



18 Characteristics of Texas Public Doctoral Programs

Programs included only if in existence 3 or more years. Program is defined at the 8-digit CIP code level.

Engineering	Department
Mechanical Engineering PHD	Doctoral Degree Program

	Number of Degrees Per Year <i>For each of the three most recent years, of the number of degrees awarded per academic year.</i>	FY 2014-2015	FY 2015-2016	FY 2016-2017			
1		11	12	15			
	Graduate Rates <i>For each of the three most recent years, of the percent of first-year doctoral students² who graduated within ten years.</i> ² First-year doctoral students: Those students who have matriculated as doctoral students with a doctoral degree objective.	Fall 2014	Fall 2015	Fall 2016			
2		100%	0%	71%			
	Average Time to Degree <i>For each of the three most recent years, average of the graduates' time to degree³</i> ³ For each academic year, the time to degree is defined as beginning the year students matriculated with a doctoral degree objective until the year they graduated.	FY 2014-2015	FY 2015-2016	FY 2016-2017			
3		4.7	5.3	4.6			
	Employment Profile - (in field within one year of graduation) <i>For each of the three most recent years, the number and percent of graduates by year employed, those still seeking employment, and unknown.</i>	Fall 2014		Fall 2015		Fall 2016	
		Number	Percent	Number	Percent	Number	Percent
	Employed in Academia	1	9%	1	7%	4	26%
4	Employed as Post-Doctorates	0	0%	1	7%	1	6%
	Employed in Industry/Professional	4	36%	5	38%	6	40%
	Employed in Government	3	27%	2	15%	2	13%
	Still seeking employment	2	18%	1	7%	1	1%
	Unknown	1	9%	3	23%	1	1%
	Admissions Criteria Description of Admission Factors	http://www.depts.ttu.edu/cweb/Graduate/Phd.php 1) Graduate School Application 2) Official Transcripts 3) Official copy of the TOEFL scores (for international students) 4) GRE scores 5) Acceptance by Graduate Faculty 6) Department Application					
5							
	Percentage of Full-time Students <i>FTS %number students enrolled (headcount) for last three fall semesters.</i> ⁴ Definition of Full Time Student (FTS) is institutional by program.	Fall 2014	Fall 2015	Fall 2016			
6		82%	91%	82%			
	Average Institutional Financial Support Provided <i>For those receiving financial support, the average monetary institutional support provided per full-time graduate student for the prior year from assistantships, scholarships, stipends, grants, and fellowships (does not include tuition or benefits). Note: This number represents the weighted average monthly salary of all Research & Teaching Assistants and Graduate Part-Time Instructors.</i>	Fall 2014	Fall 2015	Fall 2016			
7		\$27,500	\$27,500	\$27,500			
	Percentage Full-time Students with Institutional Financial Support <i>In the prior year, the number of FTS with at least \$1000 of annual support/the number of FTS.</i>	Fall 2014	Fall 2015	Fall 2016			
8		73%	70%	78%			
	Number of Core Faculty⁵ <i>Number of core faculty in the prior years</i> ⁵ Core faculty: Full-time tenured and tenure-track faculty who teach 50 percent or more in the doctoral program or other individuals integral to the doctoral program who can direct dissertation research.	Fall 2014	Fall 2015	Fall 2016			
9		36	28	47			

10	Student-Core Faculty Ratio For each of the three most recent years, average of full-time student equivalent (FTSE)/average of full-time faculty equivalent (FTE) of core faculty	Fall 2014	Fall 2015	Fall 2016			
		1.75	2.6	2.41			
11	Core Faculty Publications For each of the three most recent calendar years, average of the number of discipline-related refereed papers/publications, books/book chapters, juried creative/performance accomplishments, and notices of discoveries filed/patents issued per core faculty member.						
		Calendar Year 2014	Calendar Year 2015	Calendar Year 2016			
	Refereed Papers/Publications	5.37	5.37	3.46			
	Books/Book Chapters	0.186	0.186	0			
	Juried Creative/Performance Accomplishments	1	1	1			
	Notices of Discoveries Filed/Patents	3.8	4.1	2.6			
12	Core Faculty External Grants For each of the three most recent years, average of the number of core faculty receiving external funds, average external funds per faculty, and total external funds per program per academic year ⁶						
	All external funds received by core faculty from any source including research grants, training grants, gifts from foundations, etc., reported as expenditures.	Fall 2014	Fall 2015	Fall 2016			
	Number of Core Faculty receiving external funds	16	17	7			
	Average External Grant \$ per Faculty	\$184,567	\$224,619	\$154,046			
	Total External Grant \$	\$2,953,078	\$3,818,523	\$1,078,322			
13	Faculty Teaching Load Total number of semester credit hours in organized teaching courses taught per academic year by core faculty divided by the number of core faculty.	Fall 2014	Fall 2015	Fall 2016			
		3.33 (120 SCH)	3.42 (120 SCH)	5			
14	Faculty Diversity Core faculty by ethnicity (White, Black, Hispanic, other) and gender,						
		Fall 2014		Fall 2015		Fall 2016	
		Male	Female	Male	Female	Male	Female
	White	13	1	12	1	17	3
	Black					1	
	Hispanic	2		1		1	
Other	14	6	12	2	20	5	
15	Student Diversity Enrollment headcount by ethnicity (White, Black, Hispanic, Other) and gender in program.						
		Fall 2014		Fall 2015		Fall 2016	
		Male	Female	Male	Female	Male	Female
	White	17	3	16	2	17	4
	Black	1		1		1	1
	Hispanic	3	1	3	1	2	
Other	58	5	56	10	59	10	
16	Date of Last External Review Date of last formal external review. ⁷ ⁷ Six-year Texas Tech University Graduate Program Review	2015					
17	External Program Accreditation Name of body and date of last program accreditation review, if applicable. ABET	2017					
18	Student Publications/Presentations For the three most recent calendar years, the number of discipline-related refereed papers/publications, juried creative/performance accomplishments, book chapters, books, and external presentations per year by student FTE						
		Calendar Year 2014	Calendar Year 2015	Calendar Year 2016			
	Refereed Papers/Publications	0.56	0.55	0.54			
	Juried Creative/Performance Accomplishments	0.2	0.18	0.2			
	Book Chapters	N/A	N/A	N/A			
	Books	N/A	N/A	N/A			
External Presentations	0.59	0.54	0.52				