

COLLEGE: Montgomery College (MC)

HIGH SCHOOLS: Kennedy, Paint Branch, Sherwood, Thomas Edison HS of Technology,

CLUSTER: Biosciences, Health Sciences, and Medicine

Watkins Mill, Wheaton

MCPS PROGRAM: Medical Careers

MC PROGRAM: Health Information Management A.A.S.

The Medical Careers program provides students with certified health care skills that enable them to train and work along with health care professionals in various settings. Instruction focuses on anatomy, physiology, related-disease conditions, medical terminology, patient care skills, and current health care issues. Other areas of emphasis include body mechanics, vital signs, principals of infection control, and care of the hospitalized.

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STUDENT ENTRY POINTS

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	GRADE	ENGLISH	MATH	SCIENCE	SOCIAL STUDIES	REQUIRED COURSES			
						RECOMMENDED ELECTIVE COURSES	OTHER ELECTIVE COURSES	CAREER AND TECHNICAL EDUCATION COURSES	
SECONDARY	9	English	Algebra I or Geometry	Matter & Energy or Biology	Social Studies	Foreign Language	Physical Education	◆ Software Applications by Design A/B	
	<b>Anatomy &amp; Physiology, AP Biology, AP Chemistry, and Psychology are recommended.</b>								
	10	English	Geometry or Algebra 2	Biology, Chemistry, or AP science coursework	Social Studies	Foreign Language	Health (.5) Elective (.5)	Fine Arts	
	11	English	Algebra 2, Pre-calculus, AP Calculus, AP Statistics	Chemistry, Physics, or AP science coursework	Social Studies	Foundations of Technology	◆ Medical Careers A/B	◆ Medical Careers Science A/B	
	<b>Students participate in an internship at the medical facilities affiliated with their school-based medical careers program.</b>								
	12	English	Pre-calculus, AP Calculus, AP Statistics	Physics or AP science coursework	Anatomy & Physiology	Psychology	◆ Medical Careers Internship (optional), Medical Careers Science A/B (prerequisite) or AP science coursework or College-Biosciences		
<b>Articulate up to 5 credits with a grade of B or better for a tuition savings of \$682 at Montgomery College. See Medical Careers agreement.</b>									
POSTSECONDARY	Year 1 1st Semester	EN 101 Techniques of Reading and Writing I	MA 116 Elements of Statistics or Mathematics Foundation	BI 204 Human Anatomy and Physiology I		HI 104 Introduction to Health Information Management	◆ HE 107 First Aid and CPR	◆ CA120 Introduction to Computer Applications	SP 112 Business & Prof Speech or SP 108 Intro to Human Communication
	Year 1 2nd Semester	English Foundation		BI 205 Human Anatomy and Physiology II	HI 105 Legal Aspects of Health Information	HI 103 Assembly & Analysis & Alternate Health Care Delivery	HI 111 Professional Practice Experience I	HI 226 Research in Health Information	HI 106 Intro to & Legal Aspects of Health Info Lab
	Year 2 1st Semester		HI 222 Electronic Patient Billing	HI 214 Introduction to Pharmacology	Behavioral and Social Sciences Distribution	HI 113 Management of Health Information	HI 114 Automation of Health Information	HI 125 Medical Terminology I	HI 220 Advanced Coding and Reimbursement
	Year 2 2nd Semester	Arts or Humanities Distribution	HI 203 Statistics for Health Information	HI 135 Concepts of Disease		HI 126 Medical Terminology II	HI 200 ICD Coding	HI 204 Performance Improvement in Health Information	HI 212 Professional Practice Experience II
	Additional Courses					HI 211 Professional Practice Experience II	HI 213 CPT Coding	HI 104 Introduction to Health Information Management	HI 221 Ambulatory Coding

Students who complete the MCPS program (courses in red) in high school do not have to repeat the courses in red at MC.



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)(■=Opportunity to test out)
Mandatory Assessments, Advising, and Additional Preparation

COLLEGE: Montgomery College

HIGH SCHOOLS: Kennedy, Kennedy, Paint Branch, Sherwood, Thomas Edison

CLUSTER: Biosciences, Health Sciences, and Medicine

HS of Technology, Watkins Mill, Wheaton

MCPS PROGRAM: Medical Careers

MC PROGRAM: Physical Therapy Assistant A.A.S.

