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"Enrolled, Employed, Enlisted" is borrowed from the James C. Harden, PhD, work by the same name: Harden, J. C., PhD. (2014). Enrolled, Enlisted, Employed: A few tips your guidance counselor forgot to give you! Harden, J. C., PhD. (2014).

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# WELCOME TO RANGER PATHWAYS



Ranger Pathways is Hamilton Township High School's career exploration, preparation, and connection program. All HTHS students explore career fields that are consistent with their interests and skills; prepare for college and/or other career-specific training; and connect with businesses or municipalities for internships, apprenticeships, or other valuable work experiences.

The career pathways in this manual include the most in-demand fields in Ohio and were cooperatively designed by Hamilton Township guidance counselors, teachers, and administrators, and by Columbus State CC and our community partners, especially Obetz Jobs. Hamilton students begin understanding their career interests and skills in the sixth grade, then explore potential careers in the eighth and ninth grades. The pathways in this manual help HTHS students know how to prepare to be enrolled, employed, or enlisted upon graduation. Our students' path to graduation and career success begins with Ranger Pathways.

EXPLORE

TO BE

ENROLLED.

EMPLOYED.

ENLISTED\*

\*James C. Harden, PhD

## HOW TO USE THIS GUIDE

ACTUARY

COMPENSATY TS MANAGER

MOST IN-DEMAND JOBS IN OHIO IN THIS CAREER FIELD

CUSTOMER SERV, APPRESENTATIVE

**ENERGY BROKER** 

FINANCIAL ANALYST

BUSINESS AND ADMINISTRATIVE SYSTEMS



TITLES MATCH OHIO MEANS JOBS CAREER FIELDS



Administration, Management, Finance, & Insurance

People in these occupations keep a be operations of a business. They may k Some make sure that a business has do their jobs. Others take care of dail keep things organized.

ELECTIVES A STUDENT SHOULD TAKE FOR THIS CAREER FIELD ined to and gov/

#### PATHWAY COURSES

STUDENTS IN THIS CAREER FIELD NEED TO TAKE THESE CORE COURSES

Core

lish I, II, III, IV g I, Geom, Alg II, Pre-Calc or Stats hys Sci, Bio I Vorld Hist, Am Hist, Govt

<sup>3</sup>oquired

ersonal Finance

#### Recommended

Business Management Business and Tech in 21st Century Any third HTHS science course



THESE ACTIVITIES
ARE IDEAL
CAREER FIELD
EXPERIENCES
BEFORE
GRADUATION

TEAM ASSEMBLER

TREASURER

WHOLESALE & RETAIL BUYER

#### SUGGESTED ACTIVITIES

- Job Shadowing
- Internship
- Apprenticeship



- Graphic Design College Tech
   Prep [Eastland Career Center]
- Medical Office Technologies

EASTLAND-FAIRFIELD CAREER FIELD PROGRAMS



## HOW TO USE THIS GUIDE

## RANGER PATHWAYS SCHEDULE

Grades K-5: Teachers occasionally use instructional materials that enthuse students about careers. Instruction about careers is purposeful, documented, coordinated within and between buildings, and presented without bias or exclusion. Instruction and discussion is age appropriate and anxiety-free. Teachers work with principals to schedule career speakers.

Grade 6: Career exploration is embedded in curriculum, rather than standalone efforts. Students get their first exposure to OhioMeansJobs (OMJ). After creating an OMJ K12 account, each student explores the OMJ Backpack.

Grade 7: All students take the Career Cluster Inventory and begin exploring careers that support the top results of their Inventory.

Grade 8: All students explore the Ranger Pathways Career Guide and schedule classes with College Credit Plus and/or credential pathways



## RANGER PATHWAYS SCHEDULE

Grade 9: Students design their high school experience around their career interest and goals. They continue to explore a variety of careers and are encouraged to consider many careers that align to their interests and skills. The focus is on identifying specific career fields that they can pursue while in high school. Students draft and update a resume in their Ohio Means Jobs (OMJ) Backpack. Students build their Student Success Plan (SSP). The OMJ Backpack is updated as necessary during ADVISORY. College Credit Plus classes are scheduled to support career plans. Excel on your End-of-Courses exams. Meet with a guidance counselor.

OMJ Backpack work that begins in grade 9 continues through grade 12. Begin Career Cluster Inventory, Career Plans, Assessments and Training, Programs I'm Interested In, Schools I'm Interested In, Schoolarships I'm Interested In, Explore and save 10 jobs, calculate your target salary, and complete a career profile.

Grade 10: Students are identified and referred as PSAT-ready to take the PSAT. Students begin shadowing experiences. Language Arts classes should include opportunities to research and report on career interests and issues within the careers. Continue OMJ Backpack work. Consider applying to the Eastland-Fairfield Career and Technical Schools. Visit Eastland-Fairfield. Take more CCP classes. Update resume. Meet with a guidance counselor.

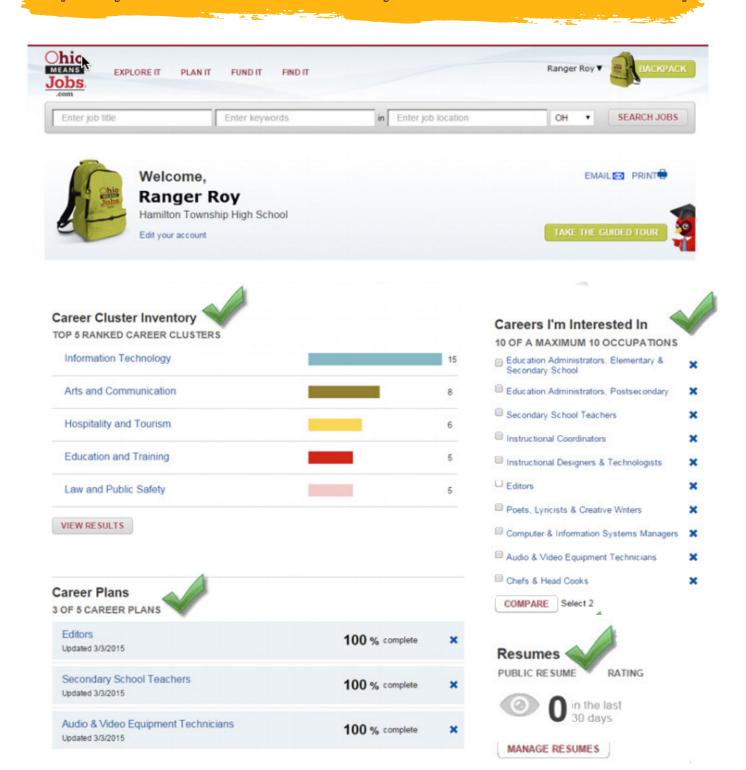
Grade 11: All students take the SAT. Sign-up for the ACT, too. Use the assessments in the OMJ Backpack to prepare for the SAT, ACT, and other tests. Visit colleges. Begin an internship or apprenticeship. Consider a career in the U.S. Military. Work on your OMJ Backpack. Update resume. Meet with a guidance counselor.

