

Online M.S. in Electrical Engineering Program



Take Your Engineering Career to the Next Level

With expert faculty, a robust network of industry partners, and a state-of-the-art curriculum, SDSU's Electrical Engineering program will help you take on high-level leadership positions in the field of electrical engineering. Our self-paced online courses are led by expert instructors from SDSU's renowned College of Engineering and accessible from anywhere. You'll focus on topics that are essential to your success in the field, including:

- Communication Systems
- Digital Signal Processing
- Electromagnetic Systems
- VLSI Systems
- Power Systems
- Renewable Energy
- Computer Networks
- Coding Theory

You'll also be able to customize your master's degree by studying one of two specializations: Energy Systems and Power and Communications and Networks.

Estimated Cost

\$26,070 + \$21/unit for the Technology Services Fee, \$21/unit for Student Success Fee, details available on our website.

Min. Completion Time

2 Years

Course Format

100% Online, Self-Paced

Program Highlights

- Self-paced online courses
- Accessible from anywhere in the world
- Virtual office hours with instructors available for all students
- Many potential career paths in commercial, industrial, military, and scientific sectors
- Forward-thinking curriculum designed with the help of SDSU's College of Engineering and local industry partners, including SDG&E and Naval Information Warfare Systems Command (NAVWAR)
- Culminating Capstone Project presented to a panel of faculty members
- Earn the same degree as on-campus students, a Master of Science in Electrical Engineering from San Diego State University

How to Apply

To apply, you must hold a bachelor's degree in either electrical or computer Engineering from an ABET accredited engineering program. You must also hold a minimum GPA of 2.85 in the last 60 semester (90 quarter) units of technical course work.

International applicants must hold a bachelor's degree in electrical, electronics, instrumentation, or computer engineering from a recognized engineering program. You must have an equivalent GPA of 3.0 or higher in all technical course work, and you must demonstrate English proficiency through a TOEFL or an IELTS exam.

Labor Analysis – M.S. in Electrical Engineering – Nationwide

Job Postings Last 12 months	Projected Growth Over 10 years	Avg. Salary Range
73,123	+20.44%	\$69,000–\$108,000

Source: BLS & Burning Glass Technologies, 2020.

To learn more, please visit neverstoplearning.net/mselectricalengineering, call (619) 594-7700, or email globalcampus@sdsu.edu.

Online M.S. in Electrical Engineering Program

To earn your M.S. in Electrical Engineering from SDSU, students must complete nine (9) core course units and twenty-one (21) specialization course units.

Core Courses (9 Units)

EE 600 **Seminar — Machine Learning** (3 Units)

EE 602 **Stochastic Signals and Systems** (3 Units)

EE 798 **Special Study** (3 Units)



Specialization Courses (21 Units)

Energy Systems and Power Specialization

EE 601 **Linear System Theory and Design** (3 Units)

EE 581 **Power System Dynamics** (3 Units)

EE 584 **Power Electronics** (3 Units)

EE 596 **Renewable Energy Systems** (3 Units)

EE 684 **Advanced Power Electronics** (3 Units)

EE 658 **Advanced Digital Signal Processing** (3 Units)

EE 685 **Micro-Electro-Mechanical Systems (MEMS) Design and Applications** (3 Units)

Or

Communications and Networks Specialization

COMPE 560 **Computer Networks** (3 Units)

EE 660 **High Speed Networks** (3 Units)

EE 558 **Digital Communications** (3 Units)

EE 650 **Modern Communication Theory** (3 Units)

EE 652 **Information Theory** (3 Units)

EE 653 **Coding Theory** (3 Units)

EE 662 **Wireless Sensor Networks** (3 Units)

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