



DEPARTMENT OF  
HIGHER EDUCATION &  
WORKFORCE DEVELOPMENT

## New Program Report

**Date Submitted:**

03/12/2024

**Institution**

Ranken Technical College

**Site Information**

**Implementation Date:**

5/13/2024 12:00:00 AM

**Added Site(s):**

**Selected Site(s):**

Ranken Technical College, 4431 Finney Avenue, St. Louis, MO, 63113

Ranken West-Lincoln County Workforce Development Center, 651 John Deere Dr., Troy, MO, 63379

**CIP Information**

**CIP Code:**

150499

**CIP Description:**

Any instructional program in electromechanical instrumentation and maintenance technologies not listed above.

**CIP Program Title:**

Electromechanical and Instrumentation and Maintenance Technologies/Technicians, Other

**Institution Program Title:**

Industrial Automation Technology

**Degree Level/Type**

**Degree Level:**

Associate Degree

**Degree Type:**

Associate of Science

**Options Added:**

Collaborative Program:

N

**Mode of Delivery**

Current Mode of Delivery

Hybrid

**Student Preparation**

Special Admissions Procedure or Student Qualifications required:

N/A

Specific Population Characteristics to be served:

Dual degree option for Electrical Automation Technology students.



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## New Program Report

### Faculty Characteristics

Special Requirements for Assignment of Teaching for this Degree/Certificate:  
N/A

Estimate Percentage of Credit Hours that will be assigned to full time faculty:  
N/A

Expectations for professional activities, special student contact, teaching/learning innovation:  
N/A

### Student Enrollment Projections Year One-Five

<b>Year 1</b>	<b>Full Time: 3</b>	<b>Part Time: 0</b>	
<b>Year 2</b>	<b>Full Time: 3</b>	<b>Part Time: 0</b>	
<b>Year 3</b>	<b>Full Time: 3</b>	<b>Part Time: 0</b>	<b>Number of Graduates: 9</b>
<b>Year 4</b>	<b>Full Time: 3</b>	<b>Part Time: 0</b>	
<b>Year 1</b>	<b>Full Time: 3</b>	<b>Part Time: 0</b>	
<b>Year 2</b>	<b>Full Time: 3</b>	<b>Part Time: 0</b>	
<b>Year 3</b>	<b>Full Time: 3</b>	<b>Part Time: 0</b>	<b>Number of Graduates: 9</b>
<b>Year 4</b>	<b>Full Time: 3</b>	<b>Part Time: 0</b>	
<b>Year 5</b>	<b>Full Time: 3</b>	<b>Part Time: 0</b>	<b>Number of Graduates: 6</b>

### Percentage Statement:

n/a

### Program Accreditation

Institutional Plans for Accreditation:

New program information has been submitted to HLC. Ranken Technical College is a private college accredited by HLC.

### Program Structure

#### Total Credits:

95

#### Residency Requirements:

50% of the program must be completed at Ranken Technical College.

#### General Education Total Credits:

36

#### Major Requirements Total Credits:

68

#### Course(s) Added



## New Program Report

COURSE NUMBER	CREDITS	COURSE TITLE
EEL 1120	13	Electrical Applications
EEL 1220	14	Intro to Automation & Control Circuits
IMT 1000	15	Mechanical and Power Fluid Systems
ELA 2015	13	Automated Motors and Drives Applications
ELC 2010	13	ELC 2010 PLCs and HMIs Graphical Displays

**Free Elective Credits:**

0

**Internship or other Capstone Experience:**

N/A

**Assurances**

I certify that the program will not unnecessarily duplicate an existing program of another Missouri institution in accordance with 6 CSR 10-4.010, subsection (9)(C) Submission of Academic Information, Data and New Programs.

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

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: Jodi Olson

Email: [jaolson@ranken.edu](mailto:jaolson@ranken.edu)

Phone: 314-286-3355

# RANKEN

TECHNICAL COLLEGE

## Industrial Automation Technology

CIP: 15.0499

AT/AS

### Program Outcomes:

- Construct electrical circuits utilizing National Electrical Code guidelines.
- Install, maintain, troubleshoot and repair industrial, commercial, and residential electrical systems.
- Program and configure equipment controlling various types of electrical motors and automated processes.
- Construct and install various mechanical, hydraulic, and pneumatic systems to standard industry codes and job specifications.

