Saddle Point Problems Using Hierarchical Matrices." May 2006. Mechanical Engineering. (Dr. John Peddieson, Jr., and Dr. Sabine LeBorne)
- Jiang, Rong.** "Fate of Forestry Herbicides Used in Pine Plantations on the Cumberland Plateau." August 2005. Chemistry. (Dr. John J. Harwood)
- Jones, Brena Kathleen.** "Predictive Habitat Models for Conservation of the Threatened Blackside Dace (*Phoxinus cumberlandensis*)." August 2005. Biology. (Dr. Hayden T. Mattingly)

- Joshi, Madhura Vishwas.** “Innovative Methods for Finding the Uniformity of Foam Quality.” August 2005. Electrical Engineering. (Dr. Mohamed Abdelrahman)
- Kaintz, Melissa Ann.** “Black Bass Tournament Activity and Mortality on Middle Tennessee Reservoirs.” August 2005. Biology. (Dr. Phillip W. Bettoli)
- Kala, Karthikeya D.** “Vibration of a Rotating Inextensible String with End Masses.” December 2005. Mechanical Engineering. (Dr. John Peddieson, Jr.)
- Kedilaya, Gururaj.** “Transient Analysis of a Single Pass, Single Row, Cross Flow Heat Exchanger.” December 2005. Mechanical Engineering. (Dr. Stephen Idem and Dr. John Peddieson, Jr.)
- Kumar, Rajneesh.** “Evaluating the Use of Cluster Distortion to Determine K in K-Means Clustering.” May 2006. Computer Science. (Dr. Douglas D. Talbert)
- Lakshmiraju, Sivarama Parabrahma Murthy.** “Numerical Investigation of Pressure Loss Reduction in a Power Plant Stack.” August 2005. Mechanical Engineering. (Dr. Jie Cui)
- Lavoie, Leah H.** “Behavioral Responses to Interspecific Chemical Cues: Are ZigZag Salamanders (*Plethodon dorsalis*) Able to Assess Predation Risk?” May 2006. Biology. (Dr. Christopher A. Brown)
- Long, Dorothy Leann.** “Estimating Confidence Intervals for the Fay-Herriot Model.” May 2006. Mathematics. (Dr. David Smith)
- Long, Dustin Marsh.** “A Semiparametric Approach to Linear Regression.” May 2006. Mathematics. (Dr. Michael R. Allen)
- Mahyavanshi, Bhaskarbai M.** “Analysis of Power Systems with STATCOM Considering Dynamic Load Model.” December 2005. Electrical Engineering. (Dr. Ghadir Radman)
- Mangadu Sri, Aravind.** “Design and Implementation of an Autonomous Robot.” December 2005. Electrical Engineering. (Dr. Ali T. Alouani)
- Matthews, William Brad.** “Protocol Transparent Interconnect for Network-on-Chip Applications.” May 2006. Electrical Engineering. (Dr. Roger L. Haggard)
- Meerbeek, Jonathan R.** “Survival, Growth, Condition, and Diet of Stocked Brown Trout in Five Tennessee Tailwaters.” August 2005. Biology. (Dr. Phillip W. Bettoli)
- Mellacheruvu, Manikya Prabha.** “Electrical, Nonlinearfield and Pulsed Frequency-Based Modeling of Electric Field Flow Fractionation.” December 2005. Electrical Engineering. (Dr. Satish Mahajan and Dr. Joseph J. Biernacki)
- Melville, Martin.** “Long-Term Impacts from Bridge Construction on Fish Communities in Western Tennessee.” May 2006. Biology. (Dr. Daniel L. Combs)
- Moles, Kendall R.** “Reproductive Characteristics of *Actinonaias ligamentina* in the Upper Green River, Kentucky.” December 2005. Biology. (Dr. James B. Layzer)
- Muthalaly, Varghese Mathew.** “Multi-domain Hierarchical Routing in All-optical DWDM Networks.” December 2005. Electrical Engineering. (Dr. Nasir Ghani)
- Nalla, Rana J.** “Implementation of a Software Radio on a General Purpose Processor.” May 2006. Electrical Engineering. (Dr. Jeffrey R. Austen)

