

ELECTRONICS AND ELECTRICAL TECHNOLOGY

ASSOCIATE DEGREE & CERTIFICATE PROGRAMS

2021-2022 CATALOG



DESCRIPTION

Cuesta College is an approved training provider as a general electrician certification training program. Students enrolled in an approved course may register with the Division of Apprenticeship Standards to be eligible to work as an electrician trainee and continue their employment if 150 classroom hours each year are completed until qualified for the certification exam. Students who complete all the mandatory courses are eligible to sit for the certification exam administered by the state of California. Passage of this exam in combination of specific work experience will complete the state electrician certification process.

There is additional paperwork required for the State Electrician Trainee Program. Please contact the Engineering Technology Department for more information at (805) 546-3264.

ASSOCIATE DEGREE AND CERTIFICATE PROGRAMS

An Associate Degree, depending on the focus of study, is designed to prepare students for transfer into upper division course work in a bachelor's degree program, or, to prepare students to enter the workforce in a particular vocational field. To qualify for an Associate's Degree, a student must: (1) complete each major-specific course required for the degree with at least a "C" grade or better, (2) complete all Cuesta College general education, graduation and residency requirements, and (3) achieve an overall grade point average of 2.0 for all courses attempted (major, general education, elective).

A Certificate Program is designed for students who desire specific training to meet an immediate occupational or personal goal, or for promotion or lateral transfer within their existing field of employment. To qualify for a Certificate of Achievement or a Certificate of Specialization, a student must 1) complete all courses required for the Certificate with an overall grade point average of 2.0.

DEGREES, CERTIFICATES & AWARDS

- Associate in Science (A.S.)
- Certificate of Achievement (C.A.)
- Certificate of Specialization (C.S.)

CAREER OPPORTUNITIES

- Commercial Electrical Installer
- Electrical Engineer
- Electrical Installer
- Electrical Maintenance Technician
- Electrician
- Environmental Engineer
- Environmental Scientist
- Industrial Maintenance Electrician
- Solar Engineer

CONTACT

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ASSOCIATE DEGREE PROGRAM**Electrical Technology** — Associate in Science**Required Courses (14 credits)**

EET 213	Electronics Fundamentals.	6
EET 224	Industrial Electronics.	4
EET 267	Power Systems And Rotating Electrical Machinery.	4

Choose one of the following tracks :**Electrical Technology Track (17 credits)**

CTCH 163	Construction Management.	3
EET 169	Residential Wiring	3
EET 181	National Electrical Code	3
EET 183	Commercial And Industrial Wiring	4
EET 228	PLC Automation And Solar Monitoring.	4

Nuclear Maintenance Track (22 credits)

EET 227	Fluid And Pneumatic Technology	4
EET 257	Computer Instrumentation And Control	4
EET 270	Nuclear Power Processes For Technicians.	3
EET 271	Nuclear Power Fundamentals	3
EET 272	Nuclear Systems Maintenance I.	4
EET 273	Nuclear Systems Maintenance II	4

Total Credits: **31-36**[Click Here For Program Student Learning Outcomes](#)**CERTIFICATE PROGRAMS****Electronics and State Electrician** — Certificate of Achievement**Required Courses (40 credits)**

CTCH 163	Construction Management.	3
EET 169	Residential Wiring	3
EET 181	National Electrical Code	3
EET 183	Commercial And Industrial Wiring	4
EET 213	Electronics Fundamentals.	6
EET 224	Industrial Electronics.	4
EET 228	PLC Automation And Solar Monitoring.	4
EET 267	Power Systems And Rotating Electrical Machinery.	4
EET 119	State Electrician Trainee Topics.	4
MATH 127.	Intermediate Algebra	5

Total Credits: **40**[Click Here For Program Student Learning Outcomes](#)**TRANSFER PREPARATION**

Courses that fulfill major requirements for an associate degree may differ from those needed to prepare to transfer. Students who plan to transfer to a four-year college or university should schedule an appointment with a Cuesta College counselor to develop a student education plan (SEP) before beginning their program.

TRANSFER RESOURCES:

CSU and UC Articulation Agreements and Majors Search Engine:

www.ASSIST.org

CSU System Information:

www2.calstate.edu

FINANCIAL AID

Paying for the cost of a college education requires a partnership among parents, students and the college. As the cost of higher education continues to rise we want you to know that Cuesta College offers a full array of financial aid programs—grants, work study, scholarships, federal loan programs, and fee waivers. These programs are available to both full-and part-time students who are seeking a degree or certificate. For those who qualify, financial aid is available to help with tuition, fees, books and supplies, food, housing, transportation, and childcare. Please log onto our website for additional information:

www.cuesta.edu/student/student-services/financial-aid

Power and Instrumentation Certificate — Certificate of Achievement**Required Courses (16 credits)**

EET 227	Fluid And Pneumatic Technology	4
EET 228	PLC Automation And Solar Monitoring.	4
EET 257	Computer Instrumentation And Control	4
EET 267	Power Systems And Rotating Electrical Machinery.	4
Total Credits:		16

[Click Here For Program Student Learning Outcomes](#)

Nuclear Energy Systems — Certificate of Achievement**Required Courses (16 credits)**

EET 213	Electronics Fundamentals.	6
EET 267	Power Systems And Rotating Electrical Machinery.	4
EET 270	Nuclear Power Processes For Technicians.	3
EET 271	Nuclear Power Fundamentals	3
Total Credits:		16

[Click Here For Program Student Learning Outcomes](#)



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