Grade 12: Complete the FAFSA form. Complete college applications. Request recommendations and transcripts. Update resume. Complete all OMJ Backpack work and wrap-up all work Pathways activities from previous grades.



## OHIO MEANS JOBS BACKPACK

https://jobseeker.k-12.ohiomeansjobs.monster.com/seeker.aspx



## OHIO MEANS JOBS BACKPACK

CREATE A NEW CAREER PLAN

#### Assessments and Training

COMPLETED ASSESSMENTS

ACT® English Practice Test 1 SAT® Critical Reading Practice Test 1 Firefighter Practice Test 1

SCORE 32/36

COMPLETION DATE 3/3/2015

760/800 3/3/2015 92/100 3/3/2015

VIEW TESTS

#### Programs I'm Interested In

OHIO-BASED EMPLOYMENT PROGRAMS

State Share of Instruction (SSI)

OhioMeansJobs.com

iLearn Ohio (previously Ohio Learning Network) - Digital education

Choose Ohio First Scholarship

Career Based Intervention (CBI)

#### Schools I'm Interested In

5 OF A POSSIBLE 10 SCHOOLS AND PROGRAMS

Ohio State University-Main Campus

Program: English Language and Literature, General
Occupation: Secondary School Teachers, Except Special and Career/Technical Education

Ohio Dominican University

Program: English Language and Literature. General Occupation: Secondary School Teachers, Except Special and Career/Technical Education

Miami University-Oxford

Program: English Language and Literature, General Occupation: Secondary School Teachers, Except Special and Career/Technical Education

Muskingum University

English Language and Literature, General Occupation: Secondary School Teachers, Except Special and Career/Technical Education

Capital University

English Language and Literature, General

Occupation: Secondary School Teachers, Except Special and Career/Technical Education

If you're looking at schools, you can save up to ten here. Look for a school by clicking the "Education and Training" link on an occupation page.

SEARCH OCCUPATIONS

#### Scholarships I'm Interested In



10 OF 50 SCHOLARSHIPS CollegeSTEPS Sweepstakes

E-waste Scholarship

\$1,000 CollegeWeekLive Scholarship Giveaway

Delete Cyberbullying Scholarship Award

CKSF Scholarship Competition

You can view and manage your saved scholarships here. To find additional opportunities for educational assistance, click the 'Search Scholarships' link on your Saved Scholarships page.

VIEW SCHOLARSHIPS

#### For your Job Search

SAVED SEARCHES

of possible 10 searches

VIEW SEARCHES

#### JOBS I'VE SAVED

of possible 50 saved jobs



VIEW JOBS

#### JOBS I'VE APPLIED TO

in the last 30 days



VIEW JOBS

#### Documents

LATEST 5 OF MAXIMUM 15 DOCUMENTS

VIEW ALL DOCUMENTS

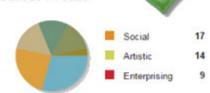
#### **Target Salary**

\$32,361

Based on your expenses.

VIEW / EDIT EXPENSES

#### Career Profile



VIEW / EDIT RESULTS

#### AGRICULTURAL EQUIPMENT OPERATOR

AGRICULTURAL TECHNICIAN

ANIMAL BREEDER

ANIMAL SCIENTIST

ANIMAL TRAINER

AQUACULTURAL MANAGER

**FALLER FARM & RANCH MANAGER** 

FARM EQUIPMENT MECHANIC

SERVICE TECHNICIAN

FARMWORKER & LABORER, CROP

FARMWORKER, FARM, RANCH, & AQUACULTURAL

ANIMAL FIRST-LINE SUPERVISOR
OF AGRICULTURAL CROP

HORTICULTURAL WORKER

FIRST-LINE SUPERVISOR OF ANIMAL HUSBANDRY

ANIMAL CARE WORKER

FIRST-LINE SUPERVISOR
OF AQUACULTURAL WORKERS

FIRST-LINE SUPERVISOR OF LOGGING WORKERS

FISHER - RELATED FISHING WORKER
FOOD SCIENCE TECHNICIAN

**FOREST & CONSERVATION WORKER** 

**HUNTER - TRAPPER** 

NURSERY & GREENHOUSE MANAGER/WORKER

PESTICIDE HANDLER, SPRAYER, & APPLICATOR, VEGETATION

#### AGRICULTURE AND ENVIRONMENTAL SYSTEMS









#### Farming, Forestry, Fishing & Hunting

People in these occupations raise plants and animals as sources for food and shelter. They also focus on selling and making products from plants and animals. They may provide advice and services that farmers and ranchers need to improve products. They may work to conserve natural resources and protect the environment.

http://omj.ohio.gov/

#### PATHWAY COURSES

#### Core

English I, II, III, IV
Alg I, Geom, Alg II, Pre-Calc or Stats
Phys Sci, Bio I
World Hist, Am Hist, Govt

#### Recommended

**Environmental Science Healthy and Safe Foods** 

#### Required

**Personal Finance** 

## SUGGESTED ACTIVITIES

- Job Shadowing
- Internship
- Apprenticeship



 Environmental Science [Satellite Program at New Albany HS]





# College Credit Plus Industry Credentials

#### Partners

## College Credit Plus

Landscape Design & Management

	COURSE	CREDII
LAND 116 <b>0</b>	Landscape Principles	2
LAND 1165	Landscape Survey	Space .
LAND 1565	Landscape Graphics	2
HORT 1130	Plant Sciences	3
ENGL 1100	Composition I	3



This is the recommended course pathway for gaining college credit while in high school through Columbus State, our college partner. Through the College Credit Plus program you can take free courses for credit through any Ohio community college or university.

