

DAPCEP OPEN HOUSE
SATURDAY, FEBRUARY 9, 2008
COBO CONFERENCE CENTER MICHIGAN HALL



DOORS OPEN 7:00 AM
PROGRAM BEGINS AT 8:00 AM
DOORS CLOSE 8:30 AM

Review the booklet online and print out the application at
www.dapcep.org
Applications will only be accepted at the Open House



2007 BOARD OF DIRECTORS

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Faith, Perseverance & Education

Education is continuous. You never know from whom you will learn something. To continue my education, I enjoy attending workshops and seminars where I gather information, network with people and educate myself on the latest trends in technology, education, business and world matters.

At a recent event in Farmington Hills, I had the opportunity to meet Mr. Sam Offen, a Holocaust survivor currently residing in Michigan. During his presentation, he was asked how he survived the German Concentration Camps. He responded, "In the camps and in life, you need three things to survive: Faith, Perseverance & Education."

The Detroit Area Pre-College Engineering Program, our partnering Universities, Corporations and Program Providers are committed to exposing and educating the youth of today by providing opportunities to see and interact with the technology of tomorrow. DAPCEP is not just a program; it is an experience that we hope will create lifelong learners who are confident in their abilities and comfortable with technology.

Over our 32 year history, the DAPCEP Program has seen what the proper combination of *Education, Perseverance and Faith* can create in young people. By assisting in the educational process of the next generation of Scientists, Technologists, Engineers and Mathematicians, we are paving the way for a better Detroit, a better Michigan and a better United States.

Welcome to the Detroit Area Pre-College Engineering Program.

Sincerely,

Jason D. Lee

Executive Director

MISSION

To increase the number of historically under-represented minority students (African-American, Hispanic and Native American) who are motivated and prepared academically to pursue careers in engineering, science and mathematics related fields.

In keeping with the DAPCEP Mission, we consider all applicants without regard to residence or legally protected status. It is understood that due to the limitations of space in each DAPCEP program, admission decisions of the Program Directors are final.

ADMISSIONS POLICY

The DAPCEP admission is designed to maximize fairness and consideration of all eligible applicants. Each Program Director or selection committee seeks to have a qualified, balanced, broad base of students, each of whom must meet the eligibility requirements for the desired program. Typically, each program has more applicants than it has allotted spaces. While every consideration is given to maximize total enrollment with as many students as possible receiving their first selection, the numerical realities of the program and its funding will result in some students not getting their desired program or not even being admitted to DAPCEP at all.

We encourage all students who are not admitted to reapply during the next enrollment period.

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ADMISSIONS REQUIREMENTS

Criteria for Application Completion

1. Application must be signed by a parent or guardian.
2. Students in grades 10, 11, and 12 must attach a copy of their current transcript.
3. Students in grades 4, 5, 6, 7, 8, and 9 must attach a copy of their most recent report card.
4. **You MUST attach one copy of the report card/transcript to the application and bring them to the Open House.**
5. You MUST be present at the Open House to submit your application. Neither applications nor other information will be accepted at the DAPCEP office before or after the Open House.
6. Incomplete or multiple applications **WILL** disqualify you from acceptance.

Selection Process

1. Obtain an Open House booklet from the DAPCEP office or download it from the website www.dapcep.org.
2. Select a course for which you qualify, complete the application, print the application (if applicable), attach the report card/transcript and all signatures.
3. Attend the Open House. After the brief DAPCEP program, you may submit your application to the Program Director of your choice.
4. Applications submitted before the DAPCEP program, will not be accepted. All students in the conference hall at the end of the DAPCEP program will be able to submit applications. Late applications will not be accepted.
5. Program Directors select students from applications submitted.
6. If you are not selected for your desired course and you circled "yes" to be considered for other choices, your application will be shared with the DAPCEP Program Directors of other courses.
7. All students will receive a letter of acceptance from Program Directors, or a letter of decline from the DAPCEP office.

Criteria to Receive A Certificate of Completion

1. Student must attend all class sessions. Any student who misses two (2) class sessions (regardless of circumstances) will not receive a certificate. Class sign-in sheets determine attendance.
2. Student shall not be tardy more than one (1) time or they will not receive a certificate.
3. If required by a particular course, students shall achieve 80% (B letter grade) or higher from the overall course.
4. If required by a particular course, students must complete all homework assignments.
5. If required by a particular course, students must take all exams.
6. If required by a particular course, students must take a pre and post-test.

