

# ELECTRONICS TECHNOLOGY (BIOMEDICAL ELECTRONICS) - ASSOCIATE OF APPLIED SCIENCE

(67 or 68 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 degree requirements, which include: General Education requirements and elective credits to total at least 68 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.

Semester 1	Credits
FALL	
Choose one from the following:	4
MATH 1250G Trigonometry & Pre-Calculus <sup>2</sup>	
ELT 120 Mathematics for Electronics <sup>1,2</sup>	
ELT 110 Electronics I	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>

Semester 2	Credits
SPRING	
Area I: Communications - English Composition Level 1	4
ENGL 1110G Composition I	
Area VI: Creative and Fine Arts - Choose one from the following (or any other approved Area VI course in the NMSU/DACC Catalog):	3
ARTH 1115G Orientation in Art	
ARTH 2110G History of Art I	
ARTH 2120G History of Art II	
ARTS 1145G Visual Concepts	
DANC 1110G Dance Appreciation	
MUSC 1110G Music Appreciation: Jazz	
MUSC 1130G Music Appreciation: Western Music	
ELT 135 Electronics II	4
ELT 160 Digital Electronics I	4
Choose one from the following:	1
ELT 265 Special Topics	
OETS 102 Career Readiness Certification Preparation	

CIST 1111	Introductions (Foundations) of Information Systems	1
<b>Credits</b>		<b>17</b>

## Semester 3

SUMMER		
Area V: Humanities - Choose one from the following (or any other approved Area V course in the NMSU/DACC Catalog):		3
ENGL 1410G	Introduction to Literature	
ENGL 2310G	Introduction to Creative Writing	
ENGL 2520G	Film as Literature	
ENGL 2650G	World Literature I	
HIST 1110G	United States History I	
HIST 1120G	United States History II	
HIST 1130G	World History I	
HIST 1140G	World History II	
HIST 1150G	Western Civilization I	
HIST 1160G	Western Civilization II	
PHIL 1115G	Introduction to Philosophy	
PHIL 1120G	Logic, Reasoning, & Critical Thinking	
PHIL 1140G	Philosophy and World Religions	
PHIL 1145G	Philosophy, Law, and Ethics	
PHIL 2110G	Introduction to Ethics	
PHIL 2230G	Philosophical Thought	
<b>Credits</b>		<b>3</b>

## Semester 4

FALL		
General Education Elective - Area I: Communications - Choose one from the following:		3
ENGL 2210G	Professional and Technical Communication	
COMM 1115G	Introduction to Communication	
COMM 1130G	Public Speaking	
HLSC 1510	Medical Terminology	3
HLSC 1540	Legal and Ethical Issues in Health Care	3
BIOL 1130G or HLSC 1520	Introductory Anatomy & Physiology (non-majors) or Anatomy and Physiology for Health Careers	4
ELT 205	Semiconductor Devices	4
<b>Credits</b>		<b>17</b>

## Semester 5

SPRING		
Area IV: Social/Behavioral Sciences - Choose one from the following:		3
PSYC 1110G	Introduction to Psychology	
SOCI 1110G	Introduction to Sociology	
ELT 240	Introduction to Photonics	4
ELT 260	Instrumentation Control and Signal Conditioning	4
ELT 270	Biomedical Equipment Instrumentation	4
<b>Credits</b>		<b>15</b>
<b>Total Credits</b>		<b>69</b>

<sup>1</sup> While ELT 120 Mathematics for Electronics meets program requirements, it does not meet the NM General Education Area II: Mathematics requirements.

<sup>2</sup> MATH 1250G Trigonometry & Pre-Calculus is recommended for students pursuing Transfer Track.

ELT 120 Mathematics for Electronics is recommended for students pursuing Career Track.