- Nareddy, Radhika Reddy.** "Synthesis and NMR Structural Analysis of New Semi and Thiosemicarbazones." May 2006. Chemistry. (Dr. Edward C. Lisic)
- Olabisi, Adegoke.** "System on Chip Architecture for RC5 with Enhanced Security." May 2006. Electrical Engineering. (Dr. Omar ElKeelany)
- Pan, Ye.** "Sol-Gel Processing of YSZ Thin Films and Perovskite Coatings for Solid Oxide Fuel Cell Applications." August 2005. Mechanical Engineering. (Dr. Jiahong Zhu)
- Panter, Nikki Ann.** "Genetic Investigation of Northern Bobwhite Populations in Tennessee." May 2006. Biology. (Dr. John Gunderson)
- Parnham, Carl Jeffrey.** "Strain Measurements in Cement-Based Materials Using Synchrotron X-Rays." August 2005. Chemical Engineering. (Dr. Joseph J. Biernacki)
- Pingili, Sreedhar Reddy.** "Placement Strategy for FACTS Controllers using Squared Weighted Average Index (SWAI)." December 2005. Electrical Engineering. (Dr. Ghadir Radman and Dr. Arun Sekar)
- Purimetla, Anil K.** "CFD Studies on Burner Secondary Air Flow." August 2005. Mechanical Engineering. (Dr. Jie Cui)
- Qualls, Nathan T.** "Developing Novel Antifungal Agents, Active Against *C. albicans*, Using the Inverse QSAR Technique with Signature." December 2005. Chemical Engineering. (Dr. Donald P. Visco)
- Racha, Sainath Reddy.** "Topology, Shape, and Size Optimization of Mini Baja Swingarm." December 2005. Mechanical Engineering. (Dr. Christopher D. Wilson)
- Ramaswamy, Kartik.** "Power and Performance Evaluation of Cache Algorithms for Superscalar Processors." August 2005. Electrical Engineering. (Dr. Xubin He)
- Rhodes, Richard J., Jr.** "A Machine Vision System for Color Inspection of Bottled Pills in an Automated Pharmacy." August 2005. Electrical Engineering. (Dr. P. K. Rajan)
- Roush, Edward Michael.** "Document Quality Assessment for Automated Internet Text Mining." August 2005. Computer Science. (Dr. Douglas A. Talbert)
- Russ, William Thomas, II.** "Current Distribution and Seasonal Habitat Use of the Threatened Spotfin Chub in the Emory River Watershed." May 2006. Biology. (Dr. S. Bradford Cook)
- Saha, Bikash Chandra.** "Model Assessment of Trout Habitat Enhancement with Boulder Clusters in Tailwater of Caney Fork River." May 2006. Civil Engineering. (Dr. Vincent Neary)
- Santoro, Marc A.** "Warping Based Feature Detection for Time Series." August 2005. Computer Science. (Dr. Douglas A. Talbert)
- Sastry, Jyoti.** "Analysis and Control of an AC/DC PWM Rectifier-Assisted Induction Generator." August 2005. Electrical Engineering. (Dr. Joseph O. Ojo)
- Sathappan, Sathappan.** "Boiler Efficiency Anomaly for Coal-Fired Power Plants." December 2005. Mechanical Engineering. (Dr. Sastry Munukutla)
- Shaam, Naren.** "Vibration-based NDE of Polystyrene Foam Patterns Used in Lost Foam Castings." August 2005. Mechanical Engineering. (Dr. Sally J. Pardue)