APPROPRIATE BEHAVIOR AND ATTIRE REQUIRED AT ALL CLASSES
TIMELY DROP OFF AND PICK UP REQUIRED AT ALL CLASSES

COPY SERVICE IS NOT AVAILABLE AT THE OPEN HOUSE
ORIGINAL TRANSCRIPTS/REPORT CARDS WILL NOT BE RETURNED

PROGRAM DIRECTORS

Dow Corning

Phillisha Harden
(989) 642-5224

EDS Global Produce Product

Clarence Ganheart
(248) 265-6056

Exam Experts Learning Academy

Mark J. Mayberry
(313) 535-9100

Nissan USA

Laruen Luen, Kailash Hiremath, Jonathon Anderson
(248) 488-4123

Oakland University

Dean Bhushan Bhatt
(248) 370-2233 phone
(248) 370-4261 fax

Pewabic Pottery

Gerri Kelley
(313) 822-0954

Tabernacle Missionary Baptist Church

Dr. Brenda Hague
(313) 822-0897

University of Detroit Mercy

Dean Arthur Haman
(313) 993-1574

University of Michigan Dearborn

Dean Keshav S. Varde
(313) 593-5117

Wayne State University

Dr. Gerald Thompkins
(313) 577-3813

SPRING COURSE LISTING

GR.	PROGRAM	COURSE	CODE	TIME
4	University of Detroit Mercy	Forensic Crime Stoppers	18211	8:00 am– 10:30 am
4	University of Detroit Mercy	Forensic Crime Stoppers	18212	11:00 am- 1:30 pm
5	University of Detroit Mercy	Up, Up, and Away	18221	8:00 am– 10:30 am
5	University of Detroit Mercy	Up, Up, and Away	18222	11:00 am- 1:30 pm
6	Wayne State University	Pre Engineering Math (Part II)	23210	9:00 am – 12:00 pm
7	University of Detroit Mercy	Engineering Your Community	18530	9:00 am – 12:30 pm
7	Ford Motor Company - Dearborn	Creative Engineering	12210	9:00 am – 12:00 pm
7	Wayne State University	Algebra	23350	9:00 am – 12:30 pm
7	Wayne State University	Computer Applications	23230	9:00 am – 12:30 pm
7-8	Wayne State University	Study Smarter Not Harder	23260	9:00 am – 12:30 pm
7-8	Nissan Motor Company	Vehicle Design Inside Out	31210	9:00 am – 12:00 pm
7-8	Oakland University	Rockets, Rainbows, & Motors	17210	9:00 am – 12:00 pm
7-8	Oakland University	Learn Math The Fun Way	17250	9:00 am – 12:00 pm
7-8	Tabernacle Missionary Baptist Church	Global Math	24250	9:00 am – 12:00 pm
7-8	Tabernacle Missionary Baptist Church	LEGO Robotics Challenge	24240	9:00 am – 12:00 pm
7-8	University of Detroit Mercy	Alternative Fuels	18550	9:00 am – 12:30 pm
7-8	University of Detroit Mercy	Building a Better World	18520	9:00 am – 12:30 pm
8	Exam Experts Learning Academy	Exam Experts ACT Exam Conquerors Program Level 1	13210	9:00 am – 12:00 pm
8	University of Detroit Mercy	The Chemical World	18250	9:00 am – 12:30 pm
8-9	Wayne State University	Intermediate Mathematics	23220	9:00 am – 12:30 pm
8-9	Tabernacle Missionary Baptist Church	3-D Rendering Applications	24210	9:00 am – 12:00 pm
8-9	University of Detroit Mercy	The Discovery of Life	18270	9:00 am – 12:30 pm
9-10	Exam Experts Learning Academy	Future Engineers in Business	13250	1:00 pm – 3:00 pm
9-10	University of Detroit Mercy	Entrepreneurship	18540	9:00 am – 12:30 pm
9-10	Wayne State University	Think 3-D Geometry	23240	9:00 am – 12:30 pm
9-10	Oakland University	Windows and Internet Applications	17220	9:00 am – 12:00 pm
10	University of Detroit Mercy	Powering the Car of Tomorrow	18550	9:00 am – 12:30 pm
10-11	University of Michigan Dearborn	ACT/SAT Math Preparation	20250	9:00 am – 12:30 pm
10-12	Exam Experts Learning Academy	Writing, Research, and Composition	13220	1:00 pm – 3:00 pm
10-12	Oakland University	Electrical and Computer Engineering with Computer Applications	17230	9:00 am – 12:00 pm
10	Dow Corning (Plymouth)	From Sand to Silly Putty and More	30210	9:00 am – 12:00 pm
10-12	Ceramic Engineering	Pewabic Pottery	29220	10:00 am – 1:00 pm
10-12	Exam Experts Learning Academy	Exam Experts ACT Exam Conquerors Program Level 2	13230	9:00 am – 12:00 pm
11-12	EDS Engineering and Manufacturing Services	Introduction to CAD/CAM	11210	9:00 am – 11:30 pm
11-12	Wayne State University	Pre Calculus	23250	9:00 am – 12:30 pm

