

# ENGINEERING WITH EMPHASIS IN ELECTRICAL ENGINEERING APPLICATIONS (AS DEGREE S0835)

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## Natural Sciences Division

### Degree S0835

The Engineering with Emphasis in Electrical Engineering Applications AS degree is designed to incorporate the engineering, science, and communication skills needed to prepare students for multiple entry-level positions in the electrical engineering field. This degree may facilitate transfer to 4-year institutions.

## Required Courses

| Course Prefix      | Course Name  | Units     |
|--------------------|--|-----------|
| Required Core      |  |           |
| ENGR 1             | Introduction to Engineering  | 2         |
| ENGR 6             | Introduction to Engineering Programming Concepts and Methodologies | 4         |
| ENGR 16            | Introduction to Digital Electronics with FPGA Programming          | 4         |
| ENGR 44            | Electrical Engineering   | 4         |
| ENGR 285           | Differential Equations and Linear Algebra for Engineers            | 4         |
| MATH 180           | Calculus and Analytic Geometry I                                   | 4         |
| MATH 181           | Calculus and Analytic Geometry II                                  | 4         |
| MATH 280           | Calculus and Analytic Geometry III                                 | 5         |
| PHYS 4A            | Engineering Physics  | 5         |
| PHYS 4B            | Engineering Physics  | 5         |
| <b>Total Units</b> |  | <b>41</b> |

Please see the Mt. San Antonio College Engineering, Engineering Technology and Surveying Program Website (<https://www.mtsac.edu/engineering/>) for updated information on program courses, transfer help, extracurricular activities, faculty contact information and more.

## Program Learning Outcomes

Review Student Learning Outcomes (SLOs) (<http://www.mtsac.edu/instruction/outcomes/sloinfo.html>) for this program.