The Medical Careers program provides students with certified health care skills that enable them to train and work along with health care professionals in various settings. Instruction focuses on anatomy, physiology, related-disease conditions, medical terminology, patient care skills, and current health care issues. Other areas of emphasis include body mechanics, vital signs, principals of infection control, and care of the hospitalized.

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 I or Geometry	Matter & Energy or Biology	Social Studies	Foreign Language	Physical Education	◆ Software Applications by Design A/B		
	<b>Anatomy &amp; Physiology, AP Biology, AP Chemistry, and Psychology are recommended.</b>									
	10	English	Geometry or Algebra 2	Biology, Chemistry, or AP science coursework	Social Studies	Foreign Language	Health (.5) Elective (.5)	Fine Arts		
	11	English	Algebra 2, Pre-calculus, AP Calculus, AP Statistics	Chemistry, Physics, or AP science coursework	Social Studies	Foundations of Technology	◆ Medical Careers A/B	◆ Medical Careers (Science) A/B		
	<b>Students participate in an internship at the medical facilities affiliated with their school-based medical careers program.</b>									
12	English	Pre-calculus, AP Calculus, AP Statistics	Physics or AP science coursework	Anatomy & Physiology	Psychology	Two credits from: Medical Careers Internship A/B, AP Biology A/B, AP Chemistry A/B, College-Biosciences, Health Sciences, & Medicine				
<b>Articulate up to 5 credits with a grade of B or better for a tuition savings of \$665 at Montgomery College. See Medical Careers agreement.</b>										
POSTSECONDARY	Year 1 1st Semester	EN 101 Techniques of Reading & Writing I		BI 204 Human Anatomy and Physiology I	PT 103 Therapeutic Procedures I	Speech Foundation	◆ HE 107 First Aid and CPR	PT 101 Introduction to Physical Therapy	PT 102 Basic Health Skills for the PT Asst.	
	Year 1 2nd Semester	English Foundation		BI 205 Human Anatomy & Physiology II		PT 105 Kinesiology	PT 103 Therapeutic Procedures II	PT 112 Pathology for the PT Asst.	PT 111 Clinical Practicum I	
	Year 2 1st Semester	Speech Foundation	Mathematics Foundation		PY 203 Human Growth & Development During the Life Span	PT 201 Medical Reporting for the PT Asst.	PT 208 Therapeutic Procedures III	PT 212 Psychological Aspects of Therapy for the PT Asst.	PT 209 Clinical Practicum II	
	Year 2 2nd Semester					PT 211 Rehabilitation Procedures	PT 213 Therapeutic Procedures IV	PT 214 Clinical Practicum III	◆ CA120 Introduction to Computer Applications	

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Required Courses
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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) (■=Opportunity to test out)

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



# Biosciences, Health Sciences, and Medicine

2009–2010

<b>Medical Careers (OASIS = MC) *application program*</b> <b>CIP 51.9999.4</b>			
<b>Requirements for Program Completion</b> <b>1.5 credits A + 1.5 credits B or (2 credits B) + (1 credit C) (TEHST only)</b> <b>or</b> <b>(1.0 credit A) + (1.0 credit B) + (2 credits C)</b>			
Code	Course #	Course Title	Credit
<b>A</b>	5833	Medical Careers A DP(Thomas Edison HS)	1.0
	5418	Medical Careers A	0.5
	3995	Medical Careers A (Science)	0.5
<b>B</b>	5834	Medical Science A DP (Thomas Edison HS)	1.0
	5419	Medical Careers A/B	1.0
	3996	Medical Careers A/B (Science)	0.5
<b>C</b>	5415	Medical Careers Internship A/B (Unlimited repeats)	0.5
	3641/3642	Biology, Advanced Placement A/B	1.0
	3651/3652	Biology, Advanced Placement A/B (double period)	2.0
	3606/3607	IB Biology A/B CM AL (double period)	2.0
	3741/3742	Chemistry, Advanced Placement A/B	1.0
	3751/3752	Chemistry, Advanced Placement A/B (double period)	2.0
	3746/3747	IB Chemistry A/B CM AL	1.0
	3870	College-Biosciences, Health Sciences, and Medicine Advanced level (unlimited repeats)	0.5

### **Articulation Agreements with Montgomery College (MC)**

Students can articulate up to **5** credits at Montgomery College for a savings of **\$682**.

For more information, go to:

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