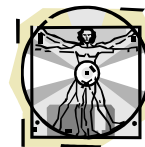




Application Form for the 2017-2018 Medical Science with Clinical Applications Pathway



**The application deadline to be considered for the 2017-2018
Medical Science with Clinical Applications Pathway is February 28, 2017**

Program Description

The Medical Science with Clinical Applications program is a two semester career course that enables students to explore careers in the health care industry and to gain skills related to patient care practiced in hospitals and long-term care facilities. Students receive Cardiopulmonary Resuscitation (CPR) training and may be eligible for certification as a Certified Nursing Assistant.

Medical Science meets the graduation requirement for completion of a career development program. Students completing the full-year Medical Science program will earn a total of two credits. Students successfully completing the first semester of the school-based Medical Science program will be invited to participate in a second semester clinical rotation at a local hospital and/or a long-term care facility. Students will spend four days a week, for two periods per day, at the clinical rotation site. One day a week students will participate in a seminar related to their clinical rotation experience.

Program Entrance Requirements

The student must:

- Be 16 years of age by December 31, 2017.
- Be either a high school junior or senior by August 2017.
- Have a minimum cumulative unweighted Grade Point Average of 2.5.
- Completed Foundations of Health and Medicine AND Structures and Functions of the Human Body with a C in both semesters.
- Have completed Biology A/B and Chemistry A/B achieving a grade of "B" **equivalent** or better for each semester.
- Concurrently enrolled in one of the above sciences if both courses have not been previously completed.
- Have fully completed the application by the February 28, 2017 deadline. Completing the Medical Science application by the deadline does not guarantee acceptance into the program. The attached Medical Science Scoring Rubric is used as a tool to identify qualified candidates.
- Be willing to provide appropriate documentation required by the hospital and/or long-term care facility that may include a social security number and/or proof of citizenship/green card. Additional requirements may include fingerprints, background checks, drug screening, evidence of insurance coverage, tuberculosis screening, blood titer results and a flu shot. For more information, contact the Medical Science teacher at the appropriate program location.
- Possess excellent communication skills, maturity, and the physical ability to independently perform patient care skills as outlined in the Omnibus Budget Reconciliation Act (OBRA) regulations. During the second semester clinical rotation, students are involved in hands-on patient care at a local hospital and/or a long-term care facility under the supervision of the Medical Careers / Medical Science teacher/registered nurse. A copy of the "OBRA Required Nursing Assistant Skills Checklist" (Page 2) is included in this packet for your review.

Second Semester Entrance Requirements

The student must:

- Be concurrently enrolled in Chemistry B or Biology B (if not previously completed) at the student's home school.
- Successfully complete the Medical Science A course, achieving a minimum first & second quarter grade of a C and final exam grade of 75%; maintain a 95 percent attendance rate; obtain the American Heart Association Health Care Provider CPR; and secure a favorable recommendation from the Medical Science teacher prior to enrollment in the second semester Medical Science B course.
- Comply with expectations in the employees' handbook of the cooperating health care agencies.

Directions:

Please review this OBRA Required Nursing Assistant Skills Checklist prior to signing page 4.

OBRA- Required Nursing Assistant Skills	
ISOLATION TECHNIQUES	VITAL SIGNS
Hand washing	Measuring oral temperature (electronic thermometer)
Putting on gloves	Measuring rectal temperature (electronic)
Putting on a mask	Measuring axillary/groin temperature (electronic)
Putting on a gown	Measuring tympanic temperature
Removing contaminated gloves	Counting radial pulse
Removing contaminated gloves, mask, and gown	Counting respirations
Measuring vital signs in an isolation unit	Taking blood pressure
Caring for linens in an isolation unit	Measuring height and weight (upright scale)
Transferring non-disposable equipment outside of an isolation unit	Weighing – chair/wheelchair
Serving a meal in an isolation unit	Weighing – bed
ACTIVITIES OF DAILY LIVING	MOBILITY/AMBULATION/TRANSFER
Bed bath	Turning the patient toward you
Partial bath	Turning the patient away from you
Back rub	Moving a patient to the head of the bed
Female perineal care	Log rolling the patient
Male perineal care	Applying a transfer belt
Hand and fingernail care	Assisting a patient to dangle
Dressing and undressing patient	Transferring from bed to chair to bed (1 person)
Assisting with routine oral hygiene	Transferring from bed to chair to bed (2 person)
Assisting with special oral hygiene of unconscious patient	Assisting with use of bedside toilet
Caring for dentures	Stand-by assist with independent transfer
Bed shampoo	Assisting to walk with a walker and three point gait
Daily hair care	Assisting to walk with a cane and three point gait
Shaving a male patient/resident	Assisting the falling patient/resident
Applying elasticized stockings	Performing range-of-motion exercises (passive)
Applying/removing a behind-the-ear hearing aid	Transferring the patient with a mechanical lift
Applying and removing an in-the-ear hearing aid	Transferring the patient into and out of the bathtub
Assisting the patient who can feed self	Assisting with tub/shower
Feeding the dependent patient	
Giving and receiving the urinal	HEALTHCARE PROVIDER CPR
Routine drainage check	Complete Healthcare Provider CPR Course
Giving postmortem care	
Making and opening a closed bed	
Making the occupied bed	

