Electrical and Computer Engineering

Degree Awarded: **Ph.D.**
Program Website: **https://www.ece.utexas.edu**

Characteristics Common to All Programs[1]

Characteristic 1: Number of Degrees Per Year

For each of the three most recent years, the number of degrees awarded per academic year.

Academic Year 2017: 61
Academic Year 2018: 63
Academic Year 2019: 56

Comments

Characteristic 2: Graduation Rates

For each of the three most recent years, the percent of first-year doctoral students[2] who graduated within ten years.

Academic Year 2017: 53.1 %
Academic Year 2018: 70.5 %
Academic Year 2019: 56.3 %

Comments

Graduation rates are affected by the number of students admitted with a PhD objective who leave with a master's degree. For example, 40 PhD-bound students earned master's degrees in fall 2019 or spring 2020 or summer 2020, and 17 of these 40 students left graduate school with the master's degree only.

Characteristic 3: Average Time to Degree[3]

For each of the three most recent years, average of the graduates' time to degree.

Academic Year 2017: 6

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

[2] First-year doctoral students. Those students who have matriculated as doctoral students with a doctoral degree objective.

[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.

Academic Year 2018: 6.9
Academic Year 2019: 5.8

Comments

Characteristic 4: Employment Profile (in field within one year of graduation)

For each of the three most recent years, the number and percent of graduates by year employed, those still seeking employment, and unknown.

Academic Year	Employed	Pct Employed	Unknown	Pct Unknown
2017	47	77 %	14	23 %
2018	45	71.4 %	18	28.6 %
2019	44	78.6 %	12	21.4 %

Comments

Numbers of employed graduates are known to be incomplete. This is the best information available.

Characteristic 5: Admission Criteria

Description of admission factors.

Information concerning Electrical and Computer Engineering (ECE) graduate admission factors can be found in UT-Austin's online Graduate Catalog on the Registrar's website in the ECE section under Admission Requirements: https://catalog.utexas.edu/graduate/fields-of-study/engineering/electrical-computer-engineering/

Characteristic 6: Number of Core Faculty

For each of the three most recent years, report the number of core faculty.

Academic Year 2017: 94
Academic Year 2018: 91
Academic Year 2019: 95

Comments

Approximately three-fourths of the core faculty on the Electrical and Computer Engineering Graduate Studies Committee (ECE GSC) are part of the ECE department. About one-fourth of the core faculty on the ECE GSC are from other departments (nominated and voted onto the ECE GSC by its ECE members), including Aerospace Engineering and Engineering Mechanics, Biomedical Engineering, Mechanical Engineering, Computer Science, and others. The ECE GSC members can solely supervise or co-supervise ECE graduate students who conduct research in the pursuit of the master's degree, report or thesis option, and in pursuit of the Ph.D. degree.

Characteristic 7: Core Faculty External Grants

For each of the three most recent years, report (1) the number of core faculty receiving external funds, (2) average external funds per faculty, and (3) total external funds per program per academic year.[4]

Academic Year	Number of Core Faculty	Average External Funds per Faculty	Total External Funds per Academic Year
2017	**81**	**426,510**	**34,547,306**
2018	**86**	**428,816**	**36,878,136**
2019	**82**	**429,285**	**35,201,378**

Comments

Characteristic 8: Core Faculty Activities

For each of the three most recent years, report the average number of discipline-related refereed papers or publications, books or book chapters, juried creative or performance accomplishments, and notices of discoveries files or patents issued per core faculty member. If figures include duplicate entries for co-authored publications, indicate the number of duplicate entries in a note.

Academic Year 2017: 9.89
Academic Year 2018: 12.54
Academic Year 2019: 11.01

Comments

Although data concerning faculty activities and publications is known to be incomplete, this is the best information available. The total number is adjusted for any duplicate entries.

Characteristic 9: Faculty Diversity

For each of the three most recent years, report core faculty by ethnicity (White, Black, Hispanic, Other) and gender.

Academic Year	Gender	White	Black	Hispanic	Other
2017	**Male**	**51**	**1**	**0**	**29**
	Female	**8**	**0**	**0**	**5**
2018	**Male**	**48**	**1**	**1**	**27**
	Female	**9**	**0**	**0**	**5**
2019	**Male**	**51**	**1**	**1**	**28**
	Female	**10**	**0**	**0**	**4**

Comments

Characteristic 10: Student Diversity

[4] All external funds received by core faculty from any source including research grants, training grants, gifts from foundations, etc., reported as expenditures.

For the three most recent years, report the Fall Enrollment headcount by ethnicity (White, Black, Hispanic, Other), gender, and residency status (Texas, out-of-state,etc.) in program during the prior year.

