

MADISON CITY SCHOOLS CAREER AND TECHNICAL EDUCATION



EMPOWERING ALL STUDENTS FOR GLOBAL SUCCESS

madisoncity.k12.al.us

Programs

Madison City Schools (MCS) offers over 100 courses through Career and Technical Education (CTE) in grades 6-12. The program offerings include foundation courses, concentrator courses, internships, cooperative education, and industry credentials. This guide outlines the MCS CTE classes and credentials that count for the ALSDE College and Career Readiness graduation requirement.

PROGRAM NAME	PROGRAM NAME
Air Force JROTC	Engineering - PLTW
Architecture and Construction	Family Studies and Community Services
Army JROTC	Fashion
Arts, A/V Technology, and Communications	Finance
Biomedical Science - PLTW	Health Science
Business	Hospitality and Tourism
Computer Science	Marketing
Cybersecurity	Middle School STEM
Education and Training	Work-Based Learning

COLLEGE AND CAREER READINESS (CCR)

On [November 10, 2022](#), the Alabama State Board of Education amended the *Alabama Administrative Code*, Rule No. 290-3-1.02, which added a College and Career Readiness Indicator to the Alabama High School Graduation Requirements. On [December 14, 2023](#), the Alabama State Board of Education amended the *Alabama Administrative Code*, Rule No. 290-3-1.02 requiring CCR attainment for students who

are members of the graduating Class of 2026 (and beyond) and are pursuing the *Alabama High School Diploma: General Education Pathway*. CCR can be earned through one of the nine options listed below:

- Earn a benchmark score in any subject area on the ACT College Entrance Exam.
- Earn a qualifying score of three or higher on an Advanced Placement Exam.
- Earn a qualifying score of four or higher on an International Baccalaureate Exam.
- Earn college credit while in high school.
- Earn a silver or gold level on the ACT WorkKeys Exam.
- Complete an in-school youth apprenticeship program.
- Earn a career tech industry credential listed on the compendium of valuable credentials of the Alabama Committee on Credentialing and Career Pathways.
- Military enlistment.
- Attain Career and Technical Education (CTE) completer status.



Students from James Clemens High School attending the Technology Student Association (TSA) Conference

CTE COMPLETER STATUS

To meet the CCR Indicator as a [CTE Completer](#), a student must earn **three (3.0) credits** with the **grade of a “C” or higher** in CTE courses that are part of an approved CTE program of study.

GUIDELINES FOR CTE COMPLETER STATUS

- Earn a maximum of **one (1.0) credit** by completing an approved CTE program **foundation course** (Career Prep can only be counted as a foundation course in Business, Marketing, or Finance).
- Earn a minimum of **one (1.0) credit** by completing an approved CTE program **concentrator course**.
- Earn **one (1.0) additional credit** by completing an approved CTE program **concentrator course OR one (1.0) credit** by completing one of the following approved CTE program **capstone course(s)**:
 - Earn one (1.0) credit through completion of an authentic Work-Based Learning (WBL) experience in the field of study or a closely related field of study that meets the Alabama State Department of Education WBL requirements (e.g. Internship or Cooperative Education in-field placement or closely related field).
 - Earn one (1.0) credit through completion of an approved CTE cluster lab course that meets specific guidelines related to hours and activities.
 - Earn one (1.0) credit through completion of an approved CTE cluster pathway project course that meets specific guidelines related to hours and activities.

