

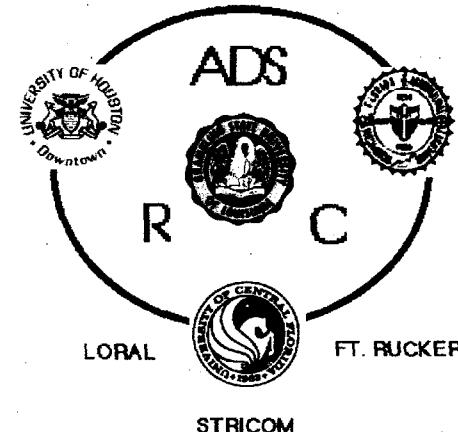
# HOUSTON PREFRESHMAN ENRICHMENT PROGRAM (Houston PREP)

FINAL REPORT - DE-FG03-95TE00017  
DOE/TE/00017--T1

JUNE 10, 1996 - AUGUST 1, 1996



University of Houston-Downtown



Conducted by:

## CENTER FOR COMPUTATIONAL SCIENCE AND ADVANCED DISTRIBUTED SIMULATION

A unit of the

**Advanced Distributed Simulation Research Consortium**

of the U.S. Army Research Office  
with additional funding from the

National Science Foundation, Computer and Information Science and Engineering Directorate

**Department of Computer and Mathematical Sciences  
University of Houston-Downtown**

Submitted by:

**RICHARD A. ALO' - PROGRAM OFFICER**

October 1, 1996

**MASTER**

*POG*  
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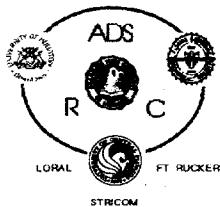
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### Acknowledgments

It is a pleasure to take this opportunity to thank the many individuals and organizations who gave their support to the various aspects of the development, promotion, and implementation of Houston PREP 1996. Their encouragement and interest are significant forces behind our efforts.

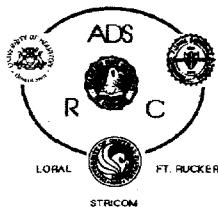
Through the Houston PREP program, the Center for Computational Science and Advanced Distributed Simulation (C<sup>2</sup>SDS) is doing its part to respond to the dwindling number of students entering careers in Engineering, Mathematics, and Science, which is occurring on a national scale. Notably, the expanding economically and socially disadvantaged population groups also are not choosing these career options. Houston PREP is designed to encourage students from these groups into these careers. Moving forward into the next century without such efforts, our nation is risking its leadership role in the high technology society that we have developed.

Such programs as Houston PREP are making a difference. The people and organizations that support it are the backbone of this development. We extend our sincerest thanks to all of you.

Richard A. Alé  
Program Officer, Houston PREP  
Executive Director, C<sup>2</sup>SDS

### 1996 Houston PREP Sponsors and Benefactors

Advanced Distributed Simulation Research Consortium  
Aldine Independent School District  
Center for Computational Science and Advanced Distributed Simulation  
Chevron Oil Co., Inc., Los Angeles  
Galena Park Independent School District  
Houston Independent School District  
International Business Machines  
Mobil Chemical Co., Houston  
Mobil Inc., Southwestern Computing Center, Dallas  
National Science Foundation, Computer and Information Science and Engineering Directorate  
NASA Headquarters - Washington, D.C.  
State of Texas Legislature  
State of Texas Coordinating Board of Higher Education  
U.S. Army Research Office, Department of Defense  
United States Department of Energy  
University of Houston-Downtown



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### Abstract

The 1996 Houston Pre-freshman Enrichment Program (PREP) was conducted on the campus of the University of Houston-Downtown from June 10 to August 1, 1996. Program participants were recruited from the Greater Houston area. All participants were identified as high achieving students with an interest in learning about the engineering and science professions. The goal of the program was to better prepare our pre-college youth prior to entering college as mathematics, science and engineering majors.

The program participants were middle school and high school students from the Aldine, Alief, Channel View, Crockett, Cypress-Fairbanks, Fort Bend, Galena Park, Houston, Humble, Katy, Klein, North Forest, Pasadena, Private, and Spring Branch Independent School Districts.

Of the 197 students starting the program, 170 completed, 142 students were from economically and socially disadvantaged groups underrepresented in the engineering and science professions, and 121 of the 197 were female.

Our First Year group for 1996 composed of 96% minority and women students. Our Second and Third Year students were 100% and 93.75% minority or women respectively. This gave an overall minority and female population of 93.75%.

This year, special efforts were again made to recruit students from minority groups, which caused a significant increase in qualified applicants. However, due to space limitations, 140 applicants were rejected.

Investigative and discovery learning were key elements of PREP. The academic components of the program included Algebraic Structures, Engineering, Introduction to Computer Science, Introduction to Physics, Logic and Its Application to Mathematics, Probability and Statistics, Problem Solving Seminar using computers and PLATO software, SAT Preparatory Seminars, and Technical Writing.

Engineers, scientists, mathematicians, and other professionals from private industry, government agencies, and different universities discussed career opportunities and social problems with the program participants.

The program staff included 10 faculty members (7 of whom are college faculty members and 3 middle school faculty members), and eight UH-D students as Program Assistants who were from minority groups. They served as excellent role models.

Substantial in-kind manpower and financial operational support for this year's program came from: Aldine Independent School District; Chevron Oil Co., Inc.-Los Angeles; Galena Park Independent School District; Houston Independent School District; International Business Machines; Mobil Chemical Co.-Houston; Mobil Inc., Southwestern Computing Center-Dallas; National Science Foundation-Computer and Information and Science and Engineering Directorate; NASA-Headquarters Washington, D.C.; State of Texas Legislature; State of Texas Coordinating Board of Higher Education; U.S. Army Research Office-Department of Defense; United States Department of Energy; University of Houston-Downtown.

This year we are happy to welcome the support of the ADSRC through the efforts of the Center for Computational Science and Advanced Distributed Research Consortium at the University of Houston Downtown. The consortium, a unit of the U.S. Army Research office consists of University of Houston-Downtown, Grambling State University, Florida A&M University, and the University of Central Florida.

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## **1996 Houston PREP Sponsors**

Advanced Distributed Simulation Research Consortium

Aldine Independent School District

Center for Computational Science and Advanced Distributed Simulation

Chevron Oil Co., Inc. - Los Angeles

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NASA Headquarters - Washington, D.C.

State of Texas Legislature

State of Texas Coordinating Board of Higher Education

U.S. Army Research Office, Department of Defense

United States Department of Energy

University of Houston-Downtown

## **Description of 1996 Houston PREP Program**

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## DESCRIPTION OF 1996 HOUSTON PREP PROGRAM

### A. Academic Components (June 10 - August 1, 1996)

Houston PREP offered the following subjects and activities:

1. **Algebraic Structures** - a four hour per week lecture class required of second year participants.
2. **Engineering** - a four hour per week lecture/laboratory class on topics in engineering with engineering design projects required of first and second year participants.
3. **Introduction to Computer Science** - a two per week lecture and a two hour per week laboratory class in writing computer programs required of first year participants.
4. **Introduction to Physics** - a four hour per week lecture class in elementary topics in physics required of second year participants.
5. **Logic and its Applications to Mathematics** - a four hour per week lecture class required of first year participants.
6. **Probability and Statistics** - a four hour per week lecture class required of third year participants.
7. **Problem Solving Seminar** - a four hour per week seminar class required of all participants. The Second and Third Year participants are taught in a Pentium Computer Laboratory where they obtain intensive hands-on experience.
8. **SAT Preparatory Seminar** - a two hour per week English and Vocabulary lecture and a two hour per week Mathematics seminar required of third year participants.
9. **Technical Writing** - a four hour per week lecture/seminar/computer lab class required of third year participants.
10. **Student Activities** - a three hour per week period of time spent with the mentor during which students worked on class assignments, library research, engineering design projects, team sports, etc.
11. **Educational Field Trips** - a variety number of hours spent on Fridays of specific weeks involving the following:

The students visited the University of Texas School of Public Health. They learned about Public Health as a career as well as on a personal level through a program of lectures and informal visits with many faculty members and students.

The Second and Third Year students visited Baylor College of Medicine. The guided tour was very informative. The students were impressed by demonstrations in their Anatomy Laboratory.

The Center for Computational Science and Advanced Distributed Simulation (C<sup>2</sup>SDS) performed demonstrations and presentations of the uses and purposes of work with advanced simulation on high-tech computers. The students were given brief hands-on experiences with latest technology on Silicon Graphic computers acquired through grants funded by the National Science Foundation and U.S. Army Research Office. C<sup>2</sup>SDS videos on virtual reality were also viewed by the students.

A field trip to Galveston's Moody Gardens was taken. The students were given a guided tour of the Rainforests and garden exhibits. The IMAX Theatre presentation, geared towards virtual reality, was also viewed.

The students spent a day at the NASA Space Center where they attended the TRAM tour and viewed NASA's IMAX Theatre.

### **Academic Components Summary**

**1st Year:**      Engineering  
                    Introduction to Computer Science  
                    Logic and its Applications to Mathematics

**2nd Year:**      Algebraic Structures  
                    Engineering  
                    Introduction to Physics

**3rd Year:**      Probability and Statistics  
                    SAT Preparatory Seminar  
                    Technical Writing

**All Years:**      Field Trips  
                    Guest speakers and special presentations  
                    Problem Solving Seminars  
                    Research and Study

## B. Program Schedules

The Program Assistants, Faculty, and staff conducted meetings in May and June to finalize preparations for Houston PREP 1996. Parents Orientation was held on June 6, 1996 in the Student Lounge of UH-D. Approximately 280 parents and students attended.

The opening day of the PREP was June 10. This was primarily an orientation day for the students. The Program Assistants conducted ice breaker types of activities involving all the PREP participants in small groups. The goals and expectations of the program and rules regarding acceptable behavior were presented. They were also given tours of the library, campus, and of the computing facilities.

The schedule of the typical week (Monday through Thursday) for First, Second, and Third Year students is detailed below:

### **FIRST YEAR'S SCHEDULE**

<u>TIME</u>	<u>SUBJECT</u>
9:00 - 10:00	COMPUTER SCIENCE
10:00 - 11:00	ENGINEERING
11:00 - 12:00	PROBLEM SOLVING
12:00 - 12:30	LUNCH
12:30 - 1:15	STUDENT ACTIVITIES
1:15 - 2:15	LOGIC

### **SECOND YEAR'S SCHEDULE**

<u>TIME</u>	<u>SUBJECT</u>
9:00 - 10:00	ALGEBRAIC STRUCTURE
10:00 - 11:00	PROBLEM SOLVING
11:00 - 12:00	ENGINEERING
12:00 - 12:30	LUNCH
12:30 - 1:15	STUDENT ACTIVITIES
1:15 - 2:15	PHYSICS

### **THIRD YEAR'S SCHEDULE**

<u>TIME</u>	<u>SUBJECT</u>
9:00 - 10:00	SAT SEMINAR
10:00 - 11:00	TECHNICAL WRITING
11:00 - 12:00	PROBABILITY & STATISTICS
12:00 - 12:30	LUNCH
12:30 - 1:15	PROBLEM SOLVING
1:30 - 2:15	STUDENT ACTIVITIES

### C. Program Summary

All First Year students took the Logic Pre-Test on their second day in the program and had a mean score of 34.87%. First Year students took the Logic Post-Test during the eighth, and last week of the program and received a mean score of 70.67%. The average improvement of 35.8% points on the Logic Tests indicate that the students analytical skills and knowledge had improved during the program.

Second Year students took the Physics Pre-Test on their second day in the program with a mean score of 43.7%. The Post-Test had a mean score of 64.3%, which showed a 20.6% increase in aptitude.

The Third Year students took the Pre-Test in Probability and Statistics on their first day in the program. They took the Post-Test during the eighth, and last, week of the program and have an 19% improvement.

SAT (Scholastic Aptitude Test) preparatory seminars were added to the third year program. Students took daily quizzes, worked on vocabulary words and practiced reading comprehension. Several timed SAT exams were administered. All students felt this was very useful. They also felt more confident about taking the SAT in the near future.

During the last week of the program, all students tested their engineering projects. In each engineering class, students worked in groups of 3-5 students.

First Year students built bridges using balsa wood. The students designed containers capable of protecting an egg for a egg-drop contest. Marsh Mellow Towers were constructed with Marsh Mallows and plastic straws. Plus, they were given the opportunity to construct cars from mouse traps. For all projects, every group/team was required to submit a report on their project and present it to the class.

Second Year engineering students built planes, rockets, and mouse trap cars. The planes were tested for floating time in the air, and the rocket blasting tests took place in the UH-D campus's Student Parking Lot.

Third Year students took the assignment of constructing houses using popsicle sticks and/or Styrofoam cardboard. The projects were judged by faculty members.

The last week was also filled with fun activities to relax the hard working participants. For example, there was a pizza party and free games in the UH-D Game Room.

At 9:30 a.m. on Thursday, August 1, the closing ceremonies began in the Galena Park High School Auditorium. Approximately 300 parents and faculty members attended in addition to the graduating participants. Mr. Gerald Torres, Texas State Legislature, was a keynote speaker at the Award Ceremonies on August 1, 1996. Each faculty member chose the best overall and most improved student from each of his/her class. Each Program Assistant then chose best overall students for citizenship, attitude, and academics. Each successful participant was awarded a certificate of completion and a Houston PREP T-shirt or cap. The forty-three graduating Third Year students each received a special electronic organizer. This ceremony was then followed by a brief reception.

#### **D. Program Staff**

**Dr. Richard A. Aló, Program Officer (Houston PREP)**  
Executive Director, Center for Computational Science and Advanced Distributed Simulation  
Computer and Mathematical Sciences Professor  
University of Houston-Downtown.

**Ms. Sangeeta Gad, Program Coordinator (Houston PREP)**  
Computer and Mathematical Sciences Lecturer  
University of Houston-Downtown.

**Mr. Douglas Tharp, Community Outreach Coordinator**  
Computer and Mathematical Sciences Assistant Professor and Assistant Chairman  
University of Houston-Downtown.

**Dr. Carol Vobach, Evaluator**  
Computer and Mathematical Sciences Associate Professor  
University of Houston-Downtown.

The faculty members included:

##### **1. College Faculty Members**

**Ms. Sangeeta Gad (SAT Preparatory Course)**  
Computer and Mathematical Sciences Lecturer  
University of Houston-Downtown.

**Mr. Andrew Lienhard (Problem Solving II, III)**  
Computer and Mathematical Sciences Adjunct Instructor  
University of Houston-Downtown.

**Ms. Bonnie Nadler (Logic, Problem Solving I, SAT Prep Course)**  
Computer and Mathematical Sciences Lecturer  
University of Houston-Downtown.

**Ms. Mitsue Nakamura-Sundnas (Algebraic Structure II, Problem Solving I)**  
Computer and Mathematical Sciences Lecturer  
University of Houston-Downtown.

**Ms. Melinda Payne (Technical Writing, SAT Preparatory Course)**  
English Department Adjunct Instructor  
University of Houston-Downtown.

**Dr. Marian Smith (Probability and Statistics III)**  
Computer and Mathematical Sciences Lecturer  
University of Houston-Downtown

**Mr. Emmanuel Usen (Engineering II, Logic)**  
Computer and Mathematical Sciences Adjunct Instructor  
University of Houston-Downtown.

2. Middle School Faculty Members

Ms. Valencia D. Crawford (Computer Science)  
Teacher Technologist, Holland Middle School  
Houston Independent School District.

Mr. Ash Rehman (Physics, Logic)  
Teacher, Milby High School  
Houston Independent School District.

Ms. Debra Toliver (Engineering I)  
Teacher, Northbrook Forest High School  
North Forest Independent School District.

