Department of Higher Education



The Strategic Crossroads: Where State Pathways Meet College Credit Plus

The Heart of Education

Overview of Statewide Articulation & Transfer Initiatives

Ohio Guaranteed Transfer Pathways (OGTPs)

OGTPs build upon the OT36, TAGs, and CTAGs to offer clear pathways for completion of equivalent associate degree programs to bachelor's degree programs at Ohio's public institutions of higher education. The OGTPs constitute an agreement between public community colleges and universities confirming that community college courses meet major preparation requirements and will be counted and applied toward the bachelor's degree.

Ohio Math Initiative

General Education Discussion

Ohio Transfer 36 (OT36)

The OT36 is a subset or the complete set of a public institution's general education requirements across various disciplines. Courses are guaranteed to transfer and are applied to the OT36 of the receiving institution.

Transfer Assurance Guides (TAGs)

TAGs allow for students to complete common early major courses at Ohio's public institutions. Courses are guaranteed to transfer and apply towards program requirements.

Career-Technical Assurance Guides (CTAGs)

CTAGs align introductory career-technical coursework offered at secondary institutions and OTCs to equivalent post-secondary courses at Ohio's public colleges and universities.

Military Transfer Assurance Guides (MTAGs)

MTAGs provide a statewide guarantee that certain types of military training, experience, and/or coursework align to existing college and university courses and will be awarded appropriate credit.

MTAGs are currently aligned to the OT36, TAGs, and CTAGs.

Industry-Recognized Credential Transfer Assurance Guides (ITAGs)

ITAGs recognize that learning can be validated by an industry-recognized credential and provide a framework for the application of that learning at Ohio's public colleges and universities.

Credit for Prior Learning

Ohio's framework for prior learning assessment

Statewide CLEP Policy

Specific credit awarded for approved scores

Statewide AP Policy

Aligned course credit for students earning an AP exam score of 3 or higher

One-Year Option

Awards students who graduate from an Ohio Technical Center a block of non-specific credit toward an ATS degree. Program clock hours range from 600-900+, and credit awards range from 20-30 hours.

Credit When It's Due

Assists students with obtaining an associate degree by using prior coursework completed at two or more Ohio public colleges or universities to satisfy the requirements for an associate degree.

Apprenticeship Pathways

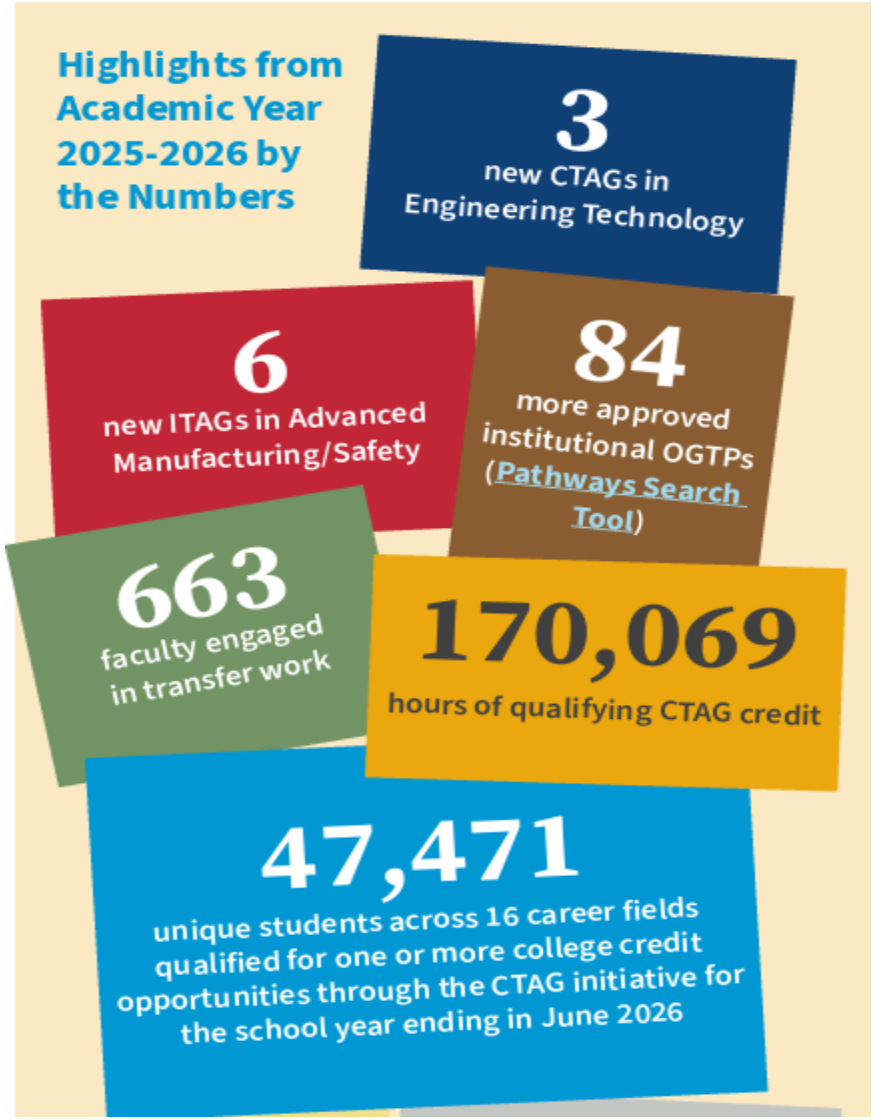
Advocates for individuals completing apprenticeships by incorporating these experiences into academic credit to provide a pathway to a technical associate degree at Ohio's two-year public colleges.