Application Process

- All application packets must be completed and received by **Feb 28, 2017** to be considered for the program.
- All applicants and their parents/guardians must complete the following checklist:

Medical Careers 2017-2018 Application Checklist	
	Review the Medical Science program description (page 1).
	Review the Medical Science entrance and completion criteria (page 1).
	Review the OBRA Required Nursing Assistant Skills Checklist.
	Attach a copy of the school transcript.
	Attach a copy of the most recent report card &/or interim grade report.
	Complete the Medical Science program application.

- Forward this application packet with a copy of your ***school transcript*** and most ***recent report card &/or interim grade report*** to the Medical Science Program that you are interested in attending.

Medical Program Location	Feeder High Schools	Forward Application to:
John F. Kennedy HS 1901 Randolph Road Silver Spring, MD 20902	<ul style="list-style-type: none"> John F. Kennedy HS only <p><i>* prerequisite: program entrance requirements listed on page 1 of this application</i></p>	Barbara J. Marchwicki Barbara_J_Marchwicki@mcpsmd.org
Paint Branch HS 14121 Old Columbia Pike Burtonsville, MD 20866	<ul style="list-style-type: none"> Paint Branch HS only <p><i>* prerequisite: program entrance requirements listed on page 1 of this application</i></p>	Melanie Boslego Melanie_M_Boslego@mcpsmd.org
Sherwood HS 300 Olney-Sandy Spring Road Sandy Spring, MD 20860	<ul style="list-style-type: none"> Sherwood HS only <p><i>* prerequisite: program entrance requirements listed on page 1 of this application</i></p>	Stephanie S. Gelfand Stephanie_S_Gelfand@mcpsmd.org
Watkins Mill HS 10301 Apple Ridge Road Gaithersburg, MD 20879	<ul style="list-style-type: none"> Watkins Mill High School only <p><i>* prerequisite: program entrance requirements listed on page 1 of this application</i></p>	Paula Mascendaro Paula_M_Mascendaro@mcpsmd.org
Thomas Edison HS of Technology 12501 Dalewood Drive Silver Spring, MD 20906	<ul style="list-style-type: none"> All MCPS High Schools without a medical science course at their home school are able to apply if they have completed Foundations of Health and Medicine A/B & Structures and Functions of the Human body A/B 	Lynne Harris Ruth_L_Harris@mcpsmd.org

MEDICAL SCIENCE PROGRAM APPLICATION Complete in black ink.

CURRENT SCHOOL

STUDENT ID #

STUDENT NAME

GENDER

HOME ADDRESS

HOME PHONE

CELL PHONE

E-MAIL ADDRESS

AGE & DATE OF BIRTH

GRADE LEVEL NEXT SCHOOL YEAR

SOCIAL SECURITY NUMBER OR NATIONAL ID NUMBER

SCHOOL COUNSELOR

EMERGENCY CONTACT INFORMATION

PARENT/GUARDIAN

CELL PHONE

HOME PHONE

EMAIL ADDRESS

ALTERNATE CONTACT PERSON

CELL PHONE

EMAIL ADDRESS

HEALTH INSURANCE CARRIER & POLICY #

REQUIREMENTS

I have reviewed and provided all documents required for consideration for entrance in the Medical Science Program.

Student signature _____

I have reviewed the "OBRA Required Nursing Assistant Skills Checklist" on page 2. To the best of my knowledge, I can independently function in the classroom and clinical setting for the duration of the yearlong Science Program. Additionally, I am aware that I must comply with expectations in the employee's handbook of the cooperating health care agencies.

Student signature _____

Parent Signature _____

I have reviewed the table on page 3, and I am applying to the Medical Science program. Please check the school location you plan to attend.

- _____ John F. Kennedy HS
- _____ Paint Branch HS
- _____ Sherwood HS
- _____ Watkins Mill HS
- _____ Edison HS

MEDICAL SCIENCE SCORING RUBRIC

**school staff completes each blank as appropriate using a numeric conversion and totals all numbers.*

CURRENT GPA (WEIGHTED):	_____
BIOLOGY OR CHEMISTRY GRADE: (Average for both semesters)	_____
BONUS FOR HONORS BIOLOGY OR CHEMISTRY: (0.5 point for each semester)	_____
BONUS FOR OTHER UPPER LEVEL SCIENCE COURSES: (0.5 point for each semester)	_____
ATTENDANCE: (Use attendance in the current year's science class) 3 points for 4 or less absences per semester in science class 2 points for 5–8 absences per semester in science class 1 point for 9–12 absences per semester in science class 0 point for more than 12 absences per semester in science class	_____
TOTAL:	_____
COMMENTS:	

**For questions, please contact Susan Phillips, Coordinator,
via e-mail at Susan_E_Phillips@mcpsmd.org.**

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