**Program Assistants**

Mr. Jesus Azcarraga  
Mr. Jerone D. Edwards  
Mr. Juan J. Gonzalez  
Mr. Obinna C. Ilochonwu  
Ms. Maria Rebecca Mata  
Ms. Veronica Patino  
Mr. Randy K. Robinson  
Mr. Clinton Rodgers

**Secretary**

Ms. Veronica Sanchez

**Technical Support**

Mr. René Garcia  
Mr. Sean McRae  
Mr. Ali Sheikh  
Mr. Aon Tejani

**E. School Districts**

Aldine	Humble
Alief	Katy
Channel View	Klein
Crockett	North Forest
Cypress-Fairbanks	Pasadena
Fort Bend	Private
Galena Park	Spring Branch
Houston	

**F. List of 1996 Houston PREP Speakers**

Dr. Melanie Aló, Assistant Professor of Anesthesiology  
Baylor School of Medicine

Dr. Richard A. Aló, Program Officer (Houston PREP)  
Director, Center for Computational Science and Advanced Distributed Simulation  
University of Houston-Downtown

Dr. Ronald Barnes, Professor of Computer and Mathematical Sciences  
University of Houston-Downtown

Ms. Cristina Barroso, Doctorial Student  
University of Texas - School of Public Health

Ms. Joi Beasley, Career Development Counselor, Career Services  
University of Houston-Downtown

Dr. Manuel Berriozábal  
FOUNDER OF TEX-PREP

Mr. Holland Bynam, Program Coordinator  
Houston Independent School District

Dr. Bernadine Duncan, Assistant Director, Counseling and Testing Services  
University of Houston-Downtown

Mr. Walter Hanks Jr., ROTC Instructor  
WORTHING HIGH SCHOOL (CAREER ACADEMY)

Ms. Gladys Henderson, Technical Manager/Test & Verification  
NASA

Ms. C. Susan Howes, Staff Engineer, Acquisitions  
ANADARKO PETROLEUM CORP.

Dr. Brent Jones, Director of Student Admissions  
University of North Texas - Texas Academy of Math and Sciences

Dr. Steve Kelder, Assistant Professor of Behavior Science  
Health Promotion/Health Education Module  
UNIVERSITY OF TEXAS - SCHOOL OF PUBLIC HEALTH

Ms. Peggy Osbourn, Director, Career Services  
UNIVERSITY OF HOUSTON-DOWNTOWN

Mr. Ron Peters, Doctorial Student  
UNIVERSITY OF TEXAS - SCHOOL OF PUBLIC HEALTH

Dr. Mary Ann Smith, Toxicologist  
Assistant Professor of Environmental Science  
UNIVERSITY OF TEXAS-SCHOOL OF PUBLIC HEALTH

Dr. Michael Spero, Engineering Manager  
BROWN & ROOT INDUSTRIAL SERVICES, INC.

Mr. Halbert Sykes, PASS Program Coordinator, Counseling and Testing Services  
UNIVERSITY OF HOUSTON-DOWNTOWN

**G. Financial Contributors**

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and Engineering Directorate  
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State of Texas Legislature  
State of Texas Coordinating Board of Higher Education  
U.S. Army Research Office, Department of Defense  
United States Department of Energy  
University of Houston-Downtown

## **Appendix A**

### **A. Community Outreach Efforts**

**Houston PREP Descriptive  
University of Houston-Downtown Announcement**

### **B. Special Information Letters**

**First year Application  
Letters of Admission  
Letters of Rejection  
Orientation Letter  
Transportation Letter**

# HOUSTON PREFRESHMAN ENRICHMENT PROGRAM (PREP)

JUNE 10 - AUGUST 1, 1996

<b>WHAT?</b>	PREP is an intensive mathematics-based precollege enrichment program which provides educational enrichment opportunities for high ability middle and high school students.
<b>WHY?</b>	Explore and prepare for careers in the fields of science, engineering, and mathematics.
<b>WHO CAN ATTEND?</b>	Middle school and high school students from the Greater Houston Area who are high achieving and are interested in learning about the engineering and science professions. Students applying must be willing to give up an entire eight weeks of their summer vacation. <u>Minorities and females are especially encouraged to apply and are given priority.</u>
<p>Eligibility criteria is the following:</p> <ul style="list-style-type: none"><li>▶ All applicants must have a B or better overall average (C or better if enrolled in honors, enrichment, or gifted and talented classes) in their academic courses during the 1995-1996 school year at the time of application.</li><li>▶ All applicants must have a B or better average (C or better if enrolled in honors, enriched, or gifted and talented classes) in their mathematics class during the current academic year. All seventh grade applicants must have an A average (B or better if enrolled in honors, enriched, or gifted and talented classes) in their mathematics class.</li><li>▶ All applicants must have a B or better average (C or better if enrolled in honors, enriched, or gifted and talented classes) in either their science or English class during the current academic year. All seventh grade applicants must have an A average (B or better if enrolled in honors, enriched, or gifted and talented classes) in either science or English class.</li><li>▶ All applicants must have satisfactory conduct grades throughout the academic year.</li><li>▶ Only students who have successfully completed the First Year are eligible for the Second Year, and only students who have successfully completed the Second Year are eligible for the Third Year.</li><li>▶ First Year applicants must have successfully completed the 7th, 8th, or 9th grade prior to entering the First Year of PREP.</li><li>▶ All applicants must complete the academic year by June 10, 1996.</li></ul>	
<b>WHEN?</b>	<ul style="list-style-type: none"><li>▶ June 10 - August 1, 1996 (Monday-Thursday); July 4th will be a PREP holiday.</li><li>▶ Program hours are scheduled to run from 8:30 a.m. to 2:30 p.m.</li><li>▶ Fridays will be reserved for field trips and special events.</li></ul>
<b>WHERE?</b>	ALL YEARS: The University of Houston - Downtown. All program functions, except for field trips, will be held in classrooms and laboratories at the PREP site.
<b>COST?</b>	There are no tuition or fees to attend PREP. Applicants eligible for the Free Lunch Program will receive free lunches; if more than 50% of the PREP Scholars are eligible for this program, all students will receive free lunches. Low income students may also receive a stipend from National Science Foundation Grants upon successful completion of Houston PREP. <u>In order for a participant to be considered for any type of financial assistance program, an income eligibility form (attached) must be filled out and signed by the parent at time of application. Without this information, the applicant will not be considered for financial assistance.</u>

<b>WHAT DO I GET?</b>	<ul style="list-style-type: none"> <li>► Problem Solving Skills</li> <li>► Career Exploration</li> <li>► Academic and Career Counseling</li> <li>► Better Math Preparation</li> </ul>	<ul style="list-style-type: none"> <li>► New Friends</li> <li>► Field Trips</li> <li>► College Setting Experience</li> </ul>
<b>WHAT WILL I DO?</b>	<p>"Hands-on" and "mind-on" work in:</p> <ul style="list-style-type: none"> <li>► Logic (1<sup>st</sup> year)</li> <li>► Engineering (1<sup>st</sup> and 2<sup>nd</sup> year)</li> <li>► Computer Science (1<sup>st</sup> year)</li> <li>► Probability and Statistics (3<sup>rd</sup> year)</li> <li>► SAT Preparatory Course (3<sup>rd</sup> year)</li> <li>► Career Opportunity Awareness Seminars (every year)</li> </ul>	<ul style="list-style-type: none"> <li>► Physics (2<sup>nd</sup> year)</li> <li>► Algebraic Structures (2<sup>nd</sup> year)</li> <li>► Technical Writing (3<sup>rd</sup> year)</li> <li>► Problem Solving (every year)</li> <li>► Research and Study Seminars (every year)</li> </ul>
<b>WHO WILL TEACH THE CLASSES?</b>	<p>Classes are taught by college professors, military officers, scientists, engineers, mathematicians, and premier high school teachers. College students serve as mentors and tutors.</p>	
<b>HOW CAN I APPLY?</b>	<ul style="list-style-type: none"> <li>► Obtain permission from your parents/guardians.</li> <li>► Complete the entire application form.</li> <li>► Write a 100-200 word essay on why you wish to attend Houston PREP. (Required of 1<sup>st</sup> year applicants only.)</li> <li>► Submit a copy of your latest report card. (No transcripts are accepted.)</li> <li>► Get recommendations from your math teacher <u>and</u> your science teacher, English teacher or Counselor. (Required of 1<sup>st</sup> year applicants only.)</li> <li>► Submit the income eligibility form. (Must include applicant's name, birthdate, and parent's signature and social security number.)</li> <li>► Mail entire application form with all the other documentation required to:</li> </ul>	
	<p style="text-align: center;">Mr. Rene' Garcia  <b>Houston PREP</b>  Dept. of Computer and Mathematical Sciences  The University of Houston-Downtown  One Main Street  Houston, Texas 77002.</p>	
<b>BY WHEN?</b>	<ul style="list-style-type: none"> <li>► Application must be postmarked no later than March 15, 1996.</li> <li>► Notification of successful candidates will be made by April 1, 1996.</li> <li>► Late applications will be accepted until April 15, 1996 and will be considered if openings are still available.</li> </ul>	
	<p>Please keep in mind the following:</p> <ul style="list-style-type: none"> <li>► Make a copy of your completed application packet for your records.</li> <li>► Incomplete and late applications will not be considered in the first round of acceptance.</li> </ul>	

For comments, questions, or more applications, please call Mr. Rene' Garcia at the PREP Office at 221-8686.



## University of Houston-Downtown

Houston PREP/UH-D Saturday Academy  
Department of Computer and Mathematical Sciences

March 12, 1996

**URGENT**

Dear IMTP Participant:

You will find enclosed a brief description of Houston PREP, a non-profit educational enrichment program for high ability secondary and middle school students (currently 7, 8, and 9th graders) interested in pursuing science or engineering careers. Also, you will find enclosed applications for Houston PREP '96. PREP classes will be held June 10 through August 1, 1996 at the University of Houston-Downtown, located at One Main Street in downtown Houston.

Your assistance in informing students of this program would be greatly appreciated and urgently needed. Currently, there are still many available seats to be filled. If you could distribute the enclosed application packets to at least 10 outstanding minority students, I would most definitely appreciate it. If you need additional applications, you may reproduce the entire application or contact Mr. René Garcia at 221-8686. Students who have previously attended Houston PREP will be contacted directly by me about attending Houston PREP '96.

If you have qualified students who are now interested in joining the PREP program, please encourage them to apply. We are especially interested in applications from **women and minorities (American Indian, African-American, and Hispanic students)**, traditionally under-represented groups in mathematics, science, and engineering. These students will be given priority. Students from low-income families are greatly encouraged to apply as well.

Also, if any student accepted as a PREP Scholar is eligible for the free lunch program, he/she will receive free breakfast and lunch daily. If more than 50% of all PREP Scholars are eligible for the free lunch program, all students will receive free breakfast and lunch daily, so please encourage eligible students to submit the income disclosure form.

The deadline for submitting applications for the 1996 Houston PREP program is March 15, 1996 although late applications will be accepted through April 15, 1996 and will be considered if openings are still available. For your students though, I will extend the normal deadline as long as you send them all together as a single package and call René Garcia in advance. Thank you for your assistance and cooperation.

Yours truly,

A handwritten signature in black ink that reads "Douglas Sharp".

Douglas Sharp  
Community Outreach Coordinator, Houston PREP  
Assistant Chairman, Department of Computer and Mathematical Sciences

Enclosures  
DT/rg



## University of Houston-Downtown

Houston PREP/UH-D Saturday Academy  
Department of Computer and Mathematical Sciences

**TO:** All UH-D Faculty, Staff, and Alumni  
**FROM:** Dr. Richard A. Aló, Chairman  
Project Director  
**DATE:** January 8, 1996  
**SUBJECT:** 1996 Houston PREP

*Henry Aló  
January 8, 1996  
thank you*

Houston PREP, an educational enrichment program, will again be holding classes this coming summer for high ability middle and high school students with an interest in, and potential for, mathematics, engineering, and science-based careers. PREP classes will be held June 10 through August 1, 1996 at the University of Houston-Downtown.

Your assistance in informing students (specifically current seventh, eighth, and ninth graders) is greatly appreciated. If you would like additional information about PREP or applications, please contact Mr. René Garcia at 221-8686 or come by the PREP Office in Room S-749.

If you know of qualified students who are now interested in joining the PREP program, please encourage them to apply. We are especially interested in applications from **women and minorities**, traditionally under-represented groups in mathematics, science, and engineering. Students from these groups will be given priority.

Students from low income families are also greatly encouraged to apply since there are no tuition or fees to attend PREP. In fact, if more than 50% of the applicants are eligible for the Free Lunch Program, all students will receive free breakfast and lunch daily. Low income students may also receive a stipend from National Science Foundation Grants upon successful completion of Houston PREP.

The deadline for submitting applications for the 1996 Houston PREP program is March 15, 1996 although applications will be accepted through April 15, 1996 and will be considered if openings are still available. Thank you for your assistance and cooperation.



## University of Houston-Downtown

Houston PREP/UH-D Saturday Academy  
Department of Computer and Mathematical Sciences

January 2, 1996

Dear Principal/Counselor and/or Mathematics/Science Teacher:

You will find enclosed a brief description of Houston PREP, a non-profit educational enrichment program for high ability secondary and middle school students interested in pursuing science or engineering careers. Also, you will find enclosed an application for Houston PREP '96. PREP classes will be held June 10 through August 1, 1996 at the University of Houston-Downtown, located at One Main Street in downtown Houston.

Your assistance in informing students of this program is greatly appreciated. If I can provide you with additional information about PREP, or if you would like to have someone from our staff speak to your faculty, students and/or their parents about PREP, we would be happy to visit your school. If you need additional applications, you may reproduce the entire application or contact Mr. René Garcia at 221-8686. Students who have previously attended Houston PREP will be contacted directly by me about attending Houston PREP '96.

If you have qualified students who are now interested in joining the PREP program, please encourage them to apply. We are especially interested in applications from **women and minorities**, traditionally under-represented groups in mathematics, science, and engineering. These students will be given priority. Students from low-income families are greatly encouraged to apply as well.

Also, if any student accepted as a PREP Scholar is eligible for the free lunch program, he/she will receive free breakfast and lunch daily. If more than 50% of all PREP Scholars are eligible for the free lunch program, all students will receive free breakfast and lunch daily, so please encourage eligible students to submit the income disclosure form. Contingent on funding by the National Science Foundation, PREP scholars eligible for the reduced of free lunch program may receive a stipend for successfully completing PREP.

The deadline for submitting applications for the 1996 Houston PREP program is March 15, 1996 although applications will be accepted through April 15, 1996 and will be considered if openings are still available. Thank you for your assistance and cooperation.

Yours truly,

A handwritten signature in cursive script that appears to read "Douglas Tharp".

Douglas Tharp  
Community Outreach Coordinator, Houston PREP  
Assistant Chairman, Department of Computer and  
Mathematical Sciences

Enclosures  
DT/rг

HOUSTON PREFRESHMAN ENRICHMENT PROGRAM (PREP)  
JUNE 10 - AUGUST 1, 1996

1ST YEAR PREP APPLICATION  
DEADLINE: POSTMARKED ON OR BEFORE MARCH 15, 1996

PART 1 - TO BE COMPLETED BY APPLICANT - ALL QUESTIONS MUST BE ANSWERED. PLEASE PRINT.

NAME: \_\_\_\_\_  
LAST \_\_\_\_\_ FIRST \_\_\_\_\_ M.I. \_\_\_\_\_

SOCIAL SECURITY NUMBER: \_\_\_\_\_ SEX: \_\_\_\_\_ FEMALE \_\_\_\_\_ MALE \_\_\_\_\_

ADDRESS: \_\_\_\_\_  
# STREET \_\_\_\_\_ APT. # \_\_\_\_\_

CITY: \_\_\_\_\_ ZIP CODE: \_\_\_\_\_

PHONE: (\_\_\_\_\_) - \_\_\_\_\_ DATE OF BIRTH: \_\_\_\_/\_\_\_\_/\_\_\_\_  
MO DAY YEAR

ETHNICITY: \_\_\_\_\_ AMERICAN INDIAN \_\_\_\_\_ ANGLO \_\_\_\_\_ AFRICAN AMERICAN \_\_\_\_\_ HISPANIC \_\_\_\_\_ ASIAN/ORIENTAL

CURRENT GRADE LEVEL: \_\_\_\_\_ 7 \_\_\_\_\_ 8 \_\_\_\_\_ 9

SCHOOL YOU CURRENTLY ATTEND: \_\_\_\_\_

SCHOOL DISTRICT YOU CURRENTLY ATTEND: \_\_\_\_\_

PART 2 - TO BE COMPLETED BY PARENT OR GUARDIAN

FATHER'S NAME: \_\_\_\_\_ WORK PHONE: \_\_\_\_\_ ext. \_\_\_\_\_

HIGHEST GRADE OR DEGREE: \_\_\_\_\_

MOTHER'S NAME: \_\_\_\_\_ WORK PHONE: \_\_\_\_\_ ext. \_\_\_\_\_

HIGHEST GRADE OR DEGREE: \_\_\_\_\_

IN CASE OF EMERGENCY, CONTACT: \_\_\_\_\_ PHONE: \_\_\_\_\_

RELATIONSHIP: \_\_\_\_\_

PART 3 - PARENT/GUARDIAN'S CONSENT

AS THE PARENT/GUARDIAN OF THE ABOVE MENTIONED STUDENT, I CERTIFY THAT MY CHILD HAS MY PERMISSION TO PARTICIPATE IN THE PREP PROGRAM. HE/SHE IS COMMITTING TO ATTEND PREP MONDAY THROUGH FRIDAY FOR EIGHT WEEKS. IT IS MY UNDERSTANDING THAT HE/SHE WILL BE SUBJECT TO THE REGULATIONS OF THE PREP SITE WHICH HE/SHE WILL ATTEND. I UNDERSTAND THAT SHOULD A HEALTH EMERGENCY ARISE, I WILL BE NOTIFIED, BUT THAT IF I CANNOT BE REACHED BY TELEPHONE, SUCH MEDICAL TREATMENT AS DEEMED NECESSARY BY COMPETENT MEDICAL PERSONNEL IS AUTHORIZED.

