

# Electrical & Computer Engineering Technology (ECET) AAS eMAP

## **START HERE Program of Study: AAS Degree**

### 1<sup>st</sup> set of suggested courses

- ENGT 1000 - Introduction to Engineering Technology- 3 credits
- MATH 1111- College Algebra (pre-req of ECET 1101)- 3 credits
- ENGL 1101-Composite & Rhetoric-3 credits
- ECET1191-Computer Programming Fundamentals– 3 credits

### 2<sup>nd</sup> set of suggested courses

- ECET 1102 – Circuit Analysis I (Spring & Summer Only)- 3 credits
- ECET 1102L – Circuit Analysis I Lab (Pre-req of ECET 2101)- 1 credit
- ECET 1111 – Digital Systems I (Spring & Summer Only) )- 3 credits
- ECET 1111L – Digital Systems I Lab- 1 credit
- MATH 1113 – Pre-Calculus (Pre-req of PHSY 1111) -3 credits
- Social Science Course F22- 3 credits

### ***Computer Engineering Technology (CET) Basics TCC***

### 3<sup>rd</sup> set of suggested courses

- ECET 2102 – Circuit Analysis II (Fall & Summer Only)- 3 credits
- ECET 2102L –Circuit Analysis II Lab - 1 credit
- ECET 2121– Electronic Circuits I (Fall Only)- 3 credits
- ECET 2121L –Electronic Circuits II Lab - 1 credit
- PHYS 1111-Physics I- 3 credits
- PHYS 1111L-Physics I Lab- 1 credit

### 4<sup>th</sup> set of suggested courses

#### ***Choose a specialization: Electronics or Biomedical or Mechatronics***

#### ***Electronics Specialization***

- ECET 2111 – Digital Systems II (Pre-req of ENGT 2300) - 3 credits
- ECET 2111L – Digital Systems II Lab - 1 credit
- Humanities Course - 3 credits
- ECET 2221 – Electronic Circuits II (Electronics Specialization) (Spring Only) - 3 credits

- ECET 2221L – Electronic Circuits II Lab- 1 credit
- Technical Elective (Electronics Specialization)-4/3 credit

### ***Biomedical Specialization***

- Humanities Course - 3 credits
- BMET 1231 – Medical Equipment Function and Operation I (*Biomed Specialization*) (Fall only)- 4 credits
- ALHS 1011 (Biomed Specialization)- 5 credits

### ***Mechatronics Specialization***

- Humanities Course - 3 credits
- ECET 2200 Mechatronics I (*Mechatronics Specialization*) (Fall only)- 4 credits
- ECET 2221 – Electronic Circuits II (Mechatronics Specialization) (Spring Only) - 3 credits
- ECET 2221L – Electronic Circuits II Lab- 1 credit

**\*\* Petition for an ECET Associate of Applied Science Degree \*\***

5<sup>th</sup> set of suggested courses

### ***Electronics Specialization***

- CIST 1401 – Networking Fundamentals-4 credits
- Technical Elective (Electronics Specialization) -4/3 credits
- Technical Elective (*Electronics Specialization*) -4/3 credits
- ENGT 2300-Capstone Project (Fall & Spring only)- 1credit

### ***Biomedical Specialization***

- BMET 2242 - Medical Equipment Function and Operation II (*Biomed Specialization*) (Spring Only)-4 credits
- BMET 2343 – Biomedical Internship (*Biomed Specialization*) (Fall & Spring Only)- 3 credits
- ENGT 2300 – Capstone Project (Fall & Spring Only) – 1 credit

### ***Mechatronics Specialization***

- ECET 2201 – Mechatronics II (*Mechatronics Specialization*) (Spring Only)-4 credits
- ENGT 2300-Capstone Project (Fall & Spring only)- 1credit

✓ ***Associate of Applied Science degree in Electrical & Computer Engineering Technology***

**Electronics Specialization Elective Courses**

Choose three classes of the following:

- AUMF 1150 – Introduction to Robotics-3 credits
- BMET 1231 – Medical Equipment I (Pre-req ECET 2101)- 4 credits
- CHEM 1211/1211L – Chemistry I (Pre-req MATH 1111; Co-req ENGL 1101) - 4 credits
- CIST 1510 – Web Development-3 credits
- DFTG 2010 – Engineering Graphics- 4 credits
- DFTG 2020 – Visualization Graphics (Solid Works – 3D) - 3 credits
- ELTR 1180 – Electrical Controls- 4 credits
- ENGT 2500 – Engineering Internship-3 credits
- IDSY 1110 – Motor Controls (Pre-req ECET 2101) - 4 credits
- IDSY 1120 – Basic Industrial PLCs (Pre-req IDSY 1110) - 4 credits
- 1131 – Math Calculus I (Pre-req MATH 1113) - 4 credits
- Math 1132 – Calculus II (Pre-req MATH 1131) - 4 credits
- PHYS 1112/1112L Physics II - 4 credits

**Social/Behavioral Science Offerings**

- ECON 110-Principles of Economics
- ECON 2105-Macroeconomics
- ECON 2106-Microeconomics
- HIST 1111-World History I
- HIST 1112-World History II
- HIST 2111-US History I
- HIST 2112-US History II
- POLS 1101-American Government;
- POLS 2401-Global Issues;
- PSYC 1101-Introductory Psychology
- SOCI 1101-Introduction to Sociology
- SOCI 2600-Introduction to Social Problems

**Humanities/Fine Arts Offerings**

- ARTS 1101-Art Appreciation
- HUMN 1101-Introduction to Humanities
- MUSC 1101-Music Appreciation
- THEA 1101-Theater Appreciation

***\*This map along with meeting with your program advisor will help you graduate from Chattahoochee Technical College as quickly as possible.***

**Program Advisors:**

Dr. Tete Tevi - [tete.tevi@chattahoocheetech.edu](mailto:tete.tevi@chattahoocheetech.edu) - Office North Metro Campus, Building B, Room 200U

Shobana Bathey Kumaran -[shobana.kumaran@chattahoocheetech.edu](mailto:shobana.kumaran@chattahoocheetech.edu) - Office Marietta Campus, Building A, Room B168