



Syracuse City School District Remotely Piloted Aircraft Systems Program Reapproval Self-Study Report

Career and Technical Education

March 2023

Remotely Piloted Aircraft Systems Program Reapproval Self-Study Report

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The Self-Study Process

The self-study is an important step in the career and technical education approval process and provides for an in-depth evaluation of the program of study. Its purpose is to bring together primarily internal stakeholders to review the CTE program and propose relevant modifications.

[NYSED Self-Study Process](#)

Program Information

At the completion of this program, students will understand and be able to apply the fundamentals of Remote Piloted Aerial Systems.

Students will complete hands-on, real-world projects, develop critical thinking, analysis and problem-solving skills.

This course will contribute to the preparation of students for post-secondary education and a wide range of careers using Remote Piloted Aerial Systems. Students will also have the opportunity to receive integrated academic and college credits.

NYSED CTE Program Requirements

Remotely Piloted Aircraft Systems

Public Service Leadership Academy at Fowler
P-TECH Pathway

The Career Field: The use of drones or Remotely Piloted Aircraft Systems is becoming one of the fastest growing technologies in the country. Across the world hundreds of Industries are being revolutionized by Integrating Remotely Piloted Aircraft Systems. In fact, the Remotely Piloted Aircraft System Industry is expected to create more than 100,000 new jobs by 2025, with an economic impact of \$82 billion. Central NY is home to one of only six FAA testing sites for UAS research and development in the country.

The Program: The Remotely Piloted Aircraft Systems P-TECH pathway at the Public Service Leadership Academy (PSLA) at Fowler prepares students to enter this fast-growing field. Students will participate in hands-on learning in developing the basic skills necessary for piloting, engineering, and repairing Remotely Piloted Aircraft Systems.

Syracuse City
School District



Photo courtesy of PSLA RPAS



Curriculum

- Level 100 – Level 400
 - Integrated credit in ELA and Science
 - Embedded Career and Financial Management
- NYSED Curriculum Requirements
- NYSED Overview of Integrated and Specialized Academic Credits
- NYSED Career and Financial Management Framework



Program Data

Remotely Piloted Aircraft Systems Program Data			
Coursework	Technical Assessment		Technical Endorsement
How many students have completed the coursework for this program of study since it was last approved or re-approved? Please indicate totals by program year.	Of the total number of students who have completed the coursework, how many students completed the technical assessment used in this program?	Of the total number of students who have completed the technical assessment, how many passed?	How many students received a technical endorsement?
2018-2019 0	2018-2019 0	2018-2019 0	2018-2019 0
2019-2020 4	2019-2020 0	2019-2020 0	2019-2020 0
2020-2021 11	2020-2021 6	2020-2021 6	2020-2021 6
2021-2022 6	2021-2022 3	2021-2022 3	2021-2022 3
Cumulative Total 21	Cumulative Total 9	Cumulative Total 9	Cumulative Total 9
Of the total number of students who have completed the coursework for this program of study, how many had IEPs?	Of the total number of students who have completed the coursework and completed the technical assessment, how many had IEPs?	Of the total number of students with IEPs who completed the technical assessment, how many passed?	Of those students who received the technical endorsement, how many had IEPs?
2018-2019 0	2018-2019 n/a	2018-2019 n/a	2018-2019 n/a
2019-2020 0	2019-2020 n/a	2019-2020 n/a	2019-2020 n/a
2020-2021 4	2020-2021 n/a	2020-2021 n/a	2020-2021 n/a
2021-2022 0	2021-2022 0	2021-2022 0	2021-2022 0
Cumulative Total 4	Cumulative Total 0	Cumulative Total 0	Cumulative Total 0
Of the total number of students who have completed the coursework for this program of study, how many had Section 504 plans?	Of the total number of students who have completed the coursework and completed the technical assessment, how many had Section 504 plans?	Of the total number of students with Section 504 plans who completed the technical assessment, how many passed?	Of those students who received the technical endorsement, how many had section 504 plans?
2018-2019 n/a	2018-2019 n/a	2018-2019 n/a	2018-2019 n/a
2019-2020 n/a	2019-2020 n/a	2019-2020 n/a	2019-2020 n/a
2020-2021 n/a	2020-2021 n/a	2020-2021 n/a	2020-2021 n/a
2021-2022 0	2021-2022 0	2021-2022 0	2021-2022 0
Cumulative Total 0	Cumulative Total 0	Cumulative Total 0	Cumulative Total 0