AIR FORCE JROTC



COURSE LEVEL	COURSE NAME	CREDITS ALLOWED FOR CTE COMPLETER
Concentrator	Leadership and Aviation History	Minimum 1.0 Credit
Concentrator	Leadership and Cultural Studies	Minimum 1.0 Credit
Concentrator	Leadership and Exploration of Space	Minimum 1.0 Credit
Concentrator	Leadership and Management of the Cadet Corps and Financial Education	Minimum 1.0 Credit
Concentrator	Leadership and Science of Flight	Minimum 1.0 Credit
Concentrator	Leadership and Survival	Minimum 1.0 Credit

Industry Credentials

Air Force JROTC Certificate

ARCHITECTURE & CONSTRUCTION



COURSE LEVEL	COURSE NAME	CREDITS ALLOWED FOR CTE COMPLETER
Foundation (Required)	Architectural and Construction Foundations	Maximum 1.0 Credit
Concentrator	Construction Foundation Layout	Minimum 1.0 Credit
Concentrator	Carpentry: Commercial Framing and Layout	Minimum 1.0 Credit
Concentrator	Construction Finishing	Minimum 1.0 Credit
Capstone	Career Pathway Project: Architecture and Construction	Maximum 1.0 Credit

Industry Credentials

NCCER Core

OSHA 10

ARMY JROTC



COURSE LEVEL	COURSE NAME	CREDITS ALLOWED FOR CTE COMPLETER
Concentrator	Leadership Education and Training I	Minimum 1.0 Credit
Concentrator	Leadership Education and Training II	Minimum 1.0 Credit
Concentrator	Leadership Education and Training III	Minimum 1.0 Credit
Concentrator	Leadership Education and Training IV	Minimum 1.0 Credit

Industry Credentials

Army JROTC Certificate

ARTS, A/V TECHNOLOGY & COMMUNICATIONS



COURSE LEVEL	COURSE NAME	CREDITS ALLOWED FOR CTE COMPLETER
Foundation (Required)	Introduction to Television Production	Maximum 1.0 Credit
Concentrator	Television Production - Photography and Editing	Minimum 1.0 Credit
Concentrator	Advanced Television Production (JETSPress)	Minimum 1.0 Credit
Concentrator	Television Production - Studio Operations	Minimum 1.0 Credit
Capstone	Career Pathway Project: Arts, A/V Technology and Communications	Maximum 1.0 Credit

Industry Credential

Adobe Certified Associate Premiere Pro

BIOMEDICAL SCIENCE - PLTW



COURSE LEVEL	COURSE NAME	CREDITS ALLOWED FOR CTE COMPLETER
Foundation (Required)	Principles of the Biomedical Science	Maximum 1.0 Credit
Concentrator	Human Body Systems	Minimum 1.0 Credit
Concentrator	Medical Interventions	Minimum 1.0 Credit
Capstone	Biomedical Innovations	Maximum 1.0 Credit

Industry Credentials

Certified Clinical Medical Assistant	Certified Pharmacy Technician
Certified Patient Care Technician	EKG Technician
Lifeguard	Biotechnician Assistant Credentialing Exam

BUSINESS MANAGEMENT ADMINISTRATION



COURSE LEVEL	COURSE NAME	CREDITS ALLOWED FOR CTE COMPLETER
Foundation	Business Software Applications I	Maximum 1.0 Credit
Concentrator	Business Software Applications II	Minimum 1.0 Credit
Concentrator	Digital Media Design	Minimum 1.0 Credit
Concentrator	Digital Publications Design	Minimum 1.0 Credit
Capstone	Career Pathway Project: Business, Management and Administration	Maximum 1.0 Credit
Capstone	Creating Entrepreneurial Opportunities (CEO)	Maximum 1.0 Credit

Industry Credential

Microsoft Office Specialist

COMPUTER SCIENCE



COURSE LEVEL	COURSE NAME	CREDITS ALLOWED FOR CTE COMPLETER
Foundation	Programming Foundations	Maximum 1.0 Credit
Concentrator	Object Oriented Programming I	Minimum 1.0 Credit
Concentrator	AP Computer Science A	Minimum 1.0 Credit
Concentrator	AP Computer Science Principles	Minimum 1.0 Credit
Concentrator	Computer Game and Simulation Programming	Minimum 1.0 Credit
Capstone	Career Pathway Project - Information Technology	Maximum 1.0 Credit

Industry Credentials

Oracle Certified Associate (OCA) - Java Programmer	Certiport Information Technology Specialist (ITS) Java
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CYBERSECURITY & INFRASTRUCTURE



