

DEARBORN PUBLIC SCHOOLS

DCMST APPLICATION PACKET
8th Grade

2016-2017

Dearborn Center for Mathematics, Science & Technology

December 10, 2015

Dear Parents of 8th grade students,

Your child may be qualified for enrollment as a ninth grader in the Dearborn Public School's Dearborn Center for Mathematics, Science & Technology (DCMST). The DCMST is a community of learners sharing a high interest and achievement in math and science. Students attend the Center for three class periods each day and complete the remainder of their academic schedule at one of the Dearborn Public School high schools. This challenging four-year program provides an in-depth, project-based, problem-solving approach that integrates technology with math and science. All students participate in individual research and have the opportunity to enroll in advanced placement and college courses.

Entry into the program is at the ninth grade level for those students currently enrolled in Algebra I. (If students have high school credit for Biology or Geometry or are currently enrolled in those courses, they are advised to contact the DCMST for information regarding possible admission at a later date.) In this half-day program, freshmen will enroll in Honors Chemistry, Honors Integrated Mathematics II, Technology and Web Page Design, and Scientific Investigations. As students progress through the program, their projects increase in scope and sophistication. The Center's teachers will coordinate and integrate their instruction to provide high quality meaningful learning experiences for students. Student individual and team research projects will provide an opportunity for students to apply classroom learning to real-world problems. We invite you to learn more about The Dearborn Center for Mathematics, Science & Technology by visiting the school website at <http://dcmst.dearbornschools.org>.

Admission is by a competitive selection process. Student selection decisions are made by an Admission Committee. Achievement in middle school math, science, language arts, test scores, teacher recommendations, and a short student essay may be used to evaluate students' qualifications. Students are expected to complete Algebra 1 by June, 2016 in order to be considered for admission.

The DCMST application packet is enclosed. The deadline for filing this application is **February 8, 2016**. A parent information meeting will be held on Wednesday, January 12, 2016. Due to limited seating it would be appreciated if only parents attend. Please email parksd@dearbornschools.org if you have any questions.

Parent Information Meeting
Wednesday, January 12, 2016 5:00 – 6:00 p.m.
Michael Berry Career Center, Lecture Hall
22586 Ann Arbor Trail, Dearborn Heights

Sincerely,

Deena Parks
Lead Teacher

Instructions For Completing Your Online Application

IMPORTANT: PLEASE READ CAREFULLY

As part of the DCMST application process, you are required to complete a few questions and one short essay. Below you will find the instructions needed to get to the online application, and complete your essay question. It is recommended that you type up your essay response (How will the advanced math and science program at DCMST prepare you for your future education and career goals?) prior to beginning your application submission.

1. In your internet browser, navigate to <http://dcmst.dearbornschools.org/>
2. Click on the tab that says “**Application for Entry into DCMST Fall 2016**”. Then choose “**8th grade application**”.
3. Read through the directions and click the link to access the online application.
4. A new webpage will pop up with the online application questions.
5. Read each question carefully and select or enter your response. For your essay “**How will the advanced math and science program at DCMST prepare you for your future education and career goals?**”, it is recommended that you type your response in a word document then paste it in.
6. Once you are finished with your responses, be sure to click “Submit”. You are now done with the application process. You may only submit **one** application. Any duplicate applications will be deleted.
7. You will see the following message after you have successfully submitted your responses:

You have successfully submitted your online application for the DCMST. Your responses, along with your test scores, grades and teacher recommendations, will help us to select an awesome DCMST Class! Please do not call the school office to confirm your online submission. Students will be notified of their admission status in the Spring.

Deadline: 11:59 p.m. Feb 8, 2016



ATTENDING THE DEARBORN CENTER FOR MATH, SCIENCE, AND TECHNOLOGY



The DCMST is operated as a half-day, year-long program for four years of high school.

Attendance

For the 2016-2017 school year, DCMST freshmen will attend classes during the afternoon session. Students will be transported to and from their schools by bus. Students must attend one of the three Dearborn Public High Schools the other half of their school day.

DCMST attendance generally will not interfere with after school activities such as sports. Some students may find their choice of elective classes to be limited.

Staying the Course

The DCMST program is a four-year curriculum (see the attached four year educational plan). Entering the DCMST program should be viewed by students and parents as a four year commitment.