Career Outlook



U.S. BUREAU OF LABOR STATISTICS

Quick Facts: Electro-mechanical and Mechatronics Technologists and Technicians	
2021 Median Pay ?	\$60,360 per year \$29.02 per hour
Typical Entry-Level Education ?	Associate's degree
Work Experience in a Related Occupation ?	None
On-the-job Training ?	None
Number of Jobs, 2021 ?	12,100
Job Outlook, 2021-31 ?	-4% (Decline)
Employment Change, 2021-31 ?	-400

[Electro-mechanical and Mechatronics Technologists and Technicians Occupational Employment and Wage Statistics State Data](#)

[Electro-mechanical and Mechatronics Technologists and Technicians Occupational Employment and Wage Statistics Local Data](#)



Certification and License

Remotely Piloted Aircraft Systems Teacher: Quindell Williams

Search Results						
Select	First Name	Last Name	MI	City	State	Registration Status
<input checked="" type="radio"/>	QUINDELL	WILLIAMS	C	SYRACUSE	NY	N/A
View Detail						
Certificate Information for New York State Teaching Certificate Holder						
Certificate Title				Issue / Effective Date	Expiration Date	Status
Drone Technology 7-12 Transitional A Certificate				07/01/2021	08/31/2024	Issued
Certified by the State of New York solely for purposes of employment by the City School District of the City of New York and the operation of the School District.						



NYSED Program Faculty Requirements



Certification and License

Search Results

Select	First Name	Last Name	MI	City	State	Registration Status
<input checked="" type="radio"/>	RHIANNON	WHITE	M	LIVERPOOL	NY	Expired
<input type="radio"/>	RHIANNON	WHITE	M	FAIRPORT	NY	Registered Inactive

View Detail

Certificate Information for New York State Teaching Certificate Holder

Certificate Title	Issue / Effective Date	Expiration Date	Status
English 7-12 Permanent Certificate	02/01/2007		Issued
English 7-12 Provisional Certificate	02/01/2002	01/31/2007	Expired

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Search Results

Select	First Name	Last Name	MI	City	State	Registration Status
<input type="radio"/>	JENNIFER	CRAWFORD	L	OLEAN	NY	Expired
<input checked="" type="radio"/>	JENNIFER	CRAWFORD	L	JAMESVILLE	NY	Registered Active
<input type="radio"/>	JENNIFER	CRAWFORD	L	FAIRPORT	NY	Registered Active
<input type="radio"/>	JENNIFER	CRAWFORD	L	BRANDON	FL	N/A

View Detail

Certificate Information for New York State Teaching Certificate Holder

Certificate Title	Issue / Effective Date	Expiration Date	Status
Earth Science 7-12 Permanent Certificate	02/01/2006		Issued
Teaching Assistant Temporary TA License	09/01/1997	08/31/1998	Expired
Earth Science And General Science 7-12 Provisional Certificate	02/01/2003	01/31/2008	Expired

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Certification and License

Search Results						
Select	First Name	Last Name	MI	City	State	Registration Status
<input checked="" type="radio"/>	MATTHEW	CARON	C	MARCELLUS	NY	Registered Active
						View Detail

Certificate Information for New York State Teaching Certificate Holder				
Certificate Title	Issue / Effective Date	Expiration Date	Status	
Special Education Permanent Certificate	02/01/2002		Issued	
Coordinator of Work-Based Learning Programs for Career Awareness Extension Permanent Extension	11/28/2018		Issued	
Special Education Provisional Certificate	02/01/2001	01/31/2006	Expired	

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Search Results						
Select	First Name	Last Name	MI	City	State	Registration Status
<input checked="" type="radio"/>	NICHOLAS	LISI		SYRACUSE	NY	Registered Active
						View Detail