Credit Mobility in Ohio

Foundation

The Ohio Transfer Promise

Legislation | Policy | Structure | Research | Technology | Communication | Education


Highlights from Academic Year 2025-2026 by the Numbers
3
new CTAGs in Engineering Technology
6
new ITAGs in Advanced Manufacturing/Safety
84
more approved institutional OGTPs (Pathways Search Tool)
663
faculty engaged in transfer work
170,069
hours of qualifying CTAG credit
47,471
unique students across 16 career fields qualified for one or more college credit opportunities through the CTAG initiative for the school year ending in June 2026

Ohio Guaranteed Transfer Pathways

Ohio Revised Code Section 3333.16(D)

The chancellor shall update and implement the policies and procedures established pursuant to this section to ensure that **any associate degree offered at a state institution of higher education may be transferred and applied to a bachelor degree program in an equivalent field at any other state institution of higher education without unnecessary duplication or institutional barriers**. The policies and procedures shall ensure that each transferred associate degree applies to the student's degree objective in the same manner as equivalent coursework completed by the student at the receiving institution.

https://transfercredit.ohio.gov/ogtp

Current Ohio Guaranteed Transfer Pathways

Business – Business (AA/AS), Applied Business (AAB/AAS)

STEM – Aerospace/Mechanical Engineering, Biology, Chemistry, Civil Engineering, Computer/Electrical Engineering, Computer Science, Electrical Engineering Technology, Information Systems, Information Technology, Geology, Mathematics (AS to BA and AS to BS), Mechanical Engineering Technology, Physics

Arts and Humanities – Art History, English, History, Music, Philosophy, Studio/Fine Art, Theatre

Social and Behavioral Sciences – Anthropology, Economics, Geography, Political Science, Psychology (AA to BA and AS to BS), Social Work, Sociology

Communication – Communication Studies

Health Sciences – Respiratory Therapy (AA/AS), Respiratory Therapy (AAS)

Education – Education Professions Pathway

The Intersection of College Credit Plus and Guaranteed Transfer Pathways



The “Why”

