



# DENMARK TECHNICAL COLLEGE



## ASSOCIATE DEGREE: APPLIED SCIENCE IN ELECTROMECHANICAL ENGINEERING TECHNOLOGY (69 SHC)

GENERAL EDUCATION: MINIMUM (25 SHC)

Student must be a high School graduate.

Student Name: \_\_\_\_\_

PLACEMENT RDG \_\_\_\_\_ MAT \_\_\_\_\_ ENG \_\_\_\_\_ MAT \_\_\_\_\_

*If the required placement test scores are not met for this major, the student is required to take the course as indicated.*

Student ID: \_\_\_\_\_

COURSE LECT LAB SHC SEMESTER TAKEN GRADE

Semester: \_\_\_\_\_

RDG \_\_\_\_\_  
MAT \_\_\_\_\_  
ENG \_\_\_\_\_

### HUMANITIES/FINE ARTS

9 SHC

1<sup>ST</sup> SEM

(SHC)

TERM

GRADE

ENG 101 ENGLISH COMPOSITION I (3-0-3)\*

COL 103

SPC 205 PUBLIC SPEAKING (3-0-3)\*

ENG 101

HIS 101 WESTERN CIVILIZATION TO 1689(3-0-3)

EET 113\*\*

HIS 102 WESTERN CIVILIZATION: POST 1689(3-0-3)

EGR 194\*\*

HIS 115 AFRICAN-AMERICAN HISTORY (3-0-3)

MAT 110\*\*

HIS 201 AMERICAN HISTORY: DISCOVERY TO 1877 (3-0-3)

CPT 101

HIS 202 AMERICAN HISTORY: 1877 TO PRESENT (3-0-3)

\*REQUIRED

2<sup>ND</sup> SEM

(SHC)

TERM

GRADE

### NATURAL SCIENCES/MATHEMATICS (NSM)

13 SHC

MAT 110 COLLEGE ALGEBRA (3-0-3)\*\*

SPC 205

MAT 111 COLLEGE TRIGONOMETRY (3-0-3)

EET 145

MAT 130 ELEMENTARY CALCULUS (3-0-3)

EET 114

PHY 201 PHYSICS I (3-0-3)

MAT 111

MET 227\*\*

### SOCIAL/BEHAVIORAL SCIENCES (SBS)

3 SHC

3<sup>RD</sup> SEM

(SHC)

TERM

GRADE

ECO 210 MACROECONOMICS (3-0-3)

EGT 151

ECO 211 MICROECONOMICS (3-0-3)

EET 227

PSC 201 AMERICAN GOVERNMENT (3-0-3)

MET 224

PHY 201

MAT 130

### REQUIRED CORE SUBJECT AREAS

15 SHC

EET 113 ELECTRICAL CIRCUITS I (3-3-4)\*\*

4<sup>TH</sup> SEM

(SHC)

TERM

GRADE

EET 114 ELECTRICAL CIRCUITS (3-3-4)

EET 233

EET 145 DIGITAL CIRCUITS (3-3-4)

MET 231

CPT 101 INTRODUCTION TO COMPUTERS (3-0-3)

MET 214

SBS REQ.

### OTHER HOURS FOR GRADUATION

29 SHC

HUM REQ.

COL 103 COLLEGE SKILLS (3-0-3)

EGR 194 STATICS AND STRENGTH OF MATERIAL (3-3-4)\*\*

EGT 151 INTRODUCTION TO CAD (2-3-3)

MET 214 FLUID MECHANICS (3-0-3)

MET 224 HYDRAULICS AND PNEUMATICS (2-3-3)

MET 227 INSTRUMENTATION PRINCIPLES (1-3-2)\*\*

EET 223 CONTROL SYSTEMS (3-3-4)

EET 227 ELECTRICAL MACHINERY (2-3-3)

MET 231 MACHINE DESIGN (3-3-4)

### **THIS COURSE IS A PREREQUISITE FOR HIGHER LEVEL EET COURSES:**

\*MAT 110 MUST BE TAKEN PRIOR TO 200 LEVEL COURSES IN THE MAJOR. \*\*EET 113 MUST BE TAKEN PRIOR TO EET 114; EET 145; EET 227; AND MET 227 IN THE MAJOR. \*\*MET 227 MUST BE TAKEN PRIOR TO EET 233 IN THE MAJOR. \*\*EGR 194 MUST BE TAKEN PRIOR TO MET 231 IN THE MAJOR.

**TOTAL 69 SHC**

## Electromechanical Engineering

**Program Description:** The Electromechanical Engineering Program trains students in basic circuit analysis, electronic circuits, and applications of engineering principles in the manufacturing, installation, testing, and testing and repair of electromechanical systems. Graduates of this program can explore career opportunities in manufacturing, general engineering technology, energy conversion, energy utilization and sales fields