Continuation

Continuation beyond the first year is dependent upon satisfactory academic performance and compliance with DCMST rules and policies.



MAKING IT HAPPEN FOR YOU



Students with demonstrated interest, ability and motivation are urged to apply to the Dearborn Center for Math, Science & Technology.

To apply for admission **carefully** read this information and follow the steps outlined.

Competitive Selection Process

Selection will be based upon a consideration of test scores, middle school grades in math, science and language arts, teacher recommendations and a short student essay. This information will be used to rank students. DCMST is committed to equity in access to all students regardless of race, religion, gender, or handicap.

Application Procedure

Eighth graders seeking admission to the Center during the 2016 fall enrollment must complete an on-line application form which includes a signed parent release of information by Friday, **February 8, 2016.**

Each middle school will receive a list of applicants. Teachers will be notified and be given instructions on how to complete a secure on-line recommendation.

Students and principals will be notified in the Spring of the DCMST Admission Committee's decisions.

Directions for the on-line application and the Student information and Parent Permission form are included in this packet.

Four Year High School Course Plan for the Dearborn Center for Mathematics, Science, and Technology

The Michigan Merit Curriculum (MMC) requires that students complete 4 credits of English, 3 credits each of Social Studies, Science and Mathematics (including Algebra II and 1 semester in the senior year). Additionally, students must complete 1 credit each of physical education/health and the Arts. **Students must complete 12 credits of approved STEM* courses in order to successfully complete the DCMST Program.** The details of the MMC can be found on the district website.

Grade	Math	Science	Technology
9 th	Honors Integrated Math II	Honors Chemistry 1 & 2	Technology & Web Design
			Scientific Investigations
10 th	Honors Integrated Math III	Honors Biology 1 & 2	Research
			Computer Science
11 th	Accelerated Pre-calculus	Honors Physics 1 & 2	DCMST course or dual-enrollment course
	Calculus Foundations or Calculus 1 (dual-enrollment course)		
12 th	DCMST course or dual-enrollment course	DCMST course or dual-enrollment course	DCMST course or dual-enrollment course
		DCMST course or dual-enrollment course	DCMST course MBCC course or dual-enrollment course

DCMST COURSES

<u>Mathematics</u>	<u>Science</u>	<u>Technology</u>
Honors Integrated Math II*	Honors Chemistry*	Technology and Web Design*
Honors Integrated Math III*	Honors Biology*	Scientific Investigations*
Accelerated Pre-Calculus*	Honors Physics*	Computer Science*
AP Calculus BC	AP Environmental Science	Research*
Calculus Foundations	Anatomy & Physiology	AP Computer Science
AP Statistics	Epidemiology	Directed Study in Computer Science
Intro to Mathematical Thinking	Genetics	Directed Study in Technology
Directed Study in Mathematics	Topics in Chemistry	Design Concepts 3D (MBCC)
	Directed Study in Science	Mechanical Drafting/Architectural Drafting (MBCC)

*denotes required course

Appropriate Dual Enrollment Courses for DCMST Students

It is our policy to have DCMST students successfully pass 12 credits of approved math, science, technology and computer science courses. We are seeing an increase in students wanting to dual enroll, especially to get honor points. We need to make sure the course has enough rigor and that we are not offering it elsewhere in DPS.

It is our understanding that the students should first pass any DPS course, including AP courses. With the constraints in scheduling, we look at each student individually to find the best schedule.

DCMST Approved HFCC Courses

Bio 150, 152 not Bio 131 ~ high school honors bio

Chem 141, 142 a pretest is required, not 131/132 ~ high school honors chem.

Phy 231, 232 Engineering Phy requires Calc I, ~ AP Physics C

Phil 131 Logic, this is the basis of mathematics and computer science and a good foundation course for any math or engineering student

Math 180 Calculus I, requires a pretest

Math 181 Calculus II

Math 280 Calculus III

Math 283 Linear Algebra

Math 289 Differential Equations

CIS 230, 232 Programming C+ or C++

not CIS 171, 172 ~ AP Computer Science A and AB

not CIS 100 Intro to Info Tech, we are offering 90% of the content at DCMST

DCMST Approved UMD Courses

Math 115 Calculus I, pretest required

Math 116 Calculus II

Math 215 Calculus III

Math 216 Intro to Differential Equations

Math 227 Intro to Linear Algebra