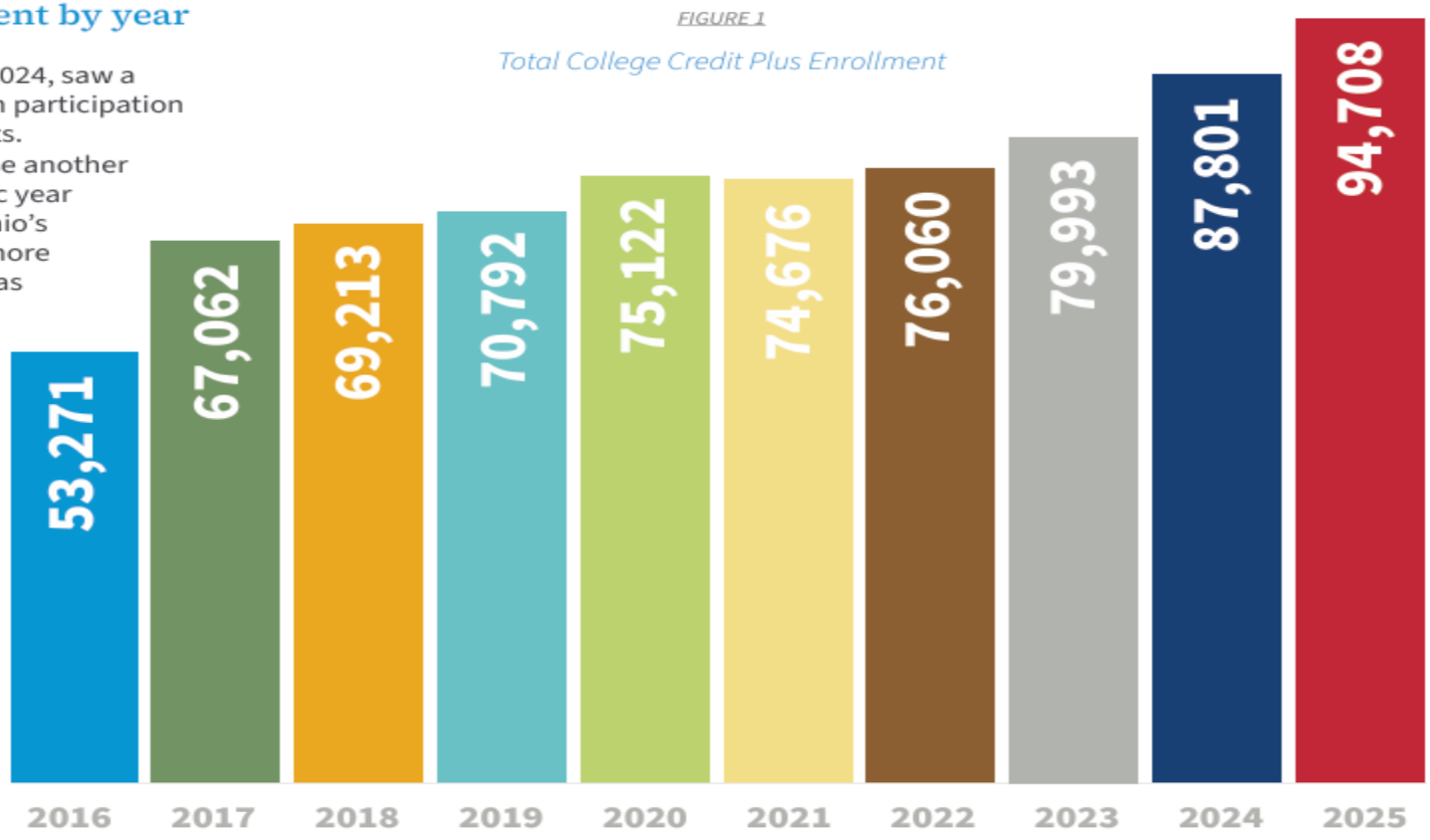
PARTICIPATION

Overall enrollment by year

Academic year 2023-2024, saw a nearly 10% increase in participation among Ohio’s students. Participation rates rose another nearly 8% in academic year 2024-2025, putting Ohio’s CCP participation at more than 90,000 students as reflected in figure 1.

FIGURE 1

Total College Credit Plus Enrollment



ORC 3365.13 Model Pathways

- (A) Each public secondary school shall develop, in consultation with at least one public partnering college, two model pathways for courses offered under the college credit plus program. One of the model pathways shall be a fifteen-credit hour pathway and one shall be a thirty-credit hour pathway. Each pathway shall include courses which, once completed, all apply to at least one degree or professional certification offered at the college. The pathways may be organized by desired major or career path or may include various core courses required for a degree or professional certification by the college. The school shall publish the pathways among the school's official list of course offerings from which a participant may select.

- (B) No participant shall be required to enroll only in the courses included in a model pathway developed under division (A) of this section. Instead, the pathways shall serve as samples of the courses that a participant may take, if desired, to earn multiple credits toward a specified degree or certification.

Course Eligibility

Rule 3333-1-65.12 | Course eligibility.

