



New Program Report

Date Submitted:

04/29/2020

Institution

Ozarks Technical Community College

Site Information

Implementation Date:

8/24/2020 12:00:00 AM

Added Site(s):

Selected Site(s):

Ozarks Technical Community College, 1001 E. Chestnut Expressway, Springfield, MO, 65802

CIP Information

CIP Code:

150399

CIP Description:

Any instructional program in electrical and electronic engineering-related technologies not listed above.

CIP Program Title:

Electrical and Electronic Engineering Technologies/Technicians, Other

Institution Program Title:

Electrical Technician

Degree Level/Type

Degree Level:

Associate Degree

Degree Type:

Associate in Applied Science

Options Added:

Collaborative Program:

N

Mode of Delivery

Current Mode of Delivery

Classroom

Student Preparation

Special Admissions Procedure or Student Qualifications required:

No special preparation will be required.

Specific Population Characteristics to be served:

n/a

Faculty Characteristics



DEPARTMENT OF
HIGHER EDUCATION &
WORKFORCE DEVELOPMENT

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Special Requirements for Assignment of Teaching for this Degree/Certificate:
Associates degree, industry recognized credential, or equivalent in the field of instruction.

Estimate Percentage of Credit Hours that will be assigned to full time faculty:
Estimated percentage of credit hours that will be assigned to full time faculty is 60%.

Expectations for professional activities, special student contact, teaching/learning innovation:
Faculty members are required to document at least 20 hours of professional development on an annual basis. Faculty members are required to be faculty advisors and will advise students who have designated this as their degree option.

Student Enrollment Projections Year One-Five

Year 1	Full Time: 11	Part Time: 8	
Year 2	Full Time: 15	Part Time: 11	
Year 3	Full Time: 18	Part Time: 12	Number of Graduates: 18
Year 4	Full Time: 20	Part Time: 14	
Year 5	Full Time: 20	Part Time: 15	Number of Graduates: 22

Percentage Statement:

95.00

Program Accreditation

Institutional Plans for Accreditation:
Plans are to pursue accreditation from Association of Technology, Management, and Applied Engineering (ATMAE).

Program Structure

Total Credits:

63

Residency Requirements:

15 credit hours

General Education Total Credits:

22

Major Requirements Total Credits:

41

Course(s) Added

COURSE NUMBER	CREDITS	COURSE TITLE
ELC 115	4	Printreading for Electrical Trades
ELC 100	3	Intro to Electrical Theory and Safety
TEC 285	1	Occupational Seminar
ELC 130	4	Basic Power Gen & Code Req



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IST 130	4	Industrial Electricity I
ELC 120	4	Wiring Method & Power Distribution
ELC 205	4	NEC to Apparatus & Locations
IST 120	3	Industrial Safety
ELC 110	4	Electrical Formulas & Circuitry
ELC 230	3	Preparation for National Electric Certification
ELC 220	4	VFD and PLC Operations and Maintenance

Free Elective Credits:

3

Internship or other Capstone Experience:

N/A

Assurances

I certify that the program is clearly within the institution's CBHE-approved mission. The proposed new program must be consistent with the institutional mission, as well as the principal planning priorities of the public institution, as set forth in the public institution's approved plan or plan update.

I certify that the program will be offered within the proposing institution's main campus, CBHE-approved service region or CBHE-approved off-site location.

I certify that the program will not unnecessarily duplicate an existing program within the geographically applicable area.

I certify that the program will build upon existing programs and faculty expertise.

I certify that the program can be launched with minimal expense and falls within the institution's current operating budget.

I certify that the institution has conducted research on the feasibility of the proposal and it is likely the program will be successful. Institutions' decision to implement a program shall be based upon demand and/or need for the program in terms of meeting present and future needs of the locale, state, and nation based upon societal needs, and/or student needs.

Contact Information

First and Last Name: RENEE
GRAVES

Email: gravesr@otc.edu

Phone: 417-447-8115

Ozarks Technical Community College

2020-2021 Academic Catalog and Student Handbook

Electrical Technician (A.A.S.)

A.A.S. Degree: 63 Hours

Depth of training for entry into the electrical occupation depends on the specific needs of employers. In this program, theory and many hours of practice are combined to lead to the Associate of Applied Science degree or certificate. A broad background allows the student to meet the needs of various graduate employment goals.