AS THE PARENT/GUARDIAN OF THE ABOVE MENTIONED STUDENT, I CERTIFY THAT MY CHILD WILL ATTEND THE PREP PROGRAM FOR THE ENTIRE EIGHT WEEKS. SHOULD MY CHILD MISS MORE THAN TWO DAYS, I UNDERSTAND THAT MY CHILD MAY BE AUTOMATICALLY DISMISSED FROM THE PREP PROGRAM.

PARENT'S SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

APPLICANT'S SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

# ATTENTION FIRST YEAR APPLICANTS!

## LISTED BELOW ARE TIPS TO HELP YOU SUBMIT A SUCCESSFUL APPLICATION PACKET.

- APPLICATION:**
  - ▶ Answer all questions on both sides of the application.
  - ▶ List the entire school and school district's name.
  - ▶ Sign the application.
  - ▶ Have your parents/guardians sign the application.
  
- ESSAY:**
  - ▶ Your essay will be evaluated to determine your character, willingness to learn, and motivation to attend PREP. (Required of 1<sup>st</sup> year applicants only.)
  - ▶ Print or type your essay clearly and in your own words.
  - ▶ You may use an additional page, if necessary.
  
- GRADE REPORT:**
  - ▶ Be sure to attach a copy of your latest 1995-96 grade report.
  - ▶ Submit the grade report with the application.
  - ▶ No transcripts will be accepted.
  
- NOMINATION FORMS:**
  - ▶ One nomination form must be from your mathematics teacher.
  - ▶ One nomination form must be from your science teacher, English teacher, or counselor.
  - ▶ Both nomination forms must be submitted at the same time that you submit your application.
  
- INCOME ELIGIBILITY FORM:**
  - ▶ This form is mandatory for all applications regardless of lunch eligibility.
  - ▶ If you do not wish to apply for any financial assistance, then:
    - Fill out the student's name and birthdate.
    - Provide parent/guardian's signature and date. This will acknowledge that you do not wish to apply for financial assistance.
  - ▶ If you wish to apply for financial assistance, then:
    - Fill out the student's name and birthdate.
    - Fill out #2 or #3, whichever pertains to your family's income situation.
    - For #3, be sure to include all family members including the applicant and be sure to list all the *monthly* income that your family members earn or receive.
    - Provide parent/guardian's signature, date and social security.
    - There is more information and details on the back side of the form.

Please submit all the items listed above as one packet. Applications must be postmarked on or before March 15, 1996. Mail the entire application packet to:

Mr. Rene' Garcia  
Houston PREP  
Dept. of Computer and Mathematical Sciences  
The University of Houston-Downtown  
One Main Street  
Houston, Texas 77002.

## PART 3 - TO BE COMPLETED BY APPLICANT

- A. WRITE A 100 TO 200 WORD ESSAY BELOW ON WHY YOU WANT TO ATTEND PREP. ALSO, BRIEFLY DESCRIBE ANY AWARDS OR HONORS RECEIVED FOR PARTICIPATION IN MATH AND SCIENCE ACTIVITIES. (Attach additional sheet if necessary.)

- B. PLEASE CHECK BELOW THE CONCEPTS/SUBJECTS YOU HAVE STUDIED THUS FAR (ask your math teacher, if needed):

- |  |   |
|--|---|
| <input type="checkbox"/> PRE-ALGEBRA       | <input type="checkbox"/> ANALYTIC GEOMETRY  |
| <input type="checkbox"/> ALGEBRA I         | <input type="checkbox"/> TRIGONOMETRY       |
| <input type="checkbox"/> ALGEBRA II        | <input type="checkbox"/> PRE-CALCULUS       |
| <input type="checkbox"/> INFORMAL GEOMETRY | <input type="checkbox"/> CALCULUS           |
| <input type="checkbox"/> GEOMETRY          | <input type="checkbox"/> NUMERICAL ANALYSIS |
| <input type="checkbox"/> OTHER: _____      |   |

- C. ATTACH A COPY OF YOUR LATEST 1995-96 GRADE REPORT. (NO TRANSCRIPTS WILL BE ACCEPTED.)

- D. HOW DID YOU FIRST HEAR ABOUT PREP? (PLEASE CHOOSE ONLY ONE RESPONSE.)

- |   |  |                                       |                                       |
|---|--|---------------------------------------|---------------------------------------|
| <input type="checkbox"/> TEACHER            | <input type="checkbox"/> PRINCIPAL           | <input type="checkbox"/> COUNSELOR    | <input type="checkbox"/> POSTER/FLYER |
| <input type="checkbox"/> FORMER PARTICIPANT | <input type="checkbox"/> SCHOOL PRESENTATION | <input type="checkbox"/> OTHER: _____ |                                       |

MAIL THE ENTIRE APPLICATION PACKET TO:

Mr. Rene' Garcia  
Houston PREP  
Dept. of Computer and Mathematical Sciences  
The University of Houston-Downtown  
One Main Street  
Houston, Texas 77002.



## University of Houston-Downtown

Houston PREP/UH-D Saturday Academy  
Department of Computer and Mathematical Sciences

April 5, 1996

Dear PREP Applicant,

Congratulations! You have been accepted into Houston PREP - Summer 1996 as a First Year participant at the University of Houston-Downtown.

Please, complete the enclosed form and return it to me by April 25, 1996. This is to verify that you are still willing to attend Houston PREP 1996. (If you do not plan to attend this summer's program, please return the form anyways so that another applicant may have the opportunity to take your place.)

The dates for PREP are Monday through Friday, June 10 - August 1, 1996. Fridays will be used for special activities, which will be announced at least a week in advance. Therefore, unless an announcement is made, participants should not report to UH-D Houston PREP. (Note: As a reminder, you are not allowed to miss more than two days of the program for any reason.)

No tuition or academic fees will be assessed and no books will have to be purchased. However, you must provide your own notebooks, paper, pencils, and pens. Also, you must bring a "reading book" with you daily.

In addition, you must provide your own transportation. We will be contacting the school districts to request bus transportation, yet only Aldine and Galena Park ISD will possibly assist with transportation. When we do receive confirmation, we will notify students from those school districts that will be providing transportation via mail. For those students still needing assistance with transportation, you may contact Mr. René Garcia and request a list of the students accepted into PREP from your school district. From this list, your parents may contact the students' parents to discuss car pooling.

We are expecting approval as a site for the Texas Department of Human Services Summer Food Service Program (SFSP). If the University of Houston-Downtown does receive approval, we will have free breakfast, snack, and lunch available in the Sun Room of the cafeteria for every participant daily.

Each program participant will be expected to maintain at least a C+ average in PREP. All participants who work hard and take PREP seriously should be able to meet this standard. If you enjoy learning and doing mathematics and its applications, you should find this program to be intellectually stimulating and challenging.

You and your parents will be invited to an Orientation Meeting in the first week of June. Further details will be sent via mail. I look forward to your participation in this summer's program.

Yours truly,

*Sangeeta Gad*

Mrs. Sangeeta Gad  
Coordinator, Houston PREP

## 1996 HOUSTON PREP CHECKLIST

1. DATES: June 10 to August 1, 1996  
(except July 4th)
2. HOURS: 8:30 a.m. - 2:15 p.m., Monday - Thursday  
8:30 a.m. - 1:00 p.m., Friday  
(Advance notice for Friday's events will be given. Note: There is not anything scheduled for Friday, June 14, 1996.)
3. FIRST MEETING: June 10, 8:30 a.m., Student Lounge  
(3rd floor) at the:  
University of Houston-Downtown  
One Main Street  
Houston, Texas 77002
4. PROGRAM CONTENT: Logic  
Introduction to Engineering  
Introduction to Computer Science  
Problem Solving Seminar  
Field Trips  
Career Awareness Seminars

Attendance at all sessions is mandatory. Any un-excused absence will result in immediate dismissal from the program. Participants with more than two excused absences will be asked to resign from the program.

### 5. FACILITIES:

All program functions, except for field trips will be on the UH-Downtown campus. Program staff will be available for supervised research and individual consultations.

The library and cafeteria facilities of UH-Downtown will be available to program participants. Vending machines are located throughout the building.

Other campus privileges will be discussed at the June 10th student orientation.

All PREP participants will be expected to abide by all campus rules set by UH-Downtown and the Program Administrators.



## University of Houston-Downtown

Houston PREP/UH-D Saturday Academy  
Department of Computer and Mathematical Sciences

### MEMORANDUM

**To:** The Family of Houston PREP '96 Participants  
**From:** Sangeeta Gad, Houston PREP Coordinator  
**Subject:** Orientation Meeting  
**Date:** May 15, 1996

You are cordially invited to attend our orientation meeting scheduled at **7:00 p.m. on Thursday, June 6, 1996**. The meeting will be held on the campus of the University of Houston-Downtown in the Student Lounge (3rd Floor).

We will give a short presentation on the Houston Prefreshman Enrichment Program (PREP) for the Summer of 1996. A question and answer period will follow.

Free parking will be provided in the Visitor Parking Lot located next to the UH-D building and is directly accessible from Main Street.

**Please note the following corrections to the Acceptance Letter previously sent --- this summer's program will be scheduled from the hours of 8:30 a.m. - 2:30 p.m. Mon. - Thurs. Also, there is a field trip scheduled on June 14, 1996 to visit NASA.** Permission slips for this field trip will be available on June 10, and they must be signed by parent/guardian and returned by Wednesday, June 12, 1996.

Let me also remind you that no student will be allowed to have more than two excused absences and that all students must wear the provided, picture I.D. badges everyday while on the UH-D campus. Students that will be riding Metro to and from Houston PREP may use their I.D. to receive the student discount (the bus fare will cost 40¢ each way).

I look forward to meeting all the Houston PREP '96 Participants and their family.

SG/rg

## 1996 HOUSTON PREP CHECKLIST

**1. DATES:**

June 10 to August 1, 1996  
(except July 4th)

**2. HOURS:**

8:30 a.m. - 2:30 p.m., Monday - Thursday  
8:30 a.m. - 1:00 p.m., Friday (Field trips)  
(Advance notice for Friday's events will be  
given. NOTE: Friday, June 14, 1996 --  
Field trip to NASA.)

**3. ORIENTATION MEETING:**

June 6, 1996 at 7:00 p.m., Student Lounge  
(3rd floor) at the:  
University of Houston-Downtown  
One Main Street  
Houston, Texas 77002

**4. FIRST DAY OF PREP:**

June 10, 1996 at 8:30 a.m.  
Free Breakfast in Cafeteria (3rd floor);  
  
June 10, 1996 at 9:00 a.m.  
Meet in Student Lounge (3rd floor) at the:  
University of Houston-Downtown  
One Main Street  
Houston, Texas 77002



## University of Houston-Downtown

Houston PREP/UH-D Saturday Academy  
Department of Computer and Mathematical Sciences

April 5, 1996

Dear PREP Applicant,

I am very pleased with your interest in the Houston PREP at the University of Houston-Downtown. This shows that you are very concerned about your future academic success.

Yet, I regret to inform you that we can not accept your application for Houston PREP 1996 at this time. We have had tremendous responses from eligible students, but PREP can only accommodate a certain number of students.

We had placed you on a waiting list. However, due to the very low percentage rate of students who withdraw from the PREP program, I find the chances of many openings slim.

Should any openings occur we will contact you by phone or mail. And, of course, we will keep you on our mailing list for next year's summer program.

Thank you for your interests and keep up those grades.

Sincerely,

*Sangeeta Gad*  
Mrs. Sangeeta Gad  
Coordinator, Houston PREP

SG/rg

# HOUSTON PREP RULES AND REGULATIONS

Below is a partial list of rules and regulations to be observed in Houston PREP by all program participants.

1. All program participants must wear their identification badges, which will be provided, all day everyday while on the University of Houston-Downtown campus.
2. All program participants are expected to be punctual for all classes and roll calls.
3. If a participant will be absent for an entire day, permission for the absence should be asked of the PREP Coordinator in advance, via letter or phone call from the parent or guardian. A maximum of two excused absences will be allowed. Un-excused absences are not tolerated.
4. If a participant will be tardy at the beginning of a day or needs to leave the program before the end of the day, then the respective Program Assistant should be notified in advanced via letter from the parent or guardian. The PREP Office may also be contacted at 221-8686.
5. Each program participant is expected to attend all classes, lectures, and laboratories with the group unless he/she is excused by the PREP Coordinator or Program Assistant.
6. Program participants may use second floor facilities (Game Room) only when accompanied by a Program Assistant.
7. All program participants are expected to use proper manners and courtesy while on UH-D campus. No obscene language or shouting is permitted. Also, no smoking is permitted.
8. Should a program participant have a conflict with another participant, the Program Assistant, or an instructor, then (s)he must immediately discuss the situation with the Program Assistant or PREP Counselor/Coordinator.
9. The dress code prescribes normal comfortable classroom attire appropriate for summer weather; shorts and T-shirts are appropriate. Shower sandals and tank tops are not permitted.
10. Students are NOT allowed to bring radios, headphone sets, video games, or valuables to school. Also, no gum, food, drinks, etc. is to be brought into the lecture halls or classrooms, except when permission is granted by program staff. Games or toys are not to be played so as to disrupt the classroom.

**VIOLATION OF ANY OF THESE RULES MAY RESULT IN DISMISSAL FROM PREP.**

For verification purposes only, please check the appropriate and return by April 25, 1996:

- I intend to attend Houston PREP 1996, and I agree to abide by the rules presented above.
- I do not intend to attend Houston PREP 1996 because \_\_\_\_\_

---

Parent's Signature

Date

---

Student's Signature

Date

---

Student's Name (Printed)



## University of Houston-Downtown

Houston PREP/UH-D Saturday Academy  
Department of Computer and Mathematical Sciences

### MEMORANDUM

**To:** 1996 Houston PREP AISD Participants  
**From:** Sangeeta Gad, PREP Coordinator  
**Subject:** Special Information  
**Date:** May 13, 1996

Bus transportation from the Aldine Independent School District will be provided daily for students accepted into 1996 Houston PREP by the Aldine Independent School District. Questions regarding this transportation should be directed to Ms. Janice Atkins at 985-6692. The initial bus schedule is:

Pickup	7:30 a.m.	MacArthur Senior High
	7:45 a.m.	Aldine Senior High
Return	3:15 p.m.	Aldine Senior High
	3:30 p.m.	MacArthur Senior High

1996 Houston PREP dates are June 10 through August 1, 1996 (excluding July 4). The program hours are:

8:30 a.m. - 2:30 p.m. Monday - Thursday  
8:30 a.m. - 1:00 p.m. Friday (Field trips)  
(Advance notice for Friday's events will be given.)

The University of Houston - Downtown will again be a special summer site for us to offer a food program. We will offer each student in Houston PREP '96 free breakfast (upon arrival) in the cafeteria Sun Room on the third floor. We will also have free lunch provided daily. If any student does not want to accept our free breakfast or lunch on any day, he/she may bring a sack lunch.