## 

One pathway to graduation is earned through preparing for and passing tests that are aligned with skills in this pathway. You can graduate when you earn 20.5 credits, 12 points on the tests in this career field, and you pass the WorkKeys assessment.

## Industry Credentials CREDENTIAL TEST POINTS

Ohio Certification Nursery Technician	4-12
NCCER Level 1	6
HAZWOPER [multiple certifications]	1-6
OSHA 10 or 20-Hour Training / CPR First Aid	1 each





COLUMBUS STATE

TELECOMMUNICATIONS EQUIPMENT INSTALLERS AND REPAIRERS

**GRAPHIC DESIGNERS** 

COMPUTER USER
SUPPORT SPECIALISTS

INFORMATION SECURITY ANALYSTS

PREPRESS TECHNICIANS AND WORKERS

COMPUTER AND INFORMATION
SYSTEMS MANAGERS

WEB DEVELOPERS

SOFTWARE DEVELOPERS (APPLICATIONS)

COMPUTER NETWORK ARCHITECTS

SOFTWARE DEVELOPERS
(SYSTEMS SOFTWARE)

DATABASE ADMINISTRATORS

**ELECTRONICS ENGINEERS** 

**TECHNICAL WRITERS** 

COMPUTER PROGRAMMERS

**ENERGY BROKERS BROADCAST** 

NEWS ANALYSTS RADIO AND TELEVISION ANNOUNCERS

ACTORS

CAMERA OPERATORS

**COPY WRITERS** 

AUDIO AND VIDEO
EQUIPMENT TECHNICIANS

TELECOMMUNICATIONS LINE INSTALLERS AND REPAIRERS

**GREEN MARKETERS** 

### ARTS AND COMMUNICATIONS



#### Information, Technology, Media, and Communication

People in these occupations are performers and artists. They may work behind the scenes to make the performance or publication happen. They use creativity, talent, and technical skills. They can produce and distribute information and cultural products; provide the means to transmit or distribute products as well as data or communications; and process data.

http://omj.ohio.gov/

#### PATHWAY COURSES

#### Core

English I, II, III, IV Alg I, Geom, Alg II, Pre-Calc or Stats Phys Sci, Bio I World Hist, Am Hist, Govt

#### Required

**Personal Finance** 

#### Recommended

Web Page Design
Creative Writing
Web Page Design
Modern Communications
Business and Tech in 21st Century
Any third HTHS science course

# SUGGESTED ACTIVITIES

- Job Shadowing
- Internship
- Apprenticeship



- Graphic Design College Tech Prep [Eastland Career Center]
- Performing Arts [Satellite Program at Reynoldsburg HS





# College Credit Plus

Industry Credentials

Partners

## College Credit Plus

**Digital Design** and Graphics

<del>-</del>	٠
REDIT:	

DDG 1100 Introduction to Computer Design 3 DDG 1101 Survey of Digital Design 3 Composition I **ENGL 1100** 3 **MATH 1116** 

Math for Liberal Arts



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One pathway to graduation is earned through preparing for and passing tests that are aligned with skills in this pathway. You can graduate when you earn 20.5 credits, 12 points on the tests in this career field, and you pass

#### Industry Credentials POINTS

4-12 Adobe Tools [multiple certifications] PrintEd ProTools 4-12

OSHA 10 or 20-Hour Training / CPR First Aid



the WorkKeys assessment.



COLUMBUS STATE

1 each

ACTUARY

COMPENSATION & BENEFITS MANAGER

COMPUTER & INFORMATION
SYSTEMS MANAGER

COMPUTER NETWORK ARCHITECT

**COMPUTER SYSTEMS ANALYST** 

CREDIT ANALYST

**CUSTOMER SERVICE REPRESENTATIVE** 

**ENERGY BROKER** 

FINANCIAL ANALYST

FINANCIAL MANAGER

FIRST-LINE SUPERVISOR OF HOUSEKEEPING AND JANITORIAL

**FOOD SCIENTIST** 

HELPER-PRODUCTION WORKER

**HUMAN RESOURCE MANAGER** 

INDUSTRIAL TRUCK
& TRACTOR OPERATOR

INSURANCE CLAIMS CLERK

MARKETING MANAGER

OFFICE CLERK

**OPERATIONS RESEARCH ANALYST** 

PACKAGING & FILLING
MACHINE OPERATOR - TENDER

PRECISION AGRICULTURE TECHNICIAN

SALES AGENT

TEAM ASSEMBLER

**TREASURER** 

WHOLESALE & RETAIL BUYER

#### BUSINESS AND ADMINISTRATIVE SYSTEMS



#### Administration, Management, Finance, & Insurance

People in these occupations keep a business running. They direct the operations of a business. They may keep track of the expenses and income. Some make sure that a business has qualified employees who are trained to do their jobs. Others take care of daily tasks to meet customer needs and keep things organized.

http://omj.ohio.gov/

#### PATHWAY COURSES

#### Core

English I, II, III, IV Alg I, Geom, Alg II, Pre-Calc or Stats Phys Sci, Bio I World Hist, Am Hist, Govt

#### Required

**Personal Finance** 

#### Recommended

Business Management
Business and Tech in 21st Century
Any third HTHS science course



## SUGGESTED ACTIVITIES

- Job Shadowing
- Internship
- Apprenticeship



- Graphic Design College Tech Prep [Eastland Career Center]
- Medical Office Technologies [Eastland Career Center]
- Marketing and Logistics Management [Eastland Career Center]



# College Credit Plus

Industry Credentials

Partners

## College Credit Plus

Business Management





FMGT 1101 Personal Finance 3 ENGL 1100 Composition I 3 1101

Computer Concepts & Applications 3

Principles of Business 3

Interpersonal Skills

This is the recommended course pathway for gaining college credit while in high school through Columbus State, our college partner. Through the College Credit Plus program you can take free courses for credit through any Ohio community college or university.



BMGT 1101

BMGT 1102

# Industry Credentials CREDENTIAL TEST POINTS

One pathway to graduation is earned through preparing for and passing tests that are aligned with skills in this pathway. You can graduate when you earn 20.5 credits, 12 points on the tests in this career field, and you pass the WorkKeys assessment.