SPRING COURSE OFFERINGS

4TH GRADE

FORENSIC CRIME STOPPERS

UNIVERSITY OF DETROIT MERCY

Students in this fourth grade program, are presented with a crime to solve. Each week students will explore different systems of the human body through hands-on investigations. Students will gather evidence to determine which suspect is the criminal as they learn about issues related to health and nutrition. Students will present their solution to this "Who-Done-It" on the last Saturday of the program. A PARENT OR GUARDIAN IS REQUIRED TO ATTEND AND PARTICIPATE IN AT LEAST TWO SESSIONS.

Course Code Group 1: 18211

Course Code Group 2: 18212

Transportation: Not Provided

Openings Available: 216

Saturdays: 8:00 am – 10:30 am

Saturdays: 11:00 am – 1:30 pm

Date: March 1, 8, 15, 29 and April 5

Academic Type: Science

5TH GRADE

UP, UP AND AWAY

UNIVERSITY OF DETROIT MERCY

This fifth grade program involves students in hands-on exploration of aerodynamics. Students will build helicopters, parachutes, airplanes and rockets as they investigate the principles of air resistance, air pressure and flight. Students will use these principles to design their own flying apparatus. During the last week of the program, students will test their designs in a flight competition.

Course Code Group 1: 18221

Course Code Group 2: 18222

Transportation: Not Provided

Openings Available: 280

Saturdays: 8:00 am – 10:30 am

Saturdays: 11:00 am – 1:30 pm

Date: March 1, 8, 15, 29 and April 5

Academic Type: Science

6TH GRADE

PRE-ENGINEERING MATH (PART II)

WAYNE STATE UNIVERSITY

An interactive course for 6th grade students covering topics in the DAPCEP supplemental math course. Topics for the SPRING include: algebraic ideas and equations. All applicants with a minimum GPA of 2.0 or greater and no excessive absences will be eligible for acceptance into the class. The SPRING course content is DIFFERENT than the FALL 6th Grade Pre-Engineering Math course content. To be eligible for a certificate, students must complete all classroom and homework assignments, and must take the pre and post-test.

Course Code: 23210

Transportation: Not Provided

Openings Available: 150

Saturdays: 9:00 am – 12:00 pm

Date: March 1, 8, 15, 29, and April 5, 12

Academic Type: Math

7TH GRADE

ENGINEERING YOUR COMMUNITY

UNIVERSITY OF DETROIT MERCY

Students will explore the use of GIS software (Geographical Information Systems) in the engineering of cities and communities.

Course Code: 18530

Transportation: Not Provided

Openings Available: 24

Saturdays: 9:00 am – 12:30 pm

Date: March 1, 8, 15, 29 and April 5

Academic Type: Engineering, Computers

CREATIVE ENGINEERING

FORD MOTOR COMPANY-DEARBORN

The Creative Engineering Course will provide students with an opportunity to collectively create, develop and market an automotive product idea. Through interaction with professional engineers students will gain exposure to technical career paths in the automotive industry. This course will build the students analytical and teamwork skills.

