

Tools for Success **Program Application**

About the Program

The National Science Foundation (NSF), established in 1950, promotes and advances scientific progress in the United States. It is committed to developing the nation's supply of scientists, engineers, and science educators by enabling individuals to pursue careers in science, technology, engineering, and mathematics (STEM). Miami Dade College shares this commitment and is sponsoring the *Tools for Success* Program for students interested in furthering their education and pursuing careers in STEM disciplines.

Tools for Success is a Miami Dade College and NSF program at the Wolfson and Kendall Campuses. The program offers academic and financial support to students majoring in science, technology, engineering, or math (STEM) fields. The goal of *Tools for Success* is to prepare students academically so that they will successfully complete their AA degrees, transfer to four-year institutions and succeed in their STEM careers.

Benefits

Students participating in the program will benefit from a full range of intensive and customized services such as advisement, mentoring, transfer and career counseling, as well as specially designed enrichment activities that include podcasting, science forums, field trips, and other extra-curricular activities. Through this program, students will have the opportunity to discover and experience the excitement of science, technology, engineering and math and learn about career opportunities. Tuition for each semester's special 1-credit *Tools for Success* course, an annual service award of \$1,000 as well as an iPod* will be provided to students enrolled in the program. (Please note: Only students enrolled in IDS 1107 will be given an iPod. See pg. 3 for a description of IDS 1107 and the other three *Tools for Success* courses).

Eligibility

In order to be considered for this program, students must:

- Have an interest majoring in and transferring into a four-year program in a STEM discipline
- Have a cumulative GPA of 2.00 or above.
- Be a United States citizen, permanent resident, national or alien admitted as a refugee at the time of application.
- Be exempt from or have completed all college preparatory courses at the time of application, except MAT 1033.
- Submit a completed application packet, including a written essay stating your career goals, prior to the application deadline (see page 4 for deadline date).
- Participate in an interview with the selection committee.



Program Requirements:

If accepted into the program, all students must:

- Declare and complete an Associate of Arts degree in a STEM major within two academic years.
- Remain enrolled as a student at Miami Dade College and complete a minimum of nine (9) credits per major term (fall and spring) each academic year.
- Plan to transfer to a four year program and major in a STEM discipline.
- Enroll and successfully complete four 1-credit *Tools for Success* courses (1 each term, see page 3 of application packet for a description of the courses).
- Serve as a mentor for first year students during their second year in the program
- Participate in up to 4 hours a week of additional enrichment activities including meeting with their mentor, the Project Director, attending field trips and Science Forums, and other related activities

MDC STEM Majors:

Agriculture	Forestry	Architecture
Environmental Studies	Biology	Computer information Systems
Computer Science	Computer Engineering	Engineering Science
Architectural Engineering	Engineering-Chemical	Engineering-Civil
Engineering-Surveying-Sur+MAP	Engineering-Electrical	Engineering-Industrial
Engineering- Ocean	Mathematics	Engineering-Mechanical
Chemistry	Atmospheric Science + Metrology	Geology
Psychology	Biotechnology	Physics

For more information, or if you have questions, please contact:

Roberta Ambroise or Brenda Quinto
 Project Assistant, *Tools for Success*
 Miami Dade College/Wolfson Campus/ Room 1540
 Phone: 305-237-3086
 Email: rambrois@mdc.edu; bquinto1@mdc.edu

Cynthia Conteh
 Project Director, *Tools for Success*
 Miami Dade College / Wolfson Campus
 300 NE 2nd Ave., Room 1540
 Miami, Fl. 33132-2297
 Wolfson Phone: 305-237-7029 Fax: 305-237-7835
 Kendall Phone: 305-237-2147
 Email: cconteh@mdc.edu

***Tools for Success* Special 1-credit course descriptions**

As a participant in *Tools for Success*, you will take four one-credit courses (one each term) designed to provide the skills, study habits, knowledge base and discipline necessary to succeed as science, technology, engineering and mathematics majors. In addition, the final two courses in the sequence will provide one-on-one advisement and support as you research and apply to upper-division institutions as well as for grants and scholarships. All four courses will provide hands-on learning environments in which you will receive support from fellow students as well as from your professor.