Ohio Administrative Code / 3333 / Chapter 3333-1 | General Provisions

Previous Next

Effective: *May 10, 2021* ***Promulgated Under:*** *119.03* ***PDF:*** *Download Authenticated PDF*

(A) This rule applies only to college courses taken under the option prescribed in division (B) of section 3365.06 of the Revised Code.

(B) As used in this rule:

(1) "Transferable course" means any course that is an approved Ohio transfer module (OTM), transfer assurance guide (TAG), or career-technical assurance guide (CTAG) course, or a course at a private institution of higher education that is equivalent to such a course based on the private institution's representation of the course.

(2) "Technical certificate course" means a course that is part of the organized program of study for a technical certificate that is offered by a public institution of higher education and has been designated by the chancellor of higher education as leading to an occupation or special employment opportunity.

(3) "Level I course" means a college course that is any of the following:

(a) A transferable course;

(b) A course in computer science, information technology, anatomy, physiology, or foreign language, including American sign language, that is not eligible to be a transferable course;

(c) A technical certificate course;

(d) A course included in a model pathway developed under section 3365.13 of the Revised Code that a student participating in the college credit plus program elects to pursue;

(e) A course designed to teach study skills and other skills for academic and career success to first-year college students;

(f) An internship course; or

(g) Another course approved by the chancellor under paragraph (H) of this rule.

CollegeCredit PLUS

Model Pathway Examples

These pathway examples were based on actual pathways posted on a few Ohio secondary school websites. *Each school's pathway documents should be developed collaboratively and agreed upon by the secondary school and the college/university.* The pathway documents should include the name of the secondary school, the college offering the courses, credit hours, and possibly the location of the course. There is no standard formatting required.

Pathway Example 1 – General Education

15 Credit Hour Pathway			
College Course	**College Credits**	**H.S. Requirement**	**Location**
ENG 110 - College Writing I	3	English	High School or College Campus
MAT 110 – College Algebra	3	Math	College Campus
Choose one: MUS 221 - Understanding of Music THE 110 - The Art of Theater	 3 3	 Fine Art Fine Art	High School or College Campus
Choose one: PHY 110 – Principals of Physics BIO 101 - Biological Foundations	 3 4	 Science Advanced Science	College Campus
Choose one: PSY 117 - General Psychology SOC 120 - Introduction to Sociology HIS 120 - History of the US ECN 220 - Microeconomics	 3 3 4 3	 Social Science Social Science US History Economics	High School or College Campus
Total possible credits:	**15 to 16**		
30 Credit Hour Pathway – Continuation (includes 15 credit hour "General Education" Pathway)			
Course Name	**College Credits**	**H.S. Requirement**	**Location**
ENG 220 – American Literature (prereq: ENG 110)	3	English	College Campus
Choose one: MAT 110 – Business Calculus MAT 110 – Trigonometry	 3 3	 Mathematics	College Campus
COM 150 - Intro to Communication	3	English	High School or College Campus
Choose one: GEO 110 (Non-STEM Major) – Earth's Physical Environment CHE 100 (STEM Major) – General Chemistry I	 4 4	 Advanced Science	 College Campus High School or College Campus
Choose one: PSY 117 – General Psychology SOC 120 - Introduction to Sociology HIS 120 - History of the US POL 101 – American Politics	 3 3 4 3	 Social Science Social Science US History US Government	High School or College Campus
Total possible credits:	**15 to 16**		

Pathway Example 2 – Focused Program of Study

15 Credit – Business Degree

BUS100 Introduction to Business	3 Credits	(available at the High School during fall semester)
BUS101 Introduction to Marketing	3 Credits	(available at the High School during spring semester)
ACT101 Principles of Accounting	3 Credits	(available at the High School during fall semester)
ECN101 Microeconomics	3 Credits	(college campus or online – various semesters)
ECN202 Macroeconomics	3 Credits	(college campus or online – various semesters)

Pathway Example 3 – Career Technical

15 Credit – Construction Management

CMG110 Construction Documents	3 credits	CMG113 Construction Materials	3 credits
CMG111 Construction Methods	3 credits	ENG100 English Composition 1	3 credits
CMG112 Construction Drawings	3 credits		

Example of Model Pathways on ODHE CCP Webpages

Pathways in College Credit Plus

Ohio Guaranteed Transfer Pathways (OGTP) and CCP

- Created 30 credit hour pathways towards an associate degree
- Directly transferable to a bachelor's degree (public to public, some private)
- Available and in development for multiple majors: Business, Arts, Math/Science, Engineering Technology, etc.

