

# BIOMEDICAL ELECTRONICS - CERTIFICATE OF COMPLETION

## Doña Ana Community College 2022-2023 Catalog (48 credits)

NOTE: Students must earn a final grade of C- or better in all required ELT courses/Technical Requirements and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 48 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits
<b>Prerequisites</b>		
ELT 110	Electronics I	4
ELT 120	Mathematics for Electronics	4
ELT 205	Semiconductor Devices	4
ELT 260	Instrumentation Control and Signal Conditioning	4
<b>Related Requirements</b>		
AHS 120	Medical Terminology	3
AHS 202	Legal and Ethical Issues in Health Care	3
OETS 102	Career Readiness Certification Preparation	1
BIOL 1130G	Introductory Anatomy & Physiology (non-majors)	4
<b>Technical Requirements</b>		
ELT 135	Electronics II	4
ELT 155	Electronics CAD and PCB Design	3
ELT 160	Digital Electronics I	4
ELT 175	Soldering Practices	3
ELT 225	Computer Applications for Technicians	3
ELT 270	Biomedical Equipment Instrumentation	4
<b>Total Credits</b>		<b>48</b>

### (48 credits)

#### A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

NOTE: Students must earn a final grade of C- or better in all required ELT courses/Technical Requirements and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University certificate requirements to total at least 48 credits. Developmental coursework will not count towards the

degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

<b>Semester 1</b>		<b>Credits</b>
ELT 110	Electronics I	4
ELT 120	Mathematics for Electronics	4
ELT 155	Electronics CAD and PCB Design	3
ELT 175	Soldering Practices	3
ELT 225	Computer Applications for Technicians	3
<b>Credits</b>		<b>17</b>
<b>Semester 2</b>		
ELT 135	Electronics II	4
ELT 160	Digital Electronics I	4
OETS 102	Career Readiness Certification Preparation	1
<b>Credits</b>		<b>9</b>
<b>Semester 3</b>		
AHS 120	Medical Terminology	3
AHS 202	Legal and Ethical Issues in Health Care	3
BIOL 1130G	Introductory Anatomy & Physiology (non-majors)	4
ELT 205	Semiconductor Devices	4
<b>Credits</b>		<b>14</b>
<b>Semester 4</b>		
ELT 260	Instrumentation Control and Signal Conditioning	4
ELT 270	Biomedical Equipment Instrumentation	4
<b>Credits</b>		<b>8</b>
<b>Total Credits</b>		<b>48</b>