Houston PREP '96 I.D. cards will be issued to each student on Monday, June 10, 1996. They must be worn by the student at all times. Any student who loses an I.D. will be charged for a replacement.

SG/rg



## **Appendix B**

### **1996 Houston PREP Statistics**

**1996 Houston PREP Demographic Distribution of Completed Participants**

**1996 Houston PREP Demographic Distribution of Started Participants**

**1996 Houston PREP Demographic Distribution of Program Staff**

**1996 Houston PREP Staff Ethnic and Gender Distribution**

## 1996 HOUSTON PREP STATISTICS

	Number of Students	All Three Year Minority Percent
Applied	354	72.32%
Rejected	157	
Started	197	96%
Completed	170	93.5%

**1996 TexPREP**  
**ETHNIC, GRADE, AND GENDER DISTRIBUTION**

TexPREP Site HOUSTON

Submitted on (date) 9-10-96

Statistics for (check one)

Applied        Anticipated        Started        Active        Completed x

**1ST YEAR STUDENTS**

TAB44T FRP

ETHNICITY	6TH*			7TH			8TH			9TH			10TH			11TH			TOTAL			
	F	M	T	F	M	T	F	M	T	F	M	T	F	M	T	F	M	T	F	M	T	
Native American							1	1	2											1	1	2
Anglo				2	2															0	0	2
African American		15	3	18	17	3	20	7												39	6	45
Hispanic		4	2	6	13	4	17	2												19	6	25
Asian		4	1	5	3	2	5													7	3	10
<b>TOTAL</b>				<b>23</b>	<b>8</b>	<b>31</b>	<b>34</b>	<b>10</b>	<b>44</b>	<b>9</b>	<b>0</b>	<b>9</b>								<b>66</b>	<b>18</b>	<b>84</b>

**2ND YEAR STUDENTS**

ETHNICITY	6TH*			7TH			8TH			9TH			10TH			11TH			TOTAL			
	F	M	T	F	M	T	F	M	T	F	M	T	F	M	T	F	M	T	F	M	T	
Native American																				0	0	0
Anglo							2	2												2	0	2
African American							6	3	9	13	1	14	2	2	4					21	6	27
Hispanic				2	4	6	1	4	5										4	9	13	
Asian										1	1								0	1	1	
<b>TOTAL</b>							<b>10</b>	<b>7</b>	<b>17</b>	<b>14</b>	<b>6</b>	<b>20</b>	<b>3</b>	<b>3</b>	<b>6</b>					<b>27</b>	<b>15</b>	<b>43</b>

**3RD YEAR STUDENTS**

ETHNICITY	6TH*			7TH			8TH			9TH			10TH			11TH			TOTAL				
	F	M	T	F	M	T	F	M	T	F	M	T	F	M	T	F	M	T	F	M	T		
Native American																				0	0	0	
Anglo																				0	2	2	
African American				1	1	5	2	7	4	2	6	3	2	5		1	1	12	8	20			
Hispanic								2	2	4	2	4	6			1	1	4	7	11			
Asian										5	2	7	2	1	3				7	3	10		
<b>TOTAL</b>							<b>1</b>	<b>1</b>	<b>5</b>	<b>2</b>	<b>7</b>	<b>11</b>	<b>6</b>	<b>17</b>	<b>7</b>	<b>9</b>	<b>16</b>		<b>2</b>	<b>2</b>	<b>23</b>	<b>20</b>	<b>43</b>

**TOTAL STUDENTS**

ETHNICITY	6TH*			7TH			8TH			9TH			10TH			11TH			TOTAL		
	F	M	T	F	M	T	F	M	T	F	M	T	F	M	T	F	M	T	F	M	T
Native American							1	1	2										1	1	2
Anglo				2	2	2	0	2								2	2		2	4	6
African American		15	4	19	28	8	36	24	3	27	5	4	9		1	1	12	72	20	92	
Hispanic		4	2	6	15	8	23	5	6	11	3	5	8		1	1	27	22	49		
Asian		4	1	5	3	2	5	5	3	8	2	1	3					14	7	21	
<b>TOTAL</b>				<b>23</b>	<b>9</b>	<b>32</b>	<b>49</b>	<b>19</b>	<b>68</b>	<b>34</b>	<b>12</b>	<b>46</b>	<b>10</b>	<b>12</b>	<b>22</b>		<b>2</b>	<b>2</b>	<b>116</b>	<b>54</b>	<b>170</b>

\* Grade Level F - FEMALE M - MALE T - TOTAL

CHD 0100

Number of Students Eligible for

Number Of Students Actually Served by PREP for :

Free Lunch More than 50%

Free Lunch

All Students

Reduced Lunch

Reduced Lunch

50% FFS

50% FFS

**1996 TexPREP**  
**ETHNIC, GRADE, AND GENDER DISTRIBUTION**

TexPREP Site HOUSTON

Submitted on (date) 9/10/96

Statistics for (check one)

Applied        Anticipated        Started X Active        Completed       

**1ST YEAR STUDENTS**

**TAB44T.FRM**

ETHNICITY	6TH*			7TH			8TH			9TH			10TH			11TH			TOTAL			
	F	M	T	F	M	T	F	M	T	F	M	T	F	M	T	F	M	T	F	M	T	
Native American							1	1	2										1	1	2	
Anglo				2	2															2	2	
African American				18	4	22	20	3	23	9		9							47	7	54	
Hispanic				7	2	9	15	7	22	2		2							24	9	33	
Asian				2	1	3	3	2	5	1		1							6	3	9	
<b>TOTAL</b>				<b>27</b>	<b>9</b>	<b>36</b>	<b>39</b>	<b>13</b>	<b>52</b>	<b>12</b>	<b>0</b>	<b>12</b>							<b>78</b>	<b>22</b>	<b>100</b>	

**2ND YEAR STUDENTS**

ETHNICITY	6TH*			7TH			8TH			9TH			10TH			11TH			TOTAL			
	F	M	T	F	M	T	F	M	T	F	M	T	F	M	T	F	M	T	F	M	T	
Native American										1	1								0	1	1	
Anglo							1		1										1	0	1	
African American							7	3	10	15	3	18	2	2	4				24	8	32	
Hispanic							3	3	6	3	4	7	1	3	4				7	10	17	
Asian																			0	0	0	
<b>TOTAL</b>							<b>11</b>	<b>6</b>	<b>17</b>	<b>18</b>	<b>8</b>	<b>26</b>	<b>3</b>	<b>5</b>	<b>8</b>				<b>0</b>	<b>33</b>	<b>19</b>	<b>51</b>

**3RD YEAR STUDENTS**

ETHNICITY	6TH*			7TH			8TH			9TH			10TH			11TH			TOTAL		
	F	M	T	F	M	T	F	M	T	F	M	T	F	M	T	F	M	T	F	M	T
Native American																			0	0	0
Anglo													2	2					0	2	2
African American				1	1	5	2	7	4	3	7	3	2	5	1	1	12	9	21		
Hispanic							1	1	2	2	4	2	5	7	1	1	4	9	13		
Asian										5	2	7	2	1	3				7	3	10
<b>TOTAL</b>				<b>1</b>	<b>1</b>	<b>5</b>	<b>3</b>	<b>8</b>	<b>11</b>	<b>7</b>	<b>18</b>	<b>7</b>	<b>10</b>	<b>17</b>	<b>10</b>	<b>12</b>	<b>2</b>	<b>23</b>	<b>23</b>	<b>46</b>	

**TOTAL STUDENTS**

ETHNICITY	6TH*			7TH			8TH			9TH			10TH			11TH			TOTAL			
	F	M	T	F	M	T	F	M	T	F	M	T	F	M	T	F	M	T	F	M	T	
Native American							1	1	2		1	1							1	2	3	
Anglo				2	2	1		1					2	2				1	4	5		
African American				18	5	23	32	8	40	28	6	34	5	4	9	1	1	83	24	107		
Hispanic				7	2	9	18	11	29	7	6	13	3	8	11	1	1	35	28	63		
Asian				2	1	3	3	2	5	6	2	8	2	1	3			13	6	19		
<b>TOTAL</b>				<b>0</b>	<b>27</b>	<b>10</b>	<b>37</b>	<b>55</b>	<b>22</b>	<b>77</b>	<b>41</b>	<b>15</b>	<b>56</b>	<b>10</b>	<b>15</b>	<b>25</b>	<b>0</b>	<b>2</b>	<b>133</b>	<b>64</b>	<b>197</b>	

\* Grade Level

F - FEMALE, M - MALE, T - TOTAL

Number of Students Eligible for :

Number Of Students Actually Served by PREP for :

Free Lunch

Reduced Lunch

SYFTP

Free Lunch

Reduced Lunch

SYFTP

TexPREP Staff Survey

**SITE:** HOUSTON

**INSTRUCTIONAL STAFF:** (to include any staff member that taught any component, except Research and Study)

**COLLEGE FACULTY:** 7

**MIDDLE/HIGH SCHOOL TEACHER(S):** 3

**PROFESSIONAL ENGINEER, SCIENTIST, MATHEMATICIAN(S):** 0

**U.S. AIR FORCE OFFICER(S):** 0

**U.S. NAVAL OFFICER(S):** 0

**U.S. MERCHANT MARINE OFFICER(S):** 0

**GRADUATE STUDENT(S):** 0

**UNDERGRADUATE STUDENT(S):** 0

**PROGRAM ASSISTANTS & JUNIOR PROGRAM ASSISTANTS:** (to include any staff member that did not teach any component, except Research & Study)

**GRADUATE STUDENTS:** 0

**UNDERGRADUATE STUDENTS:** 8

**HIGH SCHOOL STUDENTS:** 0

**ADMINISTRATIVE** (include co-directors, if needed)

**ASSISTANTS:** 0      **JR. PROGRAM ASSISTANTS:** 0

**SECRETARY:** 1

**OTHER:** 3 Dr. Alo-Director, Mr. Tharp-Outreach Coordinator, and Ms. Vobach-Evaluator

**TOTAL STAFF:** 22

**TEXPREP 1996**  
**STAFF ETHNIC AND GENDER DISTRIBUTION**

TEXPREP SITE: HOUSTON

POSITION	NATIVE AMERICAN	ANGLO		AFRICAN AMERICAN	HISPANIC		ASIAN/ ORIENTAL	TOTAL		
COLLEGE & UNIVERSITY FACULTY	1	4	1	1	1		2	6	4	10
MIDDLE & HIGH SCHOOL TEACHERS				2			1	2	1	3
INDUSTRIAL SCIENTISTS, ENGINEERS, & MATHEMATICIANS								0	0	0
OTHER SUPPORT STAFF					1			1	0	1
UNDERGRADUATE STUDENTS				4	2	2		2	6	8
GRADUATE STUDENTS								0	0	0
HIGH SCHOOL STUDENTS								0	0	0
MILITARY OFFICERS								0	0	0
<b>TOTAL</b>	0	1	4	1	2	5	3	3	11	22

## **Appendix C**

**1996 Houston PREP Follow-up Letter and Surveys**  
**Distribution of Former Houston PREP Graduates Currently in College**  
**Distribution of Colleges Former PREP Graduates Are Attending**  
**Demographic Distribution of Former PREP Graduates' Classification**  
**Demographic Distribution of Former PREP College Graduates**



## University of Houston-Downtown

Houston PREP/UH-D Saturday Academy  
Department of Computer and Mathematical Sciences

July 12, 1996

Dear PREP Scholar:

On behalf of the Houston PREP program, I would like to officially request the provision of your support by completing the attached survey. Your support would be greatly appreciated and could definitely make a difference.

In the past, the PREP Office has mailed a survey form to all of its former PREP scholars each year as a way to keep in contact and be aware of any achievements. These achievements of former PREP Scholars have contributed in elevating the PREP Program to national prominence.

Yet, as you are aware of recent legislature cutbacks, Houston PREP's financial stability has drastically weakened. Houston PREP is now struggling to continue future operations. Please help PREP by completing and returning the enclosed survey form every year.

The survey form gives us an opportunity to track former scholars and report on their achievements. This information is very important because current and potential benefactors want to know what is happening to program alumni.

As you may recall, Houston PREP is a non-profit, educational enrichment program for socially and economically disadvantaged, middle and high school students. PREP has never charged for tuition or fees, and for the past several years has been an approved site for the Texas Department of Human Services Summer Food Service Program (SFSP), meaning that all participants receive free breakfast and lunch during the program.

Currently, Houston PREP is a three-year program with nearly 200 students expected to complete this summer's program (PREP's eighth year in operation). By next summer, we hope to expand PREP into a four-year program to include a science-based curriculum.

Please fill out the survey form and return it by July 26, 1996 in the enclosed business reply envelope. The survey should take less than ten minutes to fill out.

Thank you for your attention and cooperation in this important matter. I wish you every success for the future.

Best wishes,

*Sangeeta Gad*

Sangeeta Gad  
Coordinator, Houston PREP '96

SG/rg  
Enclosures

P.S. I have also enclosed a documentation sheet from the CMS Department and Hispanic Resource Center at UHD. The Scholarship Search Service is free and anyone may submit the form.

HOUSTON PREP FOLLOW-UP SURVEY  
(1989-1996)

PLEASE COMPLETE ALL OF THE FOLLOWING BELOW. THANK YOU FOR YOUR SUPPORT.

**I. GENERAL INFORMATION**

1. LAST: \_\_\_\_\_ FIRST: \_\_\_\_\_ MI: \_\_\_\_\_
2. SOCIAL SECURITY NUMBER: \_\_\_\_\_
3. PERMANENT MAILING ADDRESS: \_\_\_\_\_  
CITY: \_\_\_\_\_ STATE: \_\_\_\_\_ ZIP: \_\_\_\_\_
4. PERMANENT PHONE NUMBER: (\_\_\_\_\_) \_\_\_\_\_
5. E-MAIL ADDRESS: \_\_\_\_\_
6. ETHNICITY:  AMERICAN INDIAN  ANGLO  AFRICAN AMERICAN  HISPANIC  ASIAN/ORIENTAL  
 OTHER - SPECIFY \_\_\_\_\_
7. GENDER:  FEMALE  MALE
8. CURRENT AGE: \_\_\_\_\_
9. HIGHEST EDUCATION LEVEL FOR FATHER: \_\_\_\_\_  
HIGHEST EDUCATION LEVEL FOR MOTHER: \_\_\_\_\_

**II. 95-96 ACADEMIC INFORMATION**

95-96 GRADE LEVEL RECENTLY COMPLETED?  7  8  9  10  11  12

95-96 SCHOOL ATTENDED? SCHOOL NAME: \_\_\_\_\_  
SCHOOL DISTRICT: \_\_\_\_\_

**III. ANTICIPATED SCHOOL**

WHAT TYPE OF SCHOOL DO YOU PLAN TO ATTEND IN THE FALL (OR 96-97 ACADEMIC YEAR)?

(Check one)  MIDDLE SCHOOL  HIGH SCHOOL  COLLEGE

96-97 SCHOOL NAME? \_\_\_\_\_

SCHOOL DISTRICT: \_\_\_\_\_

WHAT GRADE LEVEL WILL YOU BE IN DURING THE 96-97 ACADEMIC YEAR? \_\_\_\_\_

**IV. INTERVENTION PROGRAMS/EXTRACURRICULAR ACTIVITIES**

PLEASE INDICATE NAME AND LOCATION OF ALL PROGRAMS THAT YOU HAVE PARTICIPATED IN:

CITYWIDE PROGRAMS: \_\_\_\_\_

STATEWIDE PROGRAMS: \_\_\_\_\_

NATIONWIDE PROGRAMS: \_\_\_\_\_

**V. COLLEGE PREPARATION**

WHAT PRECOLLEGE MATHEMATICS COURSES HAVE YOU COMPLETED?

(Check all that applies, and circle those that were honors courses)

PRE-ALGEBRA  ALGEBRA I  ALGEBRA II  GEOMETRY  TRIGONOMETRY  
 PRE-CALCULUS  CALCULUS  OTHER - SPECIFY \_\_\_\_\_

WHAT PRECOLLEGE SCIENCE COURSES HAVE YOU COMPLETED?