Certificate Information for New York State Teaching Certificate Holder				
Certificate Title	Issue / Effective Date	Expiration Date	Status	
Media Communications 7-12 Initial Certificate	09/01/2011	08/31/2016	Expired	
Coordinator of Work-Based Learning Programs for Career Development Extension Initial Extension Annotation	12/19/2013	08/31/2016	Expired	
Media Communications 7-12 Professional Certificate	03/17/2016		Issued	
Coordinator of Work-Based Learning Programs for Career Development Extension Professional Ext/Anno	03/17/2016		Issued	

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Technical Assessment

FAA Part 107

The National Institute of Standards and Technology: Standard Test Methods for Small Unmanned Aircraft Systems

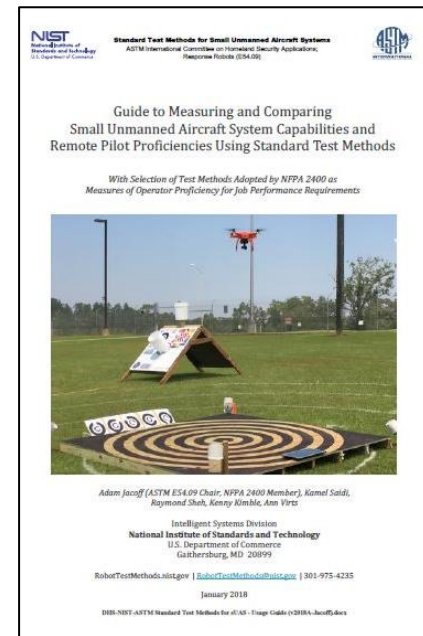
Precision Exam: Unmanned Aerial Systems I #670

SCSD Career Portfolio

Career Portfolio Rubric

NYSED Technical Assessment Requirements

NYSED Technical Endorsement Requirements



PRECISION EXAMS

by *youscience*

Unmanned Aerial Systems I

*This exam is in pilot status for the 22-23 school year. No certificate is available.

EXAM INFORMATION	DESCRIPTION												
Exam Number 670	This course covers the history, safety, rules, and regulations, as well as the design and construction of Small Unmanned Aerial Systems (UAS). Students fly both rotary and fixed wing UAS in preparation for certification.												
Items 32													
Points 32													
Prerequisites None	<div>EXAM BLUEPRINT</div> <table> <tr> <th>STANDARD</th> <th>PERCENTAGE OF EXAM</th> </tr> <tr> <td>1. UAS Laws and Standards</td> <td>47%</td> </tr> <tr> <td>2. Weather Information</td> <td>28%</td> </tr> <tr> <td>3. New and Upcoming UAS Technologies</td> <td>13%</td> </tr> <tr> <td>4. Ethical and Social Responsibilities</td> <td>6%</td> </tr> <tr> <td>5. Career Application and Requirements</td> <td>6%</td> </tr> </table>	STANDARD	PERCENTAGE OF EXAM	1. UAS Laws and Standards	47%	2. Weather Information	28%	3. New and Upcoming UAS Technologies	13%	4. Ethical and Social Responsibilities	6%	5. Career Application and Requirements	6%
STANDARD		PERCENTAGE OF EXAM											
1. UAS Laws and Standards		47%											
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3. New and Upcoming UAS Technologies		13%											
4. Ethical and Social Responsibilities	6%												
5. Career Application and Requirements	6%												
Recommended Course Length One semester													
National Career Cluster Transportation, Distribution & Logistics													
Performance Standards Included (Optional)													
Certificate Available No													

www.youscience.com

Unmanned Aerial Systems
670.2022

Work-based Learning

SCSD Work-based Learning

Students will be connected with professionals in the Remote Pilot Aerial Systems field through field trips, job shadowing and career coaching, leading to opportunities for direct job training and real-world experience. Students will create and maintain a portfolio of their experiences to document the development of their skills, including a professional resume.

