

# Mechatronics Technology

## Associate of Applied Science Degree

MT23

### Curriculum

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<b>General Education Core</b>	<b>CR</b>
<p><b>Area I: Language Arts/Communication</b></p> <p>ENGL 1101 Composition and Rhetoric (3)</p>	CR
<p><b>Area II: Social/Behavioral Sciences <i>(Choose ONE)</i></b></p> <p>ECON 1101 Principles of Economics (3)  ECON 2105 Principles of Macroeconomics (3)  ECON 2106 Principles of Microeconomics (3)  HIST 1111 World History I (3)  HIST 1112 World History II (3)  HIST 2111 American History I (3)  HIST 2112 American History II (3)  POLS 1101 American Government (3)  PSYC 1101 Introduction to Psychology (3)  SOC1 1101 Introduction to Sociology (3)</p>	CR
<p><b>Area III: Natural Sciences / Mathematics <i>(Choose ONE)</i></b></p> <p>MATH 1103 Quantitative Skill and Reasoning (3)  MATH 1111 College Algebra (3)</p>	CR
<p><b>Area IV: Humanities/Fine Arts <i>(Choose ONE)</i></b></p> <p>ARTS 1101 Art Appreciation (3)  ENGL 2130 American Literature (3)  ENGL 2310 English Literature from the Beginnings to 1700 (3)  HUMN 1101 Introduction to Humanities (3)  MUSC 1101 Music Appreciation (3)  RELG 1101 Introduction to World Religions (3)</p>	CR
<p><b>Elective: General Education <i>(Choose ONE)</i></b></p> <p>XXXX General Electives Area I - IV (3)</p>	CR
<b>Occupational Courses</b>	
<p><b>Required Courses:</b></p> <p><u>SELECT ONE</u>  IDFC 1013 Solid State Devices I (3) OR  ECET 1111 Digital Systems I (3) + ECET 1111L Digital Systems I Lab (1) <b>OR</b>  ECET 2111 Digital Systems II (3) + ECET 2111L Digital Systems II Lab (1)</p> <p><u>SELECT ONE</u>  IDSY 1101 DC Circuit Analysis (3) <b>OR</b>  IDFC 1011 Direct Current I (3) <b>OR</b>  ELTR 1010 Direct Current Fundamentals (3) <b>OR</b>  ECET 1102 Circuit Analysis I (3) + ECET 1102L Circuit Analysis I Lab (1)</p> <p><u>SELECT ONE</u>  IDSY 1105 AC Circuit Analysis (3) <b>OR</b>  IDFC 1012 Alternating Current I (3) <b>OR</b></p>	CR

ELTR 1020 Alternating Current Fundamentals (3) **OR**

ECET 2102 Circuit Analysis II (3) + ECET 2102L Circuit Analysis II Lab (1)

IDSY 1110 Industrial Motor Controls I (4)

IDSY 1120 Basic Industrial PLCs (4)

IDSY 1190 Fluid Power Systems (4)

IDSY 1210 Industrial Motor Controls II (4)

IDSY 1220 Intermediate Industrial PLCs (4)

IDSY 1230 Industrial Instrumentation (4)

MCTX 2250 Mechatronics Capstone (3)

AUMF 1150 Introduction to Robotics (3)

**Occupational Electives:** *(Choose 6 Hours)*

**6**

XXXX IDSY, AIRC, MCHT, WELD, ELCR, AUMF, BUAS

**Total Credit Hour (minimum):**

**60**