https://transfercredit.ohio.gov/pathwaysforccp

OGTP Resources for CCP

Transfer Credit Ohio
Ohio Guaranteed Transfer Pathways

College Credit Plus

Note on Engineering Technology

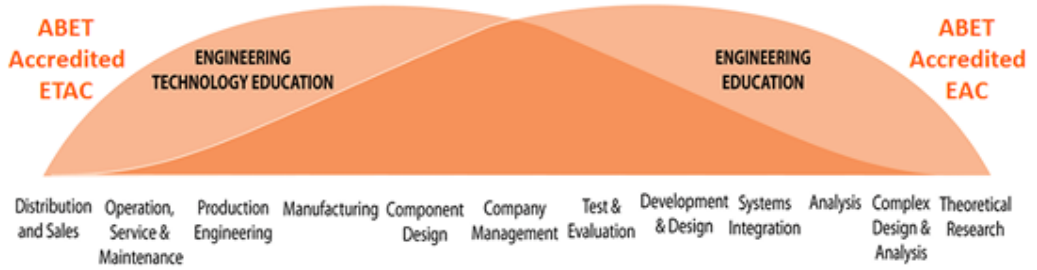
"Engineering and engineering technology are separate but closely related professional areas that differ in:

Curricular Focus – Engineering programs often focus on theory and conceptual design, while engineering technology programs usually focus on application and implementation. Engineering programs typically require additional, higher-level mathematics, including multiple semesters of calculus and calculus-based theoretical science courses, while engineering technology programs typically focus on algebra, trigonometry, applied calculus, and other courses that are more practical than theoretical in nature.

Career Paths – Graduates from engineering programs are called engineers and often pursue entry-level work involving conceptual design or research and development. Many continue on to graduate-level work in engineering. Graduates of four-year engineering technology programs are called technologists, while graduates of two-year engineering technology programs are called technicians.

These professionals are most likely to enter positions in sectors such as construction, manufacturing, product design, testing, or technical services and sales. Those who pursue further study often consider engineering, facilities management, or business administration.

There is much overlap between the fields. Engineers may pursue MBAs and open their own consulting firms, while technologists may spend their entire careers in design capacities."



Sources: Definition comes from the Accreditation Board for Engineering and Technology (ABET) (http://www.abet.org/accreditation/new-to-accreditation/engineering-vs-engineering-technology/), and the graphic comes from the American Society of Mechanical Engineers (ASME))

Transfer Credit Ohio
Ohio Guaranteed Transfer Pathways

College Credit Plus

Engineering Technology

Interested in Engineering Technology? You can take the courses below through College Credit Plus to start your path to a degree in Engineering Technology. To simplify things, we've laid out an example of a semester-by-semester plan for you. Please work closely with your College Credit Plus advisor and high school counselor to select the coursework that makes sense based on your goals.

After you've completed these courses, save even more time and money by finishing your associate degree through the one of the Ohio Guaranteed Transfer Pathways in Engineering Technology and then transferring to a public university with junior standing and half of your bachelor's degree in Engineering Technology complete. Engineering Technology Pathways are available in Electrical Engineering Technology and Mechanical Engineering Technology.

Semester 1	
First Writing (TME001)[1]	3 credit hours
Choose one of the following courses: DC Circuits (OET001)[1] for Electrical Engineering Technology or CADD (CTMET005/OET012)[1] for Mechanical Engineering Technology	3 credit hours

Semester 2	
Any Ohio Transfer 36 approved Arts & Humanities course[1]	3 credit hours
Precalculus (TMM002) or College Algebra (TMM001) and Trigonometry (TMM003) or Technical Mathematics (TMM014)[1, 2]	3-6 credit hours

Semester 3	
Algebra-based Physics I with lab (OSC014)[1]	4-5 credit hours
Public Speaking (OCM013), Oral Communication (TMOC), Technical Writing, or Second Writing (TME002) course[1]	3 credit hours

Semester 4	
Algebra-based Physics II with lab (OSC015) or Any Ohio Transfer 36 approved Natural Sciences[1, 2]	4-5 credit hours
Choose one of the following courses: Digital Electronics (CTEET002/OET002)[1] for Electrical Engineering Technology or Strength of Materials (OET008)[1] for Mechanical Engineering Technology	3 credit hours

Advising Notes

[1] You can feel confident these courses will transfer as they are a part of the Ohio Transfer 36 or Transfer Assurance Guides (TAGs) that are guaranteed to transfer among the public colleges and universities. For more information, visit https://transfercredit.ohio.gov/collegestudents.