COURSE LEVEL	COURSE NAME	CREDITS ALLOWED FOR CTE COMPLETER
Foundation	IT Fundamentals	Maximum 1.0 Credit
Concentrator	Network Fundamentals	Minimum 1.0 Credit
Concentrator	Cybersecurity I	Minimum 1.0 Credit
Concentrator	Cybersecurity II	Minimum 1.0 Credit
Capstone	Career Pathway Project - Information Technology	Maximum 1.0 Credit

Industry Credential

CompTIA Network+

CompTIA Security+

EDUCATION & TRAINING



COURSE LEVEL	COURSE NAME	CREDITS ALLOWED FOR CTE COMPLETER
Foundation (Required)	Foundations in Education (Formerly Education and Training)	Maximum 1.0 Credit
Concentrator	Practices in Education (Formerly Teaching I)	Minimum 1.0 Credit
Concentrator	Methods in Education (Formerly Teaching II)	Minimum 1.0 Credit
Capstone	Education and Training Internship	Maximum 1.0 Credit

Industry Credential

Google for Educator Level 1

Google for Educator Level 2

ENGINEERING - PLTW



COURSE LEVEL	COURSE NAME	CREDITS ALLOWED FOR CTE COMPLETER
Foundation (Required)	Introduction to Engineering Design	Maximum 1.0 Credit
Concentrator	Principles of Engineering	Minimum 1.0 Credit
Concentrator	Aerospace Engineering	Minimum 1.0 Credit
Concentrator	Digital Electronics	Minimum 1.0 Credit
Concentrator	Civil Engineering and Architecture	Minimum 1.0 Credit
Concentrator	Computer Integrated Manufacturing	Minimum 1.0 Credit
Capstone	Advanced Manufacturing and Machining	Maximum 1.0 Credit
Capstone	Career Pathway Project: STEM	Maximum 1.0 Credit

Industry Credential

MSSC-CPT	Autodesk Certified User Fusion 360
Certiport Python	Certiport JAVA
Certiport HTML	Microsoft Office Excel Expert

FAMILY STUDIES AND COMMUNITY SERVICES



COURSE LEVEL	COURSE NAME	CREDITS ALLOWED FOR CTE COMPLETER
Foundation (Required)	Family and Consumer Sciences	Maximum 1.0 Credit
Concentrator	Food and Nutrition	Minimum 1.0 Credit
Concentrator	Counseling and Mental Health	Minimum 1.0 Credit
Capstone	Career Pathway Project: Human Services	Maximum 1.0 Credit

Industry Credential

Certified Service Guest Professional

ServSafe Food Handler

FASHION



COURSE LEVEL	COURSE NAME	CREDITS ALLOWED FOR CTE COMPLETER
Foundation (Required 2025-2026)	Family and Consumer Sciences	Maximum 1.0 Credit
Foundation	Fashion	Maximum 1.0 Credit
Concentrator	Fashion Design	Minimum 1.0 Credit
Concentrator	Fashion Media	Minimum 1.0 Credit
Capstone	Career Pathway Project: Human Services	Maximum 1.0 Credit

Industry Credential

Certified Service Guest Professional

National Retail Federation -
Customer Service and Sales

FINANCE



COURSE LEVEL	COURSE NAME	CREDITS ALLOWED FOR CTE COMPLETER
Foundation	Business Software Applications I	Maximum 1.0 Credit
Foundation	Personal Finance	Maximum 1.0 Credit
Concentrator	Accounting	Minimum 1.0 Credit
Capstone	CTE Lab in Finance (Redstone Bank Branch - Semester 1)	Maximum 1.0 Credit
Capstone	Career Pathway Project: Finance (Redstone Bank Branch - Semester 2)	Maximum 1.0 Credit

