Ohio College **Tech Prep**
Building Quality Career Pathways

NC North Central
State College

BILATERAL ARTICULATION AGREEMENT

2023 GRADUATES
Expires on July 1, 2024

BETWEEN
North Central State College *and* Ashland County West Holmes Career Center

This agreement, entered into for the **2023** graduates, is based on a review of programs of study at **Ashland County West Holmes Career Center** and the curriculum and syllabi at **North Central State College**.

Purpose of Agreement
This agreement is designed
- To encourage Ohio technical center and secondary students to pursue a college degree,
- To reduce repetition of mastered competencies between the Ohio technical center or secondary program of study and the college program of study,
- To provide a smooth transition from the Ohio technical center or secondary to college, and
- To reduce the cost of higher education for students and the state of Ohio.

Tech Prep articulation agreements recognize a seamless curriculum pathway that starts in an Ohio technical center or high school, continues to a college certificate or associate degree and leads to careers in related technical fields.

This agreement enables graduates of **Ashland County West Holmes Career Center** who successfully complete the academic and technical competencies to receive college credit for courses at **North Central State College** as outlined in Appendix A.

Eligibility Criteria

Students seeking college credit through this Tech Prep bilateral articulation agreement must meet the following criteria/requirements:

- The student must have completed the Tech Prep competencies (academic and technical) relevant to the North Central State College courses, with a minimum grade as notated on the Instructor Recommendation Form.
- An application and subsequent matriculation to North Central State College must occur within two (2) years of high school graduation date.
- The student must meet all college entrance, general admission and program specific requirements and complete the Accuplacer or ACT assessment.
- The student is responsible to inform college admissions personnel of his/her Tech Prep status and eligibility for articulated college credit and verify that appropriate documentation has been provided to the college by the secondary school.

Ohio Technical Center/Secondary School Responsibilities

- Ohio technical center/secondary instructors are required to have the appropriate teaching credential as defined by the Ohio Department of Education.
- For the purpose of compliance with state, program or regional accreditation standards, North Central State College reserves the right to review, validate and copy the credentials (e.g., college transcripts and resumes) of the instructors of articulated courses for external auditing purposes.
- The Ohio technical center/secondary instructor(s) will complete an Instructor Recommendation Form for each student upon graduation, which will be maintained in the student's permanent file. An Instructor Recommendation Form must be submitted to the North Central State College Registrar Office in order for credit to be awarded.
- The college and Ohio technical center/secondary school will develop methods of publicizing the agreement to encourage students to take advantage of seamless transitions and advanced placement opportunities.

Awarding of Credit

- There will be no charge for college credit awarded through this agreement.
- Student eligibility for technical or related credit is primarily determined by Ohio technical center/secondary instructor evaluation based upon predetermined criteria set by the college. In certain cases, record of relevant student external certification, college proficiency testing, review of portfolios, or other forms of assessment may also be required.
- Placement in North Central State College's courses is determined by the student's scores on the college's required placement test(s). Credit is available only for the technical courses specified on the attached list of articulated Tech Prep courses.
- Articulated courses are recorded on the student's permanent records after a student enrolls in and completes a non-articulated college credit at North Central State College.

The administrators and faculty of the program at both levels pledge their commitment and support to continuing this relationship and to promoting these articulation opportunities to the students.

Articulation Agreement Signatures

2023 Graduates
Expires on July 1, 2024

Ashland County West Holmes Career Center

Rodney Cheyney	3/8/2023
Rodney Cheyney	Date
Superintendent	

Rick Brindley	3/3/2023
Rick Brindley	Date
Principal	

North Central State College

Dr. Kelly Gray	2/13/2023
Dr. Kelly Gray	Date
Vice President of Academic Services	

Melinda Roepke	2/13/2023
Melinda Roepke	Date
Division Dean	

Dr. Howard Walters	Date
Division Dean	

Daniel Wagner	1/20/2023
Daniel Wagner	Date
Division Dean	

APPENDIX A
Ohio College Tech Prep Bilateral Articulation

Below are the courses available for bilateral articulation, as agreed upon between **Ashland County West Holmes Career Center** and **North Central State College**. To receive credit at North Central State College, the Ohio Technical Center/Secondary School must submit Instructor Recommendation Form for each student upon graduation, which will be maintained in the student's permanent file.