- Simmons, Scott Eric.** "The Use of Artificial Nesting Structures in Mourning Dove Nesting Research and Habitat Management." May 2006. Biology. (Dr. Steven E. Hayslette)
- Smith, Erin K.** "Gene Flow Among Seemingly Isolated Populations of the Endangered Bluemask Darter, *Etheostoma (Doration)* sp." December 2005. Biology. (Dr. John Gunderson)
- Sonar, Aparna Prakash.** "Domain Decomposition Based Hierarchical Matrices." December 2005. Mathematics. (Dr. Sabine LeBorne)
- Tirisura Jagaduri, Rekha.** "Modeling and Control of Distributed Generation Systems Including Pem Fuel Cell and Gas Turbine." December 2005. Electrical Engineering. (Dr. Ghadir Radman)
- Velazco, Luis G.** "The Effect of SMOTE and Under-sampling on Probability Estimates." August 2005. Computer Science. (Dr. Douglas A. Talbert)
- Venkataramani, Sathish P.** "Design and Analysis of External Profiling." August 2005. Electrical Engineering. (Dr. Xubin He)
- Venugopal, Ashwini Sree.** "An Adaptive Fuzzy Logic-based Power System Stabilizer." December 2005. Electrical Engineering. (Dr. Ghadir Radman and Dr. Mohamed Abdulrahman)
- Vesukar, Vikram Hemendra.** "Influence of Axial Grooves on Performance of Micro-sized Journal Bearings." December 2005. Mechanical Engineering. (Dr. Sang M. Han)
- Weis, Derick Carl.** "Inverse QSAR for Compound Development using the Signature Descriptor: Application to Hydrofluoroethers and γ -Secretase Inhibitors." December 2005. Chemical Engineering. (Dr. Donald P. Visco)
- Welte, Nevin T.** "Glochidial Infestation Rates on Fishes of the Upper Green River after Institution of a Conservation Flow Regime." December 2005. Biology. (Dr. James B. Layzer)
- Winningham, Katherine S.** "Differences in Contributory Attitudes between Greek Affiliated and Non-Affiliated Individuals toward Hazing Behavior at Tennessee Technological University." May 2005. Agency Counseling. (Dr. Janet P. Turner)
- Xue, Changyu.** "Rapid Technology Assessment Methodology (RTAM): A Decision Support System for Allocating Technology Investments." May 2005. Mechanical Engineering. (Dr. Kenneth Currie and Dr. Kwun-lon Ting)
- Yeary, Lucas Wayne.** "Curie Temperature Modification of Mixed-Metal Ferrites by Doping of Rare Earth Metals for Use in Magnetocaloric Pumping Applications." December 2004. Mechanical Engineering. (Dr. Glenn T. Cunningham)
- Yendeti, Murali Krishna.** "Investigating the Role of Transit Pass Ownership on Transit Trip Making." May 2005. Civil Engineering. (Dr. Daniel A. Badoe)
- Zhang, Jianfeng.** "Statistical Data Mining Methods in Adverse Drug Reaction Database." December 2005. Mathematics. (Dr. Motoya Machida)
- Zhou, Dan.** "I/O Analysis on iSCSI-Based Storage Systems." August 2004. Electrical Engineering. (Dr. Xubin He)

2005-2006 Historical Data

Academic Terms

| | | |
|-----------------------------|-------------|--------------|
| <i>Summer Semester 2005</i> | | |
| | May 31 | Registration |
| | August 6 | Commencement |
| <i>Fall Semester 2005</i> | | |
| | August 26 | Registration |
| | December 17 | Commencement |
| <i>Spring Semester 2006</i> | | |
| | January 13 | Registration |
| | May 6 | Commencement |

Fees and Expenses

| | | |
|--|--|--------------------------|
| <i>Application Fee</i> | \$ 25.00 | American Applicants |
| | \$ 30.00 | International Applicants |
| <i>Graduate Tuition</i> (Payable by nonresidents of Tennessee) | \$404.00 per hour, maximum \$4656.00 per semester* | |
| <i>Graduate Maintenance Fee**</i> (Payable by all students) | \$307.00 per hour, maximum \$2807.00 per semester* | |
| <i>Thesis & Dissertation Binding Fees</i> | \$10.00 per copy | |
| Postage | \$5.00 to U.S. addresses | |
| | \$6.00 to non-U.S. addresses | |

*Summer Semester Fees will be charged at the per-hour rates with no maximum amount.

**Graduate fees are comprised of the following fees: maintenance, general access, debt service, and student government.



The Graduate School Annual Report 2005-2006. The information in this report was compiled and edited by Shelia Kendrick.
Tennessee Technological University: A constituent university of the Tennessee Board of Regents.