

Electrical Engineering Technology Major
Course Requirements
66-72 Program Credits

Support Group (11-14 cr)

MATH 161 Technical Calculus I (3 cr) or MATH 171 Calculus I (5 cr)
MATH 162 Technical Calculus II (3 cr) or MATH 172 Calculus II (4 cr)
PHYS 171 General Physics I (5 cr) or PHYS 191 General Physics I (5 cr)

Fundamentals Group (28-29 cr)

EGR 105 Engineering Fundamentals (3 cr)
EGR 110 Engineering Graphics (2-3 cr)
EGR 242 Programming for Engineers (3 cr)
EGRT 130 Basic Electrical Circuits I (4 cr)
EGRT 131 Basic Electrical Circuits II (4 cr)
EGRT 232 Semiconductor Devices (3 cr)
EGRT 240 Logic & Control Devices (3 cr)
EGRT 246 Electric Power Systems (3 cr)
EGRT 260 Automation Controllers (3 cr)

Advanced Study Group (24-26 cr)

EGRT 320 Motors & Drives (4 cr)
EGR 325 Signals & Systems (3 cr)
EGRT 333 Linear Circuits (3 cr)
EGRT 342 Measure, Control & Data Acq (3 cr)
EGRT 350 Data Comm & Protocols (3 cr)
EGRT 360 Project Management (3 cr)
EGRT 390 Mechatronics (4 cr)
EGR 400 Internship (1-3 cr) or EGR 410 Capstone Project (3 cr)

Required Elective (3 cr) – choose one of the following

EGR 282 Engineering Economics (3 cr)
EGRT 348 Electromagnetic Fields & Applications (3 cr)
EGRT 352 Communication Systems (3 cr)
EGRT 357 Internet of Things (3 cr)
EGRT 365 Special Topics (3 cr)

Other Electives (no required credits)

EGRT 284 Professional Skills in Engineering (1 cr)
EGRT 446 Independent Study (1-3 cr)