Electrical Technician Program Requirements - 41 Credit Hours

- [ELC-100 Intro Elect Theory & Safety](#) Credits: 3
- [ELC-110 Elect Formulas & Circuitry](#) Credits: 4
- [ELC-115 Print Reading for Electrical Trades](#) Credits: 4
- [ELC-120 Wiring Method & Pwr Dist App](#) Credits: 4
- [ELC-130 Basic Power Gen & Code Req](#) Credits: 4
- [ELC-205 NEC to Apparatus & Locations](#) Credits: 4
- [ELC-220 VFD and PLC Operations and Maintenance](#) Credits: 4
- [ELC-230 Preparation for National Electric Certification](#) Credits: 3
- **or**
- [ELC-135 Alt and Renewable Energy](#) Credits: 4
- [IST-120 Industrial Safety](#) Credits: 3
- [IST-130 Industrial Electricity I](#) Credits: 4
- [TEC-285 Occupational Seminar](#) Credits: 1
- Related Elective Credits: 3

Please choose a course numbered 100 or higher.

General Education Requirements - 22 Credit Hours

CORE 42 is a statewide general education course of study intended to ensure that all graduates possess a common core of college-level skills and knowledge. CORE 42 specifies the basic competencies and knowledge areas that all students completing degrees at a Missouri public institution of higher education must complete. CORE 42 is comprised of dozens of courses distributed across five knowledge areas. These courses are designated with a Missouri Transfer (MOTR) course number, which guarantees the one-to-one transfer of these courses among all Missouri public institutions of higher education. Please refer to [MDHE Core Transfer Curriculum](#) for detailed information on CORE 42 courses.

All knowledge areas below, designated with the CORE 42 logo indicate all courses in that area have been evaluated and provided a MOTR number for transfer to all Missouri public institutions of higher education.

Mathematical Sciences - 3 Credit Hours

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- [MTH-110 Intermediate Algebra](#) Credits: 4
 - [MTH-128 Contemporary Mathematics](#) Credits: 3
 - [MTH-128S Cont Mathematics with Support](#) Credits: 4
 - [MTH-130 College Algebra](#) Credits: 3
 - [MTH-130S College Algebra With Support](#) Credits: 4
 - [MTH-131 Trigonometry](#) Credits: 3
 - [MTH-138 Pre-Calculus Mathematics](#) Credits: 5
 - [MTH-140 Analytic Geometry and Calculus I](#) Credits: 5
 - [MTH-141 Analytic Geometry and Calculus II](#) Credits: 5
 - [MTH-210 Statistical Methods](#) Credits: 3
 - [MTH-215 Algebraic Structures](#) Credits: 3
 - [MTH-230 Linear Algebra](#) Credits: 3
 - [MTH-240 Analytic Geometry and Calculus III](#) Credits: 3
 - [MTH-241 Differential Equations](#) Credits: 3
 - [TEC-108 Applied Technical Mathematics](#) Credits: 3

Written Communications - 3 Credit Hours



- [ENG-100 Composition I With Support](#) Credits: 5
- or
- [ENG-101 Composition I](#) Credits: 3

Oral Communication - 3 Credit Hours



- [COM-100 Introduction to Communication](#) Credits: 3
- [COM-105 Public Speaking](#) Credits: 3
- [COM-200 Interpersonal Communication](#) Credits: 3

Natural Sciences - 4 Credit Hours

- [CHM-160 General Chemistry I](#) Credits: 4
- [CHM-161 General Chemistry I Lab](#) Credits: 1
- [PHY-105 Introduction to Physics](#) Credits: 4
- [PHY-110 Introduction to Geology](#) Credits: 4
- [PHY-115 Introduction to Astronomy](#) Credits: 4
- [PHY-120 General Physics I](#) Credits: 4

- [PHY-220 Physics Engrs & Scientists I](#) Credits: 5
- [TES-140 Technical Physics](#) Credits: 4

Social and Behavioral Sciences - 3 Credit Hours



- [HST-120 U.S. History I: to 1865](#) Credits: 3
- [HST-130 U.S. History II: 1865-Present](#) Credits: 3
- [PLS-101 American Government and Politics](#) Credits: 3

Program Requirements - 6 Credit Hours

- [BUS-140 Business Communications](#) Credits: 3
 - [CIS-101 Technology & Digital Literacy](#) Credits: 3
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