ELECTRONICS AND ELECTRICAL TECHNOLOGY

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

Gainful Employment: Federal regulations require institutions to provide students with Gainful Employment information for specific certificate programs offered at Cuesta College. Information for each certificate program can be found by following this link: www.cuesta.edu/student/studentservices/studentaid/gainfulemployment

CONTACT
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Division Assistant: Tiffanie Kerr
Office: Bldg 4300, Rm 4301
Phone: (805) 546-3264
Fax: (805) 546-3963
Email: tiffanie_kerr@cuesta.edu
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: ............................................. 38

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/studentservices/finaid
### Nuclear Energy Systems — Certificate of Specialization

**Required Courses (16 credits)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EET 213</td>
<td>Electronics Fundamentals</td>
<td>6</td>
</tr>
<tr>
<td>EET 267</td>
<td>Power Systems And Rotating Electrical Machinery</td>
<td>4</td>
</tr>
<tr>
<td>EET 270</td>
<td>Nuclear Power Processes For Technicians</td>
<td>3</td>
</tr>
<tr>
<td>EET 271</td>
<td>Nuclear Power Fundamentals</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Credits** ........................................ 16

Click Here for Program Student Learning Outcomes

### Power and Instrumentation Certificate — Certificate of Specialization

**Required Courses (16 credits)**

<table>
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<tbody>
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**Total Credits** ........................................ 16

Click Here for Program Student Learning Outcomes