Course Code: 12210

Transportation: Provided

Openings Available: 18

Saturdays: 9:00 am – 12:00 pm

Date: March 1, 8, 15, 29 and April 5, 12

Academic Type: Engineering

ALGEBRA

WAYNE STATE UNIVERSITY

The goal of the course is to develop mathematical knowledge and skills, as well as the critical thinking, analytical and problem-solving skills fundamental to the study of mathematics in general and algebra in particular. The course begins with a study of the algebraic properties of numbers, variables, equalities, and inequalities. To be eligible for a certificate, students must complete all classroom and homework assignments, and must take the pre and post-test.

Course Code: 23350

Transportation: Not Provided

Openings Available: 25

Saturdays: 9:00 am – 12:30 pm

Date: March 8, 15, 29 and April 5, 12

Academic Type: Math

COMPUTER APPLICATIONS

WAYNE STATE UNIVERSITY

Computer Applications is a five week course designed to give students basic knowledge of the Microsoft Office Suite, HTML (web design) and keyboarding. The course also teaches critical thinking by assigning a case study relevant to real life experiences related to engineering. Each week the students build upon the case study to deliver the assignment through applied skills in Microsoft Word, Excel, PowerPoint and Internet Research. To be eligible for a certificate students must complete all classroom and homework assignments, and must take the pre and post-test.

Course Code: 23230

Transportation: Not Provided

Openings Available: 25

Saturdays: 9:00 am – 12:30 pm

Date: March 8, 15, 29 and April 5, 12

Academic Type: Computers

7-8TH GRADE

STUDY SMARTER NOT HARDER

WAYNE STATE UNIVERSITY

This course will teach students how to become more proficient at studying. Students will build a strong foundation of learning skills which they can use to develop study skills, expand their knowledge base, build confidence in their learning ability and improve their grades. To be eligible for a certificate, students must complete all classroom and homework assignments, and must take the pre and post-test.

Course Code: 23260
Transportation: Not Provided
Openings Available: 25

Saturdays: 9:00 am – 12:30 pm
Date: March 1, 8, 15, 29 and April 5, 12
Academic Type: Tutorial

VEHICLE DESIGN INSIDE OUT

NISSAN MOTOR COMPANY

This course will provide students with a high-level understanding of the design process required to bring a new vehicle to the market. Topics that will be covered include: engine and powertrain, interior, exterior, electronics, styling, and marketing. Students will become familiar with the automotive industry, working in a professional environment, and learning teamwork. Nissan and Infiniti vehicles will be made available for students to gain hands-on experience, including a tour of Nissan's facilities and Styling Studio.

Course Code: 31210
Transportation: Provided
Openings Available: 30

Saturdays: 9:00 am – 12:00 pm
Date: March 1, 8, 15, 29 and April 5, 12
Academic Type: Engineering

ROCKETS, RAINBOWS & MOTORS

OAKLAND UNIVERSITY

Physics experiments and projects relating to motion, light, and electricity. Students will build projects to take home; for example, an electric motor.

Course Code: 17210
Transportation: Provided
Openings Available: 52

Saturdays: 9:00 am – 12:00 pm
Date: March 1, 8, 15, 29 and April 5, 12
Academic Type: Science

LEARN MATH THE FUN WAY

OAKLAND UNIVERSITY

Basic math concepts taught in an interactive mode. Numbers and operations, algebraic equations, geometry, measurement, and data analysis are explored.

Course Code: 17250
Transportation: Provided
Openings Available: 25

Saturdays: 9:00 am – 12:00 pm
Date: March 1, 8, 15, 29 and April 5, 12
Academic Type: Math

7-8TH GRADE

GLOBAL MATH

TABERNACLE MISSIONARY BAPTIST CHURCH

Math is the international and intergalactic language! Studies have demonstrated that American students rank lower than other students around the world in their ability to work swiftly and confidently with math. This class is for the serious student, who wants to gain an "edge" in math. Our goal is to help students improve their speed and accuracy in math by strengthening their basic math skills. Additionally, they will improve their ability to: solve problems involving fractions, decimals, become familiar with math terms and learn basic strategies for critical thinking and problem solving. The class will employ lectures, drills, math games, and various media to provide the students with a serious and enjoyable experience.

Course Code: 24250

Transportation: Provided

Openings Available: 20

Saturdays: 9:00 am – 12:00 pm

Date: March 1, 8, 15, 29 and April 5, 12

Academic Type: Math

LEGO ROBOTICS CHALLENGE

TABERNACLE MISSIONARY BAPTIST CHURCH

Students will use Robotics to explore basic engineering and math concepts.