Syracuse City Schools Work-based Learning Handbook

NYSED Work-based Learning Requirements



Employability Profiles

Employability Profiles:

- Industry Based Skill Standards
- Career Development Standards

Advisory Council Members

- Tim Thomas, AVP, Academic Affairs Mohawk Valley Community College
- Frank Caliva, CenterState CEO
- Tony Basile, Nuair
- Katherine Rumrill, Onondaga Community College
- William Judycki, Professor. School of STEM Career. Education Mohawk Valley Community College
- Richard Harvey, Amazon
- Debi Marshall, Syracuse Airport Authority

NYSED Employability Profile Requirements



Post-Secondary Articulation Agreement

Our Remotely Piloted Aircraft Systems program has an articulation agreement with Mohawk Valley Community College

MOHAWK VALLEY COMMUNITY COLLEGE
UTICA-ROME, NY 13501
AND
SYRACUSE CITY SCHOOL DISTRICT
725 HARRISON STREET, SYRACUSE NY 13210

ARTICULATION AGREEMENT

The purpose of this articulation agreement is to develop an ongoing relationship between Mohawk Valley Community College (MVCC) and Syracuse City School District (SCSD), enabling each of these institutions to better serve their communal students. The relevant faculties of MVCC and SCSD subscribe to the following memorandum of understanding based on their mutual concern for providing applied programs that will build upon past student experiences and eliminate unnecessary duplication of instruction.

It is agreed, subject to the following conditions, that MVCC will grant 12-college credit hours for CT265-Introduction to Geographic Information Systems, CT267-Advanced Geographic Information Systems, UA120-Remotely Piloted Aircraft Systems Operational and Industrial Operations, and UA215-Remotely Piloted Aircraft Systems Mission Planning and Operations for all students who complete SCSD's Remotely Piloted Aircraft Systems (RPAS) CTE program (Note: This agreement is valid for up to 1 year post SCSD graduation).




To receive college credit for CT265, CT267, UA120 and UA215, SCSD RPAS CTE graduates must meet the following criteria:

1. Achieved a minimum cumulative average of 85 during their SCSD secondary school experience.
2. Completed the SCSD Remotely Piloted Aircraft Systems CTE pathway.

Process for granting credit owed:

1. Students will arrange a meeting with the Assistant Vice President (AVP), Academic Affairs or designee by calling 315-792-5446 upon entrance into MVCC. At the meeting, students will provide documentation supporting their attainment of the above criteria #1-2.
2. The AVP or designee will verify that the student meets criteria #1-2 identified above.
3. Upon verification of the student's fulfillment of criteria #1-2, the AVP or designee will communicate with MVCC's Registrar to authorize the granting of transfer credit for CT265, CT267, UA120 and UA215.

This agreement is effective for 5-years subsequent the completion of the signing process unless either party has significant changes in the program. The College reserves the right to make final determination concerning all college credit awarded.

Syracuse City School District	Mohawk Valley Community College
RPAS Technology Instructor _____	 _____
Date _____	Date 10-18-2022
Director of Career Technical Education _____	 _____
Date _____	Date 10/18/2022
Superintendent _____	 _____
Date _____	Date 10/18/2022

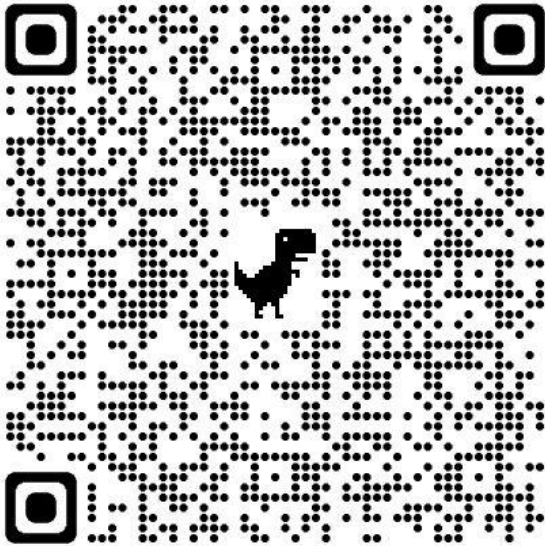
Mohawk Valley Community College does not discriminate on the basis of age, race, creed, color, sex, sexual orientation, national origin, disability, veteran status, gender identity, pregnancy, religion, predisposing genetic characteristics, marital status or domestic violence victim status in admissions, employment, and treatment of students and employees in any aspect of the business of the College.

NYSED Post-Secondary Articulation Agreement Requirements



Thank you!!!

It is important to provide your thoughts in the Self Study report. Please access the QR code or click on the graphic below to record your comments. We will also email you the link.



"Tell us what
you think!"



We appreciate your time and support of our programs and look forward to your feedback.