PROGRAM	COURSE NUMBER	COURSE NAME	CREDITS
Cosmetology	BURS 2930	Business Related Studies I	10
Note: The Cosmetology License is required to receive credit.	BURS 2940	Business Related Studies II	7
Criminal Justice*	CRMJ 1110	Criminal Investigation I	3
	CRMJ 2090	Defensive Tactics	2
	CRMJ 2110	Private Security I	3
Early Childhood Education	EDUT 1010	Introduction to Education	3
Health Technologies*	BIOL 1101	Nutrition	2
	BIOL 1730	Basic Anatomy & Physiology	4
	HLST 1010	CPR/First Aid	1
	STNA 1110	State Tested Nurse Assistant	3
	STNA 1250	State Tested Nurse Assistant Clinical	2
RAMTEC Manufacturing Technology*	EMMT 1020	Mechanical Systems	2
	EMMT 1050	Fundamentals of Fluid Power Systems	3
	EMMT 1710	Introduction to Robotics	2
	MFGT 1010	Industrial Blueprint Reading	2
	MFGT 1300	Welding and Welding Equipment	2
	MFGT 1640	Computer Aided Manufacturing I	2
Sports Science/Exercise Medicine*	BIOL 1101	Nutrition	2
	HLST 1010	CPR/First Aid	1

Additional CTAG credit may be available. See next page for more information.

APPENDIX B
Career-Technical Assurance Guide (CTAG) Opportunities

Below are all of the approved Ohio Department of Higher Education CTAG courses (CTAN) for North Central State College and the corresponding ODE course requirement. To received credit at North Central State College, the Ohio technical center or secondary student must complete the Career-Technical Credit Transfer (CT)2 Verification of Course/Program Completion form found at https://www.ohiohighered.org/transfer/ct2/how-to-access-ct2-credit.

For more information, please refer to https://www.ohiohighered.org/transfer/ct2/ctags.

PROGRAM OF STUDY	CTAN NUMBER AND NAME	ODE COURSE REQUIREMENTS	NCSC COURSE NUMBER AND NAME	CREDITS
Agribusiness and Production Systems	CTAGP002 Soil Fertility & Fertilizers	010610 Greenhouse and Nursery Management	AGRI 1030 Soil, Crop, & Greenhouse Management	3
	CTAGP003 Agribusiness Management	010115 Business Management for Agricultural & Environmental Systems	AGRI 1210 Agriculture Management	3
Animal Science	CTASM001 Intro to Animal Science	010910 Animal Science & Technology	AGRI 1050 Animal Science Management	3
Biotechnology	CBTBC001 Biotechnology Principles	012010 Animal & Plant Biotechnology	BIOS 1010 Intro to Bioscience Lab Techniques	4
Criminal Justice	CTCJ001 Intro to Criminal Justice	170911 The American Criminal Justice System 170913 Police Work & Practice in Public Safety 170915 The Correctional System & Services	CRMJ 1010 Intro to Criminal Justice	3
Cybersecurity	CTCYBR001 Cybersecurity Fundamentals	146010 Cybersecurity Defense & Reinforcement	ITEC 1420 Intro to Information Security	3
Electrical Engineering Technology	CTEET001 DC Circuits	175105 DC Electronic Circuits	ELET 1510 DC Electricity	3
	CTEET002 Digital Electronics	175007 Digital Electronics	ELET 1530 Digital Principles	4
Emergency Medical Technician	CTEMS002 Emergency Medical Technician	EMT High School or EMT Basic	EMTP 1010 EMT – Basic	6
Entrepreneurship	CTENTR001 Intro to Entrepreneurship	141030 Strategic Entrepreneurship	BUSM 1010 Intro to Business & Entrepreneurship	3
Graphics	CTGRPH001 Raster Graphics	340120 Digital Image Editing	VCMT 1050 Imaging I	3
Health Information Management	CTHIM002 Legal & Ethical Aspects of Health Information Management	072140 Health Information Management	HLTH 1010 Legal & Ethical Aspects of Health Care	2
Information Technology	CTIT014 PC Operating Systems, Hardware Operation & Maintenance/A+	145025 Computer Hardware 145030 Computer Software	ITEC 1610 IT Essentials	3
	CTIT017 Cisco I: CCNA 7 – Intro to Networks	CISCO I	ITEC 1640 Intro to Networks CCNA 1	2
	CTIT018 Cisco II: CCNA 7 – Switching, Routing, & Wireless Essentials (SRWE)	CISCO II	ITEC 1645 Switching, Routing, & Wireless Essentials CCNA 2	2
	CTIT016 Linux	145040 Network Operating Systems	ITEC 1650 Linux Fundamentals (Linux +)	3
	CTIT019 Cisco III: CCNA 7 – Enterprise Networking, Security, & Automation (ENSA)	CISCO III	ITEC 1665 Enterprise Networking, Security, & Automation CCNA3	2
	CTIT015 CompTIA Security+	145050 Network Security	ITEC 1690 Network Security (Security+)	3
Interactive Media	CTIM006 Digital Video Production	145110 Video and Sound	VCMT 1190 Video Production I	3
	CTIM005 Graphical Web Site Design	145125 Interactive Application Development	VCMT 2070 Web Design I	3
Mechanical Engineering Technology (Manufacturing)	CTMET005 CADD	175006 Computer Integrated Manufacturing	ENRD 2150 Computer Aided Design I	3
	CTMET004 Manufacturing Processes	175003 Manufacturing Operations	MFGT 1110 Manufacturing Processes	3
	CTMET006 CNC Programming/Machining	176007 CNC	MFGT 1640 Computer Aided Manufacturing I	2

APPENDIX B

Career-Technical Assurance Guide (CTAG) Opportunities

PROGRAM OF STUDY	CTAN NUMBER AND NAME	ODE COURSE REQUIREMENTS	NCSC COURSE NUMBER AND NAME	CREDITS
Medical Terminology	CTMT001 Medical Terminology	072150 Medical Terminology	HLTH 1150 Medical Terminology	2
Natural Resource Management	CTNRM001 Environmental Science	010720 Environmental Science for Agriculture & Natural Resources	BIOS 1030 Environmental Science	4
Practical Nursing	CTPNNUR001 Practical Nurse Programs	Practical Nursing (must pass NCLEX-PN)	RNUR 1010 Basic Concepts in Nursing	6
			RNUR 1050 Intermediate Concepts in Nursing I	7
			RNUR 1070 Intermediate Concepts in Nursing II	5

🟨 Pending ODE Approval

APPENDIX C
Information Technology Articulation

Associate of Applied Science, Information Technology – Networking

The following courses can be complete at **Ashland County West Holmes Career Center**.

PROGRAM	COURSE NUMBER	COURSE NAME	CREDITS
College Credit Plus	COMM 1010	Speech	3
	ENGL 1010	English Composition I	3
	ENGL 1030	English Composition II	3
	HIST 1010	American History I	3
	ITEC 1810	Microsoft Office for IT Professionals	3
	ITEC 1840	Ethics in Information Age	3
	SOCY 2010	Cultural Diversity & Racism	3
	STAT 1010	Probability & Statistics	3
		Total Credit Hours	**24**
Career-Technical Assurance Guide (CTAG)	ITEC 1610	IT Essentials	3
	ITEC 1640	Introduction to Networks CCNA1	2
	ITEC 1645	Switching, Routing, & Wireless Essentials CCNA 2	2
	ITEC 1650	Linux Fundamentals (Linux+)	3
	ITEC 1665	Enterprise Networking, Security, & Automation CCNA3	2
	ITEC 1690	Network Security (Security+)	3
		Total Credit Hours	**15**

The following courses will be completed at **North Central State College**.

SEMESTER	COURSE NUMBER	COURSE NAME	CREDITS
Fall Semester	ITEC 1860	Introduction to Programming	3
	ITEC 2610	Implementing Windows Server	3
	ITEC 2665	Wireless & Business Technologies	3
	ITEC ____	Certification Technical Elective	1
		Total Credit Hours	**10**
Spring Semester	BUSM 1260	Project Management	3
	ITEC 1620	Wireshark 101	2
	ITEC 2460	Cloud Computing	3
	ITEC 2670	Administering Windows Server	3
	ITEC 2700 or ITEC 2980 & ITEC 2990	Capstone for Networking Professionals Cooperative Work Experience Seminar	2-3
		Total Credit Hours	**13-14**

Total Program Credit Hours   62-63

APPENDIX C
Information Technology Articulation

Associate of Applied Science, Information Technology – Cyber Security

The following courses can be completed at **Ashland County West Holmes Career Center**.

PROGRAM	COURSE NUMBER	COURSE NAME	CREDITS
College Credit Plus	COMM 1010	Speech	3
	ENGL 1010	English Composition I	3
	ENGL 1030	English Composition II	3
	HIST 1010	American History I	3
	ITEC 1810	Microsoft Office for IT Professionals	3
	ITEC 1840	Ethics in Information Age	3
	SOCY 2010	Cultural Diversity & Racism	3
	STAT 1010	Probability & Statistics	3
		Total Credit Hours	**24**
Career-Technical Assurance Guide (CTAG)	ITEC 1610	IT Essentials	3
	ITEC 1640	Introduction to Networks CCNA1	2
	ITEC 1645	Switching, Routing, & Wireless Essentials CCNA 2	2
	ITEC 1650	Linux Fundamentals (Linux+)	3
	ITEC 1690	Network Security (Security+)	3
		Total Credit Hours	**13**

The following courses will be completed at **North Central State College**.

SEMESTER	COURSE NUMBER	COURSE NAME	CREDITS
Fall Semester	ITEC 1430	Certified Ethical Hacker (CEH)	3
	ITEC 1860	Introduction to Programming	3
	ITEC 2420	Advanced Network Security	3
	ITEC 2610	Implementing Windows Server	3
		Total Credit Hours	**12**
Spring Semester	BUSM 1260	Project Management	3
	ITEC 2450	Computer Hacking Forensic Investigator (CHFI)	3
	ITEC 2460	Cloud Computing	3
	ITEC 2500 or ITEC 2980 & ITEC 2990	Capstone for Cyber Security Professionals Cooperative Work Experience Seminar	2-3
	ITEC ____	Certification Technical Elective	1
		Total Credit Hours	**12-13**

Total Program Credit Hours   **61-62**

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INSTRUCTOR RECOMMENDATION FORM
Ashland County West Holmes Career Center
2023 Graduate
Expires on July 1, 2024

<u>COSMETOLOGY</u>

STUDENT INFORMATION
Please type or print clearly

Name:	**DOB:**
Address:	**Phone:**
City:	
Zip Code:	

Notice to Ohio Technical Center/Secondary Instructor

To receive course credit, students must earn a **grade of C or higher** and complete all program competencies. Please include a grade for each course and select "Achieved" or "Not Achieved," then sign and date below the course list.

COURSE	COURSE NAME	CREDITS	GRADE	COMPETENCIES (PLEASE CHECK ONE)	
BURS 2930	Business Related Studies I	10		☐ Achieved	☐ Not Achieved
BURS 2940	Business Related Studies II	7		☐ Achieved	☐ Not Achieved

Note: The Cosmetology License is required to receive credit.

Instructor Signature: _____ **Date:** _____

SUBMIT THIS APPLICATION TO:
Daniel Wagner, Dean   dwagner@ncstatecollege.edu
North Central State College   419-755-4817, FAX 419-755-5674
2441 Kenwood Circle
Mansfield, OH 44906

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INSTRUCTOR RECOMMENDATION FORM
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CRIMINAL JUSTICE

STUDENT INFORMATION
Please type or print clearly

Name:		**DOB:**	
Address:		**Phone:**	
City:			
Zip Code:			

Notice to Ohio Technical Center/Secondary Instructor

To receive course credit, students must earn a **grade of C or higher** and complete all program competencies. Please include a grade for each course and select "Achieved" or "Not Achieved," then sign and date below the course list.

COURSE	COURSE NAME	CREDITS	GRADE	COMPETENCIES (PLEASE CHECK ONE)	
CRMJ 1110	Criminal Investigation I	3		☐ Achieved	☐ Not Achieved
CRMJ 2090	Defensive Tactics	2		☐ Achieved	☐ Not Achieved
CRMJ 2110	Private Security I	3		☐ Achieved	☐ Not Achieved

Instructor Signature: _____   **Date:** _____

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EARLY CHILDHOOD EDUCATION

STUDENT INFORMATION
Please type or print clearly

Name: _____ **DOB:** _____

Address: _____ **Phone:** _____

City: _____

Zip Code: _____

Notice to Ohio Technical Center/Secondary Instructor

To receive course credit, students must earn a **grade of C or higher** and complete all program competencies. Please include a grade for each course and select "Achieved" or "Not Achieved", then sign and date below the course list.

COURSE	COURSE NAME	CREDITS	GRADE	COMPETENCIES (PLEASE CHECK ONE)	
EDUT 1010	Introduction to Education	3	_____	☐ Achieved	☐ Not Achieved

Instructor Signature: _____ **Date:** _____

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HEALTH TECHNOLOGIES

STUDENT INFORMATION
Please type or print clearly

Name: _____   **DOB:** _____

Address: _____   **Phone:** _____

City: _____

Zip Code: _____

Notice to Ohio Technical Center/Secondary Instructor

To receive course credit, students must earn a **grade of C+ or higher** and complete all program competencies. Please include a grade for each course and select "Achieved" or "Not Achieved", then sign and date below the course list.

COURSE	COURSE NAME	CREDITS	GRADE	COMPETENCIES (PLEASE CHECK ONE)	
BIO 1101	Nutrition	2		☐ Achieved	☐ Not Achieved
BIOL 1730	Basic Anatomy & Physiology	4		☐ Achieved	☐ Not Achieved
HLST 1010	CPR/First Aid	1		☐ Achieved	☐ Not Achieved
STNA 1110	State Tested Nurse Assistant	3		☐ Achieved	☐ Not Achieved
STNA 1250	STNA Clinical	2		☐ Achieved	☐ Not Achieved

Instructor Signature: _____   **Date:** _____

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MECHANICAL ENGINEERING TECHNOLOGY

STUDENT INFORMATION
Please type or print clearly

Name: _____   **DOB:** _____

Address: _____   **Phone:** _____

City: _____

Zip Code: _____

Notice to Ohio Technical Center/Secondary Instructor
To receive course credit, students must earn a **grade of C or higher** and complete all program competencies. Please include a grade for each course and select "Achieved" or "Not Achieved", then sign and date below the course list.

COURSE	COURSE NAME	CREDITS	GRADE	COMPETENCIES (PLEASE CHECK ONE)	
EMMT 1710	Introduction to Robotics	2	_____	☐ Achieved	☐ Not Achieved
EMMT 1020	Mechanical Systems	2	_____	☐ Achieved	☐ Not Achieved
EMMT 1050	Fundamentals of Fluid Power Systems	3	_____	☐ Achieved	☐ Not Achieved
MFGT 1010	Industrial Blueprint Reading	2	_____	☐ Achieved	☐ Not Achieved
MFGT 1300	Welding and Welding Equipment	2	_____	☐ Achieved	☐ Not Achieved

Instructor Signature: _____   **Date:** _____

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SPORTS SCIENCE/EXERCISE MEDICINE

STUDENT INFORMATION
Please type or print clearly

Name: _____   **DOB:** _____

Address: _____   **Phone:** _____

City: _____

Zip Code: _____

Notice to Ohio Technical Center/Secondary Instructor

To receive course credit, students must earn a **grade of C+ or higher** and complete all program competencies. Please include a grade for each course and select "Achieved" or "Not Achieved", then sign and date below the course list.

COURSE	COURSE NAME	CREDITS	GRADE	COMPETENCIES (PLEASE CHECK ONE)	
BIOL 1101	Nutrition	2	_____	☐ Achieved	☐ Not Achieved
HLST 1010	CPR/First Aid	1	_____	☐ Achieved	☐ Not Achieved

Instructor Signature: _____   **Date:** _____

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