Microsoft Office Specialists [multiple certifications]	3 each
OSHA 10-Hour Training	Special Specia
OSHA 30-Hour Training	Corrells





CPR First Aid

BRICKMASONS AND BLOCKMASONS

**CONSTRUCTION CARPENTERS** 

CONSTRUCTION LABORER

CONSTRUCTION MANAGERS

CONTROL AND VALVE INSTALLERS
AND REPAIRERS

ELECTRICAL POWER-LINE INSTALLERS
AND REPAIRERS

ELECTRICIANS FIRE-PREVENTION
AND PROTECTION ENGINEERS

FIRST-LINE SUPERVISORS OF CONSTRUCTION TRADES AND EXTRACTION WORKERS

HEATING AND AIR CONDITIONING MECHANICS AND INSTALLERS

INDUSTRIAL SAFETY
AND HEALTH ENGINEERS

MILLWRIGHTS

MOBILE HEAVY EQUIPMENT MECHANICS

OPERATING ENGINEERS AND OTHER CONSTRUCTION EQUIPMENT

OPERATORS PAINTERS,
CONSTRUCTION, AND MAINTENANCE

PIPE FITTERS AND STEAMFITTERS

**PLUMBERS** 

**PRODUCT SAFETY ENGINEERS** 

REFRIGERATION MECHANICS
AND INSTALLERS

**ROUGH CARPENTERS** 

**SOLDERS AND BRAZERS** 

WELDERS, CUTTERS, AND WELDER FILTERS



#### **Construction Technologies**

People in these occupations are responsible for designing and constructing buildings and other structures such as highways and bridges. They may also take care of, repair, and restore existing structures.

http://omj.ohio.gov/

#### PATHWAY COURSES

#### Core

English I, II, III, IV
Alg I, Geom, Alg II, Pre-Calc or Stats
Phys Sci, Bio I
World Hist, Am Hist, Govt

#### Required

**Personal Finance** 

#### Recommended

Three-Dimensional
Design Sculpture/Ceramics
Homeowner's Ed
Fundamentals of Technology
Advanced Tech I, II, III
Any third HTHS science course

# SUGGESTED ACTIVITIES

- Job Shadowing
- Pre-Apprenticeship Program with:





- Architecture/Construction
   Management[Satellite Program at
   Gahanna-Lincoln HS]
- Construction Technologies [Fairfield Career Center]
- Electrical Technologies
   [Eastland Career Center]
- HVAC & Refrigeration [Fairfield Career Center]



## College Credit Plus

Industry
Credentials

#### Partners

12

12

1 each

(	Colleg		onstruction anagement CREDI
	CMGT 1105	Construction Documents	3
	CMGT 1115	Construction Methods	3
	CMGT 1121	Construction Drawings	3
	CIVL 1120	Construction Material Science	3
	ENGL 1100	Composition I	3



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One pathway to graduation is earned through preparing for and passing tests that are aligned with skills in this pathway. You can graduate when you earn 20.5 credits, 12 points on the tests in this career field, and you pass the WorkKeys assessment.

## Industry Credentials CREDENTIAL TEST POINTS

HVAC Universal; Electronics; Journeyman

Electrical Trades Pre-Apprenticeship Program

CCP

AutoCAD; NCCER Core; HAZWOPER

OSHA 10 or 30-Hour Training / CPR First Aid







ADAPTED PHYSICAL EDUCATION SPECIALISTS

ART, DRAMA, AND MUSIC TEACHERS,
POSTSECONDARY

BUS DRIVERS, SCHOOL OR SPECIAL CLIENT

**BUSINESS CONTINUITY PLANNERS** 

CHILD, FAMILY, AND SCHOOL SOCIAL WORKERS

**COACHES AND SCOUTS** 

DATABASE ADMINISTRATORS

EDUCATION ADMINISTRATORS, PRESCHOOL AND CHILDCARE CENTER/PROGRAM

EDUCATIONAL, GUIDANCE, SCHOOL, AND VOCATIONAL COUNSELORS

**ENERGY AUDITORS** 

EXECUTIVE SECRETARIES AND EXECUTIVE ADMINISTRATIVE ASSISTANT

INTERPRETERS AND TRANSLATORS

NETWORK AND COMPUTER SYSTEMS ADMINISTRATORS

NURSING INSTRUCTORS
AND TEACHERS, POSTSECONDARY

OCCUPATIONAL THERAPISTS

**PUBLIC RELATIONS SPECIALISTS** 

REMOTE SENSING TECHNICIANS

SCHOOL TEACHERS

SPECIAL EDUCATION TEACHERS

**SPEECH LANGUAGE PATHOLOGISTS** 

STATISTICIANS TRAINING AND DEVELOPMENT SPECIALISTS

#### EDUCATION AND TRAINING



#### Education, Business, and Administrative Services

People in these occupations help others to learn new knowledge and skills. They educate and instruct in many settings most often in schools, colleges, universities, and training centers.

http://omj.ohio.gov/

#### PATHWAY COURSES

#### Core

English I, II, III, IV Alg I, Geom, Alg II, Pre-Calc or Stats Phys Sci, Bio I World Hist, Am Hist, Govt

#### Required

**Personal Finance** 

#### Recommended

Sociology
Modern Communications
Debate
Child Development
Healthy Living
Health and Advanced Health
Web Page Design
Any third HTHS science course

# SUGGESTED ACTIVITIES

- Job Shadowing
- Internship
- Apprenticeship



 Teaching Professions [Satellite Program at Gahanna Lincoln HS]





# College Credit Plus Industry Credentials

#### Partners

## College Credit Plus

Early Childhood Dev & Education

	COURSE	CREDIT
ECDE 1101	Early Childhood Curriculum	3
ECDE 1105	Social, Emotional, Dev & Curriculum	3
ENGL 1100	Composition I	3
PSY 1100	Introduction to Psychology	3



This is the recommended course pathway for gaining college credit while in high school through Columbus State, our college partner. Through the College Credit Plus program you can take free courses for credit through any Ohio community college or university.



## Industry Credentials CREDENTIAL TEST POINTS

One pathway to graduation is earned through preparing for and passing tests that are aligned with skills in this pathway. You can graduate when you earn 20.5 credits, 12 points on the tests in this career field, and you pass the WorkKeys assessment.

