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 online courses are led by expert instructors from SDSU’s renowned College of Engineering. 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.

Program Highlights

- 100% online
- Two years
- 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 SPAWAR
- 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.

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

Online

For more information on the M.S. in Electrical Engineering Program, please visit neverstoplearning.net/mselectricalengineering or call (619) 594-1188.
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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