Course Code: 24240

Transportation: Not Provided

Openings Available: 20

Saturdays: 9:00 am – 12:00 pm

Date: March 1, 8, 15, 29 and April 5, 12

Academic Type: Computers

ALTERNATIVE FUELS

UNIVERSITY OF DETROIT MERCY

Experts predict that worldwide oil production will peak sometime within the next few years. With the specter of diminishing gasoline supplies looming on the horizon, engineers are designing alternate ways to power automobiles. Through hands-on activities, students will learn about the fundamentals of propulsion systems, fuel origination and production, performance characteristics of alternative fuels, energy flow analysis, technological issues, and sustainability of the alternatives. The pros and cons of ethanol, biodiesel, natural gas, hydrogen, and electricity as automotive energy sources will be highlighted. Students will also use mathematical models for predicting the depletion rate of nonrenewable resources.

Course Code: 18550

Transportation: Not Provided

Openings Available: 20

Saturdays: 9:00 am – 12:30 pm

Date: March 1, 8, 15, 29 and April 5

Academic Type: Engineering, Science

7-8TH GRADE

BUILDING A BETTER WORLD

UNIVERSITY OF DETROIT MERCY

This course will introduce students to civil and environmental engineering using hands-on activities. Topics and activities will include buildings, roads, bridges, the environment, bridge design and construction, paving materials, making concrete, water quality and water flow.

Course Code: 18520

Transportation: Not Provided

Openings Available: 20

Saturdays: 9:00 am – 12:30 pm

Date: March 1, 8, 15, 29 and April 5

Academic Type: Computers

8TH GRADE

EXAMEXPERTS ACT EXAM CONQUERORS LEVEL 1

EXAMEXPERTS LEARNING ACADEMY

This course will be held at 1243 Washington Blvd Detroit MI 48226 (313.557.0016). This informative course will provide systemic, comprehensive training for the new ACT exam, utilizing ExamExperts' highly motivational Accelerated Retention Learning (ARL) training method. Students will complete 500 practice questions, and receive preparation in the following areas: Substantive (content), Procedural (technique), Psychological (mental preparation), and Physiological (nutrition). Subjects covered include English, Mathematics, Reading Comprehension, Writing and Science Reasoning. A major focus is placed upon building student confidence while eliminating test anxiety. Techniques for internet scholarship research are also taught. Students will also receive a username and password to complete additional online practice questions on ExamExperts' website.

Course Code: 13210

Transportation: Not Provided

Openings Available: 100

Saturdays: 9:00 am – 12:00 pm

Date: Feb 23, March 1, 8, 15, 29 and April 5

Academic Type: Study Skills

THE CHEMICAL WORLD

UNIVERSITY OF DETROIT MERCY

Taught by Chemistry professors with significant support from the students of the Chem Club. Topics covered are: Electro-chemistry (using fruit to make batteries), density (mini submarine experiment), acids/bases (using cabbage as an indicator to test household products), polymers (classifying plastics, super absorbent polymers used in diapers), dye chemistry (Tie Dye T-shirts) and chromatography.

Course Code: 18250

Transportation: Not Provided

Openings Available: 40

Saturdays: 9:00 am – 12:30 pm

Date: March 1, 8, 15, 29 and April 5

Academic Type: Science

8TH GRADE

INTERMEDIATE MATHEMATICS

WAYNE STATE UNIVERSITY

This course will deal with concepts in linear equations, and graphing techniques. The material covered in this five week plan will be: Basic Math review, Sets and real Numbers, Variables, Variable Expressions (i.e., equations with one and two variable), Cartesian Coordinate System, Ordered Pairs, Graphing the Linear Function ($y=mx+b$). To be eligible for a certificate, students must complete all classroom and homework assignments, and must take the pre and post-test.

Course Code: 23220

Transportation: Not Provided

Openings Available: 30

Saturdays: 9:00 am – 12:30 pm

Date: March 8, 15, 29 and April 5, 12

Academic Type: Math

8 - 9TH GRADE

DISCOVERY OF LIFE

UNIVERSITY OF DETROIT MERCY

This Biology course will cover the following topics in a lab setting: Ecology, plant reproductive biology, bioproducts, predation, evolution and genetics. There will be no dissections in this course.