CREDENIIAL IESI	POINT:
Child Development Associate Credential (CDA)	12
OSHA 10-Hour Training	- Constitution of the Cons
OSHA 30-Hour Training	(Security)
CDD Firet Aid	diam.





COLUMBUS STATE

AEROSPACE ENGINEERING AND OPERATIONS TECHNICIANS

ARCHITECTURAL AND ENGINEERING TECHNICIANS

ARCHITECTURAL DRAFTERS

**BIOCHEMICAL ENGINEERS** 

**BIOMEDICAL ENGINEERS** 

CHEMIST CIVIL DRAFTERS

CIVIL ENGINEERING TECHNICIANS

CIVIL ENGINEERS COMMERCIAL
AND INDUSTRIAL

**DESIGNERS** 

**ELECTRICAL ENGINEERS** 

**ELECTRONICS ENGINEERS** 

**ENERGY AUDITORS** 

**ENERGY BROKERS** 

ENVIRONMENTAL SCIENTISTS AND SPECIALISTS, INCLUDING HEALTH

GEOSPATIAL INFORMATION SCIENTISTS

AND TECHNOLOGISTS

GRAPHIC DESIGNER

INDUSTRIAL ENGINEERS

MANUFACTURING PRODUCTION TECHNICIANS

MATERIALS ENGINEERS

MECHANICAL DRAFTERS

**PHOTONICS ENGINEERS** 

SEARCH MARKETING STRATEGISTS

SOLAR ENERGY SYSTEMS ENGINEERS

## ENGINEERING AND SCIENCE TECHNOLOGIES



#### Professional, Science, and Technical

People in these occupations may do scientific research in laboratories or the field. They may also help in the planning or design of products and systems. They may provide technical support to the scientists, mathematics, and engineers.

http://omj.ohio.gov/

#### PATHWAY COURSES

#### Core

English I, II, III, IV Alg I, Geom, Alg II, Pre-Calc or Stats Phys Sci, Bio I World Hist, Am Hist, Govt

#### Required

**Personal Finance** 

#### Recommended

**Graphic Design Chemistry [All upper level sciences]** 



# SUGGESTED ACTIVITIES

- Job Shadowing
- Internship
- Apprenticeship



Bioscience Technologies
 [Satellite Program at Gahanna
 Lincoln HS]



## College Credit Plus Industry Credentials

#### Partners

## College Credit Plus

**Digital Design** and Graphics

	COURSE	CREDIT
MECH 1150	Manufacturing Materials & Processes	3
ENGT 1115	Engineering Graphics	3
ITST 1101	Industrial Applications & Software	2
MATH 1113	Technical Mathematics	5



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## Industry Credentials

One pathway to graduation is earned through preparing for and passing tests that are aligned with skills in this pathway. You can graduate when you earn 20.5 credits, 12 points on the tests in this career field, and you pass the WorkKeys assessment.

Ohio Pressure Boiler Licenses; Steam Engineer	12
Power Engineer; NICET Level II Cert; ASQ Quality Inspector	
AutoCAD Pro; CSWP; Fanuc; Motoman; NCCER	6

AutoCAD User: Certified Solid Works Associate





**ALLERGISTS AND IMMUNOLOGISTS** 

**ANESTHESIOLOGIST** 

**DENTAL ASSISTANTS AND HYGIENISTS** 

**DERMATOLOGISTS** 

EMERGENCY TECHNICIANS
AND PARAMEDICS

**FAMILY AND GENERAL PRACTITIONERS** 

INTERPRETERS AND TRANSLATORS

MEDICAL AND CLINICAL
LAB TECHNICIANS

MEDICAL AND HEALTH SERVICES

MANAGERS

MEDICAL ASSISTANTS

MEDICAL RECORDS AND HEALTH INFORMATION TECHNICIANS

MEDICAL SECRETARIES

MENTAL HEALTH COUNSELORS

**NEUROLOGISTS** 

OCCUPATIONAL THERAPY ASSISTANTS

**OPHTHALMOLOGISTS** 

PHARMACY TECHNICIANS

**PHLEBOTOMISTS** 

PREVENTIVE MEDICINE

**PHYSICIANS** 

**RADIOLOGISTS** 

**REGISTERED NURSES** 

REHABILITATION COUNSELORS

SPORTS MEDICINE PHYSICIANS

SURGEONS

#### HEALTH



#### Health Science, Care, and Counseling

People in these occupations use medical knowledge and skills. They check the health of patients and correct problems with surgery, treatment, or therapy. Some carry out treatments, therapies, and tests approved by doctors. They may do record keeping and other support activities such as social assistance.

http://omj.ohio.gov/

#### PATHWAY COURSES

#### Core

English I, II, III, IV
Alg I, Geom, Alg II, Pre-Calc or Stats
Phys Sci, Bio I
World Hist, Am Hist, Govt

#### Recommended

Health Advanced Health Healthy Living Healthy and Safe Foods Child Development Sociology Chem I and Chem II AP Biology

#### Required

**Personal Finance** 

## SUGGESTED ACTIVITIES

- Job Shadowing
- Internship
- Apprenticeship



- Dental Assisting [Eastland and Fairfield Career Centers]
- Exercise Science [Eastland Career Center]
- Pre-Nursing [Fairfield Career Center]





# College Credit Plus Industry

#### Partners

## College Credit Plus

CREDIT Pharmacology Concepts in Nursing Fundamental Concepts of Nursing Care Quantitative Literacy 3

Basic Care Skills NURC 1104





This is the recommended course pathway for gaining college credit while in high school through Columbus State, our college partner. Through the College Credit Plus program you can take free courses for credit through any Ohio community college or university.

## 

**NURS 1140** 

**NURS 1871** 

MATH 1025

One pathway to graduation is earned through preparing for and passing tests that are aligned with skills in this pathway. You can graduate when you earn 20.5 credits, 12 points on the tests in this career field, and you pass the WorkKeys assessment.

