MASTER OF SCIENCE IN ELECTRICAL ENGINEERING

Program Overview

Learn the fundamentals of mathematics, science, and engineering to develop skills in one of the most innovative fields in the world. With a Master's of Science in Electrical Engineering from ITU, you can pursue a fulfilling career in Silicon Valley through a practical education that allows you access to cutting-edge EDA tools. You will also learn from professors who are leaders in their field (and who have worked for prestigious companies like Cadence, Intel, IBM, and SanDisk) and engage with your peers (who have degrees from some best universities in the world like MIT, Columbia, and UC Berkeley).

Why You Should Apply

As an ITU electrical engineering student, you can:

- Concentrate on some of the most exciting technologies in the world today, such as VLSI Design, Analog, MEMS & RF IC Design, Signal Processing & Communication, and System Design.
- Implement design specifications, solve engineering problems through analysis, experimentation, and verification of ideas and concepts.
- Conduct research in ITU's laboratory facilities in artificial intelligence, embedded systems, green energy, bioelectronics, and System-on-Chip.
- Work with the latest industry tools and the licensing, which allows you hands-on research experience and involvement in exciting projects, such as designing your own computer chip.

Curriculum Highlights

Our 36 credit hour curriculum is completed in 16 months. The 36 credit hours are composed of core courses, electives, cross disciplinary electives, capstone or thesis, and an internship.

Sample Courses

- Embedded System Design
- Script Languages & Applications
- Digital Signal Processing & System Analysis
- Digital Design In HDL

36 credit hours

16 Months for Full Time | **32 Months** for Part Time

Admission Requirements

Bachelor's Degree With a minimum GPA of 2.75 or a Master's degree with a minimum GPA of 3.0.

Proof of English proficiency*: All applicants whose native language is not English and who did not receive either a bachelor's or graduate degree from an English-speaking institution must take an English proficiency test.

Test of English as a Foreign Language (TOEFL) examination; 78 or better for the internet-based test (ibt).

International English Language Testing System (IELTS) examination; band score of 6.0 or better for the academic module.

Demonstrate commitment to contribute to and complete the program.

U.S. citizens or U.S. Permanent* Residents that have earned an undergraduate or graduate degree from a regionally accredited institution in the U.S. are waived from this requirement.

Deadlines

Applications are reviewed on a rolling basis and considered for admission to the next available trimester start date.

One-On-One Advising

We are here to help. Email us for application assistance at **admissions@itu.edu**

Studying In Silicon Valley

ITU is in the heart of Silicon Valley. Our centrally located campus allows students to uncover the far-reaching opportunities offered in one of the world's leading business hubs. As an ITU student, you will study among some of the world's biggest companies. Our campus neighbors the headquarters of leading firms such as Facebook, Google, and eBay. The university's location gives each student the chance to learn and network with the best talent in the tech field.

Outside of your studies, you can spend your spare time exploring the distinctive culture of Northern California. Discover the exciting nightlife of the area by visiting local hotspots such as San Francisco's Haight-Ashbury and Pier 39. Take a break from city life with a day trip to some of California's premier beaches and mountain trails. Or spend a weekend further north touring Napa's Wine District, traversing Yosemite, or enjoying the many activities found in bustling Lake Tahoe.

CAREER DEVELOPMENT

RENOWNED FACULTY

SILICON VALLEY RESOURCES

ENTREPRENEURSHIP

Career Opportunities

- Design Engineer
- Verification Engineer
- Electrical Engineer
- Reliability Engineer

7%

Projected job-growth rate for electrical engineers.

$98,620

Median annual wage for electrical engineers in 2016.

U.S. Bureau of Labor Satistics

DEPARTMENT CHAIR OF ELECTRICAL ENGINEERING

May Huang, Ph.D., is chair of the Department of Electrical Engineering, director of global relations, and an instructor at ITU. She brings over 20 years of Silicon Valley IC and software design experience, as a former project manager and designer at VLSI Technology, Inc., Hitachi Semiconductor America, and Virtual Silicon Technology. Dr. May also participated as a member of a working group and balloter on VITAL, Verilog, and Analog Extensions of VHDL toward IEEE standard.

About ITU

ITU pioneers an industry-focused educational model to deliver education globally. ITU's pedagogy cultivates innovative thinking, ethical leadership, and entrepreneurial spirit through practical, industry-relevant curriculum reflecting Silicon Valley's culture. ITU closes the employment skills gap and empowers students to lead successful, enriching lives as meaningful contributors to the global community.

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