

# INTRODUCTION to MATH and PHYSICS through FIRE DYNAMICS

The Fire Protection Engineering Department at the University of Maryland is proud to offer the "Introduction to Math and Physics through Fire Dynamics" program to talented 10<sup>th</sup> and 11<sup>th</sup> grade students who have an interest in and aptitude for mathematics, science and/or engineering who wish to consider exciting engineering careers. The purpose of this program is to expose high school students to a college-level taught course while sparking their interest in as well as developing their knowledge of the fundamental concepts in mathematics, physics, and chemistry needed to understand and solve engineering problems. Concepts will be studied with respect to various fire protection engineering applications through a series of lectures and related laboratory experiments.

The program will be held on eight Monday evenings from 6pm – 8pm (9/9, 9/23, 10/7, 10/21, 11/4, 11/18, 12/9, 12/16). Dinner will be provided each evening. Arrival for the program should be by no later than 5:45pm to 3106 J.M.Patterson building.

You have been nominated by the Empowering Minds Foundation, Inc. (EMF), or referred by your current principal, teacher, or guidance counselor as a potential participant in this program. Admittance to this program is competitive as only twelve seats are available. Interested students must complete and submit the included application form along with an unofficial transcript by **NO LATER THAN 5pm on Tuesday, August 20, 2013.**

All applications must be received or post marked by the above date to Ms. Nicole Hollywood.

Mail: 3106 J.M. Patterson Building, College Park, MD 20742

Scanned copy emailed to: [nlholly@umd.edu](mailto:nlholly@umd.edu)

Fax with ATTN: Nicole Hollywood to 301.405.9383

For more information, please refer to our website at [fpe.umd.edu](http://fpe.umd.edu) or email Ms. Hollywood.

# INTRODUCTION to MATH and PHYSICS through FIRE DYNAMICS

BIOGRAPHICAL INFORMATION			
First		Last	
Street Address		Address Line 2	
City		State/Province Region	ZIP
Phone		Gender	<input type="checkbox"/> Female <input type="checkbox"/> Male
Email			
<i>Please list an email address that you check frequently. This will be our primary means of sending you updates and announcements regarding your application.</i>			
Birthday (MM/DD/YY)			
<i>Please check all that apply.</i>			
Race/Ethnicity (for statistical purposes only)			
<input type="checkbox"/> African American/Black <input type="checkbox"/> American Indian/Alaskan Native			
<input type="checkbox"/> Asian American/Pacific Islander/Asian <input type="checkbox"/> Caucasian/White <input type="checkbox"/> Do Not Wish to Disclose			
<input type="checkbox"/> Latina <input type="checkbox"/> Multiracial/Multiethnic <input type="checkbox"/> Other			
Are you a U.S. citizen or permanent resident? <input type="checkbox"/> Yes <input type="checkbox"/> No			

PARENT/GUARDIAN INFORMATION	
First	Last
Relationship to Student	
Phone	
<i>Please list your mobile phone number so that we can reach you in case of emergency.</i>	
Email	
<i>Please list an email address that you check frequently. This will be our primary means of sending you updates and announcements regarding your student's application.</i>	
By checking the box below, I confirm that I/we will ensure transportation for our student to the program, be certain that they arrive on time each week and assure that they commit to the requirements of the program.	
<input type="checkbox"/> Confirm	

SCHOOL INFORMATION	
Name of School	
School Address	Address Line 2

City	State/Province/ Region	ZIP	School County
School Phone Number		School Fax Number	
Current Grade Level			
GPA (Unweighted) <i>Please enter GPA using a 4.0 scale.</i>		Class Ranking	
Math SAT/PSAT/ACT			
Reading SAT/PSAT/ACT			
Writing SAT/PSAT/ACT			
<p>Coursework <i>Please indicate which courses you have completed or are currently taking.</i></p> <input type="checkbox"/> Algebra II <input type="checkbox"/> Biology <input type="checkbox"/> Calculus I <input type="checkbox"/> Calculus II <input type="checkbox"/> Chemistry <input type="checkbox"/> Geometry <input type="checkbox"/> Intro to Engineering <input type="checkbox"/> Physics <input type="checkbox"/> Pre-Calculus			
Other math/science related coursework:			
What math/science courses do you plan to take next year?			

## EXPERIENCE

How did you find out about this program?  
*Please check all that apply.*

Counselor     Email     Internet     Math/science teacher  
 Someone who attended in the past     Summer program fair  
 Word of mouth     Other

Have you attended an engineering program in the past?     Yes     No

If your answer to the question above was yes, please list the program(s) name, location and date.

By checking the box below, I confirm that the information included is accurate to the best of my knowledge and that my parent/guardian is aware that I am applying for this program.

Confirm