[2] Requirements may vary slightly by institution. Check with your College Credit Plus advisor or receiving institution for more information.

[3] Engineering is another field you may want to explore (see page 3 to learn more about the differences). The complete Ohio Guaranteed Transfer Pathway in Engineering Technology along with information about which public colleges and universities offer this pathway is available at https://transfercredit.ohio.gov/ogtptool.

For more information, please visit our websites: College Credit Plus https://highered.ohio.gov/ccp & Ohio Guaranteed Transfer Pathways transfercredit.ohio.gov/pathwaysforccp

Transfer Credit Ohio
Ohio Guaranteed Transfer Pathways

College Credit Plus

Definitions

General Education – The set of courses and experiences that provide students with a broad exposure to multiple disciplines within the arts and sciences with the aim of providing students with the knowledge and skills needed to succeed in the 21st century. In Ohio, the general education curriculum typically includes coursework in oral and written communication, mathematics and data analysis, arts and humanities, natural sciences, and social sciences.

Ohio Transfer 36 – The Ohio Transfer 36 contains 36-40 semester hours of coursework in general education. It is a subset or the complete set of general education requirements at each college or university that is guaranteed to transfer among Ohio public institutions. These courses may have different names and numbers across institutions, so we identify them with an Ohio Articulation Number made up of three letters and three numbers, such as (TME001) for First Writing.

Transfer Assurance Guide (TAG) Courses – TAG courses are pre-major or beginning major courses that are guaranteed to transfer among Ohio public institutions and count toward the major degree program. These courses may have different names and numbers across institutions, so we identify them with an Ohio Articulation Number made up of three letters and three numbers, such as (OBU06) for Principles of Marketing.

Meeting High School Graduation Requirements

When you use the Ohio Guaranteed Transfer Pathway to start coursework to a degree, you also can check off your high school graduation requirements. When you meet with your College Credit Plus advisor and high school counselor, use the following guide to ensure you finish two requirements with one college course.

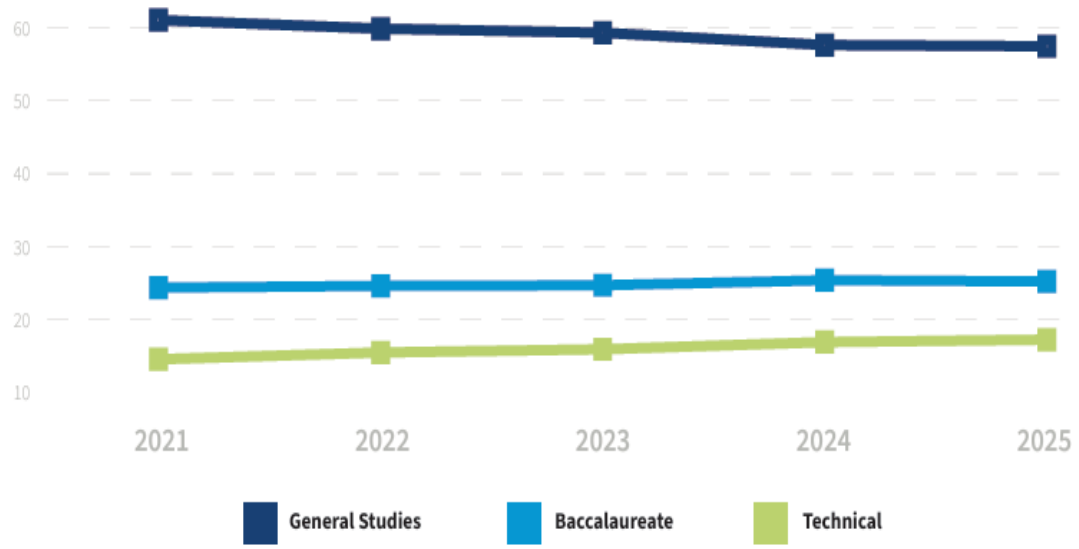
High School Graduation Requirement	Required Number of HS Credits	College Credit Plus (CCP) Example Course Substitutions
English Language Arts	4	Literature, composition, journalism, speech, applied communication
Mathematics	4	Any college math course of at least 3 credit hours will satisfy requirements; high schools must administer the EOC tests to students to earn graduation points and to satisfy testing requirements of state and federal law
Science	3	One physical science, one life science, and one advanced study such as biology, astronomy, earth/space science, computer science, geology, etc.
Social Studies	3	Anthropology, economics, geography, American government, government and economics, American history, integrated history, world history and civilizations, psychology, sociology, micro/macroeconomics
Electives	5	Fine Arts: drama/theatre, dance, visual art, music World Language: any world language, including ASL Humanities: Western culture, world mythology, philosophy, social movements, survey of religion (must not be an instruction in religious doctrine)

Level of instruction

Public institutions of higher education report the level of instruction of courses in which students enroll. The most common enrollment continues to be general studies courses, which include introductory or core courses to assist students in preparing for their chosen career pathway. Baccalaureate courses are specialized within a discipline for a degree, while technical courses are part of an associate degree program of technical education. Remedial-level courses that do not provide college credit are unallowable; most developmental courses reflected in reporting are first-year experience type courses, which are allowable for CCP.

The steady growth over time of baccalaureate and technical courses contributes to the rising number of credentials being earned by students, as reflected in Figure 10.

FIGURE 10
Course Selection Percentage by Level of Instruction



Attainment results

Figure 18 provides the number of certificates and degrees earned each year of the program by sector. The program is increasingly used as a pathway to degree attainment. In 2025, students earned a record **861 certificates** and **958 associate degrees** while still in high school. In addition to the certificates and associates degrees earned, seven students have achieved baccalaureate degrees through CCP since academic year 2021-22.

FIGURE 18

Credentials Earned During High School

YEAR & SECTOR	CERTIFICATES	ASSOCIATE DEGREES	BACHELOR'S DEGREES
2020 TOTAL	**254**	**552**	**0**
Community College	247	518	0
University	7	34	0
2021 TOTAL	**316**	**677**	**0**
Community College	309	622	0
University	7	55	0
2022 TOTAL	**287**	**729**	**2**
Community College	272	682	0
University	15	47	2
2023 TOTAL	**343**	**739**	**1**
Community College	327	690	0
University	16	49	1
2024 TOTAL	**573**	**836**	**1**
Community College	555	767	0
University	18	69	1
2025 TOTAL	**861**	**958**	**3**
Community College	828	903	0
University	33	55	3

Note: This figure includes all enrollments from public and nonpublic secondary schools and homeschooled students.

The Ohio Mathematics Initiative

To develop expectations and processes that result in each of Ohio's 36 public colleges and universities offering pathways in mathematics that yield: (a) increased success for students in the study of mathematics, (b) a higher percentage of students completing degree programs, and (c) effective transferability of credits for students moving from one Ohio public institution to another.

https://transfercredit.ohio.gov/educational-partners/educational-partner-initiatives/omi

Higher Education Math Pathways

STEM

34 out of 35 institutions have a course match approved for College Algebra (TMM001) , Precalculus (TMM002), Calculus I (TMM005), and Technical Mathematics

Statistics

35 out of 35 institutions have a course match approved for Introductory Statistics (TMM010)

Quantitative Reasoning

31 out of 35 institutions have a course match approved for Quantitative Reasoning (TMM011)