EARTH SCIENCE  LIFE SCIENCE  BIOLOGY  GEOLOGY  PHYSICS  CHEMISTRY I  
 CHEMISTRY II  COMPUTER SCIENCE  ANATOMY  OTHER - SPECIFY \_\_\_\_\_

**VI. EDUCATIONAL GOALS**

EXPECTED OCCUPATION: \_\_\_\_\_

EXPECTED EDUCATIONAL LEVEL: (Check One)

some high school  bachelor's degree  
 graduate from high school  master's degree  
 some college  doctoral degree  
 associates degree  postdoctoral degree  
 vocational training certification  undecided  
 other: \_\_\_\_\_

EXPECTED MAJOR, IF COLLEGE IS ANTICIPATED: (Check One)

ENGINEERING  SCIENCE  MATHEMATICS  COMPUTER SCIENCE  
 OTHER - SPECIFY: \_\_\_\_\_

**VII. ATTITUDINAL INFORMATION**

HOW MUCH DO YOU FEEL THAT PREP HAS INFLUENCED YOU TOWARD COLLEGE STUDIES?

(Check One)  NOT AT ALL  SOMEWHAT  VERY MUCH

HOW MUCH DO YOU FEEL THAT PREP HAS PREPARED YOU FOR COLLEGE STUDIES?

(Check One)  NOT AT ALL  SOMEWHAT  VERY MUCH

HOW MUCH DO YOU FEEL THAT PREP HAS INFLUENCED YOU TOWARD YOUR CURRENT MAJOR OR OCCUPATION?

(Check One)  NOT AT ALL  SOMEWHAT  VERY MUCH

WHICH PARTS OF THE PREP CURRICULUM WERE USEFUL TO YOU IN YOUR WORK OR STUDIES OUTSIDE THE PROGRAM?

LOGIC  ENGINEERING  COMPUTER SCIENCE  PROBLEM SOLVING  
 ALGEBRAIC STRUCTURES  PHYSICS  PROBABILITY AND STATISTICS  TECHNICAL WRITING

**VIII. PERSONAL PROFILE**

PREP IS VERY INTERESTED IN LEARNING OF THE ACHIEVEMENTS OF FORMER SCHOLARS. PLEASE LIST PRIZES, AWARDS, SCHOLARSHIPS, OR FELLOWSHIPS WHICH YOU MAY HAVE RECEIVED IN THE PAST YEAR. PLEASE INCLUDE ANY OTHER SPECIAL COMMENTS ABOUT YOURSELF. (PLEASE USE ADDITIONAL PAPER IF NEEDED.)

THANK YOU FOR COMPLETING THIS SURVEY. PLEASE RETURN IT IN THE BUSINESS REPLY ENVELOPE BY JULY 26, 1996. IF YOU HAVE ANY QUESTIONS OR COMMENTS, PLEASE CONTACT:

SANGEETA GAD  
COORDINATOR, HOUSTON PREP 1996  
THE UNIVERSITY OF HOUSTON-DOWNTOWN  
ONE MAIN STREET SUITE S-705  
HOUSTON, TX. 77002  
(713) 221-8432

HOUSTON PREP FOLLOW-UP SURVEY  
(1989-1996)

PLEASE COMPLETE ALL OF THE FOLLOWING BELOW. THANK YOU FOR YOUR SUPPORT.

I. GENERAL INFORMATION

1. LAST: \_\_\_\_\_ FIRST: \_\_\_\_\_ MI: \_\_\_\_\_
2. SOCIAL SECURITY NUMBER: \_\_\_\_\_
3. PERMANENT MAILING ADDRESS: \_\_\_\_\_  
CITY: \_\_\_\_\_ STATE: \_\_\_\_\_ ZIP: \_\_\_\_\_
4. PERMANENT PHONE NUMBER: (\_\_\_\_\_) \_\_\_\_\_
5. E-MAIL ADDRESS: \_\_\_\_\_
6. DID YOU GRADUATE FROM HIGH SCHOOL?  YES  NO IF GRADUATED, WHAT YEAR? \_\_\_\_\_  
HIGH SCHOOL DIPLOMA FROM? SCHOOL: \_\_\_\_\_ DISTRICT: \_\_\_\_\_
7. 95-96 ACADEMIC STATUS:  H.S. SENIOR  COLLEGE STUDENT  COLLEGE GRAD.  OTHER \_\_\_\_\_
8. 95-96 CLASSIFICATION:  H.S. SENIOR  FR  SO  JR.  SR.  COLLEGE GRADUATE
9. 95-96 COLLEGE/UNIVERSITY ATTENDED: \_\_\_\_\_  
CITY: \_\_\_\_\_ STATE: \_\_\_\_\_  
TYPE OF SCHOOL:  JUNIOR/COMMUNITY  4-YEAR  TECHNICAL/VOCATIONAL  GRADUATE SCHOOL
10. MAJOR:  ENGINEERING  SCIENCE  MATHEMATICS  OTHER - SPECIFY \_\_\_\_\_
11. AREA OF CONCENTRATION/SPECIALIZATION: \_\_\_\_\_
12. IF COLLEGE GRADUATE: TYPE OF DEGREE:  ASSOCIATES  BACHELORS  MASTERS  DOCTORAL
13. ETHNICITY:  AMERICAN INDIAN  ANGLO  AFRICAN AMERICAN  HISPANIC  ASIAN/ORIENTAL  
 OTHER - SPECIFY \_\_\_\_\_
14. GENDER:  FEMALE  MALE 15. CURRENT AGE: \_\_\_\_\_
16. HIGHEST EDUCATION LEVEL FOR FATHER: \_\_\_\_\_  
HIGHEST EDUCATION LEVEL FOR MOTHER: \_\_\_\_\_

II. CURRENT STATUS

PLEASE CHECK THE APPROPRIATE:

- A.  ATTENDING COLLEGE  NOT ATTENDING COLLEGE  ATTENDING GRADUATE COLLEGE  
B.  EMPLOYED  UNEMPLOYED

IF YOU ARE CURRENTLY EMPLOYED, WHAT IS YOUR CURRENT OCCUPATION? \_\_\_\_\_

PLACE OF EMPLOYMENT? \_\_\_\_\_

EMPLOYMENT ADDRESS: \_\_\_\_\_

CURRENT SALARY:  5,000-10,000  10,000-20,000  20,000-30,000  30,000-40,000  40,000-50,000

### III. ANTICIPATED ACADEMIC STUDIES

WHAT TYPE OF SCHOOL DO YOU PLAN TO ATTEND IN THE FALL (OR 96-97 ACADEMIC YEAR)?

JUNIOR/COMMUNITY COLLEGE  4-YEAR COLLEGE  TECHNICAL/VOCATIONAL COLLEGE

IF YOU ATTEND COLLEGE IN THE FALL, WHAT WILL BE YOUR 96-97 CLASSIFICATION?

FRESHMAN  SOPHOMORE  JUNIOR  SENIOR  GRADUATE  POST-GRADUATE

96-97 COLLEGE/UNIVERSITY NAME? \_\_\_\_\_

LOCATION? CITY: \_\_\_\_\_ STATE: \_\_\_\_\_

### IV. EDUCATIONAL GOALS

EXPECTED OCCUPATION: \_\_\_\_\_

EXPECTED EDUCATIONAL LEVEL: (Check One)

- |  |  |
|--|--|
| <input type="checkbox"/> some high school                  | <input type="checkbox"/> bachelor's degree   |
| <input type="checkbox"/> graduate from high school         | <input type="checkbox"/> master's degree     |
| <input type="checkbox"/> some college                      | <input type="checkbox"/> doctoral degree     |
| <input type="checkbox"/> associates degree                 | <input type="checkbox"/> postdoctoral degree |
| <input type="checkbox"/> vocational training certification | <input type="checkbox"/> undecided           |
| <input type="checkbox"/> other: _____                      |  |

### V. ATTITUDINAL INFORMATION

HOW MUCH DO YOU FEEL THAT PREP HAS INFLUENCED YOU TOWARD COLLEGE STUDIES?

(Check One)  NOT AT ALL  SOMEWHAT  VERY MUCH

HOW MUCH DO YOU FEEL THAT PREP HAS PREPARED YOU FOR COLLEGE STUDIES?

(Check One)  NOT AT ALL  SOMEWHAT  VERY MUCH

HOW MUCH DO YOU FEEL THAT PREP HAS INFLUENCED YOU TOWARD YOUR CURRENT MAJOR OR OCCUPATION?

(Check One)  NOT AT ALL  SOMEWHAT  VERY MUCH

WHICH PARTS OF THE PREP CURRICULUM WERE USEFUL TO YOU IN YOUR WORK OR STUDIES OUTSIDE THE PROGRAM?

LOGIC  ENGINEERING  COMPUTER SCIENCE  PROBLEM SOLVING  
 ALGEBRAIC STRUCTURES  PHYSICS  PROBABILITY AND STATISTICS  TECHNICAL WRITING

### VI. COLLEGE PREPARATION

WHAT PRECOLLEGE MATHEMATICS COURSES DID YOU COMPLETE?

(Check all that applies, and circle those that were honors courses)

PRE-ALGEBRA  ALGEBRA I  ALGEBRA II  GEOMETRY  TRIGONOMETRY  
 PRE-CALCULUS  CALCULUS  OTHER - SPECIFY \_\_\_\_\_

WHAT PRECOLLEGE SCIENCE COURSES DID YOU COMPLETE?

EARTH SCIENCE  LIFE SCIENCE  BIOLOGY  GEOLOGY  PHYSICS  CHEMISTRY I  
 CHEMISTRY II  COMPUTER SCIENCE  ANATOMY  OTHER - SPECIFY \_\_\_\_\_

### VII. PERSONAL PROFILE

PREP IS VERY INTERESTED IN LEARNING OF THE ACHIEVEMENTS OF FORMER SCHOLARS. PLEASE LIST PRIZES, AWARDS, SCHOLARSHIPS, OR FELLOWSHIPS WHICH YOU MAY HAVE RECEIVED IN THE PAST YEAR. PLEASE INCLUDE ANY OTHER SPECIAL COMMENTS ABOUT YOURSELF. (PLEASE USE ADDITIONAL PAPER IF NEEDED.)

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(713) 221-8432

## 1996 Follow-up Stats-Majors

1996 FOLLOW-UP SURVEY OF FORMER PREP PARTICIPANTS-HOUSTON								College Graduates				
1st PREP	No. of College	No. of	Attending College				Not in	College	Engineering	Science	Other	Total
Year	Eligible	Replies	Engineering	Science	Other	Undecided	Total	College	Engineering	Science	Other	Total
1989	17						0					
1990	31	2					0		1	1	2	
1991	24	3			1		1			2	2	
1992	18	5	1	1			2				3	
1993	9	4	1	1	2		4					
1994	26	9	1	3	3	2	9					
1995	33	22	9	6	5	1	21	1				
1996	55	36	10	12	12	2	36					
<b>TOTALS</b>	<b>213</b>	<b>81</b>	<b>22</b>	<b>23</b>	<b>23</b>	<b>5</b>	<b>73</b>	<b>1</b>			<b>7</b>	

1996 Follow-up Stats-Colleges

1996 SURVEY OF FORMER TexPREP PARTICIPANTS CURRENTLY IN COLLEGE						
INSTITUTION	ENGINEERING	SCIENCE	OTHER	UNDECIDED	TOTAL	
Baylor University - Waco, TX		1				1
Columbia University-NY			1			1
Dartmouth College - NH	1				1	2
Embry Riddle Aeronautical University-FL	1					1
Georgetown University-KY			1			1
Hampton University-VA		1				1
Houston Community College-TX	1		1	1	1	3
Kingwood Community College-TX	1		2			3
Langston University-Oklahoma			1			1
Massachusetts Institute of Technology - MA		1				1
Morehouse College-GA		1				1
North Harris Community College-TX	2	2	1			5
Prairie View A&M University-TX	1	1				2
Rice University-TX	1	1	1			3
San Jacinto College-TX			1			1
Southwest Texas State University-TX		1			1	2
Texas A&M University College Station-TX	2	1	1			4
Texas A&M University Galveston-TX		1				1
Texas Southern University-TX		1				1
Texas Women University-Denton TX			1			1
Tuskegee Institute-Alabama	1					1
Univ. of Houston Central-TX	6	5	5	1	17	
Univ. of Houston Downtown-TX	1	1	4			6
Univ. of Oklahoma-Norman	1					1
Univ. of Southern California - CA	1					1
Univ. of Texas Austin-TX	2	5	2			9
U.S. Naval Academy-Annapolis				1		1
Yale University-New Haven CT			1			1
<b>TOTALS</b>	<b>22</b>	<b>23</b>	<b>23</b>	<b>5</b>	<b>73</b>	

1996 Follow-up Stats-Class

1996 HOUSTON PREP FOLLOW-UP (1989-1995)																			
Ethnic Group		American Indian			Anglo			Black			Hispanic			Asian Oriental & Other			TOTAL		
SEX	F	M	T	F	M	T	F	M	T	F	M	T	F	M	T	F	M	T	
<b>FRESHMEN</b>																			
ENGINEERING				1	1		3	3		2	2		1	3	4	1	9	10	
SCIENCE				1	1	2	3	5		0	3	4	7	6	7	13			
OTHER				2	2	5	2	7		2	2	1		1	6	6	6	12	
UNDECIDED				0	1		1		0		1	1	1	1	1	1	2		
<b>SUBTOTAL</b>				1	3	4	8	8	16	0	4	4	5	8	13	14	23	37	
<b>SOPHOMORES</b>																			
ENGINEERING				0	3	2	5		5	5			0	3	7	10			
SCIENCE					1	1	2		0	1	2	3	2	3	5				
OTHER				0		1	1	2	1	3		0	2	2	4				
UNDECIDED				0		0	1	1	2	1		1	2	1	3				
<b>SUBTOTAL</b>				0	0	0	4	4	8	3	7	10	2	2	4	9	13	22	
<b>JUNIORS</b>																			
ENGINEERING				0			0	1		1			0	1	0	1			
SCIENCE				0			0		0	2	2	4	2	2	4				
OTHER				1	1		0	2		2	2	1	3	5	1	6			
UNDECIDED				0		0		0		0		0	0	0	0	0	0		
<b>SUBTOTAL</b>				1	0	1	0	0	0	3	0	3	4	3	7	8	3	11	
<b>SENIORS</b>																			
ENGINEERING				0			0	1		1		0		0	0	1	1		
SCIENCE				0			0		0	0	1		1	1	0	1			
OTHER				0			0	1		1		0	1	0	1				
UNDECIDED				0			0		0	0		0	0	0	0	0	0		
<b>SUBTOTAL</b>				0	0	0	0	1	1	1	0	1	1	0	1	2	1	3	
<b>GRADUATED</b>																			
ENGINEERING				0		0		0	1	1			0	0	1	1			
SCIENCE				0		0	1		1	1	1	1		1	3	0	3		
OTHER				0		0	2		2	1	1		0	3	0	3			
<b>SUBTOTAL</b>				0	0	0	0	0	3	0	3	2	1	3	1	0	1	7	
<b>GRAND TOTAL</b>																			
ENGINEERING	0	0	0	0	1	1	3	6	9	1	8	9	1	3	4	5	18	23	
SCIENCE	0	0	0	1	0	1	4	4	8	1	0	1	8	8	16	14	12	26	
OTHER	0	0	0	1	2	3	7	3	10	6	3	9	3	1	4	17	9	26	
UNDECIDED	0	0	0	1	0	1	1	0	1	1	1	2	1	1	2	4	2	6	
<b>SUBTOTAL</b>	0	0	0	3	3	6	15	13	28	9	12	21	13	13	26	40	41	81	
NOT IN COLLEGE				0		0		0		1	1		0	0	1	1			
<b>GRAND TOTAL</b>	0	0	0	2	3	5	15	13	28	9	13	22	13	13	26	39	42	81	

## 1996-GRADUATES

1996 SURVEY OF FORMER PREP PARTICIPANTS															OTHER							TOTAL					
MAJOR	ENGINEERING							SCIENCE							OTHER							TOTAL					
	INSTITUTIONS		N.A.	A.	A.A.	H.	A.O.	TTL	N.A.	A.	A.A.	H.	A.O.	TTL	N.A.	A.	A.A.	H.	A.O.	TTL	N.A.	A.	A.A.	H.	A.O.	TTL	
	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	
Houston Baptist University									0	0			1				1	0				0	0	0	0	0	1
Saint Thomas University									0	0			1				1	0				1	0	0	0	0	2
Spelman University-GA									0	0							0	0			1	1	0	0	0	0	
University of Houston-Central									1	0	1						0	0				0	0	0	0	0	1
University of Texas-Austin									0	0						1	1	0				0	0	0	0	0	1
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## **Appendix D**

