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SUNY Delhi

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Career and Technical
Education Team

SUNY College of Technology at Delhi
And
Syracuse City School District

Articulation Agreement
Electrical Construction and Instrumentation

Course:

ECMT 130

Electrical Laboratory I

4 credit hours

Contacts:

SUNY College of Technology at Delhi
226 Electrical Technologies Center
Delhi, NY 13753

Ms. Nancy Macdonald,

Dean, School of Applied Technologies 607-746-4073 (macdonnr@delhi.edu)

Mr. Nick Sinstack,

Electrical Construction and Maintenance Faculty, 607-746-4055 (sinstana@delhi.edu)

Mr. James Ellis,

Electrical Construction and Maintenance Faculty, 607-746-4056 (ellisjg@delhi.edu)

Mr. David Krzyston,

Electrical Construction and Maintenance Faculty, 607-746-4312 (krzystdg@delhi.edu)

Ms. Antoinette DiNoto,

Electrical Construction and Maintenance Faculty, (dinotoaa@delhi.edu)



Electrical Construction and Maintenance Articulation Agreement

Establishing the Articulation Agreement

The School of Applied Technology at SUNY Delhi welcomes articulation agreements with secondary vocational/technical schools and other high schools that offer similar technical and skilled trades programs.

Please review the specific course description and content listed in this agreement that awards four (4) hours of college credit for demonstrated mastery of the competencies in ECMT 130 – Electrical Laboratory I. If the graduates of your program can demonstrate Mastery (90% - 100% or “A”) or Competency (80% - 89% or “B”) in each of the listed competencies, please complete the enclosed one-page articulation agreement with the appropriate signatures and return it to Dean of Technology at SUNY Delhi. This signed agreement, which is personalized with your school information, will be returned to you for implementation with your students.

Certifying a Student

Evaluate an eligible student’s performance on each of the listed competencies. A student must achieve a Mastery level or Competency level on each of the listed competencies to receive articulated credit.

Complete the **Teacher Recommendation for College Credit** and return it to Dean of Applied Technologies, along with a copy of the **competency checklist** verifying the student’s performance.

Implementing the Articulation Agreement

The Enrollment Services and the Dean of Applied Technologies offices have established procedures to acknowledge and record articulated credit achieved by eligible students from participating secondary schools.

Technology and Skilled Trades programs tend to fill quickly. Students are encouraged to apply to SUNY Delhi for their program of choice no later than January 1 and to submit the completed **Teacher Recommendation for College Credit** no later than June 30 for fall registration.

Students will be invited to attend a Bronco Ready Day where they will meet with a Faculty Advisor to choose their schedule of classes for the fall semester. Students may use their articulated credit in several ways:

- To reduce their course load for the first semester
- To reduce their course load in a subsequent semester
- To take an advanced course or elective course that would not otherwise fit into their schedule.

It is not unusual for students to choose to participate in a class for which they have already received articulated credit, in order to reinforce their skills in preparation for advanced training. Articulated

credit is recorded on the student transcript after completion of the first semester of course work with an overall GPA of at least a 2.0 "C". Students who do not make satisfactory academic progress in an advanced course may be required to repeat the course for which they received articulated credit.

Articulation Agreement Assessment and Review

This agreement will be reviewed and renewed every five (5) years, with a signed agreement by the participating parties. If either participating parties decides to cancel the agreement, they may do so at any time with a thirty (30) day written notice.

SUNY Delhi will monitor the progress of students who receive articulated credit to assess the viability of each articulation agreement. Agreements that yield no students or yield students who have a low success rate will be considered for non-renewal.

SUNY Delhi welcomes close cooperation between secondary and college faculty and encourages reciprocal campus visits to identify program strengths and weaknesses and to explore areas for further articulation.

Articulation Agreement Publicity

SUNY Delhi will list articulation agreements on its web site, in literature distributed at college fairs and during high school visits.

Secondary schools are encouraged to use this articulation agreement as a recruiting tool for incoming students and as an incentive for current students to focus on their studies.

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MAR 27 2019

Career and Technical
Education Team



SUNY College of Technology at Delhi (SUNY Delhi)
And
Syracuse City School District
Articulation Agreement for Electrical Construction and Maintenance

The following agreement has been developed to meet the needs of students who are pursuing educational programs at **Syracuse City School District** and are continuing their education at SUNY Delhi.

The purpose of this articulation agreement is to provide a continuing articulation program that builds on past learning experiences and to eliminate unnecessary duplication of instruction. Specific provisions of the articulation agreement are enclosed.

When a student has completed the relevant course work, **Syracuse City School District** will submit the **Teacher Recommendation for College Course Credit** and the **Course Competencies Checklist** to verify that a student has met the required competencies to be eligible for articulated credit for the course listed below.

SUNY Delhi Course Articulated*

ECMT 130 Electrical Laboratory I (4 credits)

Jaime Alicea
Jaime Alicea, Superintendent
Syracuse City School District

3/28/19
Date

Dr. Kelli Ligeikis
Dr. Kelli Ligeikis, Provost
SUNY Delhi

4/8/19
Date

Syracuse City School District
School District or BOCES

725 Harrison Street
Street Address

Syracuse NY 13210
City State Zip Code

*Students must have successfully completed one semester at SUNY Delhi before articulated credit is awarded.