# Industry Credentials CREDENTIAL TEST POINTS

AOA Paraoptometric Assistant	12
AHIMA Coding Specialists; AMT Phlebotomy Tech	
AMT Dental Assistant; AMT Lab Tech	12
National Health Care (multiple certifications)	12





COLUMBUS STATE

BAKERS BARISTAS

CASHIERS

CHEFS AND HEAD COOKS

CONCIERGES COOKS, RESTAURANT

COOKS, SHORT ORDER

**DISHWASHERS** 

**DRIVERS/SALES WORKERS** 

FIRST-LINE SUPERVISORS OF FOOD PREPARATION AND SERVING WORKERS

FIRST-LINE SUPERVISORS OF HOUSEKEEPING AND JANITORIAL WORKERS

FOOD SERVICE MANAGERS

GAMING CHANGE PERSONS AND SERVING
WORKERS, INCLUDING
FAST FOOD

GAMING MANAGERS

**GAMING SUPERVISORS** 

GAMING SURVEILLANCE OFFICERS AND GAMING INVESTIGATORS

HOSTS AND HOSTESSES, RESTAURANT, LOUNGE, AND COFFEE SHOP

HOTEL, MOTEL, AND RESORT DESK CLERKS

LAUNDRY AND DRY-CLEANING WORKERS

LODGING MANAGERS

MAIDS AND HOUSEKEEPING CLEANERS

MEETING, CONVENTION, AND EVENT PLANNERS

PUBLIC ADDRESS SYSTEM AND OTHER ANNOUNCERS

## HOSPITALITY AND TOURISM



#### Hotel and Food

People in these occupations work to satisfy the needs and wants of customers. They might take orders or prepare food in a restaurant. They might clean rooms in a hotel or supervise employees. They might guide students on a trip to another country.

http://omj.ohio.gov/

#### PATHWAY COURSES

#### Core

English I, II, III, IV
Alg I, Geom, Alg II, Pre-Calc or Stats
Phys Sci, Bio I
World Hist, Am Hist, Govt

#### Required

**Personal Finance** 

#### Recommended

Sociology
History of My Generation
Spanish or French
Healthy and Safe Foods
Healthy Living
Child Development
Fashion and Interior
Design Global History and Cultures
Any third HTHS science course

## SUGGESTED ACTIVITIES

- Job Shadowing
- Internship
- Apprenticeship



 Culinary Arts Academy [Eastland Career Center]





College
Credit Plus
Industry
Credentials

Partners

## College Credit Plus

Hotel, Tourism, and Event Management

	COURSE	CREDIT:
HOSP 1145	Lodging Operations	3
HOSP 1154	Tourism Geography	3
ENGL 1100	Composition I	3
MATH 1104	Math Concepts for Business	3



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## 

One pathway to graduation is earned through preparing for and passing tests that are aligned with skills in this pathway. You can graduate when you earn 20.5 credits, 12 points on the tests in this career field, and you pass the WorkKeys assessment.

## Industry Credentials CREDENTIAL TEST POINTS

distribution of	ANFP - Certified Dietary Manager (CDM)	12
distributed a	ACF - Certified Culinarian (CC)	9
"Electricality	ProStart Certificate of Achievement	9
The section	ServSafe	3





COLUMBUS STATE

ADMINISTRATIVE SERVICES MANAGERS

**ALLERGISTS AND IMMUNOLOGIST** 

**BILL AND ACCOUNT COLLECTORS** 

EMERGENCY MEDICAL TECHNICIANS
AND PARAMEDICS

FAMILY AND GENERAL PRACTITIONERS

FIRST-LINE SUPERVISORS OF OFFICE AND ADMIN SUPPORT WORKERS

**HEALTH CARE SOCIAL WORKERS** 

**HUMAN RESOURCES MANAGER** 

MEDICAL AND HEALTH SERVICES MANAGER

**MEDICAL ASSISTANTS** 

MEDICAL RECORDS AND HEALTH INFORMATION TECHNICIANS

MEDICAL SECRETARIES

MENTAL HEALTH AND SUBSTANCE
ABUSE SOCIAL WORKERS

MENTAL HEALTH COUNSELORS

OCCUPATIONAL THERAPY ASSISTANTS

OFFICE CLERKS, GENERAL

OPHTHALMIC MEDICAL TECHNOLOGISTS

**OPHTHALMOLOGISTS** 

**PHARMACISTS** 

**PHARMACY TECHNICIANS** 

PREVENTIVE MEDICINE PHYSICIANS

**RADIOLOGIST** 

**REGISTERED NURSES** 

**UROLOGISTS** 

#### HUMAN SERVICES



#### Health Care and Counseling

People in these occupations work with individuals and families to meet their personal needs. They might provide mental health care in hospitals clinics, schools, or private offices. They might care for people who are elderly or disabled. They might give manicures, pedicures, or scalp and facial treatments.

nttp://omj.ohio.gov/

#### PATHWAY COURSES

#### Core

English I, II, III, IV Alg I, Geom, Alg II, Pre-Calc or Stats Phys Sci, Bio I World Hist, Am Hist, Govt

#### Recommended

Sociology Healthy and Safe Foods Any third HTHS science course

#### Required

**Personal Finance** 

# SUGGESTED ACTIVITIES

- Job Shadowing
- Internship
- Apprenticeship



 Cosmetology [Eastland and Fairfield Career Centers]





## College Credit Plus Industry Credentials

#### Partners

## College Credit Plus

**Health Information** 

	COURSE	CREDII
HIMT 1111	Introduction to HIM	2
HIMT 1133	Legal Aspects of Health Information	2
HIMT 1135	Health Data Management	3
CSCI 1001	Computer Fundamentals	2
ENGL 1100	Composition I	3



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# Industry Credentials CREDENTIAL TEST POINTS

Ohic	State Board of Cosmetology - Esthetician	12
Ohio	State Board of Cosmetology - License of Cosmetology	12
Ohio S	tate Board of Cosmetology - Managing Cosmetologist	12
Ohio	State Board of Cosmetology - Manicurist	12





**ACTORS** 

AUDIO AND VIDEO
EQUIPMENT TECHNICIANS

**BROADCAST NEWS ANALYSTS** 

CAMERA OPERATORS, TELEVISION, VIDEO, AND MOTION PICTURE

COMPUTER AND INFORMATION
SYSTEMS MANAGERS

COMPUTER NETWORK SUPPORT SPECIALISTS

COMPUTER NETWORK ARCHITECTS

**COMPUTER PROGRAMMERS** 

COMPUTER USER
SUPPORT SPECIALISTS

**COPY WRITERS** 

DATABASE ADMINISTRATORS

**ELECTRONICS ENGINEERS** 

**ENERGY BROKERS** 

**GRAPHIC DESIGNERS** 

INFORMATION SECURITY ANALYSTS

NETWORK AND COMPUTER SYSTEMS ADMINISTRATORS

PREPRESS TECHNICIANS AND WORKERS

RADIO AND TELEVISION ANNOUNCERS

SALES ENGINEERS

SOFTWARE DEVELOPERS (SYSTEMS SOFTWARE)

