

COLLEGE: Montgomery College
 CLUSTER: Arts, Humanities, Media, and Communication
Multimedia & Interactive Technologies

HIGH SCHOOLS: J.H. Blake, W. Churchill, W. Johnson, Northwood, and Sherwood

MCPS PROGRAM: Simulation and Gaming Option

MC PROGRAM: Computer Gaming and Simulation, A.A.

The Multimedia Production Option provides students with experience in Internet technology and web site development, computer graphics, digital media production, and project management. Students produce three-dimensional models, two-dimensional animations, layered images, streaming media, and web pages for portfolios.

STUDENT ENTRY POINTS

	GRADE	ENGLISH	MATH	SCIENCE	SOCIAL STUDIES	REQUIRED COURSES			
						RECOMMENDED ELECTIVE COURSES	OTHER ELECTIVE COURSES	CAREER AND TECHNICAL EDUCATION COURSES	
SECONDARY	9	English	Algebra 1 or Geometry	Physical Science	US Government	Foundations of Art A/B	Physical Education (.5) Health (.5)	Foundation in Arts, Humanities, Media, and Communication A/B	
	Entrepreneurship and Business Management A/B is a highly recommended course.								
	10	English	Geometry or Algebra II	Biology	World History	Foreign Language	MultiMedia Technologies and Game Development A/B	Discovering Programming Concepts A/B* or Computer Programming 1 A/B*	
	11	English	Algebra II or Trigonometry/ Pre-Calculus	Chemistry	US History	Foreign Language	Technology Education	Advanced Simulation and Gaming A/B	
	12	English	Trigonometry or Pre-Calculus	Physics	Economics or AP Microeconomics	Select one credit from: Guided Research–Arts, Humanities, Media, & Communications (AHMC), Internship-AHMC, or College-AHMC	Entrepreneurship & Business Management A/B or Computer Programming 1 A/B* or AP Computer Programming 2 A/B**		
An articulation agreement is being developed.									
POSTSECONDARY	Year 1 1st Semester	Speech Foundation	Mathematics Foundation		Behavioral and Social Sciences Distribution	CG 120 Computer Graphics: Arts and Illustration I	CA 125 Introduction to Flash	CA 190 Introduction to Game and Simulation Development	
	Year 1 2nd Semester	English Foundation	MA 182 Calculus II			CA 272 Professional Website Development	CA 195 Building Gaming Worlds: Level Design, Mods, & Quality Assurance		
	Year 2 1st Semester	Arts or Humanities Distribution		Natural Sciences Lab Distribution		CG 210 Computer Graphics: Introduction to Animation	CA 288 Advanced Web Application Development Using ColdFusion	Health Foundation	
	Year 2 2nd Semester			Natural Sciences Distribution without Lab	Humanities Distribution	CG 121 Computer Graphics: Art and Illustration II	CG 222 Computer Graphics 3-D Modeling	CG 226 Special Topics in Computer Graphics	

Note: Four information technology credits are required to complete this career pathway program.

* Technology Education Credit for class of 2010 and 2011 only

** Advanced Technology Education Credit for class of 2010 and 2011



This MCPS CTE program is approved by the Maryland State Department of Education for graduates in 2012.

Required Courses
Recommended Elective Courses
Career and Technical Education Courses
Credit-Based Transition Programs (e.g. Dual/Concurrent Enrollment, Articulated Courses, 2+2+2) (◆=High School to Com. College)(●=Com. College to 4-Yr Institution)
Mandatory Assessments, Advising, and Additional Preparation



Arts, Media, and Communication

2009–2010

MultiMedia and Interactive Technologies (OASIS Code = MI) Simulation and Gaming Option CIP 10.0105.0			
Requirements for Program Completion (1 credits A) + (2 credits B) + (1 credit C)			
Code	Course #	Course Title	Credit
A	5195/5196	Foundation in Arts, Humanities,)Media, and Communication A/B (pilot at select schools in FY 2010	1.0
B	2904/2905	Multimedia Technologies and Game Development A/B	1.0
	TBD	Advanced Simulation and Gaming A/B	1.0
C	5717	Internship–Arts, Humanities, Media, and Communications (Unlimited Repeats)	.5
	TBD	College-Arts, Humanities, Media, and Communications	.5
	5310/5311	Guided Research–Arts, Humanities, Media, and Communications A/B	1.0

Articulation Agreements with Montgomery College (MC)

Articulation agreements are being developed.

For more information, go to:

<http://www.montgomeryschoolsmd.org/departments/cte/toolkit/ClusterInfo/ArtsHumanities/index.shtm>