**1996 Houston PREP Graduates Listed by PREP Year and Alphabetically  
1996 Houston PREP Graduates Listed by Grade Level  
1996 Houston PREP Graduates Listed by School Districts and Schools**

## 1996 HOUSTON PREP CERTIFIED PARTICIPANTS - LISTED BY YEAR AND ALPHABETICALLY

LAST NAME	FIRST NAME	GROUP	SS NO.	YR	GR	ADDRESS	CITY	ZIP	SCHOOL	DIST	PHONE	R	S
ABDULLAH	AHMED	IC		1	8	11215 WILCREST DRIVE #115	HOUSTON	77099	OLLE MS	ALIEF	564-6376	AO	M
ABDULLAH	HAIDER	IC		1	8	11215 WILCREST DRIVE #115	HOUSTON	77099	OLLE MS	ALIEF	564-6376	AO	M
AGUILERA	NICHOLAS D.	IB		1	8	1265 DOVE	HOUSTON	77015	GALENA PARK MS	GPISD	451-0607	H	M
ANGLIN	DANA	ID		1	9	2806 ASHMONT	MISSOURI CITY	77459	ST AGNES ACADEMY	PRIVATE	499-5313	AA	F
AUSTIN	ONEIKA	IC		1	8	1311 VILLAGE GARDEN DRIVE	MISSOURI CITY	77459	DULLES MS	FBISD	499-4350	AA	F
AUZENNE	MELANIE	ID		1	9	12814 OLD PINE LANE	HOUSTON	77015-2036	NORTH SHORE HS	GPISD	455-2951	AA	F
BEVERLY	MISTY	IB		1	8	11302 HOMBRILY COURT	HOUSTON	77066-4801	SHOTWELL MS	AISD	586-4020	AA	F
BHOOMI	AKIEM	IC		1	8	12440 MARICOPA LANE	HOUSTON	77015-6607	WOODLAND ACRES MS	GPISD	451-3449	AA	M
BROWN	SAMENA E.	IB		1	7	14503 ALROVER	HOUSTON	77045-6513	RYAN MS	HISD	433-1951	AA	F
CARDENAS	LISA	ID		1	8	11201 OLYMPIA #2701	HOUSTON	77042	LANIER MS	HISD	952-0934	H	F
CHAVEZ	AMANDA	IB		1	8	1802 18TH STREET	GALENA PARK	77547	GALENA PARK MS	GPISD	672-6939	H	F
CLARK	JUANITA	IC		1	9	5335 W. GULF BANK #1416	HOUSTON	77088	EISENHOWER HS	AISD	820-3952	AA	F
CONYERS	GARY	ID		1	8	6301 SIERRA BLANCE DRIVE	HOUSTON	77083	O'DONNELL MS	ALIEF	561-5232	AA	M
CORTEZ	ANGELA	ID		1	8	1409 18TH STREET	GALENA PARK	77547	GALENA PARK MS	GPISD	451-4484	H	F
COSTILLA	ELISAMA	IC		1	8	1331 18TH STREET	GALENA PARK	77547	GALENA PARK MS	GPISD	473-5711	H	F
DAVIS	CRYSTAL	IB		1	8	14423 LEACREST DRIVE	HOUSTON	77049	CUNNINGHAM MS	GPISD	458-7707	AA	F
DE LEON	ANGELICA	IC		1	8	5143 W. DAVIS ROAD	ARCOLA	77583-2013	LAKE OLYMPIA MS	FBISD	431-2844	H	F
DOAN	DIEP	IC		1	8	1 GOODMAN DRIVE #194	HOUSTON	77060	STOYALL MS	AISD	445-4689	AO	F
DUCKETT	TERRIKA	IC		1	7	19910 SPANISH NEEDLE	HOUSTON	77084	MAYDE CREEK MS	KISD	578-0996	AA	F
ELSHAKSHIR	LEILA	ID		1	8	6857 GREENWAY CHASE	HOUSTON	77072	O'DONNELL MS	ALIEF	495-0485	H	F
ESPINOSA	ANGELICA	ID		1	9	6714 AVENUE I	HOUSTON	77011-2334	FURR HS	HISD	923-5070	H	F
EVANS	CHARLETTA	ID		1	8	5234 RIDGETURN DRIVE	HOUSTON	77053	MC AULIFFE MS	FBISD	437-9314	AA	F
GARCIA	CELESTE	IA		1	7	415 HARBOR	HOUSTON	77020	FLEMING MS	HISD	671-0951	H	F
GIBBS	BILLIE	ID		1	8	4914 EARLINE	HOUSTON	77016	CROCKETT MS	CROCKE	633-4962	AA	F
GONAZLES	MELISSA	IC		1	8	8814 HILLS GROVE	HOUSTON	77088	SHOTWELL MS	AISD	448-3870	H	F
GORDON	CHASITI	ID		1	8	P.O. BOX 781	GALENA PARK	77547	BURBANK MS	HISD	692-0790	AI	F
GREEN	ERICKA	IC		1	8	14203 PINE WEST DRIVE	HOUSTON	77049-3611	CUNNINGHAM MS	GPISD	458-6186	AA	F
HALL	J'ANTAE	ID		1	9	2017 WICHITA	HOUSTON	77004	LAMAR HS	HISD	987-1404	AA	F
HARDIKAR	AMOL A.	IC		1	7	3015 SAM HOUSTON DRIVE	SUGARLAND	77479	FIRST COLONY MS	FBISD	265-1821	AO	M
HARDY	TARSHA	ID		1	8	421 CLEARWATER	HOUSTON	77029	WOODLAND ACRES MS	GPISD	672-1668	AA	F
HENRY	KRISTEN	IA		1	7	13511 N. YRACEWOOD BEND	HOUSTON	77077	THE VILLAGE SCHOOL	HISD	589-1396	AA	F
HERNANDEZ	DESTINEY	IB		1	8	10134 PALESTINE	HOUSTON	77029	GALENA PARK MS	GPISD	671-9687	H	F
HERNANDEZ	MOSES	IB		1	8	6130 HOMEVIEW	HOUSTON	77049	CUNNINGHAM MS	GPISD	459-3241	H	M
HIGGINS	SHANTEL	ID		1	8	14403 WINDY WILLOW CT.	MISSOURI CITY	77489	MISSOURI CITY MS	FBISD	438-7374	AA	F
HOLMES	TERRE	IA		1	7	6603 KRAUSE DRIVE	MISSOURI CITY	77489-3506	MC AULIFFE MS	FBISD	437-1418	AA	F
JONES	SHARHONDA	IB		1	7	7522 ROCKHILL	HOUSTON	77061	WELCH MS	HISD	727-1488	AA	F
JOSEPH	MARISA R.	IB		1	8	22503 PARK PT.	KATY	77450	WEST MEMORIAL MS	KATY	392-0904	AA	F
KELM	CHRISTOPHER	IC		1	8	8339 WINNINGHAM LANE	HOUSTON	77055-7529	SPRING BRANCH MS	SBISD	932-8252	AI	M
KULKARNI	MADHURA M.	IA		1	7	11626 BICKWOOD DRIVE	HOUSTON	77089-5320	THOMPSON MS	PISD	484-5005	AO	F
LEAL	DIANA	IB		1	8	401 EAST 27TH	HOUSTON	77008	HAMILTON MS	HISD	862-4944	H	F
LEE	MARY	IA		1	7	7904 WEST STREET	HOUSTON	77093	LAMAR FLEMING MS	HISD	695-9925	AA	F
LEIJA	JOSHUA	IA		1	7	10631 WHEATON	HOUSTON	77089-1433	BEVERLY HILLS MS	PISD	944-6253	H	M
LEWIS, II	WALTER L.	IC		1	7	7347 KINGSWAY DRIVE	HOUSTON	77087	LANIER MS	HISD	649-4904	AA	M

## PREP96 - CERTIFIED

LINDSEY	PATRICK	IA	1	74107 SUGAR CROSSING COURT	SUGARLAND	77478	DULLES MS	FBISD	980-3272	A	M
LINDSEY	SCOTT A.	IB	1	74107 SUGAR CROSSING COURT	SUGARLAND	77478	DULLES MS	FBISD	980-3272	A	M
LOCKE	ASHLEY	IB	1	71039 CREEKMONT DRIVE	HOUSTON	77091	GRADY MS	HISD	683-8403	AA	F
LOCKETT	ELIZABETH	IB	1	716210 CANARIDGE STREET	HOUSTON	77053-3462	MC AULIFFE MS	FBISD	437-6240	AA	F
LUGO	ROBERT	ID	1	810534 SUMMERBROOK DRIVE	HOUSTON	77038	SHOTWELL MS	AISD	448-6438	H	M
MAO	NOREEN	ID	1	811 ALPINE COURT	BELLAIRE	77401	PERSHING MS	HISD	666-3136	AO	F
MARTINEZ	CLAUDIA	ID	1	87017 BROWNWOOD	HOUSTON	77020	HAMILTON MS	HISD	675-7989	H	F
MARTINEZ	TERESA	ID	1	97017 BROWNWOOD	HOUSTON	77020	MILBY HS	HISD	675-7999	H	F
MC INTYRE	RA' MIER	IA	1	74126 BROOKHEAD TRAIL	HOUSTON	77066	WUNDERLICH MS	KLEIN	583-1519	AA	M
MC KELVEY	ROLETHIAL	IA	1	74109 KRESS	HOUSTON	77026	REVERE MS	HISD	635-6018	AA	F
MONGE	WENDY	IA	1	82417 BEVIS ST.	HOUSTON	77008	HAMILTON MS	HISD	864-6635	H	F
MONTGOMERY	JERNESHIA	IB	1	85802 LANSDOWN DRIVE	HOUSTON	77049-4403	CUNNINGHAM MS	GPISD	459-1745	AA	F
MURPHY	TREVA	IB	1	710539 SANGERBROOK DRIVE	HOUSTON	77038	SHOTWELL MS	AISD	397-0140	AA	F
NORIS	BARIKA	ID	1	915350 PEACHMEADOW	CHANNELVIEW	77530	CHANNELVIEW HS	CHANNEL	452-7477	AA	F
OGUNLEYE	ADENIKE	IA	1	71507 LAZY SPRING	MISSOURI CITY	77489	DULLES MS	FBISD	835-0998	AA	F
ONTIVEROS	RAQUEL	IB	1	7612 MAJESTIC	HOUSTON	77020	HOLY NAME CATHOLIC	HISD	675-0213	H	F
OZA	AUJALI D.	ID	1	83914 ALMINGTON LANE	HOUSTON	77088-5622	HOFFMAN MS	AISD	445-7848	AO	F
PHILLIPS	JERVALE D.	IC	1	85914 WOOD BEND DRIVE	HOUSTON	77049-4032	CUNNINGHAM MS	GPISD	459-3853	AA	F
PINA	HELEN	IC	1	813910 CROSSWOOD	HOUSTON	77038	SHOTWELL MS	AISD	820-9410	H	F
QUIROGA	JOSE	IC	1	82016 10TH	GALENA PARK	77547	GALENA PARK MS	GPISD	674-2516	H	M
REYNA	JORGE	IB	1	715322 CHERSHUNT LN.	CHANNELVIEW	77045	REVERE MS	HISD	433-3725	H	M
RICHARD	CRYSTAL	IA	1	84830 TRAIL LAKE	HOUSTON	770345	PAUL REVERE MS	HISD	433-3725	B	F
ROBERTS	PARKER	IC	1	71824 ROSEWOOD	HOUSTON	77004	LANIER MS	HISD	526-5012	AA	M
RODRIGUEZ	CHRISTINA	IB	1	714630 KEMROCK DR.	HOUSTON	77049	CUNNINGHAM MS	GPISD	458-6782	H	F
SADLER	JAMAR	IB	1	86906 WEYBURN	HOUSTON	77028	OAK VILLAGE MS	NFISD	631-0672	AA	M
SASU	ESTHER	IC	1	816338 BODEGA BAY	HOUSTON	77053	MC AULIFFE MS	FBISD	438-2767	AA	F
SHEFFIELD	KATHYANNE A.	IC	1	81409 LIVE OAK STREET	HOUSTON	77003-4410	KEY MS	HISD	227-3927	AA	F
SIRISAENOTAKSI	NATALIE	IA	1	711339 WALNUT MEADOW DR.	HOUSTON	77066-3960	WUNDERLICH MS	KLEIN	444-0322	AO	F
SMITH	YOLANDA A.	IB	1	75035 COURT ROAD	HOUSTON	77053	MC AULIFFE MS	FBISD	437-3014	AA	F
STEPHENS	HEAVEN C.	IA	1	84446 W. CYPRESS VILLAS DR.	SPRING	77379	STRACK MS	KLEIN	370-9784	AA	F
STEWART	CHRISIAN J.	IB	1	72009 ARBOR STREET	HOUSTON	77004	RYAN MS	HISD	524-5181	AA	F
THOMPSON	KRISLYNN R.	IA	1	88927 DONLEY DRIVE	HOUSTON	77088-3431	SHOTWELL MS	AISD	931-3820	AA	F
UZOEgwu	LINDA C.	IC	1	817183 QUAIL PARK	MISSOURI CITY	77489	LAKE OLYMPIA MS	FBISD	437-3893	AA	F
UZOEgwu	STELLA U.	IB	1	717183 QUAIL PARK	MISSOURI CITY	77489	LAKE OLYMPIA MS	FBISD	437-3893	AA	F
VALDEZ	NORMA	IA	1	715219 TAYPORT LANE	CHANNELVIEW	77530	JOHNSON MS	CHANNEL	457-0026	H	F
VARGAS	BRENDA L.	IB	1	8629 EAST 26TH STREET	HOUSTON	77008	HAMILTON MS	HISD	868-3166	H	F
WALTON	BRANDI E.	ID	1	97318 SAN RAMON	HOUSTON	77083	ELSIK HS	ALIEF	879-7921	AA	F
WILLIAMS	COURTNEY M.	IA	1	74706 STONEWALL STREET	HOUSTON	77020	ST. ANNE CATHOLIC SCHOOL	PRIVATE	672-6243	AA	F
WOODS	TIFFANY R.	ID	1	91256 ORLEANS	HOUSTON	77015	NORTH SHORE HS	GPISD	455-0835	AA	F
WU	JENNIFER	IC	1	78006 CIRCLE DRIVE NORTH	HOUSTON	77071	LANIER MS	HISD	541-4737	AO	F
XIE	YINADA (Linda)	IB	1	74211 MOUNTAIN PEAK WAY	KINGWOOD	77345	CREEKWOOD MS	HUMBIE	161-3234	AO	F
BARNES	ASERINE (Niki) N.	IIA	2	9422 TENNESSE	HOUSTON	77029	CALENA PARK HS	GPISD	671-1559	H	F
BARRERA	LIZETH	IIB	2	91439 PEACH SPRING	HOUSTON	77088	ALDINE HS	AISD	931-0977	H	F
BOUDREAU	ANDREA F.	IIA	2	813710 MISTY BLUFF	HOUSTON	77085	RYAN MS	HISD	721-7609	B	F
CARO	WILLIAM R.	IIB	2	93119 BERAN DR.	HOUSTON	77045	REAGAN HS	HISD	434-8531	H	M
CARTER	TURNER C.	IIA	2	81810 WEST AIRPORT #302	HOUSTON	77071	REVERE MS	HISD	772-1743	B	M
CHANG	CHRISTOPHER R.	IIA	2	914742 OAK BEND DR.	HOUSTON	770796419	STAFFORD HS	SBISD	493-1242	AO	M