SOFTWARE DEVELOPERS (APPLICATIONS)

TELECOMMUNICATIONS EQUIPMENT INSTALLERS AND REPAIRERS

## INFORMATION TECHNOLOGIES



#### Information Technology, Media, and Communication

People in these occupations work with computer hardware, software, multimedia, and network systems. They might design new computer equipment or computer games. They might make sure that the software or networks are working correctly. They might make sure that people know how to use the technology.

http://omj.ohio.gov/

#### PATHWAY COURSES

#### Core

English I, II, III, IV Alg I, Geom, Alg II, Pre-Calc or Stats Phys Sci, Bio I World Hist, Am Hist, Govt

#### Required

**Personal Finance** 



#### Recommended

Modern Communications
Web Page Design
Graphic Design
Business and Tech in 21st Century
Physics

## SUGGESTED ACTIVITIES

- Job Shadowing
- Internship
- Apprenticeship



- Computer & Network Support Tech [Fairfield Career Center]
- Interactive Media [Eastland Career Center]
- Multimedia [Satellite Program at North Pickerington HS]
- Programming & Software Dev. [Eastland Career Center]



# College Credit Plus

Industry Credentials

Partners

## College Credit Plus

**Information Tech Support** 

E	CREDIT

ITST 1101 Industrial Applications and Software 2 Industrial Network Communications **ITST 1102** 2 Principals of Business **BMGT 1101** 3 Interpersonal Skills BMGT 1102 **BMGT 1111** Management



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## Industry Credentials

of the design	Certified Information Systems Security (CISSP)	12
" Sandana	CISCO Associate or Professional [multiple certifications]	12
Why way and a	Microsoft, Oracle, CompTIA, ITiL (various certifications)	6-12
- Block	Adobe, ProTools, Microsoft, IC3 (various certifications)	3-6





ARCHITECTURAL AND ENGINEERING MANAGERS

COMPUTER SYSTEMS ENGINEERS/ARCHITECTS

CORONERS

**CUSTOMS BROKERS** 

EQUAL OPPORTUNITY
REPRESENTATIVE AND OFFICERS

FIRE-PREVENTION AND

**PROTECTION ENGINEERS** 

FIREFIGHTER

FIRST-LINE SUPERVISORS OF TRANSPORTATION AND MATERIAL-MOVING MACHINE AND VEHICLE OPERATOR

**LAWYERS** 

LICENSING EXAMINERS
AND INSPECTORS

LOGISTICIANS

**LOGISTICS MANAGERS** 

LOSS PREVENTION MANAGERS

MAINTENANCE AND REPAIR WORKERS, GENERAL

OPERATING ENGINEERS AND OTHER
CONSTRUCTION EQUIPMENT
OPERATORS

**OPERATIONS RESEARCH ANALYSTS** 

**POLICE OFFICER** 

**PRODUCT SAFETY ENGINEERS** 

SECURITY MANAGERS

WIND ENERGY ENGINEERS

#### LAW AND PUBLIC SAFETY



#### Government and Public Administration, Law and Safety

People in these occupations guard the public by enforcing the law. They might provide fire protection and security. They might give legal services to people who commit crimes or are victims of crimes.

http://omj.ohio.gov/

#### PATHWAY COURSES

#### Core

English I, II, III, IV Alg I, Geom, Alg II, Pre-Calc or Stats Phys Sci, Bio I World Hist, Am Hist, Govt

#### Recommended

Sociology Advanced Health Basic Weight Training Integrated Performance Training Any third HTHS science course

Required

Coming in 2018: Young Explorers Program and Medic Training with the Hamilton Township Fire Department

**Personal Finance** 

# SUGGESTED ACTIVITIES

 Job Shadowing, exploration, or Internship with:

Village of Obetz

Obetz Police Department

HT Fire Department



- Graphic Design College Tech
   Prep [Eastland Career Center]
- Medical Office Technologies [Eastland Career Center]
- Marketing and Logistics
   Management [Eastland Career
   Center]



# College Credit Plus Industry

#### Partners

## College Credit Plus

**COURSE** 

CREDIT 1

**Firefighter** 





FIRE 1121 Firefighter I

FIRE 1122

Firefighter II 5

Composition I **ENGL 1100** 

3

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#### Industry Credentials POINTS

EMT - Basic, Paramedic, Firefighter I and II 12 HAZWOPER, Private Security, Telecom, Incident Med Dispatch, Fire or Law Communications Taser, Baton, or Pepper Spray







AEROSPACE ENGINEERING
AND OPERATIONS TECHNICIANS

BIOMEDICAL ENGINEERS

CHEMICAL EQUIPMENT OPERATORS
AND TENDERS

CHEMICAL PLANT AND SYSTEM OPERATORS

**ENERGY ENGINEERS** 

FIRE-PREVENTION AND PROTECTION ENGINEERS

FIRST-LINE SUPERVISORS OF HELPERS, LABORERS, AND MATERIAL MOVERS (HAND)

> FIRST-LINE SUPERVISORS OF PRODUCTION AND OPERATING WORKERS

MANUFACTURING PRODUCTION TECHNICIANS

MARKETING MANAGERS

**MATERIALS ENGINEERS** 

MECHANICAL DRAFTERS

MECHANICAL ENGINEERING
TECHNICIANS

**PRODUCT SAFETY ENGINEERS** 

PRODUCTION, PLANNING, AND EXPEDITING CLERKS

SOLDERS AND BRAZERS TEAM

**ASSEMBLERS** 

TRANSPORTATION MANAGERS

**VALIDATION ENGINEERS** 

WIND ENERGY ENGINEERS

#### MANUFACTURING



#### Manufacturing Technology

People in these occupations may design a new product or determine how the product will be made. They may make the product. They might install or repair the product once it has been purchased.