INDUSTRIAL AUTOMATION TECHNOLOGY COURSES		HOURS	PREREQUISITE
First Semester	EEL 1120 Electrical Applications	13	MTH 1110 (Co. Req)
Second Semester	EEL 1220 Intro to Automation & Control Circuits	14	
Third Semester	ELA 2015 Automated Motors and Drives Applications	13	EEL 1120
Fourth Semester	ELC 2010 PLCs and HMIs Graphical Displays	13	EEL 1120
Fifth Semester	IMT 1000 Mechanical and Power Fluid Systems	15	
	Total Technical Credit Hours Required	68	

NOTE: Use the same course descriptions from the already established courses.

### **IMT 1000 will be offered in STL.**

- Start date is June 2024, 8:05-2:25 M-F, Instructor Brad Thomas, M103

Note:

- Cancel INT 1120 Indust Mechanical Systems – Move student to IET 2400/2101 (Note Mark will move 2 current IET students to this course.)

**IMT 1000 will need to run in Troy.** Still working on when that can occur.

- Need to confirm with Keyvan on the schedule for the Customized Training with Toyota.

## Jodi A. Olson

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**From:** Shannon C. Brueggemann  
**Sent:** Monday, March 4, 2024 7:23 AM  
**To:** All Admissions Office; All Registrar's Office; All Business Office; All Bookstore; All Student Success Center  
**Cc:** Andy Robinson; Keyvan Gerami; Steve Pankey; Charles G. Corrigan; Julia M. Bradshaw  
**Subject:** Upcoming Program Changes  
**Attachments:** IAT Change 2024.docx

Good morning,

The Education Committee recently approved two degree changes recently:

1. **NEW AS/AT** degree called Industrial Automation Technology
2. **NAME CHANGE** – Industrial Engineering Technology will be called Industrial Maintenance Technology

Industrial Automation Technology (See attached)

- Offered as early as Summer 2023-24, if all approvals are obtained in the appropriate amount of time. (HLC Approval is already obtained).
- Meant to be a dual degree option for Electrical Automation Technology (EAT) students.
- EAT Industry Advisory Board is requesting students to obtain these skills and current students were finding out that employers are expecting them to have these skills.
- Degree is ultimately the EAT degree plus the Industrial Engineering Technology IMT 1000 Mechanical and Power Fluid Systems
- Please note that is best to enroll these students as EAT students first and add the additional course to the end to obtain both degrees.
- Students could get a third associates by adding the CST 2215 course for the Control Systems Technology degree.
- If all approvals are obtained soon, students currently in EAT can enroll into the IMT 1000 Mechanical and Power Fluid Systems course offered this summer.

Industrial Maintenance Technology

- This is a name change for the current Industrial Engineering Technology Degree with the goal of increasing enrollment.
- Name change proposal was provided with input from advisory boards and faculty within department with the thought that the word “Engineering” was misleading prospective students.
- Students will enroll under this new name beginning in Fall 2024.
- This applies to all locations where Industrial Engineering Technology is currently located (STL, PRY, ASH)

ALSO, remember we have existing degree/certificates now getting offered at some of our outside locations starting this Fall:

**Perryville:**

- HVAC Evening
- FWL Evening
- INT Evening

**Ashland**

- Welding Day (Same format as Perryville)
- Industrial Maintenance Technology Day (Note internships will be 16 weeks long with students in class 3 days/week and on internship 2days/week)
- INT Evening

- CRP Evening

If you have any questions or concerns that we overlooked, please let me know.

Thanks,

Shannon Brueggemann  
Vice President for Education

Ranken Technical College  
4431 Finney Avenue  
St. Louis, MO 63113  
T 314-286-3331  
[snbrueggemann@ranken.edu](mailto:snbrueggemann@ranken.edu)  
[www.ranken.edu](http://www.ranken.edu)