Course Code: 18270

Transportation: Not Provided

Openings Available: 24

Saturdays: 9:00 am – 12:30 pm

Date: March 1, 8, 15, 29 and April 5

Academic Type: Science

BLENDER 3-D RENDERING

TABERNACLE MISSIONARY BAPTIST CHURCH

Learn how to render objects in 3-D for use in Computerized modeling in preparation for animation.

Course Code: 24210

Transportation: Not Provided

Openings Available: 20

Saturdays: 9:00 am – 12:00 pm

Date: March 1, 8, 15, 29 and April 5, 12

Academic Type: Engineering

9TH GRADE

FUTURE ENGINEERS IN BUSINESS

EXAM EXPERTS LEARNING ACADEMY

This leadership development course will be held at 19562 Grand River, Detroit, MI 48223. We provide participants with hands-on knowledge of how the principles of mathematics, technology, and engineering are applied in the everyday world of business. Students will learn the task-oriented process of building a successful business model, either as a primary or secondary source of revenue. This course will also broaden the participant's vision and scope with regard to careers in engineering, technology, and related fields. Students are allowed to bring laptop computers to utilize wireless internet services.

Course Code: 13250

Transportation: Not Provided

Openings Available: 30

Saturdays: 1:00 pm – 3:00 pm

Date: Feb 23, March 1, 8, 15, 29 and April 5

Academic Type: Engineering/Technology

9-10TH GRADE

ENTREPRENEURSHIP – VENTURE CREATION

UNIVERSITY OF DETROIT MERCY

Entrepreneurship is the process of discovering, evaluating, and exploiting opportunities, which go on to manifest themselves in the form of new business ventures. This class will introduce the basics of entrepreneurship. Topics covered will include identification of a market opportunity, development of customer needs, concept generation and selection (includes benchmarking and patent/intellectual property concerns), detailed design, manufacturing, testing and refinement, launch, distribution/sales, service and post-life considerations. Teams of 6-8 students will step through the entrepreneurial process and develop and present a business plan for a proposed new venture.

Course Code: 18540
Transportation: Not Provided
Openings Available: 24

Saturdays: 9:00 am – 12:30 pm
Date: March 1, 8, 15, 29; April 5
Academic Type: Engineering

THINK 3-D GEOMETRY

WAYNE STATE UNIVERSITY

The purpose of this class is to familiarize students with geometry concepts and principles, and to assist them in developing three-dimensional thinking skills via solid geometry. Class will consist of lecture, group & individual work, question and answer time, homework, and quizzes. To be eligible for a certificate, students must complete all classroom and homework assignments, and must take the pre and post-test.

Course Code: 23240
Transportation: Not Provided
Openings Available: 25

Saturdays: 9:00 am – 12:30 pm
Date: March 8, 15, 29 and April 5, 12
Academic Type: Math

WINDOWS AND INTERNET APPLICATION DESIGN

OAKLAND UNIVERSITY

This course will introduce the students to the development of computer based applications for Windows and Internet environments. The students will develop their personal web page, using programming languages like Visual Basic, Java, html.

Course Code: 17220
Transportation: Provided
Openings Available: 25

Saturdays: 9:00 am – 12:00 pm
Date: March 1, 8, 15, 29 and April 5, 12
Academic Type: Computers

10TH GRADE

POWERING THE CAR OF TOMORROW

UNIVERSITY OF DETROIT MERCY

Experts predict that worldwide oil production will peak sometime within the next few years. With the specter of diminishing gasoline supplies looming on the horizon, engineers are designing alternate ways to powered automobiles. Through hands-on activities, students will learn about the fundamentals of propulsion systems, fuel origination and production, performance characteristics of alternative fuels, energy flow analysis, technological issues, and sustainability of the alternatives. The pros and cons of ethanol, biodiesel, natural gas, hydrogen, and electricity as automotive energy sources will be highlighted. Students will also use mathematical models for predicting the depletion rate of nonrenewable resources.

Course Code: 18550
Transportation: Not Provided
Openings Available: 20

Saturdays: 9:00 am – 12:30 pm
Date: March 1, 8, 15, 29; April 5
Academic Type: Engineering, Science



10 - 11TH GRADE

ACT/SAT MATH PREPARATION

UNIVERSITY OF MICHIGAN DEARBORN

Students will learn fundamental mathematics needed to successfully execute the math portion of ACT and SAT tests. Students will learn, analyze and practice basic mathematics and problems related to tests. This class is suited for students who are preparing to take ACT or SAT tests over the next 12 to 18 months.