Data Science

Discrete Math

Math for Elementary Educators

College-Level Math in the Pathways

Calculus

Aerospace/Mechanical Engineering

Biology*

Business*

Chemistry

Computer/Electrical Engineering*

Computer Science

Economics

Education Professions

Electrical Engineering Technology**

Geology*

Mathematics

Mechanical Engineering Technology**

Physics

Quantitative Reasoning

Art History

Communication Studies

Education Professions

English

History

Music

Philosophy

Studio/Fine Arts

Theatre

Math in Elementary Education

Education Professions

Statistics

Anthropology

Education Professions

Geography

Information Systems

Information Technology

Political Science

Pre-Health Professions

Psychology

Respiratory Therapy

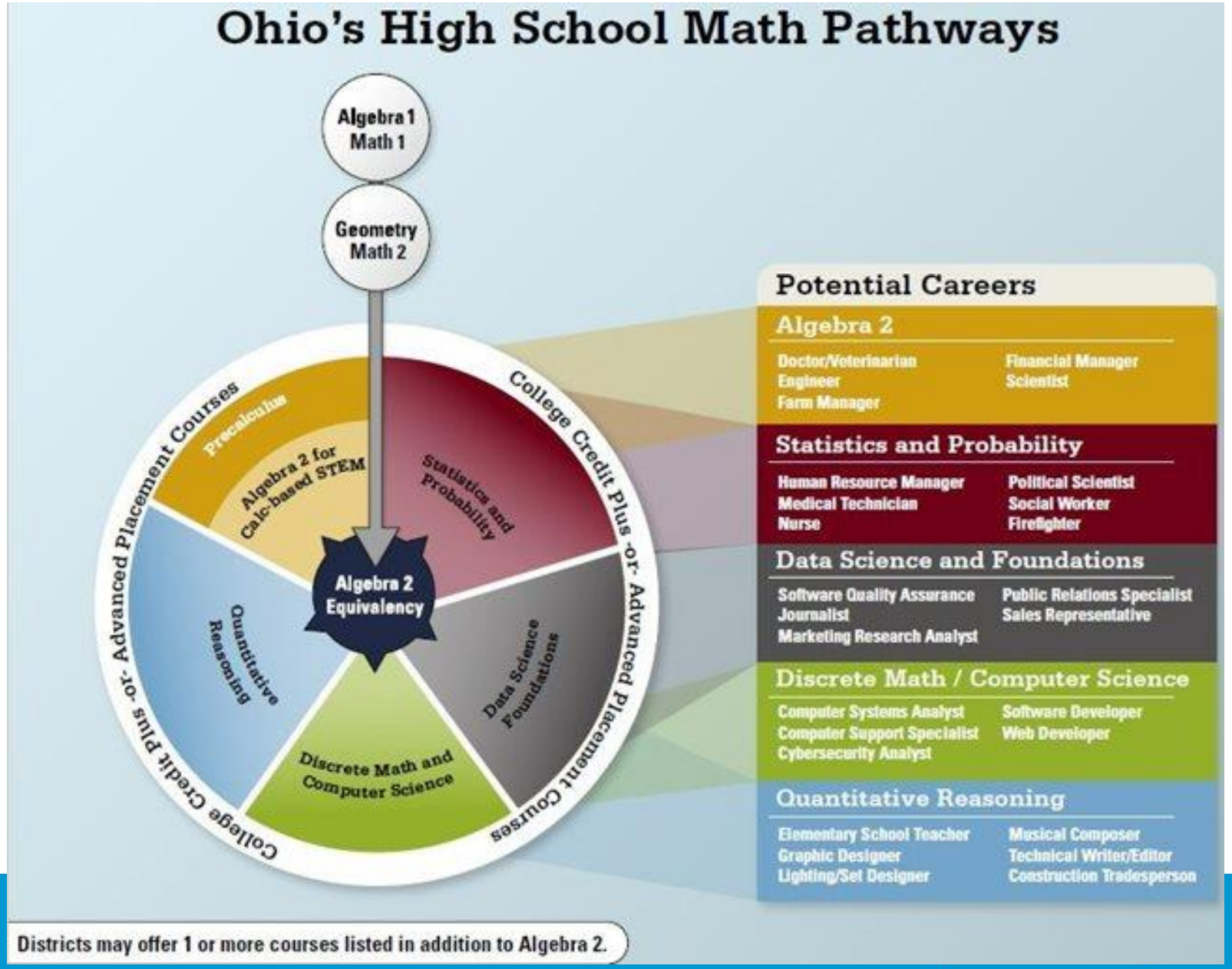
Social Work

Sociology

**May require only up to College Algebra or Pre-Calculus*

***College Algebra, Pre-Calculus, or Technical Mathematics required for associate degree, must be Calculus ready for bachelor's degree*

High School Math Pathways



CCP and Math Pathways

In AY 22-23, Mathematics was the 4th most popular subject area of the 17 tracked.

29,231 CCP participants were enrolled in mathematics courses in AY 22-23.

The average GPA in mathematics courses across 81 campuses was 3.28.

Thank You!

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