http://omj.ohio.gov/

#### PATHWAY COURSES

#### Core

English I, II, III, IV Alg I, Geom, Alg II, Pre-Calc or Stats Phys Sci, Bio I World Hist, Am Hist, Govt

#### Required

**Personal Finance** 

#### Recommended

Fundamentals of Technology Homeowners Education Advanced Tech I, II, III Engineering Drawing Earth Science Physics Chem I

## SUGGESTED ACTIVITIES

- Job Shadowing
- Internship
- Apprenticeship



- Pre-Engineering Technologies
   [Eastland Career Center]
- Welding [Eastland Career Center]





# College Credit Plus

## Industry Credentials

#### Partners

## College Credit Plus

Manufacturing Materials & Processes

**Engineering Graphics** 

Industrial Applications & Software ITST 1101

Technical Mathematics **MATH 1113** 

#### Mechanical **Engineering**

CREDIT

3

3

2





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MECH 1150

**ENGT 1115** 

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# Industry Credentials

American Welding Society (AWS) Welder or Inspector	12
NIMS Machining (Levels 1-3)	12
AutoCAD, CSWP, FANUC, Motoman, NCCR	6
OSHA 10 or 30-Hour Training / CPR First Aid	1 each





AIRCRAFT CARGO
HANDLING SUPERVISORS

AIRCRAFT MECHANICS AND SERVICE TECHNICIANS

**AVIONICS TECHNICIANS** 

**BAGGAGE PORTERS AND BELLHOPS** 

BUS AND TRUCK MECHANICS
AND DIESEL SPECIALISTS

BUS DRIVERS, SCHOOL OR SPECIAL CLIENT

FIRST-LINE SUPERVISORS OF HELPERS, LABORERS, AND MATERIAL MOVERS

FIRST-LINE SUPERVISORS OF TRANSPORTATION AND MATERIAL-MOVING MACHINE AND VEHICLE OPERATORS

HEAVY AND TRACTOR-TRAILER
TRUCK DRIVERS

INDUSTRIAL TRUCK AND TRACTOR OPERATORS

LIGHT TRUCK OR DELIVERY
SERVICES DRIVER

LOCOMOTIVE ENGINEERS

LOGISTICS MANAGERS

MACHINE FEEDERS AND OFFBEARERS

PETROLEUM PUMP SYSTEM
OPERATORS. RAIL CAR REPAIRERS

RAIL-TRACK LAYING AND
MAINTENANCE EQUIPMENT OPERATORS

REFINERY OPERATORS, AND GAUGERS

RIGGERS

STORAGE AND DISTRIBUTION
MANAGERS

TRANSPORTATION MANAGERS

#### TRANSPORTATION









#### Transportation and Storage

People in these occupations move people and products by road, air, rail, or water. They may drive or pilot different means of transportation. They may repair and maintain the vehicles, trains, planes, and ships to keep people and products moving. They may work behind the scenes to make sure the products and people get to the right place on time.

http://omj.ohio.gov/

#### PATHWAY COURSES

#### Core

English I, II, III, IV Alg I, Geom, Alg II, Pre-Calc or Stats Phys Sci, Bio I World Hist, Am Hist, Govt

#### Required

**Personal Finance** 

#### Recommended

Fundamentals of Technology
Homeowners Education
Advanced Tech I, II, III
Engineering
Drawing
Earth Science
Any third HTHS science course

## SUGGESTED ACTIVITIES

- Job Shadowing
- Internship
- Apprenticeship



- Agriculture & Heavy Equipment Tech [Eastland Career Center]
- Auto Technology [Eastland and Fairfield Career Centers]





## College Credit Plus

Industry Credentials

Partners

## College Credit Plus

Logistics Engineering Technology

	COURSE	CREDII
SCM 1100	Supply Chain Management Principles	3
MATH 1111	Discrete Math for Computing	3
ENGL 1100	Composition I	3
ESSH 1101	Intro to Environ Science, Safety, Health	3
BOA 1102	Excel I	2

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## Industry Credentials CREDENTIAL TEST POINTS

ASE Specialties [multiple certifications] 3-12

FAA Mechanic Specialties [multiple certifications] 12

ICAR ProLevel 1 Refinishing Technician Certification 12

OSHA 10 or 20-Hour Training / CPR First Aid 1 each



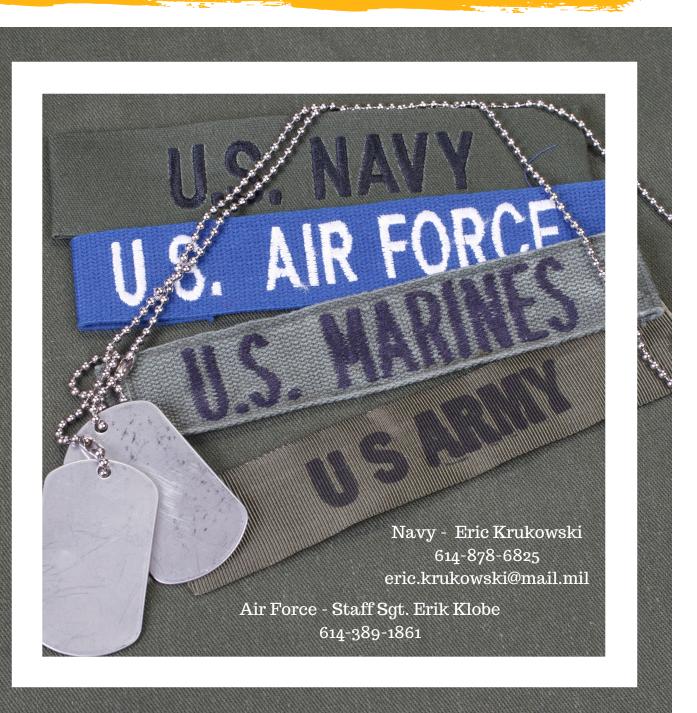
the WorkKeys assessment.



COLUMBUS STATE

## ANSWER THE CALL TO SERVE

U.S. Military Recruiters are available often throughout the year during lunch.



## ANSWER THE CALL TO SERVE

U.S. Military Recruiters are available often throughout the year during lunch.





## **COLUMBUS STATE**

COMMUNITY COLLEGE





educational service center of Central Ohio