Course Code: 20250
Transportation: Provided
Openings Available: 20

Saturdays: 9:00 am – 12:30 pm
Date: March 1, 8, 15, 29 and April 5
Academic Type: Math

10 - 11TH GRADE

WRITING, RESEARCH, AND COMPOSITION FOR FUTURE ENGINEERS

EXAM EXPERTS LEARNING ACADEMY

This course will be held at ExamExperts Learning Academy located at 19562 Grand River, Detroit, MI 48223. Students will learn specific technical writing strategies and techniques to compose effective essays. Students will learn techniques in the following areas: Persuasive and informative writing, internet research, effective proofreading, punctuation and grammar, continuity and outlining, effective sentence structure, and more.

Course Code: 13220
Transportation: Not Provided
Openings Available: 40

Saturdays: 1:00pm – 3:00 pm
Date: Feb 23, March 1, 8, 15, 29 and April 5
Academic Type: Study Skills



10-12TH GRADE

ELECTRICAL AND COMPUTER ENGINEERING WITH COMPUTER APPLICATIONS

OAKLAND UNIVERSITY

This course provides introduction to the very important field of analog and digital electronic circuits through lectures and hands on laboratory experimentation. The test equipment involves DC power supplies, amplifiers, function generators, oscilloscopes etc. The computer applications include PSpice, Aldec Verilog simulations, and Xilinx Verilog synthesis.

Course Code: 17230
Transportation: Provided
Openings Available: 26

Saturdays: 9:00 am – 12:00 pm
Date: March 1, 8, 15, 29 and April 5, 12
Academic Type: Engineering

10-12TH GRADE

FROM SAND TO SILLY PUTTY AND MORE!

DOW CORNING (PLYMOUTH)

Students will be exposed to chemistry from a different perspective by utilizing chemical processes to produce a cooperative material that can be used for various applications. Dow Corning products will be used in simple experiments with non-hazardous materials. A wide variety of topics will be covered that will lead to real world applications. Silicones make silly putty but are also used in airbags, detergents, gaming consoles, automotive parts, hair care, and much more. Find out how!

Course Code: 30210

Transportation: Provided

Openings Available: 20

Saturdays: 9:00 am – 12:00 pm

Date: March 1, 8, 15, 29 and April 5, 12

Academic Type: Engineering

CERAMIC ENGINEERING

PEWABIC POTTERY

This interactive course for DAPCEP students will focus on the fundamental and environmental factors affecting the art material of clay. Students will learn about the use, kind and type, vitrified states, glaze mathematics, their characteristics and applications, working with relevant equipment, and analysis and fabrication. Topics covered will also include geological make-up, kiln building and temperatures, glaze calculating, and much more.

Course Code: 29220

Transportation: Not Provided

Openings Available: 15

Saturdays: 10:00 am – 1:00 pm

Date: March 1, 8, 15, 29 and April 5, 12

Academic Type: Engineering

EXAMEXPERTS ACT EXAM CONQUERORS LEVEL 2

EXAMEXPERTS LEARNING ACADEMY

This course will be held at 1243 Washington Blvd Detroit MI 48226 (313.557.0016). This informative course will provide systemic, comprehensive training for the new ACT exam, utilizing ExamExperts' highly motivational Accelerated Retention Learning (ARL) training method. Students will complete 500 practice questions, and receive preparation in the following areas: Substantive (content), Procedural (technique), Psychological (mental preparation), and Physiological (nutrition). Subjects covered include English, Mathematics, Reading Comprehension, Writing and Science Reasoning. Major focus is placed upon building student confidence while eliminating test anxiety. Techniques for internet scholarship research are also taught. Students will also receive a username and password to complete additional online practice questions on ExamExperts' website.

Course Code: 13230

Transportation: Not Provided

Openings Available: 100

Saturdays: 9:00 am – 12:00 pm

Date: Feb 23, March 1, 8, 15, 29 and April 5

Academic Type: Study Skills

11-12TH GRADE

INTRODUCTION TO CAD/CAM

EDS ENGINEERING AND MANUFACTURING SERVICES

This course is designed to introduce DAPCEP students to the basic elements of CAD/CAM. This course exposes students to the components of 3D solid modeling using Unigraphics.