Industry Credential

Microsoft Office Specialist

Certified Service Guest Professional

HEALTH SCIENCE



COURSE LEVEL	COURSE NAME	CREDITS ALLOWED FOR CTE COMPLETER
Foundation (Required)	Foundations of Health Science	Maximum 1.0 Credit
Foundation	Orientation to Health Science	Maximum 1.0 Credit
Concentrator	Human Body Structures and Functions	Minimum 1.0 Credit
Concentrator	Introduction to Pharmacy	Minimum 1.0 Credit
Capstone	CTE Lab in Health Science (Medical Academy Seminar)	Maximum 1.0 Credit
Capstone	Career Pathway Project: Health Science	Maximum 1.0 Credit
Capstone	Health Science Internship	Maximum 1.0 Credit

Industry Credentials

Certified Clinical Medical Assistant	Certified Pharmacy Technician
Certified Patient Care Technician	EKG Technician
Lifeguard	

HOSPITALITY AND TOURISM



COURSE LEVEL	COURSE NAME	CREDITS ALLOWED FOR CTE COMPLETER
Foundation (Required)	Introduction to Hospitality and Tourism	Maximum 1.0 Credit
Concentrator	Culinary Arts I	Minimum 1.0 Credit
Concentrator	Culinary Arts II	Minimum 1.0 Credit
Concentrator	Baking and Pastry Arts	Minimum 1.0 Credit
Capstone	Career Pathway Project: Culinary Arts	Maximum 1.0 Credit

Industry Credentials

Certified Service Guest Professional

ServSafe Manager

MARKETING



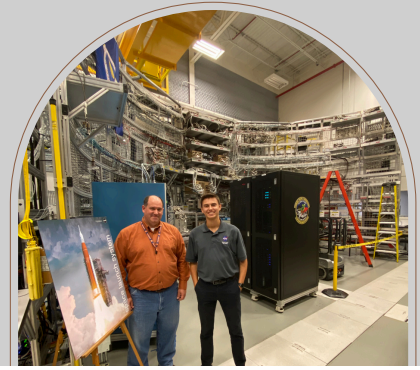
COURSE LEVEL	COURSE NAME	CREDITS ALLOWED FOR CTE COMPLETER
Foundation	Business Software Applications I	Maximum 1.0 Credit
Concentrator	Marketing Principles	Minimum 1.0 Credit
Concentrator	Sports and Entertainment Marketing	Minimum 1.0 Credit
Capstone	Career Pathway Project - Marketing Sales and Service	Maximum 1.0 Credit

Industry Credentials

Microsoft Office Specialist

Certified Guest Service Professional

WORK-BASED LEARNING



A work-based learning (WBL) experience provides students with educational opportunities in a work setting that typically cannot be obtained in a classroom and may include cooperative education, internships, clinical experiences, and other related opportunities. WBL should be connected to the same CTE program in which students took classes. For example, students in the Education and Training program may be working in the elementary school extended day programs.

MIDDLE SCHOOL STEM



COURSE NAME	COURSE NAME
Computer Science for Innovators and Makers - PLTW	Flight and Space - PLTW
Introduction to Python with CodeX	Green Architecture - PLTW
App Creators - PLTW	Magic of Electrons - PLTW
Design and Modeling - PLTW	Introduction to Careers in Healthcare
Automation and Robotics - PLTW	Medical Detectives - PLTW
Energy and the Environment - PLTW	Orientation to Health Science
Engineering Essentials - PLTW	Computer Science Essentials - PLTW
Science of Technology - PLTW	STEM
Career Preparedness	

APPENDIX

ALSDE Memo: Alabama High School Graduation Requirements



STATE OF ALABAMA
DEPARTMENT OF EDUCATION



Eric G. Mackey, Ed.D.
State Superintendent of Education

January 25, 2023

Alabama
State Board
of Education

MEMORANDUM

Governor Kay Ivey
President

TO: City and County Superintendents of Education

Jackie Zeigler
District I

FROM: Eric G. Mackey *EJM*
State Superintendent of Education

Tracie West
District II
President Pro Tem

SUBJECT: Revised Alabama High School Graduation Requirements

Stephanie Bell
District III

On November 10, 2022, the Alabama State Board of Education amended the *Alabama Administrative Code*, Rule No. 290-3-1.02, which added a College and Career Readiness (CCR) Indicator to the Alabama High School Graduation Requirements. Effective for students of the graduating Class of 2028 who will enter Grade 8 for the first time in the 2023-2024 school year, the Alabama High School Diploma—General Education Pathway shall be issued to students who earn the required credits and earn one or more of the following college or career readiness indicators:

