

COLLEGE: Montgomery College (MC)

HIGH SCHOOLS: Paint Branch, Kennedy, Seneca Valley

CLUSTER: Biosciences, Health Sciences, and Medicine

MCPS PROGRAM: Academy of Health Professions

MC PROGRAM: Physical Therapist A.A.S.

The Academy of Health Professions program focuses on preparing students academically and technically for the many careers in health science and medicine. The program utilizes project and problem-based learning, clinical experiences as well as classroom and lab instruction to teach students the academic and career knowledge related to health care. With the skills obtained through this program, students will be better prepared to make decisions involving their future as they pursue postsecondary and workforce options.

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		
	Anatomy and Physiology, AP Biology, and Chemistry are high recommended courses for this program.									
	10	English	Geometry or Algebra 2	Biology, Chemistry, or AP science coursework	Social Studies	Foreign Language	Health (.5) Elective (.5)	Foundations of Medicine and Health Science A/B		
	11	English	Algebra 2, Pre-calculus, AP Calculus, Statistics	Chemistry, Physics, or AP science coursework	Social Studies	Foreign Language	Foundations of Technology	Anatomy & Physiology for Health Professions A/B		
	Students may elect to participate in intensive laboratory internships or dual enroll in approved college coursework as part of the program.									
	12	English	Pre-calculus, AP Calculus, AP Statistics	Physics or AP science coursework		Science Elective	Fine Arts	**Choose 2 credits from courses listed below:		
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.										
POSTSECONDARY	Year 1 1st Semester	EN 101 Techniques of Reading & Writing I		PT 102 Basic Health Skills for the PA Assistant	PY 102 General Psychology	PT 103 Therapeutic Procedures I	♦HE 107 First Aid and CPR	BI 204 Human Anatomy and Physiology I*	PT 101 Introduction to Physical Therapy	
	Year 1 2nd Semester	English Foundation	Mathematics Foundation (summer semester)	BI 205 Human Anatomy & Physiology II		PT 105 Kinesiology	PT 110 Therapeutic Procedures II	PT 111 Clinical Practicum I	PT 112 Pathology for the PA Assistant	
	Year 2 1st Semester	Arts & Humanities Distribution (summer semester)		PT 212 Psych Aspects of Therapy for the PA Asst		PT 201 Medical Reporting for the PT Asst.	PT 208 Therapeutic Procedures III	PT 209 Clinical Practicum II	♦CA120 Computer Applications	
	Year 2 2nd Semester	Speech Foundation				PT 211 Rehabilitation Procedures	PT 213 Therapeutic Procedures IV	PY 203 Human Growth & Development during the Lifespan	PT 214 Clinical Practicum III	

** 1) Fundamentals of Pharmacy A/B, 2) Guided Biosciences A/B, 3) College Biosciences, 4) ♦Medical Careers A/B and Medical Science A/B, 5) Internship Biosciences, 6) AP/IB science coursework

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)



Biosciences, Health Sciences, and Medicine

2009–2010

Academy of Health Professions (OASIS Code = HP) CIP 51.1103.4			
Requirements for Program Completion (1 credit A) + (1 credit B) + (2 credits C)			
Code	Course #	Course Title	Credit
A	4044/4045	Foundations of Medicine and Health Science A/B	1.0
B	4042/4043	Anatomy and Physiology for Health Professions A/B	1.0
C	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
	5418/5419	Medical Careers A/B <i>*application program*</i>	1.0
	3995/3996	Medical Careers A/B (Science)	1.0
	or	or	or
	5833/5834	Medical Careers A/B(Thomas Edison HS)	2.0
	3995/3996	Medical Careers A/B (Science) (Thomas Edison HS)	1.0
	3684/3685	Fundamentals of Pharmacy A/B (Advanced Level)	1.0
	TBD	Physical Rehabilitation Science (<i>under development</i>)	TBD
	3741/3742	Chemistry, Advanced Placement A/B	1.0
	3751/3752	Chemistry, Advanced Placement A/B (double period)	2.0
	3746/3747	IB Chemistry I A/B CM AL	1.0
	3875/3876	Guided Research-Biosciences, Health Sciences, Medicine A/B (Advanced Level)	1.0
3869	Internship-Biosciences, Health Sciences, and Medicine Advanced Level (Unlimited Repeats)	1.0	
3870	College-Biosciences, Health Sciences, and Medicine Advanced Level (Unlimited Repeats)	.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/prog_health_prof.pdf