Course Code: 11210

Transportation: Not Provided

Openings Available: 15

Saturdays: 9:00 am – 11:30 pm

Date: March 1, 8, 15, 29 and April 5, 12

Academic Type: Engineering

PRE-CALCULUS

WAYNE STATE UNIVERSITY

The content of this course is as follows: Functions and Limits, Application of Differentiation and Integrations. The goal of the course is to develop the mathematical knowledge and skills, as well as the critical thinking, analytical and problem-solving skills fundamental to the study of mathematics in general and calculus in particular. The course begins with a study of the algebraic properties of numbers, variables, equalities, and inequalities. The concept of a function is introduced, algebraic, geometric, and numerical techniques are used to study the properties of functions. Specific functions, such as the polynomial and exponential, are studied in more detail. After a brief introduction to the concepts of trigonometry, trigonometric functions are examined. To be eligible for a certificate, students must complete all classroom and homework assignments, and must take the pre and post-test.

Course Code: 23250

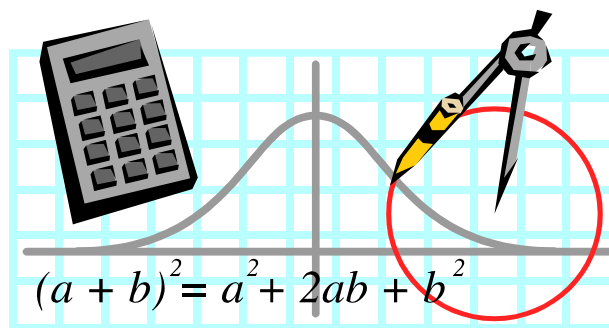
Transportation: Not Provided

Openings Available: 25

Saturdays: 9:00 am – 12:30 pm

Date: March 8, 15, 29 and April 5, 12

Academic Type: Math



JOIN THE DAPCEP TEEN CLUB & PARENT ADVISORY COMMITTEE (PAC)

PAC AND TEEN CLUB MEETINGS ARE
HELD THE 2ND WEDNESDAY OF EACH MONTH FROM
5:40 PM – 7:30 PM

HARTFORD MEMORIAL BAPTIST CHURCH
18700 JAMES COUZENS
DETROIT, MI 48235
(JOHN C. LODGE FREEWAY AND SEVEN MILE ROAD)

PAC PRESIDENT: MILDRED WHITE
VOICEMAIL 313-438-0975

MEMBERSHIP DUES: \$10 PER PERSON

ATTENTION GRADUATING SENIORS!

FOR PAC SCHOLARSHIP APPLICATIONS PLEASE SEND YOUR
CONTACT INFORMATION AND MAILING ADDRESS TO :
PAC AT pac.dapcep@gmail.com

PAC WALK-A-THON

SATURDAY, MARCH 8 AT NORTHLAND MALL
8:00 AM – 10:00 AM

PAC WORKSHOPS

COME VISIT US AT OUR TABLE FOR MORE INFORMATION

***Required Fields, Please Print Clearly, One Letter per Box**

Student Applicant Information

*Date of Birth / /

*Last Name

*First Name

Middle Initial

*Address Line 1

Address Line 2

*City

*State

*Zip

How long have you lived at this address? Years Months

Email

*Phone - -

Cell Phone - -

Gender (Check One Box) Male Female

Parent/Guardian Information

*Last Name

*First Name

Middle Initial

*Address Line 1

Address Line 2

*City

*State

*Zip

Email

*Phone - -

Cell Phone - -

As the parent/guardian, I certify my (son, daughter, ward) has my permission to participate in this program. It is my understanding and the Program Director's that he/she has my permission to accompany the class on field trips that are a part of the class.

It is the policy of DAPCEP that no person on the basis of race, sex, color, religion, national origin or ancestry, age, marital status or handicap, shall be discriminated against in admissions, activities or educational programs.

In consideration of my child's opportunity to participate in the program, I hereby agree to relinquish and hold DAPCEP, Inc., its agents the Host institutions, and its employees harmless and free from any and all liability which may arise from or be incur

*Parent/Guardian Signature

Print

*Student Signature

Print