CHISOLM	DAWNA R.	IIA		2	9 7226 PINEHOOK LANE	HOUSTON	77016	FOREST BROOK HS	NFISD	987-3724	B	F
CLARK	CIARA S.	IIA		2	9 3414 HONSINGER	HOUSTON	77007	WASHINGTON HS	HISD	862-1272	B	F
DIXON	GLORIA L.	IIA		2	9 3426 CREEK GROVE DR.	HOUSTON	77066	EISENHOWER HS	AISD	586-8273	B	F
EDWARDS	SHATE L.	IIB		2	9 559 RIVERGROVE	HOUSTON	77015	ST. PIUS X HS	PRIVATE	455-8467	B	F
ELKINS	SYREETA N.	IIB		2	9 410 CARTERSVILLE	HOUSTON	77029	GALENA PARK HS	GPISD	674-0108	B	F
ESPITIA	GABRIEL	IIB		2	8 427 EXCHANGE	HOUSTON	77020	BURBANK MS	HISD	674-8820	H	M
ESTES	XAVIERA M.	IIB		2	8 5122 FAIRGREEN LN.	HOUSTON	77048-2726	HAMILTON MS	HISD	733-1254	B	F
EUDOXIE	ELIZABETH I.	IIB		2	9 426 DIAMOND ROCK DR.	KATY	77449	LANGHAM CREEK HS	CYPRESS	550-2156	AA	F
FOSTER	ABRAM I.	IIA		2	10 11315 FONDREN RD. #110	HOUSTON	77035	WESTBURY HS	HISD	721-0426	B	M
GIBSON	DEBBIE N.	IIA		2	8 5536 TREMPER	HOUSTON	77020	FLEMING MS	HISD	674-8568	B	F
GLASS	SHARIFA N.	IIB		2	9 4372 VARSITY LANE	HOUSTON	77004-6618	HS - PUBLIC HEALTH	HISD	748-0486	B	F
GOLDSTON	BENJAMIN M.	IIB		2	9 19920 FOXWOOD FOREST #110	HUMBLE	77338	NIMITZ HS	AISD	446-7322	B	M
GONZALES	DOMINGO	IIB		2	9 405 PLYMOUTH	HOUSTON	77022	HS - ENGINEERING PROF.	HISD	697-0591	H	M
GUTIERREZ, JR.	GOSFREY	IIB		2	9 12659 ALICE LANE	HOUSTON	77015	GALENA PARK HS	GPISD	455-3433	H	M
HARDY	TONNEKA R.	IIB		2	10 421 CLEARWATER	HOUSTON	77029	GALENA PARK HS	GPISD	672-1668	B	F
HARRIS	ASHLEY O.	IIA		2	8 3618 YELLOWSTONE BLVD.	HOUSTON	77021	PERSHING MS	HISD	748-7706	B	M
HINDS	JASON A.	IIB		2	8 8014 FOREST BREEZE LANE	SPRING	77379	ST. VINCENT DE PAUL	PRIVATE	320-1058	B	M
JAMES	TIA P.			2	9 8458 BINN RD.	HOUSTON	77078-2830	HS - LACI	HISD	635-6111	B	F
JONES	BLAIR D.	IIB		2	10 8810 CHELSWORTH DR.	HOUSTON	77083	KEMPNER HS	FBISD	983-0822	B	M
LOCKETT	KRISTAN E.	IIB		2	9 13139 BENFORD DR.	HOUSTON	77099	WASHINGTON HS	ALIEF	530-8928	B	F
MARTINEZ	JOAQUIN	IIB		2	10 5211 MULFORD	HOUSTON	77023-3195	AUSTIN HS	HISD	921-5899	H	M
MATE	JENNIFER M.	IIA		2	8 12803 KNOLLCREST	HOUSTON	77015	CUNNINGHAM MS	GPISD	453-6833	A	F
MAYES	BIANCA L.	IIA		2	9 4318 TAVENOR	HOUSTON	77047-1844	WORTHING HS	HISD	733-2157	B	F
McWILLIAMS	KIMBERLY J.	IIA		2	10 5105 POLK #3	HOUSTON	77023	AUSTIN HS	HISD	926-1571	H	F
MEJIA	ROBERTO, JR.	IIA		2	7 2822 HOPPER ROAD	HOUSTON	77093	BURBANK MS	HISD	442-3648	B	M
MURRAY	LETICIA	IIB		2	9 1420 SHIRLEY LANE	HOUSTON	77015	GALENA PARK HS	GPISD	453-8646	H	F
ODIMA	LENSA B.	IIB		2	8 8318 ASHLAWN DR.	HOUSTON	77083	HODGES BEND MS	FBISD	277-7504	B	F
OVALLE	IDALIA	IIB		2	8 8209 FULTON #254	HOUSTON	77022	BURBANK MS	HISD	692-5164	H	F
PETER	JENNA L.	IIB		2	9 20142 TELEGRAPH SQUARE LN.	HOUSTON	77449	MAYDE CREEK HS	KATY	578-0447	B	F
PINEDA	JOSE E.	IIA		2	8 4034 LEMAC	HOUSTON	77025	PERSHING MS	HISD	661-0351	H	M
PRADO	ROBERTO	IIA		2	8 206 ISHMEAL	HOUSTON	77076	HEGG MS	HISD	699-5069	H	M
RAYNE	MICHELLE I.	IIB		2	8 4007 EASTSHORE DR.	MISSOURI CITY	77459	DULLES MS	FBISD	499-4063	A	F
RUIZ	JESSICA	IIB		2	8 821 ALLSTON	HOUSTON	77007	HOGG MS	HISD	868-4587	H	F
SEALS	CHANIS	IIA		2	8 14502 CIRCLECHASE DR.	MISSOURI CITY	77489-1833	MISSOURI CITY MS	FBISD	438-0283	B	F
TOLIVER	CHRISTINA D.	IIA		2	7 7626 GOLDFINCH	HUMBLE	77396-1818	HUMBLE MS	HUMBLE	441-3081	B	F
WALTERS	TAMARA M.	IIB		2	10 415 NOONDAY	HOUSTON	77060-7552	ALDINE HS	AISD	447-5513	B	F
WHITE	ROZELLA H.	IIB		2	9 1711 BENT OAK DR.	MISSOURI CITY	77489	WILLOWBRIDGE HS	FBISD	437-3204	B	F
AGUIRRE	JOANNA S.	IIIB		3	9 15626 CAMINO DEL SOL	HOUSTON	77083-4003	AUSTIN HS	FBISD	495-8331	H	F
AMADOR	DANTE O.	IIIB		3	10 3130 MANOUR #57	HOUSTON	77092	HS - CAREERS	HISD	688-8330	H	M
BANKS	BROOKE T.	IIIA		3	9 6243 OAKHAM ST.	HOUSTON	77085	REAGAN HS	HISD	721-8493	B	F
BROWN	GREGORY W.	IIIA		3	10 5039 HOLLY BROOK LN	HOUSTON	77039	MACARTHUR HS	AISD	590-5339	B	M
BROWN	NAHAYSA J.	IIIB		3	9 10215 BEECHNUT #502	HOUSTON	77072	HASTINGS HS	ALIEF	564-0160	B	F
BURGESS	JUSTIN D.	IIIA		3	7 9115 IMOGENE	HOUSTON	77036	OLLE MS	ALIEF	541-2641	B	M
CHEE	LAWRENCE	IIIB		3	9 8914 STERLINGAME	HOUSTON	77031-3023	BELLAIRE HS	HISD	771-0082	AO	M
CLOUSER	JASON F.	IIIA		3	8 6038 TROPICAL WAY	HOUSTON	77087	ST. JOHNS	PRIVATE	643-3381	B	M
CLOUSER	JENNIFER L.	IIIA		3	8 6038 TROPICAL WAY	HOUSTON	77087	ST. JOHNS	PRIVATE	643-3381	B	F
FERNANDEZ	MICHAEL A.	IIIB		3	9 7431 BROCKLEY LN.	HOUSTON	77087	MILBY HS	HISD	643-1520	H	M

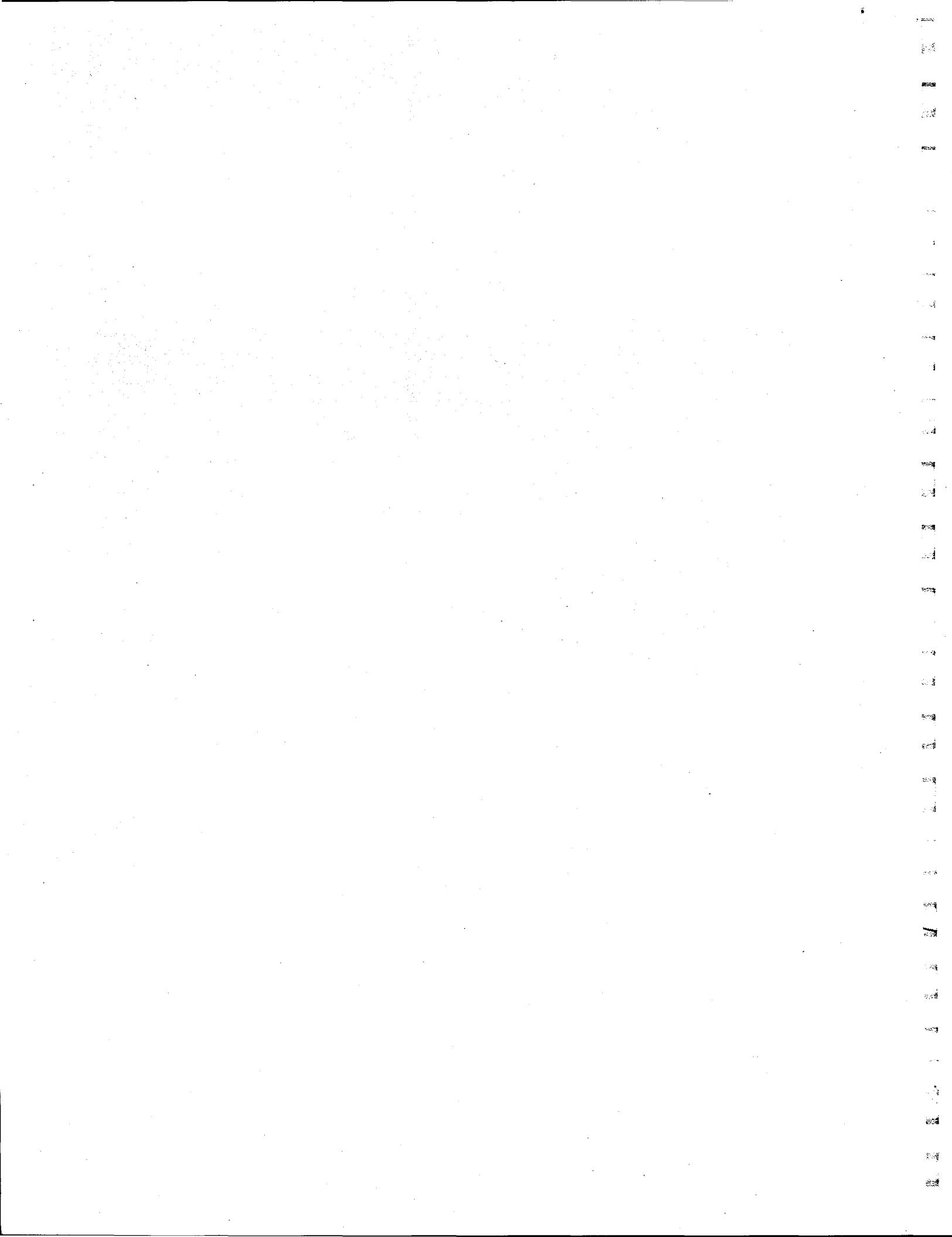
FERRELL	FALAYN M.	IIIB		3	8 12422 SOUTH GARDEN	HOUSTON	77071	WELCH MS	HISD	270-0670	B	F
FORDE	STANLEY F.	IIIB		3	11 5139 SHADOWRIDGE DR.	HOUSTON	77053	WILLOWRIDGE HS	FBISD	437-9397	B	M
FRASSER	SANDRA G.	IIIB		3	10 10926 MACKENZIE	HOUSTON	77086-1716	EISENHOWER HS	AISD	445-9423	H	F
GEORGE	MANOJ M.	IIIA		3	9 4033 OSBY	HOUSTON	77025	BELLAIRE HS	HISD	667-9130	AO	M
GHAYEE	SONIA R.	IIIA		3	9 15423 CAMINO DEL SOL	HOUSTON	77083	ELSIK HS	ALIEF	933-3228	AO	F
HATE	RUHEE U.	IIIA		3	9 906 RED ROCK CANYON	KATY	77450	KATY HS	KATY	392-6170	AO	F
HERNANDEZ	NATHANIEL D.	IIIB		3	10 15128 SHEFFIELD TERRACE	CHANNELVIEW	77530	CHINQUAPIN SCHOOL	CISD	457-6770	H	M
JAMES	DAVID O.	IIIA		3	10 10114 TRADEWINDS	HOUSTON	77086	EISENHOWER HS	AISD	999-6159	B	M
JONES	KELVIN K.	IIIA		3	9 6302 BERK RIDGE DR.	HOUSTON	77053	WIKKIWRUDGE HS	FBISD	438-7217	B	M
LACKEY	LA TOYA L.	IIIA		3	10 4906 HIRSCH ROAD	HOUSTON	77026	WASHINGTON HS	HISD	676-2970	B	F
LIU	MICHELLE H.	IIIB		3	10 11002 BEAVER TRAIL DR.	HOUSTON	77086-1419	KLEIN FOREST	KLEIN	537-1658	AO	F
LOPEZ	JOSE M.	IIIB		3	10 2513 CHARLES RD.	HOUSTON	77093	FURR HS	HISD	697-4801	H	M
MARTINEZ	JORGE	IIIB		3	11 11602 ELM ESTATES	HOUSTON	77077	HASTINGS HS	ALIEF	584-0966	H	M
MATE	ROBERT J.	IIIB		3	10 12803 KNOLLCREST	HOUSTON	77015	NORTHSHORE HS	GPISD	453-6853	A	M
McKELVEY	VIVIAN J.	IIIA		3	8 4109 KRESS	HOUSTON	77026	REVERE MS	HISD	635-6018	B	F
MINTA	ANNA A.	IIIB		3	9 39 STERLING ST	SUGARLAND	77479-2934	CLEMENTS HS	FBISD	265-0861	B	F
MONTIEL	ALBA R.	IIIB		3	9 16803 CARL #113	HOUSTON	77060	NIMITZ HS	AISD	847-2824	H	F
NGUYEN	MARY	IIIB		3	9 8001 S LOOP EAST #102	HOUSTON	77012	HS - CAREERS	HISD	643-9465	AO	F
RONQUILLO	JOCELYN Y.	IIIA		3	10 3309 KOWIS	HOUSTON	77093	REAGAN HS	HISD	442-6079	H	F
SANCHEZ	DANIEL	IIIA		3	9 4141 WOODFIN	HOUSTON	77025	WESTBURY HS	HISD	661-1972	H	M
SAMUEL	BETTY	IIIA		3	9 14618 LEACREST DR.	HOUSTON	77049	NORTH SHORE HS	GPISD	458-4306	AO	F
SAMUEL	LETTY M.	IIIB		3	10 14618 LEACREST DR.	HOUSTON	77049	NORTH SHORE HS	GPISD	458-4306	AO	F
SHELVIN	JENNIFER N.	IIIB		3	8 602 ROBMORE LANE	HOUSTON	77076	BURBANK MS	HISD	699-9294	B	F
SIIDIQI	FATIMAH S.	IIIA		3	9 9103 DANIELLE CT.	HOUSTON	77099	ELSIK HS	ALIEF	879-8359	AO	F
SMITH	JARROD B.	IIIA		3	9 9504 WINDSWEPT	HOUSTON	77063	LANIER HS	HISD	974-1080	B	M
STEWART	LESLIE D.	IIIA		3	10 258 OLD SPRING LANE	HOUSTON	77015	NORTH SHORE HS	GPISD	453-5149	B	F
TATUM	LA TOI S.	IIIB		3	9 5243 ENYART	HOUSTON	77021	LAMAR HS	HISD	499-3537	B	F
THOMAS	JOHN E.	IIIB		3	10 3420 FEDERAL RD. #275	PASADENA	77504	SOUTH HOUSTON HS	PISD	943-8968	A	M
TIEN	LI (JASON)	IIIB		3	10 5900 RANCHESTER #805	HOUSTON	77036	HASTINGS HS	ALIEF	777-2788	AO	M
TOLIVER	CRYSTAL D.	IIIA		3	8 7626 GOLDFINCH	HUMBLE	77396-1818	HUMBLE MS	HUMBLE	441-3081	B	F
WHITE	JAMES A.	IIIB		3	10 6305 WESTWARD #136	HOUSTON	77081	HS - ENGINEERING	HISD	772-5143	H	M
WILLIAMS	CLEO	IIIA		3	10 3128 CHRISTIE	HOUSTON	77026	MILBY HS	HISD	674-8006	AA	F
WILLIAMS	PARKER L.	IIIA		3	9 3439 BANBURY	HOUSTON	77027	LAMAR HS	HISD	623-8298	B	M

