

University of Detroit Mercy, College of Engineering and Science
Summary of Pre College Programs
September 2005-August 2006

PROGRAM	DESCRIPTION	APPROX. NUMBER OF STUDENTS	APPROX. UNDER REPRESENTED MINORITY	APPROX. FEMALE
DAPCEP Fall Saturday Programs (Oct-Nov 05)	Enrichment classes for 4th through 12th graders designed to expose students to and interest them in engineering, computer science, math, chemistry and biology. Seven fall courses, 15 sections.	550	99%	60%
DAPCEP Spring Saturday Programs (Mar-Apr 06)	Enrichment classes for 4th through 12th graders designed to expose students to and interest them in engineering, computer science, math, chemistry and biology. Six spring courses, 14 sections.	450	99%	60%
DAPCEP Summer UNITE Program (July 06)	A four-week intensive academic program for students entering the 9 th and 10 th grades who take courses for college credit in math, computers, writing, speech and physics.	48*	99%	50%*
DAPCEP Summer Paper Vehicle Program (July 06)	A four-week program for rising 8 th graders who build an almost full-sized vehicle out of paper products. Students take classes in mathematics, engineering, science, and computer aided design.	60	99%	50%*
DAPCEP Summer Watershed Investigators Program (July 06)	In this two week summer program, rising 7 th and 8 th graders will investigate the water quality of Rouge Watershed through hands-on, minds-on investigations. As students progress through the program they will develop a greater awareness of domestic water uses and sources of contaminants as well as Earth friendly alternatives. In addition to increasing the awareness of water quality issues, students will use technology to explore a number of diverse water related careers.	25*	99%	50%*
Camp Invention (July 06)	Nationally accredited weeklong day experience filled with activities that foster creativity, teamwork, and inventive-thinking skills for students in the 1 st through 6 th grades. The program was created in partnership with the U.S. Patent and Trademark Office.	110	60%*	50%*
Technology Discovery Day (Oct 05)	A one-day "science and engineering fare" for high schools in the metro Detroit area. Highlights include eight science-based competitions (e.g., Rube Goldberg, Toothpick Bridge and Catapult), corporate displays and a student-produced Chemistry Magic Show.	590	40%	40%

STEPS Summer Camp (Jun-Jul 06)	A one week-residential summer camp for girls entering the 10 th or 11 th grade. The goal is to introduce the campers to engineering through hands-on activities, dealing with robotics, and interaction with engineering students and professionals.	88*	45%*	100%
STEPS into High School (Sep 05 – May 06)	An extension of the summer STEPS Camp for high school students during their academic year. A sequence of two field trips to the University introduces the students to robotics using the VEX Robotics System. The program culminates in a VEX Competition in May 06.	160	80%	25%
FIRST LEGO League State Tournament (Dec 05)	In our seventh year, the University is partnered with General Motors to bring the FLL effort to the State of Michigan.	720	10%	50%
Ford-UDM Partnership for Advanced Studies	This partnership with Ford Motor Company provides complete courseware and training for five courses. These courses combine standards based curriculum, and life and career skills in a context of business and manufacturing activities. The materials were developed by the Educational Development Corporation.	600	70%	40%*
TOTAL/AVERAGE		3401 TOTAL	61% AVERAGE	50% AVERAGE

* Projected/Estimated

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Prepared by Dan Maggio