

INDUSTRY 4.0 DIPLOMA DISTINCTION

MEMPHIS-SHELBY COUNTY SCHOOLS
COLLEGE, CAREER, & TECHNICAL EDUCATION



Industry 4.0 Diploma Distinction

The state board of education shall develop an Industry 4.0 diploma distinction for high school students who are interested in pursuing a career in a high-need, high-skill industry after graduation.

Students must successfully complete all coursework required for graduation for his/her diploma type.

- ***By the end of the student's senior year, the student must fulfill all other graduation requirements, including:***
 - Earn at least *nine (9) credits* of a dual enrollment or Work-Based Learning course (WBL).
 - Meet no less than *once per month* during the school year with a career coach.
 - Students are also granted the opportunity to *substitute* a Dual Enrollment or WBL course for one (1) Math or Science credit.



MEMPHIS-SHELBY COUNTY SCHOOLS AND ITS CAREER AND TECHNICAL EDUCATION PROGRAMS DO NOT DISCRIMINATE ON THE BASIS OF RACE, COLOR, CREED, NATIONAL ORIGIN, SEX, RELIGION, DISABILITY, AGE OR GENETIC INFORMATION IN ITS PROGRAMS OR ACTIVITIES AND PROVIDES EQUAL ACCESS TO THE BOY SCOUTS AND OTHER DESIGNATED YOUTH GROUPS.



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Graduation Substitution Policy

Approved Course Substitutions

- *Fourth Credit Math*

Courses substituting for mathematics credit should contain mathematics content that extends the student's mathematics knowledge beyond Algebra II/Integrated Math III content. Students must be enrolled in a mathematics course each year; therefore, the substituting course credit will need to be earned following the Algebra II/Integrated Math III credit. The following list includes allowable course substitutions for the fourth credit of math.

- Programs of Study:
 - International Baccalaureate Mathematics Program
 - Cambridge Mathematics Program
 - Advanced Placement Mathematics Program
- Statewide Programs:
 - Dual Enrollment Mathematics Program
 - Statewide Dual Credit Pre-Calculus
 - Statewide Dual Credit Statistics
- Science:
 - Physics
 - AP Physics C: Electricity & Magnetism
 - AP Physics C: Mechanics
 - AP Physics I: Algebra-Based
 - AP Physics II: Algebra-Based
 - AP Computer Science Principles
 - AP Computer Science A
- Computer Science:
 - International Baccalaureate Computer Science Program
 - Cambridge International Computer Science Program
 - Dual Enrollment Computer Science Program
 - Computer Science
 - AP Computer Science Principles
 - AP Computer Science A
 - Computer Science Foundations
 - Coding I
 - Coding II
 - Coding Practicum
 - Cybersecurity I
 - Cybersecurity II
 - Cybersecurity Practicum
 - Mobile App Development
- CTE Course Substitutions:
 - Agricultural Fabrication & Biosystems Engineering
 - Principles of Farm and Agribusiness Management
- Work Based Learning Courses:
 - Coding Practicum
 - IT (Information Technology) Clinical Internship
 - Web Design Practicum
 - Cybersecurity Practicum
 - Manufacturing Practicum
 - Engineering Practicum
 - STEM IV: Practicum
 - Supply Chain Management Practicum
 - Teaching as a Profession Practicum (Math Placement)

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Graduation Substitution Policy

- *Third Lab Science*

Courses substituting for the third year lab science credit should contain science content that extends the student's knowledge beyond the first and second year lab science content. The following list includes allowable course substitutions for the third year lab science.

- Programs of Study:
 - International Baccalaureate Science Program
 - Cambridge Science Program
 - Advanced Placement Science Program
- Statewide Programs:
 - Dual Enrollment Science Program
 - Statewide Dual Credit Science Program
- Computer Science:
 - International Baccalaureate Computer Science Program
 - Cambridge International Computer Science Program
 - Dual Enrollment Computer Science Program
 - Computer Science
 - AP Computer Science Principles
 - AP Computer Science A
 - Computer Science Foundations
 - Coding I
 - Coding II
 - Coding Practicum
 - Cybersecurity I
 - Cybersecurity II
 - Cybersecurity Practicum
 - Mobile App Development
- CTE Course Substitutions:
 - Advanced Food Science
 - Agriscience
 - Applied Environmental Science
 - BioSTEM I
 - BioSTEM II
 - BioSTEM III
 - Engineering Design I
 - Engineering Design II
 - Food Science & Safety
 - Human Anatomy & Physiology
 - Natural Resources Management
 - Nutrition Science & Diet Therapy
 - Plant & Soil Science
 - Principles of Engineering & Technology (PLTW)
 - STEM I: Foundations
 - STEM II: Applications
 - STEM III: STEM in Context
 - Veterinary Science Technologies
- Work Based Learning Courses:
 - Coding Practicum
 - IT (Information Technology) Clinical Internship
 - Web Design Practicum
 - Cybersecurity Practicum
 - Clinical Internship
 - Nursing Education
 - Emergency Medical Services Practicum
 - BioStem Practicum
 - STEM IV: Practicum

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