Yvette M. Richardson, Ed.D.
District IV

- Earn a benchmark score in any subject area on the ACT[®] College Entrance Exam.
- Earn a qualifying score of three or higher on an Advanced Placement[®] Exam.
- Earn a qualifying score of four or higher on an International Baccalaureate[®] Exam.
- Earn college credit while in high school.
- Earn a silver or gold level on the ACT[®] WorkKeys[®] Exam.
- Complete an in-school youth apprenticeship program.
- Earn a career technical industry credential listed on the compendium of valuable credentials of the Alabama Committee on Credentialing and Career Pathways.
- Military enlistment.
- Attain Career and Technical Education (CTE) completer status.
- Any additional College and Career Readiness (CCR) indicator approved by the Alabama State Board of Education.

Tonya S. Chestnut, Ed.D.
District V

Marie Manning
District VI

Belinda McFae
District VII

Thank you for your continued enthusiasm and support as we ensure Alabama students are college and career ready. If you have questions, please contact Dr. Monica P. Mack by email at monica.mack@alsde.edu, Mrs. Cathy Lankford by email at cathy.lankford@alsde.edu, or Mrs. Cristin M. Dillard by email at cdillard@alsde.edu. They may also be reached by telephone at 334-694-4768.

Wayne Reynolds, Ed.D.
District VIII
Vice President

EGM:SJS

Eric G. Mackey, Ed.D.
Secretary and
Executive Officer

cc: Accountability Coordinators
Career and Technical Education Directors
Secondary Curriculum Directors
Special Education Coordinators
Counseling Coordinators
School Counselors
School Principals
Career Coaches
Mrs. Angela Martin
Dr. Jimmy Hull
Dr. Melissa Shields
Mr. Sean J. Stevens
Mrs. Cristin M. Dillard
Dr. Monica P. Mack
Mrs. Cathy Lankford
Mrs. Jill Prince

FY23-2021

ALSDE Memo: College and Career Readiness (CCR) Indicator Amendments



STATE OF ALABAMA
DEPARTMENT OF EDUCATION



Eric G. Mackey, Ed.D.
State Superintendent of Education

July 11, 2022

Alabama
State Board
of Education

MEMORANDUM

TO: City and County Superintendents of Education

Governor Kay Ivey
President

FROM: Eric G. Mackey *EJM*
State Superintendent of Education

Jackie Zeigler
District I

SUBJECT: College and Career Readiness (CCR) Indicator Amendments

Tracie West
District II

The United States Department of Education approved two *Every Student Succeeds Act* (ESSA) Amendment requests regarding Alabama's CCR Indicators. The result is the addition of two new CCR Indicators that are effective immediately for the state of Alabama.

Career and Technical Education (CTE) Program Completer

Stephanie Bell
District III

To meet the CCR Indicator as a CTE completer, a student must earn three (3.0) credits with the grade of a "C" or higher in CTE courses that are part of an approved CTE program of study, including the following additional requirements:

Vette M. Richardson, Ed.D.
District IV
Vice President

1. Only credits earned by completing coursework listed in the current [CTE Program Guides](#) will be counted.
2. Each credit earned must have a final grade of "C" or higher.
3. Earn a maximum of one (1.0) credit earned by completing an approved CTE Program Foundation course, where appropriate, may be counted (Career Prep can only be counted as a foundation course in Business Management Administration, Marketing, or Finance).
4. Earn a minimum of one (1.0) credit by completing an approved CTE Program Concentrator course.
5. Earn one (1.0) additional credit by completing of an approved CTE Program Concentrator course or earn one (1.0) credit by completing one of the following approved CTE Program Capstone course(s):

