Information Technology Computer Security

The jobs of today require highly skilled technicians. Gain the knowledge and hands-on experience that will make you employable in these rewarding careers.

GENESEE COUNTY

CAREER TECHNICAL EDUCATION
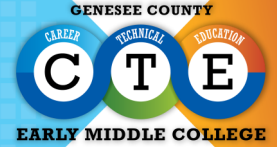# C T E
EARLY MIDDLE COLLEGE

The Computer Occupations Technology program at Mott Community College prepares students for both the Associate of Applied Science Degree and Certificate of Achievement.

Computer Occupations Technology-Computer Security is a CompTIA accredited degree and certificate program based on industry demands, local business input, and the experience of our faculty. The Computer Security Certificate of Achievement prepares students to quickly gain a high quality skill set to pursue entry-level positions within information technology security. Students will customize their program of study to prepare for one or more of the industry assessments: CompTIA A+, CompTIA Network+, and CompTIA Security+.

MOTT COMMUNITY COLLEGE

Information Technology Computer Security

A Genesee County Career and Technical Education Early Middle College Partnership

GENESEE COUNTY
CTE
EARLY MIDDLE COLLEGE

ESSENTIAL ELEMENTS

In addition to the 5-year plan of study, these POS Essential Elements are integral to the student's educational development.

Career and Technical Student Organization (CTSO)

Community Service

Educational Development Plan (EDP)

Work-Based Learning (WBL)

What is an Early Middle College?

The Genesee County Career and Technical Education Early Middle College (GC CTE EMC) is a unique opportunity for students to explore and earn an associate's degree, credential or transferable credit in a CTE Career Pathway while in high school.

Students will begin blending their high school course work with college level coursework in 11th grade, adding additional college courses in 12th grade and complete a full schedule of college coursework in a 13th year.

What is the MEMCA Certificate?

Michigan Early Middle College Association (MEMCA) Certificate recognizes early middle college students who successfully complete a minimum of 15 college credit hours and 100 hours of verified community service, a minimum of 40 hours of work-based learning or a combination of both that equals a minimum of 70 hours.

SEQUENCE OF COURSES

The grades 9-13 sequence of courses includes the Michigan Merit Curriculum Requirements and the required college course work for the listed credentials. See Sequence of Course legend below.

[1]Students must place into these courses through a placement test. If a student does not place into these classes, the sequence of courses will be modified for the student's individual plan of study.

*Michigan Merit Curriculum: These requirements can be met by successfully completing the first course in the same box. This option will vary by district; please discuss with your local counselor.

**Students will enroll in this college course.

***Students receive free college credit for this course by successfully completing the first course listed in the box.

9TH GRADE SEQUENCE OF COURSES		10TH GRADE SEQUENCE OF COURSES	
1st Semester	**2nd Semester**	**1st Semester**	**2nd Semester**
English 9	English 9	English 10	English 10
Math	Math	Math	Math
Science	Science	Science	Science
Social Studies	Social Studies	Social Studies	Social Studies
Foreign Language	Foreign Language	Physical Education	Health
Band/Choir/Fine Arts/VPAA	Band/Choir/Fine Arts/VPAA	Band/Choir/Fine Arts	Band/Choir/Fine Arts

11TH GRADE SEQUENCE OF COURSES

1st Semester	2nd Semester
GCI Computer Hardware Technician	GCI Computer Hardware Technician
COMC 115 A+ Core Hardware Components***	COMC 125 A+ Operating System Technologies***
2nd Year Foreign Language, 3rd Year Science & VPAA*	2nd Year Foreign Language, 3rd Year Science & VPAA*
MATH 120 Intermediate Algebra ** Algebra II[1]	COMG-153 Computers - A Practical Approach **
ENGL 101 English Composition I ** English 11[1]	COMN 120 Network Essentials **
Government	Elective
Band/Choir/Fine Arts or Elective	Band/Choir/Fine Arts or Elective

12TH GRADE SEQUENCE OF COURSES

1st Semester	2nd Semester
GCI Game Programming	GCI Game Programming
COMS 170 Intro to Programming***	COMW 100 Intro to Web Page Creation***
2nd Year Foreign Language, 3rd Year	2nd Year Foreign Language, 3rd Year
ENGL 102 English Composition II ** English 12[1]	COMN 144 Network Infrastructure Configuration & Implementation**
COMN 164 Client and Server Administration**	COMI 160 Introduction to Computer Info Systems**
COMG 162 Introduction to Operating Systems**	Elective
Band/Choir/Fine Arts or Elective	Band/Choir/Fine Arts or Elective

13TH GRADE SEQUENCE OF COURSES

1st Semester	2nd Semester
COMS 176 Intro to .NET Programming ** Final Year Math/4th Math Related	PSCN 170 American Government or ECON 221 Principles of Economics (Macro) ** Civics/Economics[1]
COMN 184 Information Security in a Digital Age**	COMN 224 Network Security Practices **
COMM 140 Principles of Interpersonal Communications**	COMN 274 Cybersecurity and Ethical Hacking**
COMI 169 Supporting End Users**	COMN 174 Advanced Network
LDDV 101 Leadership Development**	

This Program of Study is a guide; an individual sequence of courses will be developed for each student and is subject to change by student readiness, course

HOW TO ENROLL

DEGREE/ CERTIFICATION

Information Technology-Computer Security Option, A.A.S.

Mott Community College Certificate of Achievement in Computer Security

INDUSTRY CREDENTIALS

Comp TIA A+

Comp TIA Network +

Comp TIA Security+

WAGES AND EMPLOYMENT TRENDS

Median National Wages 2022
$53.85 hourly, $112,000 annual

Median State Wages 2022
$47.41 hourly, $98,620 annual

National Employment 2022
168,900 employees

Projected National Growth 2022-2032 9% or higher

Projected National Openings 2022-2032 16,800 employees

Source: Bureau of Labor Statistics.

GENESEE COUNTY

C T E

CAREER TECHNICAL EDUCATION

EARLY MIDDLE COLLEGE

PARTICIPATING DISTRICTS

Beecher • Bendle • Carman-Ainsworth • Clio • Davison • Fenton • Flushing
Genesee • GISD • Goodrich • Grand Blanc • Kearsley • Lake Fenton • LakeVille
Linden • Montrose • Mt. Morris • Swartz Creek • Westwood Heights

The Genesee County Career Technical Education Early Middle College is available to Genesee County high school students through a partnership of Genesee County public school districts and the Genesee Intermediate School District (GISD).

GENESEE COUNTY PUBLIC SCHOOL DISTRICTS
Achieving excellence together!

GISD
Genesee Intermediate School District

Baker College

Students accepted into the Genesee County Career Technical Education Early Middle College program will remain students of their high school and may attend courses at Baker College, Genesee Career Institute, University of Michigan Flint, Ferris State University, and Mott Community College to complete requirements in their Program of Study.

FERRIS STATE UNIVERSITY

MOTT COMMUNITY COLLEGE

M FLINT

GCI GENESEE CAREER INSTITUTE
Explore. Experience. Excel.

**For more information contact:
Genesee County Career Technical Education
Early Middle College Coordinator**

**Phone: (810) 591-3288
Email: gc-cte-emc@geneseeisd.org
Website: www.gccteemc.org**

9-20-23