Academic Year	Gender	White	Black	Hispanic	Other
2017	Male	37	0	6	259
	Female	5	0	0	54
2018	Male	38	0	6	254
	Female	5	0	0	57
2019	Male	48	0	6	230
	Female	6	1	1	53

Comments

Characteristic 11: Student to Core Faculty Ratio

For each of the three most recent years, report the average of full-time student equivalent (FTSE) / average of full-time faculty equivalent (FTFE) of core faculty.

Academic Year	Average Full-time Student Equivalent	Number of Core Faculty
2017	361	94
2018	360	91
2019	345	95

Comments

Characteristic 12: Date of Last Review

Date of last formal external review.

An external review of the ECE graduate program was conducted in spring 2017. Graduate program review materials were submitted to the Cockrell School of Engineering Dean, the Graduate School, UT System, and the Texas Higher Education Coordinating Board on a THECB-specified schedule.

Characteristic 13: External Program Accreditation

Name of body and date of last program accreditation review, if applicable.

SACSCOC (Southern Association of Colleges and Schools Commission on Colleges) only accredits the institution (University of Texas at Austin) as a whole and does not review individual graduate programs. The University was last reaccredited by SACSCOC in 2008 and is underwent its reaffirmation of accreditation in 2018.

Characteristics of Research Programs[5]

Characteristic 14R: Percentage of Full-time Students[6]

Percentage of students enrolled (headcount) for the last three fall semesters.

Academic Year 2017: 82.6 %
Academic Year 2018: 83.7 %
Academic Year 2019: 84.6 %

Comments

Characteristic 15R: Average Institutional Financial Support Provided

For those receiving financial support, report the average monetary institutional support provided per full-time graduate student for the past three years from assistantships, scholarships, stipends, grants, and fellowships (does not include tuition or benefits). If you wish to indicate tuition and benefits in addition to the Responses here, please include amounts and reason in "Comments".

Academic Year 2017: 22,775
Academic Year 2018: 23,147
Academic Year 2019: 25,071

Comments

Characteristic 16R: Percentage Full-time Students with Institutional Financial Support

For each of the three most recent years, report the percentage of FTS with at least $1000 of annual support.

Academic Year 2017: 99.1 %
Academic Year 2018: 99.7 %
Academic Year 2019: 99.7 %

Comments

ECE graduate students employed as Graduate Research Assistantships or Teaching Assistantships (for 20 hours per week for at least four-and-a-half months in the long semesters) in 2019-20 received $12,531 in tuition coverage in addition to the average support amount of $27,900. Out-of-state students received $22,690 in tuition coverage which included $10,159 for the out-of-state portion of the tuition bill. These Graduate Research Assistants and Teaching Assistants also

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[5] UT Austin awards five Professional Doctoral Degrees: Doctor of Audiology (AuD), Doctor of Pharmacy (PharmD), Doctor of Nursing Practice (DNP), Doctor of Jurisprudence (JD), and Doctor of Medicine (MD). All other doctoral degrees awarded by UT Austin are designated as Research Doctoral Degrees.

[6] This report includes only students enrolled full time in the fall semester of the given year. Full-time enrollment is defined as enrollment for 9 hours or more of course work.

received $7,200 in staff health insurance benefits. A select few of our outstanding admittees received multi-year funding offers which included a combination of fellowship funds as well as Teaching Assistantships and/or Graduate Research Assistantships.

Characteristic 17R: Faculty Teaching Load

For each of the three most recent years, report the total number of semester credit hours in organized teaching courses taught per academic year by core faculty divided by the number of core faculty.

Academic Year 2017: 270
Academic Year 2018: 246.2
Academic Year 2019: 241.7

Comments

Characteristic 18R: Student Publications & Presentations

For the three most recent years, report the number of discipline-related papers & publications, juried creative or performance accomplishments, book chapters, books, and external presentations per year by student FTE. If figures include duplicate entries for co- authored publications, indicated the number of duplicate entries in a note.

Academic Year 2017: 1.98
Academic Year 2018: 1.41
Academic Year 2019: 1.44

Comments

Although data concerning student publications, presentations, etc. is known to be approximate and incomplete, this is the best information available. The total number is adjusted for any duplicate entries.

Characteristics of Professional Programs

Characteristic 19P: Average Tuition and Fees to Complete the Degree

For the three most recent years, report the combined annual tuition and program-specific fees multiplied by the average number of years that graduate students took to complete the degree.

Academic Year 2017: [N/A]
Academic Year 2018: [N/A]
Academic Year 2019: [N/A]

Comments

Characteristic 20P: Students Passing Licensure Exams

For the three most recent years, report the number and percentage of students in the cohort passing licensure exams. Include both first-time and repeat test takers. If there is no relevant licensure exam for the discipline, write "not applicable."

Academic Year 2017: [N/A]
Academic Year 2018: [N/A]
Academic Year 2019: [N/A]

Comments