Tonya S. Chestnut, Ed.D.
District V

Cynthia McCarty, Ph.D.
District VI

Belinda McRae
District VII

Wayne Reynolds, Ed.D.
District VIII
President Pro Tem

- A. Earn one credit through completion of an authentic Work-Based Learning (WBL) experience in the field of study or a closely related field of study that meets Alabama State Department of Education WBL requirements. (e.g., Internship, ANFR Supervised Agricultural Experience [SAE], Cooperative Education In-field Placement or closely related field).
- B. Earn one credit through completion of an approved CTE Cluster Lab Course that meets specific guidelines related to hours and activities.
- C. Earn one credit through completion of an approved CTE Cluster Pathway Project Course that meets specific guidelines related to hours and activities.

Eric G. Mackey, Ed.D.
Secretary and
Executive Officer

This amendment applies to 2021-2022 graduates. Local education agencies may identify 2022 graduates that meet this indicator and add them to their final CCR changes that will be made for dropouts and summer school completers.

In-School Youth Apprenticeship

In order to meet the CCR Indicator for In-School Youth Apprenticeship, a student must complete the requirements for completing an In-School Youth Apprenticeship as defined by the Alabama Office of Apprenticeship.

If you have any questions or concerns, please contact Dr. Jimmy Hull, Assistant State Superintendent of Education, Career and Technical Education/Workforce Development Section, by telephone at 334-694-4767 or by email at jimmy.hull@alsde.edu.

EGM:JH:CMF

cc: City and County Career and Technical Education Directors
City and County Career and Technical Education Counselors
City and County Career Coaches
City and County CCR Key Program Contacts
City and County Counseling Coordinators
City and County Accountability Coordinators
City and County High School Counselors
City and County High School Principals
Mrs. Angela Martin
Dr. Jimmy Hull
Ms. Dawn Morrison
Dr. Marilyn Lewis
Mr. Sean J. Stevens

FY22-2065

ALSDE Memo: Revised Alabama High School Graduation Requirements



STATE OF ALABAMA
DEPARTMENT OF EDUCATION



Eric G. Mackey, Ed.D.
State Superintendent of Education

March 18, 2024

MEMORANDUM

TO: City and County Superintendents of Education
FROM: Eric G. Mackey *EGM*
State Superintendent of Education
SUBJECT: Revised Alabama High School Graduation Requirements

On December 14, 2023, the Alabama State Board of Education amended the *Alabama Administrative Code* Rule No. 290-3-1.02, to align the Alabama High School Graduation Requirements with the following actions taken during the 2023 Alabama Legislative Session:

- [Act #2023-179](#), adding the Financial Literacy Course and Examination Requirements.
- [Act #2023-365](#), requiring College and Career Readiness (CCR) attainment for students who are members of the graduating Class of 2026 and are pursuing the *Alabama High School Diploma: General Education Pathway*.

Additional guidelines for implementing the new graduation requirements and other important information for you to share with your school staff may be found [here](#). This guidance will remain on the Alabama State Department of Education Web site and will be updated as additional details are determined.

Thank you for your continued enthusiasm and support as we ensure Alabama students are college and career ready. If you have questions, please contact Mr. Sean J. Stevens by email at stevens@alsde.edu, Dr. Monica P. Mack by email at monica.mack@alsde.edu, or Mrs. Cristin M. Dillard by email at cdillard@alsde.edu. Each may also be reached by telephone at 334-694-4768.

EGM:MJS:SJS

cc: LEA Accountability Coordinators
LEA Career and Technical Education Directors
LEA Secondary Curriculum Directors
LEA Special Education Coordinators
LEA Counseling Coordinators
Mrs. Angela Martin
Dr. Jimmy Hull
Mrs. Shanthia Washington
Dr. Melissa Shields
Dr. DaLee Chambers
Mrs. Dawn Morrison
Mr. Sean J. Stevens

FY24-2032