

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

**(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                             |           |
| OECS 101   | Computer Basics                            |           |
| OETS 102   | Career Readiness Certification Preparation |           |
| <b>Credits</b>   |  | <b>16</b> |

## Semester 3

| SUMMER   |                                       | Credits  |
|--|---------------------------------------|----------|
| 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               |          |
| HIST 2245G   | Islamic Civilizations to 1800         |          |
| HIST 2246G   | Islamic Civilizations since 1800      |          |
| PHIL 1115G   | Introduction to Philosophy            |          |
| PHIL 1120G   | Logic, Reasoning, & Critical Thinking |          |
| PHIL 1140G   | Quest for God                         |          |
| PHIL 1145G   | Philosophy, Law, and Ethics           |          |
| PHIL 2110G   | Introduction to Ethics                |          |
| PHIL 2230G   | Philosophical Thought                 |          |
| <b>Credits</b>   |                                       | <b>3</b> |

## Semester 4

| FALL   |  | Credits   |
|--|--|-----------|
| General Education Elective - Area I: Communications - Choose one from the following: |  | 3         |
| ENGL 2210G   | Professional & Technical Communication         |           |
| COMM 1115G   | Introduction to Communication                  |           |
| COMM 1130G   | Public Speaking                                |           |
| 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>17</b> |

## Semester 5

| SPRING   |   | Credits   |
|--|---|-----------|
| 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>68</b> |

1

While ELT 120 meets program requirements, it does not meet the NM General Education Area II: Mathematics requirements.

2

MATH 1250G is recommended for students pursuing Transfer Track. ELT 120 is recommended for students pursuing Career Track.