Courses:

IDS 1107 Tools for Stem Success

This course will teach you how to develop learning, writing, presentation, and technological skills necessary to succeed in the college STEM environment. You will establish effective time management, note-taking, and research skills and will enhance your collaborative learning skills. In addition, you will learn new “powerstudy” (concept-mapping) techniques. This course will be activity-oriented, and you will be provided regular opportunities to demonstrate your skills in a supportive, learning community environment.

PSC 1191 Physical Science Lab Fundamentals

In this course, you will learn how to develop observation, measurement, analysis and presentation skills using hands-on collaborative physics and chemistry activities. These skills will enhance future performance in science, technology, engineering and mathematics courses and careers. You will use current technology as well as critical thinking.

IDS 2123 Leadership in Science, Technology, Engineering and Mathematics

In this course you will research your career interests and interview professionals in science, technology, engineering and mathematics. You will identify, compare, and evaluate upper-division degree programs and prepare applications for admission to these programs. You will also write successful application essays and develop interview skills for transfer.

IDS 2324 Skills for Transfer Success

In this course, you will prepare for matriculation to the upper division. You will learn to research, write, coordinate and present grants and scholarships as you finalize your applications. You will document your efforts in an electronic portfolio.



Tools for Success
Program Application

Applicant Information

Last Name: _____ First Name: _____ Middle Initial: _____

Miami Dade College Student ID: _____

Street Address: _____ Apartment Number _____

City: _____ State: _____ Zip: _____

Email Address: _____

Day Phone: _____ Evening Phone: _____

High School: _____ High School GPA: _____ Current College GPA: _____

Major _____

MDC Home Campus _____

Checklist

- This Application form**
- A two page , 12 font, double-spaced essay** describing your interest in science and you career goals
- High school transcript** (first time in college students) **or MDC Degree Audit** (if you have completed at least one semester at MDC)
- Recommendation** from a high school teacher, administrator or MDC faculty (science, technology, engineering or mathematics instructors are preferred). Person providing the recommendation can write a **letter** or fill out the **reference form** (pages 5 and 6 of this application packet) and place in a sealed envelope. Please provide his/her information below:

Last Name: _____ First Name: _____

Title: _____ Relationship to Student: _____

Institution Name: _____ Department: _____

How long has the reference been acquainted with the student? _____

Deadline for submission for Fall 2011: May 20, 2011

Priority will be given to early applicants!!

Mail or hand deliver completed application packets to:

Cynthia Conteh
Project Director, *Tools for Success*
Miami Dade College/**Wolfson Campus** *or*
300 NE 2nd Ave., Room 1540
Miami, Fl. 33132-2297
Phone: 305-237-7029 Fax: 305-237-7835

Cynthia Conteh
Project Director, *Tools for Success*
Miami Dade College/**Kendall Campus**
11011 SW 104 Street, Room 3291
Miami, FL 33176-3393

Faculty / Administrator Reference Form		
Applicant's Last Name	Applicant's First Name	MDC Student Number

Dear Faculty Member/Administrator: please complete the following form and return to the student in a sealed envelope for inclusion in their application package. Your candid assessment of this student will play a significant role in their selection.

Faculty / Administrator _____

Department _____ Campus _____ Office phone _____

How well do you know the applicant? very well well fairly well slightly

How long have you known the applicant? _____

In what capacity? College instructor High School instructor Other _____

Briefly describe the circumstances under which you have come to know the applicant.

Please evaluate the applicant in each of the following areas by checking the appropriate boxes.
1=Outstanding, 2=Above average, 3=Satisfactory, 4=Below average, 5=Cannot evaluate

Characteristic	1	2	3	4	5	Comments
Motivation						
Self direction						
Self confidence						
Maturity						
Empathy						
Judgment						
Dependability						
Personal integrity/responsibility						
Respect for others						
Ability to work in groups						
Contributions to the overall classroom learning environment						
Communication skills						
Resourcefulness						
Reliability						
Perseverance						
Eagerness to learn						
Intellectual curiosity						