**SUNY College of Technology at Delhi
State University of New York**

Articulation Agreement Competencies

This document lists the competencies which are expected of the student who completes the course listed below. To receive credit for this course from SUNY College of Technology at Delhi, the student must meet the performance outcomes and competencies listed with a minimum grade of "B" or better (or 80% or better) for each of the competencies. Other criteria which apply to this agreement are listed in the Articulation Agreement document which must be signed by the respective institutions prior to any awarding of credit.

Course Title: Electrical Laboratory I

Course Number: ECMT 130

Credit Hours: 4

Clock Hours of Instruction: 180

Course Description:

This is a hands-on laboratory course that encompasses the planning, installation, and maintenance of residential electrical equipment. Students develop competency in performing electrical installations that meet National Electrical Code requirements. The importance of electrical diagrams is also stressed in this course through the development and application of one-line, schematic, and wiring diagrams. Students develop these skills through project work in the electrical laboratory and, when available, on field projects both on and off campus.

STUDENT'S NAME: _____

INSTRUCTOR'S NAME: _____

SCHOOL: _____

DATE: _____

SUNY Delhi- Technology Division
Course Competencies
ECMT 130 Electrical Laboratory I

Interpret and draw electrical diagrams

1. Identify the electrical symbols used in diagrams
2. Interpret and apply the information shown on
 - a. One-Line diagrams
 - b. Schematic diagrams
 - c. Wiring diagrams
3. Draw accurate one-line, schematic, and wiring diagrams of
 - a. Circuits with single pole, three-way, and four-way switches controlling lights
 - b. Circuits with duplex receptacles and split-duplex receptacles
 - c. Low voltage doorbell circuits
 - d. Multi-wire receptacles and lighting circuits

Develop a sequence of operations for an electrical circuit

1. Write an accurate sequence of operations for a circuit using a schematic diagram as a reference
 - a. Identify path of current, points where voltage is present, and operation of switches, devices, and other equipment

Perform splicing and terminations with electrical devices and equipment

1. Perform electrically and mechanically secure splicing in wire connectors
2. Perform terminations on receptacles, switches, and lights that are electrically and mechanically secure

Prepare electrical cables for installation

1. Prepare the following cables for use in electrical boxes
 - b. Romex cable
 - c. AC cable
 - d. MC cable

Perform trade-quality cuts on conduit

1. Perform trade-quality cuts on conduit

Install grounding connections in an electrical circuit

1. Understand the importance of making proper grounding connections.
2. Install grounding connections in accordance with all current National Electrical Code requirements.

Install receptacles in an electrical circuit

1. Install duplex and split-duplex receptacles in accordance with:
2. The requirements of one-line, schematic, and wiring diagrams
3. Current National Electrical Code requirements

Install line voltage switches for control of lights and receptacles in an electrical circuit

1. Install single pole, three-way, and four-way switches in accordance with:
 - a. The requirements of one-line, schematic, and wiring diagrams
 - b. Current National Electrical Code requirements

Install ground fault protective devices in an electrical circuit

1. Install Ground Fault Circuit Interrupter (GFCI) receptacles in accordance with:
 - a. The requirements of one-line, schematic, and wiring diagrams
 - b. Current National Electrical Code requirements

Install multi-wire circuits

1. Install receptacles and lights in multi-wire circuits in accordance with:
 - a. The requirements of one-line, schematic, and wiring diagrams
 - b. Current National Electrical Code requirements

Install and terminate wiring in electrical panels

1. Install a single phase 120/240V electrical panel to include:
 - a. A GFCI receptacle circuit
 - b. A multi-wire receptacle circuit
 - c. A receptacle for a clothes dryer
 - d. A range receptacle
 - e. Installation will be in accordance with:
 - f. The requirements of one-line, schematic, and wiring diagrams
 - g. Current National Electrical Code requirements

Install low voltage systems

1. Install low voltage doorbell chimes, pushbuttons, and buzzers in accordance with:
 - a. The requirements of one-line, schematic, and wiring diagrams
 - b. Current National Electrical Code requirements



TEACHER RECOMMENDATION FOR COLLEGE COURSE CREDIT

Please return this form by June 30 for the fall semester to ensure the timely recording of articulated credit

School: _____

(Certifying participating Secondary School)

School Address: _____

School Phone #: _____

This is to certify that _____
(Student's Name)

Student's Home Address _____

Student's Social Security #: _____ Year of Graduation: _____

has successfully completed the following course(s), and, based upon the Articulation Agreement between the participating secondary school and SUNY Delhi, it is recommended that college credit be awarded for the following course(s):

List applicable course(s) and grades:

Secondary Courses Certified

<u>Number</u>	<u>Title</u>	<u>Grade</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

College Course Articulated

<u>Number</u>	<u>Title</u>	<u>Credit</u>
ECMT 130	Elect. Lab I	4
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Other Comments (please use the reverse of this page).

The undersigned certifies that the student has met the criteria as defined in the Articulation Agreement signed by representatives from the participating secondary school and SUNY Delhi.

Instructor's Signature: _____

Instructor's Printed Name: _____ (Date)

Please send this completed TEACHER RECOMMENDATION form to:

Dean of Applied Technologies, 226 ETC, SUNY Delhi, Delhi, NY 13753

No later than June 30 for fall registration

THIS SECTION COMPLETED BY SUNY DELHI

Application received _____ (Date) Student accepted _____ (Date)

Fees Paid _____ (Date) Program of Study _____ (Date)

Letter of receipt sent _____ (Date) Notification letter sent _____ (Date)

GPA at end of first semester _____ # of credits awarded _____

Program faculty: The student's advisor will be: _____

Upon reviewing the Teacher Certification form above, list approved articulated courses and # of credits: