



Presenter:

Lucy Ott

Career Technical Education Coordinator

CTE@lakelandcc.org

440-525-7493

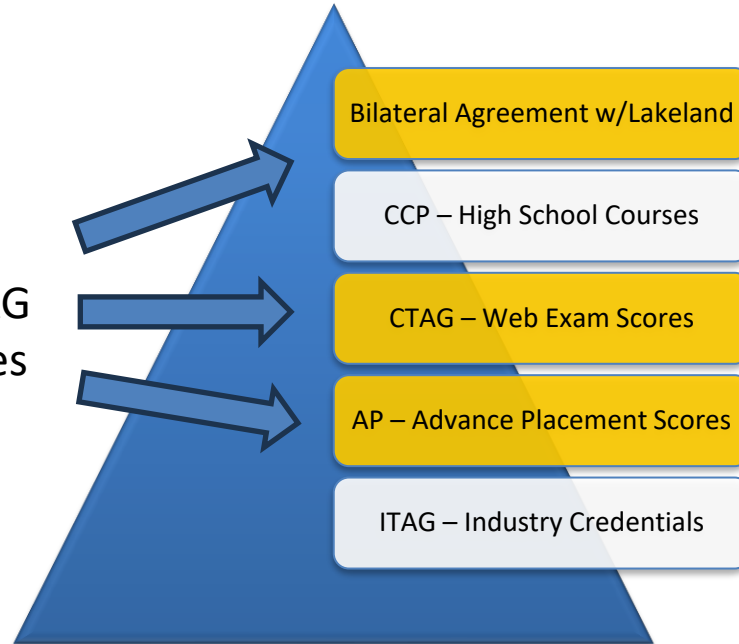
Lakeland
COMMUNITY COLLEGE

Agenda

- General CTE Info
- College Credit
- Career Focused, Job Ready at Lakeland CC
- Program Search / Activity
- Career Coach
- Questions

College Credit Opportunities

In this example, a student earned credit with bilateral agreement at Lakeland, CTAG credit from Web Exam scores and AP credit.



All types of credit can be stacked but cannot overlap.

What type of credit can be applied at Lakeland?

From CTE Course:

- **Articulated Credit - Bilateral Agreement**
- **CTAG**
- **ITAG**

From Other Courses:

- **CCP**
- **AP**

Handout in folder: Flyer from ODE - [LINK](#)



Career-Technical Assurance Guides (CTAGs)

CTAGs grant college credit for career-technical coursework taken at either an Ohio public high school or career-technical center. Credit is awarded for a qualifying score on an end-of-course WebXam administered by the Ohio Department of Education.



College Credit Plus (CCP)

CCP is a dual-enrollment program that allows students to earn high school and college credit at the same time. You may apply for CCP admission at any Ohio public college and/or participating private college.



Advanced Placement (AP)

AP exams test students on their mastery of college-level coursework taken in high school. Credit is awarded for scores of 3 or higher on an AP exam administered by the College Board (an independent organization).

Bilateral Agreement (seniors complete)

-College credit that has been approved by Lakeland for your CTE program completion

-Visit Lakeland's website to see current Bilateral Agreements. [LINK](#)

-Important: Bilateral Agreement is made directly between the CTE Program and Lakeland Community College - any accepted credit transfer to another school is a bonus!!!

You can access the "Request for Transfer" form through this link:

[Lakeland Community College \(OH\) Transcript Request | Parchment](#)

Your transcript will be sent to its destination upon payment of the transfer fee and submission of the form. **Please note that each college or university makes an independent decision as to whether they will accept credit/s. Acceptance of credit is only guaranteed if you attend Lakeland. You will receive the most credit if you use it at Lakeland and stay on the same career path.**



Career Technical Education
Bilateral Credit Agreement FY2025
Program Name – Career Center

FOR OFFICE USE ONLY
LID: _____
Approved Credits: _____

STUDENT: Complete the "STUDENT" portion of this agreement.

1. Apply to [Lakeland Community College](#) as a CTE student. Once your transcript is received you will receive an email with Lakeland ID (LID) and instructions on how to get to your [myLakeland](#) account. **(Keep this for future use!)**
Enrolled CCP students do not have to reapply to Lakeland.
2. Ensure that the Lakeland Community College's Admissions Office has a copy of your final official high school transcript by **June 10th**. This transcript **MUST** be sent directly from your high school to transcripts@lakelandcc.edu.
3. Take a picture or make a copy of this agreement for your records and forward it to your high school CTE instructor by **June 1**.
4. Questions? Visit: <https://lakelandcc.edu/web/about/career-technical-education> or Email: Lucy Ott at CTE@lakelandcc.edu

NOTE: _____ It is the student's responsibility to ensure that all required documents are on file at Lakeland. Bilateral agreements must be submitted directly by the school to the Tech Prep/CTE Office. Agreements turned in by the student will NOT be accepted.

P R I N T	Last Name:	First Name:
	Home High School:	High School Graduation Year:
	If received, Lakeland ID#(LID):	Preferred E-mail Address for Notifications (print clearly):
	Student Cell:	
	I would like my Career Technical Credit Transfer (CTAG) credit and Bilateral Agreement credit posted at Lakeland CC. Yes _____ No _____ (answering YES will allow your college credit earned in high school to be posted to a college transcript.)	
Student Signature:	Date:	

INSTRUCTOR: Students must earn at least a 2.75 GPA in the CTE program to be eligible for credit. (NOTE: Credits will be verified by official HS transcript.)

This credit is processed for students who attend Lakeland.	Instructor's Initials	Lakeland Course # w/catalog link	Lakeland Course Title	Credit Hours

*Additional information noted here.

Instructor's Signature: _____ Instructor's Printed Name: _____
Date: _____ Instructor's Email: _____

*Instructor should submit this completed form to the CTE Director/Career Center Coordinator by June 10th.

CTE OFFICE VERIFICATION:

Office Use	R	Checklist
	1	Bilateral Agreement was submitted by CTE Instructor (this form)
	2	Completed HS Tech Prep/CTE Program
	3	Official HS transcript was submitted to Lakeland Community College
	4	Earned 2.75 GPA or higher in CTE Program
	5	Applied to Lakeland (during HS graduation year) or is a CCP student w/LID

Claiming Bilateral Credit (seniors apply)

1. Apply to Lakeland.

Students must apply to Lakeland during their high school graduation year, regardless of where they plan to go to college. Applying is easy and only takes a few minutes. CTE students do not have to pay the application fee. After you apply and have your official high school transcript sent, you will receive an email that contains a LID (Lakeland ID), username and password information for myLakeland account. Keep this information for future use!

Note: A Bilateral Agreement is an agreement made directly between the CTE program and Lakeland Community College.

2. Complete and return the bilateral agreement to your instructor by **JUNE 1, 2025**.

Your instructor will provide you with a bilateral agreement which needs to be filled out and signed by you and your instructor (page 1 and 2 – two sided). Then, your instructor must submit the signed agreement to the Lakeland CTE office by June 10.

3. Send Lakeland Admissions your official high school transcript.

Transcript must come directly from your high school and be sent as an official transcript to **transcripts@lakelandcc.edu**.

NOTE:

CTAG credit is awarded through a system called CTAV and is based on scores earned on the **Web Exam** Assessments.

ITAG credit is awarded through a system called ITAV and is based on earning state **approved Industry Recognized Credentials**.

Why Apply to Lakeland?

- Earn CCP credits.
- Application fee waived for CTE students.
- Creates a Lakeland transcript to post your college credits.
- Employers may request an official transcript for more pay.
- Other college may request a transcript for transfer students.
- Change your mind about college choice and return to Lakeland.
- Need to complete summer coursework.
- Professional growth coursework assigned by employer.

ODEW / CTE Announcement

On Web Exams, remind students to select the following answer:

Do you grant permission to Ohio public colleges and universities to post credit associated with the completed WebXam to your transcript if you have applied and intend to enroll at the institution?"

Students may answer either:

"Yes, I authorize the Ohio public college or university to post credit on my transcript"

Or

"No, I do not authorize the Ohio public college or university to post credit on my transcript"

Last year **416/1082 (38%)** students said no, so Lakeland was not able to post credit. Say YES!!!

ODEW / CTE Announcement

Honors Diploma now lets students substitute "student strength" options for standard requirements.

OPTIONS:

- » [College Credit Plus](#): 12 total College Credit Plus credit hours
- » [Advanced Placement](#): three courses with score of 3 or higher on AP tests
- » [Career-Technical Assurance Guide \(CTAG\)](#): 12 total credits
- » [Apprenticeship/Pre-Apprenticeship](#): Completion or Evidence of Acceptance if required to be older than 18
- » [WorkKeys](#): Score of 6 or higher on all tests (*void for Career-Tech Honors Diploma)
- » [Armed Services Vocational Battery](#): Score of 50 or above on the ASVAB
- » [Work-Based Learning](#): 250 total hours of work-based learning

ACADEMIC HONORS DIPLOMA

Requirements	State Minimum
1 Math	Fourth math must be > Algebra 2
2 Science	One additional unit Advanced Science
3 Social Studies	One additional unit Social Studies
4 World Languages	Three sequential units of one world language, or no less than 2 sequential units of two world languages studied
5 GPA	3.5 on a 4.0 scale
6 ACT/SAT	ACT: Score of 27 or higher, SAT: Score of 1280 or higher
7 Seal Requirement	Earn two additional diploma seals, not including Honors Diploma Seal
8 Experiential Learning	Field Experience & Portfolio, OhioMeansJobs Readiness Seal*, or Work-Based Learning

*Students can use OMJ Readiness Seal in 2 additional seals requirement if it is not used in Experiential Learning.

Transferring from Lakeland

- **University Partnerships – Associate Degree to Bachelor's+**

Bowling Green State University
Case Western Reserve
University
Cleveland State University
Franklin University
Hiram College
John Carroll University

Kent State University
Lake Erie College
Notre Dame College
The University of Akron
Ursuline College
Youngstown State University

- **OT-36 - Ohio Transfer 36**
 - 36 credits transfer to other colleges and universities.
 - Alignment of courses may vary depending on major.



Lakeland CCP/CTE students have transferred to public and private institutions all over the country. We've had students transfer in over 350 schools in 46 different states.

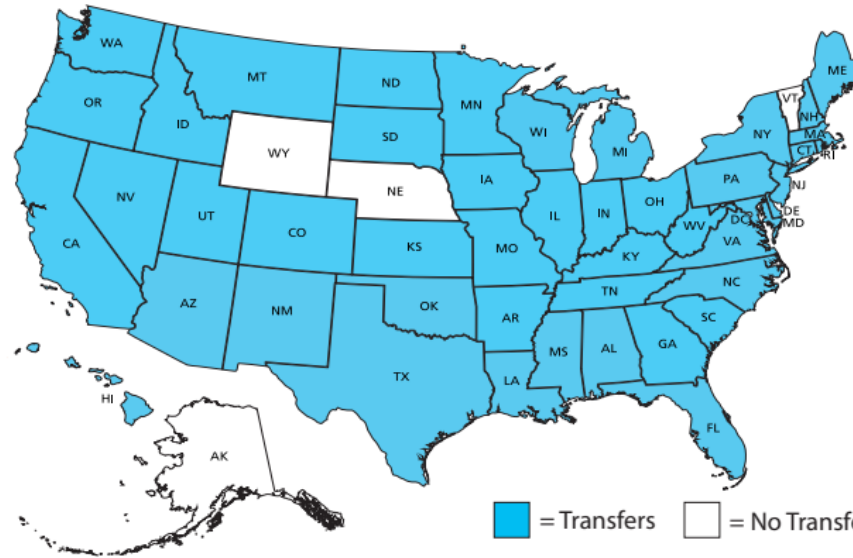
COLLEGE CREDIT PLUS

Lakeland CCP Students

Go Places!

Myth: CCP credits don't transfer!

Lakeland College Credit Plus (CCP) students have transferred to colleges in 46 different states!



Top 10 schools:

- ✓ Cleveland State University
- ✓ Kent State University
- ✓ The Ohio State University
- ✓ Ohio University
- ✓ Bowling Green State University
- ✓ University of Cincinnati
- ✓ University of Akron
- ✓ John Carroll University
- ✓ Miami University
- ✓ Lake Erie College

Myth: CCP students don't get accepted into selective institutions!



Lakeland Students Succeed

Welding Program

John Ricci - World-Skills Welding Finals
SkillsUSA

Nursing Program

Lakeland Nursing students were recognized by Cleveland Clinic as top in the region.

Honors Program

Retention rate nearly 90%, with transfers to Honor Partnership Colleges.





Success Stories

Healthcare

Histotechnology

Caitlin Kowalski

Took a human biology CCP class to earn some college credit in high school and decided to continue in the medical field. Found Histotechnology interesting and enrolled in Lakeland's 2-year program.

Caitlin says she "was excited to go to class and had a lighter load because of her **CCP classes**". Completed her clinical rotations at the Cleveland Clinic where she gained real-world experience and is currently employed.

ITCS

Computer Information Technology

Marissa Coyne

Graduated from MHS and completed the Programming and Software Development **CTE Program** in the Lake Shore Compact. Nationals for SkillsUSA and capstone at STERIS.

Completed her ATS Degree in Computer Information Technology at Lakeland and has been working at STERIS for 8 years as the Service Desk Supervisor, with 13 direct reports. Marissa says, "I have never once thought to regret my decision to forgo attending a 4-year university."

Engineering

Mechanical Engineering

Holly Warner

Attended Lakeland and then went on to **complete a Bachelors, Masters, and PhD** in Engineering at Cleveland State. She has numerous posted research articles and just finished a research post at Case Western.

As a Doctor of Philosophy in Engineering, Holly wrote her dissertation on "Simulation and Control at the Boundaries Between Humans and Assistive Robots", while she was attending Cleveland State University, Washkewicz College of Engineering.

Why continue at Lakeland CC?



Career Services

Resume writing, interview preparation, Job Fairs and job placement.



Networking

Internships, industry partnerships, student organizations, and work-based learning experiences.
[Clubs/Organizations](#)



Financial Support

Low tuition, [scholarships](#), grants and financial aid
20+ CTE students got a scholarship in 2024.
(handout for seniors)

Lakeland is 1/3 the cost of 4-year schools.



Academics

130+ academic programs, including honors programming and programs for in-demand jobs.
[Course Catalog](#)

Sports

Baseball
Basketball
Soccer
Softball
Volleyball
eSports



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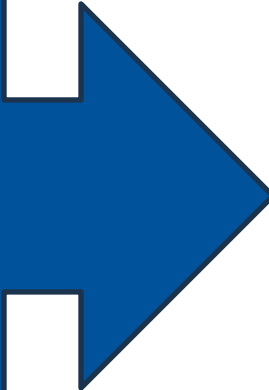
ACTIVITY

Search CTE @
lakelandcc.edu

(explore)

Click Resources for CTE

Other program activity
sheets can be found on
CTE webpage - [LINK](#)



Explore Lakeland's pathway to careers in CONSTRUCTION, MANUFACTURING, and WELDING

Request info: 

We can help you become **career focused and job ready** in the fields of Construction, Manufacturing & Welding with the following degrees and certificates:

Degrees: <ul style="list-style-type: none">• Civil Engineering Technology, AAS• Construction Management, AAS• General Manufacturing Major, AAS• Maintenance and Repair Concentration, AAS• Welding and Fabrication Technology, AAS	Certificates (cont.): <ul style="list-style-type: none">• FCAW (Flux Cored) Welding• GMAW (MIG/MAG) Welding• GTAW (TIG) Welding• Industrial Computer Hardware Technician• Pipe Welding• Production Shift Leader/Manufacturing Mgmt• SMAW (Stick) Welding• Thermal Cutting, Gouging, Brazing, and Soldering• Tool and Die Technology• Tool Room/Maintenance Machinist• Welding and Fabrication Technology I• Welding and Fabrication Technology II
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*Get your Associate of Applied Science (AAS) and transfer to a 4-year college!

Lakeland COMMUNITY COLLEGE

For more information:
Lucy Ott, CTE Coordinator
lott@lakelandcc.edu
440.525.7493


PLAN YOUR PATHWAY

Use the **Career Coach Tool** to help you match your interests with careers. Complete this chart with your chosen degree or certificate at Lakeland Community College. Be sure to cross off any AP, CCP or CTE courses that you have already taken and earned college credit for in high school.

Semester 1	Semester 2	Semester 3	Semester 4

Notes:

Shorten the time it takes to earn a college degree or certificate by speaking with your high school counselor about College Credit Plus (CCP) options.

 Scan the QR code to learn more!
Visit lakelandcc.edu/scholarships for financial aid help at Lakeland.

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Example Search - Manufacturing, AAS 61 Credits

ACADEMICS

College Catalog 2024-2025

COMPUTER INTEGRATED MANUFACTURING TECHNOLOGY

Overview

Programs

Courses

Program Name	Program Type
General Manufacturing Major (9430) , AAS	Degree
Maintenance and Repair Concentration (9439) , AAS	Degree
CNC Operator Mini Certificate (4315)	Certificate
CNC Set-Up and Programming Technology Certificate (4312)	Certificate
Computer Integrated Manufacturing Technology Certificate (4311)	Certificate
Industrial Computer Hardware Technician Certificate (4241)	Certificate
Production Shift Leader/Manufacturing Management Certificate (4351)	Certificate
Tool Room/Maintenance Machinist Certificate (4302)	Certificate
Tool and Die Technology Certificate (4303)	Certificate

ACADEMICS

College Catalog 2024-2025

GENERAL MANUFACTURING MAJOR (9430)

Overview

Program Requirements

FIRST SEMESTER		CREDIT HOURS
CIMN 1050	Blueprint Reading and Shop Math	3
CIMN 1110	Machining Processes	3
ENGL 1110 or ENGL 1111	English Composition I (A) ¹ or English Composition I (B)	3
ENGR 1000 or ENGS 1000	Introduction to Engineering Technology or Introduction to Engineering	2
FYEX 1000	First Year Experience	1
1st 8 weeks		
CIMN 1420	Computer Numerical Control Part Programming (CNC)	2
2nd 8 weeks		
CIMN 1430	Introduction to Computer Assisted Part Programming	2
Credit Hours		16
SECOND SEMESTER		
CADT 2100	Introduction to SolidWorks	3
CIMN 1210	Materials Processing	3
CIMN 1450	Programming CNC Lathes	2
CIMN 1480	Programming CNC Machining Centers	2
ENGL 1120 or BUSM 2400	English Composition II or Business Communication	3
MATH 1400	Technical Mathematics	4
Credit Hours		17
THIRD SEMESTER		
CADT 2500	Advanced SolidWorks	3
CIMN 2190	Manufacturing Methods and Costs	3
CIMN 2240	Jig and Fixture Design	2
COMM 1000 or COMM 1100	Effective Public Speaking or Effective Interpersonal Communications	3
PHYS 1550	Everyday Physics	3
Credit Hours		14
FOURTH SEMESTER		
BUSM 1300 or BUSM 1330	Introduction to Business or Business Ethics	3
CIMN 2875	Design and Manufacturing Capstone	3
QENT 1200	Quality Concepts and Techniques	2
Select course(s) from the Arts and Humanities Electives list		3
Select course(s) from the Social and Behavioral Sciences Electives list		3
Credit Hours		14
Total Credit Hours		61

¹ English course selection is based on placement test results (ENGL 1111 English Composition I (B) is 4 credits, only 3 credits apply to the degree).

Career Coach

<https://www.lakelandcc.edu/web/about/career-coach>

Academics » Career Coach

CAREER PATHWAYS AT LAKELAND

Match your interests with coursework and career paths!

Planning for your future isn't always easy. With Career Coach, we're helping you to connect the dots between what you like to do, what you want to do and what possibilities await.

Not sure what path you want to follow? Career Coach can help!

Use this tool to help you find the career path you would like to pursue and the Lakeland programs that will help you get there.

CAREER INTEREST ASSESSMENT



SEARCH LAKELAND'S 130+ ACADEMIC PROGRAMS



SEARCH CAREER PATHWAYS



High School Pathways to Lakeland

[College Credit Plus \(CCP\)](#) and [Career Technical Education \(CTE\)](#) programs provide practical and effective ways for high school students to gain valuable skills, explore career options, earn college credit and prepare for successful futures while still in high school.

Lakeland to 4-Year School Transfer Pathway

You can start at Lakeland and transfer to a 4-year college or university using Ohio Transfer 36. This means you can earn your 2-year associate degree at Lakeland and transfer to a bachelor's degree program at any public school in Ohio starting as a junior! Guaranteed transfer credits allow you to take your pick of Ohio schools where you want to continue your education.

Activity

Take the 6
Question
Assessment.

Create a
profile.

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Research Your Pathway - Example Health Science

Research how your credits will work best for the degree you wish to pursue!

Question to Ask:

How will my HS college credits affect the length of time in school and cost of college?

BE YOUR OWN ADVOCATE!!!



Secondary Pathway: Allied Health and Nursing Postsecondary Program: Respiratory Care

An Example of Courses with Secondary and Postsecondary Credits

Secondary	7 8	English I	Algebra I	Physical Science	Social Studies	Fine Arts	Health Science & Technology		
	9 10	English II	Geometry	Biology	World History	Health (.5) PE (.5)	Principles of Allied Health	World Languages	
	11	English III	Algebra II	Chemistry	U.S. History	Medical Terminology	Human Pathophysiology	World Languages	
	12	English IV	Trigonometry/Calculus	Anatomy & Physiology	U.S. Government	Patient Centered Care	Pharmacology		
Postsecondary	Year 1 1st Semester	English	College Seminar	Algebra	Intro to Clinical Experience	Human Anatomy	Intro to Respiratory Care	Medical Terminology	
	Year 1 2nd Semester	Organic & Biochemistry	Human Physiology	Therapeutic Procedures I	Clinical Practice I	Patient Assessment I	Respiratory Pharmacology	Respiratory Equipment	Cardio Anatomy & Physiology
	Year 2 1st Semester	Microbiology	Respiratory Pathophysiology I	Therapeutic Procedures II	Clinical Practice II	Patient Assessment II	Sociology	Respiratory Equipment II	
	Year 2 2nd Semester	Clinical Practicum	Respiratory Pathophysiology II	Therapeutic Procedures III	Clinical Practice III	Ethics			

High School Career-Technical Education Program Courses
High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses
Required Courses
Recommended Electives

Visit education.ohio.gov/CareerConnections for reference information.
Course titles and sequences will vary between schools.

11/2015

<https://education.ohio.gov/Topics/Career-Tech/Career-Connections/Career-Pathways>

Student - Portfolio

- What should go in a Portfolio?
 - Resume
 - Cover letter
 - Letters of recommendations
 - All certificates, badges, honors, workshops, etc.
 - Copies of Bilateral Agreement, Web Exam certificates, WBL Agreements, transcripts, etc.
- Digital AND hardcopy (could check a lot of OMJ Seal boxes)
- Be your own advocate – keep organized records and ask about your credits.

Don't just tell employers what you can do, SHOW them what you can do!!

Thank you!

Lucy Ott

Career Technical Education Coordinator

CTE@lakelandcc.org

440-525-7493

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Career Technical Education



Become career focused and job ready in a field that interests you!

Scan to learn more!

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CAREER TECHNICAL EDUCATION

7700 Clocktower Drive
Kirtland, OH 44094

MZ9/23#13324