1996 HOUSTON PREP CERTIFIED PARTICIPANTS											
LAST NAME	FIRST NAME	GRADE	LAST NAME	FIRST NAME	GRADE	LAST NAME	FIRST NAME	GRADE	LAST NAME	FIRST NAME	GRADE
BROWN	SAMENA E.	7	GIBBS	BILLIE	8	ELKINS	SYREETA N.	9			
BURGESS	JUSTIN D.	7	GIBSON	DEBBIE N.	8	ESPINOZA	ANGELICA	9			
DUCKETT	TERRIKA	7	GONAZLES	MELISSA	8	EUDOXIE	ELIZABETH I.	9			
GARCIA	CELESTE	7	GORDON	CHASITI	8	FERNANDEZ	MICHAEL A.	9			
HARDIKAR	AMOL A.	7	GREEN	ERICKA	8	GEORGE	MANOJ M.	9			
HENRY	KRISTEN	7	HARDY	TARSHA	8	CHAYEE	SONIA R.	9			
HOLMES	TERRE	7	HARRIS	ASHLEY O.	8	GLASS	SHARIFA N.	9			
JONES	SHARHONDA	7	HERNANDEZ	DESTINEY	8	GOLDSTON	BENJAMIN M.	9			
KULKARNI	MADHURA M.	7	HERNANDEZ	MOSES	8	GONZALES	DOMINGO	9			
LEE	MARY	7	HIGGINS	SHANTEL	8	GUTIERREZ, JR.	GOSFREY	9			
LEIJA	JOSHUA	7	HINDS	JASON A.	8	HALL	JANTAE	9			
LEWIS, II	WALTER L.	7	JOSEPH	MARISA R.	8	HATE	RUHEE U.	9			
LINDSEY	PATRICK	7	KELM	CHRISTOPHER	8	JAMES	TIA P.	9			
LINDSEY	SCOTT A.	7	LEAL	DIANA	8	JONES	KELVIN K.	9			
LOCKE	ASHLEY	7	LUGO	ROBERT	8	LOCKETT	KRISTAN E.	9			
LOCKETT	ELIZABETH	7	MAO	NOREEN	8	MARTINEZ	TERESA	9			
MC INTYRE	RA'MIER	7	MARTINEZ	CLAUDIA	8	MAYES	BIANCA L.	9			
MC KELVEY	ROLETHIAL	7	MATE	JENNIFER M.	8	MINTA	ANNA A.	9			
MEJIA	ROBERTO, JR.	7	McKELVEY	VIVIAN J.	8	MONTIEL	ALBA R.	9			
MURPHY	TREVA	7	MONGE	WENDY	8	MURRAY	LETICIA	9			
OGUNLEYE	ADENIKE	7	MONTGOMERY	JERMESHIA	8	NGUYEN	MARY	9			
ONTIVEROS	RAQUEL	7	ODIMA	LENSA B.	8	NORIS	BARIKA	9			
REYNA	JORGE	7	OVALLE	IDALIA	8	PETER	JENNA L.	9			
ROBERTS	PARKER	7	OZA	AUJALI D.	8	SAMUEL	BETTY	9			
RODRIGUEZ	CHRISTINA	7	PHILLIPS	JERVALE D.	8	SANCHEZ	DANIEL	9			
SIRISAENGTAKSIN	NATALIE	7	PINA	HELEN	8	SIDDIQI	FATIMAH S.	9			
SMITH	YOLANDA A.	7	PINEDA	JOSE E.	8	SMITH	JARROD B.	9			
STEWART	CHRISIAN J.	7	PRADO	ROBERTO	8	TATUM	LA TOI S.	9			
TOLIVER	CHRISTINA D.	7	QUIROGA	JOSE	8	WALTON	BRANDI E.	9			
UZOEGWU	STELLA U.	7	RAYNE	MICHELLE I.	8	WHITE	ROZELLA H.	9			
VALDEZ	NORMA	7	RICHARD	CRYSTAL	8	WILLIAMS	PARKER L.	9			
WILLIAMS	COURNEY M.	7	RUIZ	JESSICA	8	WOODS	TIFFANY R.	9			
WU	JENNIFER	7	SADLER	JAMAR	8	AMADOR	DANTE O.	10			
XIE	YINADA (Linda)	7	SASU	ESTHER	8	BROWN	GREGORY W.	10			
ABDULLAH	AHMED	8	SEALS	CHANI S.	8	FOSTER	ABRAM I.	10			
ABDULLAH	HAIDER	8	SHEFFIELD	KATHYANNE A.	8	FRASSER	SANDRA G.	10			
AGUILERA	NICHOLAS D.	8	SHELVIN	JENNIFER N.	8	HARDY	TONNEKA R.	10			
AUSTIN	ONEIKA	8	STEPHENS	HEAVEN C.	8	HERNANDEZ	NATHANIEL D.	10			
BEVERLY	MISTY	8	THOMPSON	KRISLYNN R.	8	JAMES	DAVID O.	10			
BOOTHE	AKEEM	8	TOLIVER	CRYSTAL D.	8	JONES	BLAIR D.	10			
BOUDREAU	ANDREA F.	8	UZOEGWU	LINDA C.	8	LACKEY	LA TOYA L.	10			
CARDENAS	LISA	8	VARGAS	BRENDA L.	8	LIU	MICHELLE H.	10			
CARTER	TURNER C.	8	AGUIRRE	JOANNA S.	9	LOPEZ	JOSE M.	10			
CHAVEZ	AMANDA	8	ANGLIN	DANA	9	MARTINEZ	JOAQUIN	10			
CLOUSER	JASON F.	8	AUZENNE	MELANIE	9	MATE	ROBERT J.	10			
CLOUSER	JENNIFER L.	8	BANKS	BROOKE T.	9	McWILLIAMS	KIMBERLY J.	10			
CONYERS	GARY	8	BARNES	ASERINE (Niki)	9	RONQUILLO	JOCELYN Y.	10			
CORTEZ	ANGELA	8	BARRERA	LIZETH	9	SAMUEL	LETTY M.	10			
COSTILLA	ELISAMA	8	BROWN	NAHAYSA J.	9	STEWART	LESLIE D.	10			
DAVIS	CRYSTAL	8	CARO	WILLIAM R.	9	THOMAS	JOHN E.	10			
DE LEON	ANGELICA	8	CHANG	CHRISTOPHER I	9	TIEN	LI (JASON)	10			
DOAN	DIEP	8	CHEE	LAWRENCE	9	WALTERS	TAMARA M.	10			
ELSHAKSHIR	LEILA	8	CHISOLM	DAWNA R.	9	WHITE	JAMES A.	10			
ESPIITA	GABRIEL	8	CLARK	CIARA S.	9	WILLIAMS	CLEO	10			
ESTES	XAVIERA M.	8	CLARK	JUANITA	9	FORDE	STANLEY F.	11			
EVANS	CHARLETTA	8	DIXON	GLORIA L.	9	MARTINEZ	JORGE	11			
FERRELL	FALAYN M.	8	EDWARDS	SHATE'L.	9						

1996 HOUSTON PREP CERTIFIED PARTICIPANTS							
LAST NAME	FIRST NAME	SCHOOL	DISTRICT	LAST NAME	FIRST NAME	SCHOOL	DISTRICT
BARRERA	LIZETH	ALDINE HS	ALDINE	CHEE	LAWRENCE	BELLAIRE IIS	HOUSTON
WALTERS	TAMARA M	ALDINE HS	ALDINE	GEORGE	MANOJ M	BELLAIRE HS	HOUSTON
CLARK	JUANITA	EISENHOWER HS	ALDINE	ESPITA	GABRIEL	BURBANK MS	HOUSTON
DIXON	GLORIA L	EISENHOWER HS	ALDINE	GORDON	CHASITI	BURBANK MS	HOUSTON
FRASSER	SANDRA G	EISENHOWER HS	ALDINE	MEJIA	ROBERTO, JR	BURBANK MS	HOUSTON
JAMES	DAVID O	EISENHOWER HS	ALDINE	OVALLE	IDALIA	BURBANK MS	HOUSTON
OZA	AUALI D	HOFFMAN MS	ALDINE	SHELVIN	JENNIFER N	BURBANK MS	HOUSTON
BROWN	GREGORY W	MAC ARTHUR HS	ALDINE	GARCIA	CELESTE	FLEMING MS	HOUSTON
GOLDSTON	BENJAMIN M	NIMITZ HS	ALDINE	GIBSON	DEBBIE N	FLEMING MS	HOUSTON
MONTIEL	ALBA R	NIMITZ HS	ALDINE	ESPINOZA	ANGELICA	FURR HS	HOUSTON
BEVERLY	MISTY	SHOTWELL MS	ALDINE	LOPEZ	JOSE M	FURR HS	HOUSTON
GONZALES	MELISSA	SHOTWELL MS	ALDINE	LOCKE	ASHLEY	GRADY MS	HOUSTON
LUGO	ROBERT	SHOTWELL MS	ALDINE	ESTES	XAVIERA M	HAMILTON MS	HOUSTON
MURPHY	TREVA	SHOTWELL MS	ALDINE	LEAL	DIANA	HAMILTON MS	HOUSTON
PINA	HELEN	SHOTWELL MS	ALDINE	MONGE	WENDY	HAMILTON MS	HOUSTON
THOMPSON	KRISLYNN R	SHOTWELL MS	ALDINE	VARGAS	BRENDA L	HAMILTON MS	HOUSTON
DOAN	DIEP	STOVALI MS	ALDINE	MARTINEZ	CLAUDIA	HAMILTON MS	HOUSTON
GHAYEE	SONIA R	ELSIK HS	ALIEF	PRADO	ROBERTO	HEGG MS	HOUSTON
SIDIQI	FATIMAH S	ELSIK HS	ALIEF	RUIZ	JESSICA	HEGG MS	HOUSTON
WALTON	BRANDI E	ELSIK HS	ALIEF	ONTIVEROS	RAQUEL	HOLY NAME CATHOLIC	HOUSTON
BROWN	NAHAYA J.	HASTINGS HS	ALIEF	AMADOR	DANTE O.	HS - CAREERS	HOUSTON
MARTINEZ	JORGE	HASTINGS HS	ALIEF	NGUYEN	MARY	HS - CAREERS	HOUSTON
TIEN	LI (JASON)	HASTINGS HS	ALIEF	WHITE	JAMES A.	HS - ENGINEERING	HOUSTON
CONYERS	GARY	ODONNELL MS	ALIEF	GONZALES	DOMINGO	HS - ENGINEERING	HOUSTON
ELSHAKSHIR	LEILA	ODONNELL MS	ALIEF	JAMES	TIA P.	HS - LACI	HOUSTON
ABDULLAH	AHMED	OLLE MS	ALIEF	GLASS	SHARIFA N.	HS - PUBLIC HEALTH	HOUSTON
ABDULLAH	HAIDER	OLLE MS	ALIEF	SHEFFIELD	KATHYANNE A.	KEY MS	HOUSTON
BURGESS	JUSTIN D.	OLLE MS	ALIEF	LEE	MARY	LAMAR FLEMING MS	HOUSTON
LOCKETT	KRISTAN E.	WASHINGTON HS	ALIEF	HALL	FANTAE	LAMAR HS	HOUSTON
NORIS	BARIKA	CHANNELVIEW HS	CHANNELVIEW	TATUM	LA TOI S	LAMAR HS	HOUSTON
VALDEZ	NORMA	JOHNSON MS	CHANNELVIEW	WILLIAMS	PARKER L.	LAMAR HS	HOUSTON
HERNANDEZ	NATHANIEL D.	CHINQUAPIN SCHOOL	CHANNELVIEW	CARDENAS	LISA	LANIER MS	HOUSTON
GIBBS	BILLIE	CROCKETT MS	CROCKETT	LEWIS, II	WALTER L.	LANIER MS	HOUSTON
EUDOXIE	ELIZABETH	LANGHAM CREEK HS	CYPRESS	ROBERTS	PARKER	LANIER MS	HOUSTON
AGUIRRE	JOANNA S.	AUSTIN HS	FORTBEND	SMITH	JARROD B.	LANIER HS	HOUSTON
MINTA	ANNA A.	CLEMENTS HS	FORTBEND	WU	JENNIFER	LANIER MS	HOUSTON
AUSTIN	ONEIKA	DULLES MS	FORTBEND	FERNANDEZ	MICHAEL A.	MILBY HS	HOUSTON
LINDSEY	PATRICK	DULLES MS	FORTBEND	MARINEZ	TERESA	MILBY HS	HOUSTON
LINDSEY	SCOTT A.	DULLES MS	FORTBEND	WILLIAMS	CLEO	MILBY HS	HOUSTON
OGUNLEYE	ADENIKE	DULLES MS	FORTBEND	RICHARD	CRYSTAL	PAUL REVERE MS	HOUSTON
RAYNE	MICHELLE I.	DULLES MS	FORTBEND	HAKKIS	ASHLEY O.	PERSHING MS	HOUSTON
HARDIKAR	AMOL A.	FIRST COLONY MS	FORTBEND	MAO	NOREEN	PERSHING MS	HOUSTON
ODIMA	LENSA B.	HODGES BEND MS	FORTBEND	PINEDA	JOSE E.	PERSHING MS	HOUSTON
JONES	BLAIR D.	KEMPNER HS	FORTBEND	BANKS	BROOKET	REAGAN HS	HOUSTON
DE LEON	ANGELICA	LAKE OLYMPIA MS	FORTBEND	CARO	WILLIAM R.	REAGAN HS	HOUSTON
UZOEGWU	LINDA C.	LAKE OLYMPIA MS	FORTBEND	RONQUILLO	JOCELYN Y.	REAGAN HS	HOUSTON
UZOEGWU	STELLA U.	LAKE OLYMPIA MS	FORTBEND	CARTER	TURNER C.	REVERE MS	HOUSTON
EVANS	CHARLETTA	MC AULIFFE MS	FORTBEND	MC KELVEY	ROLETHIAL	REVERE MS	HOUSTON
HOLMES	TERRE	MC AULIFFE MS	FORTBEND	MC KELVEY	VIVIAN J.	REVERE MS	HOUSTON
LOCKETT	ELIZABETH	MC AULIFFE MS	FORTBEND	REYNA	JORGE	REVERE MS	HOUSTON
SASU	ESTHER	MC AULIFFE MS	FORTBEND	BOUDREAU	ANDREA F.	RYAN MS	HOUSTON
SMITH	YOLANDA A.	MC AULIFFE MS	FORTBEND	BROWN	SAMENA E.	RYAN MS	HOUSTON
HIGGINS	SHANTEL	MISSOURI CITY MS	FORTBEND	STEWART	CHRISIAN J.	RYAN MS	HOUSTON
SEALS	CHANI S.	MISSOURI CITY MS	FORTBEND	HENRY	KRISTEN	THE VILLAGE SCHOOL	HOUSTON
JONES	KELVIN K.	WIKI WIDGE HS	FORTBEND	CLARK	CIARA S.	WASHINGTON HS	HOUSTON
FORDE	STANLEY F.	WILLOWBRIDGE HS	FORTBEND	LACKEY	LA TOYA L.	WASHINGTON HS	HOUSTON
WHITE	ROZELLA H.	WILLOWBRIDGE HS	FORTBEND	FERRELL	FALAYN M.	WELCH MS	HOUSTON
DAVIS	CRYSTAL	CUNNINGHAM MS	GALENA PARK	JONES	SHARONDA	WELCH MS	HOUSTON
GREEN	ERICKA	CUNNINGHAM MS	GALENA PARK	FOSTER	ABRAM I.	WESTBURY HS	HOUSTON
HERNANDEZ	MOSES	CUNNINGHAM MS	GALENA PARK	SANCHEZ	DANIEL	WESTBURY HS	HOUSTON
MATE	JENNIFER M.	CUNNINGHAM MS	GALENA PARK	MATES	BIANCA L.	WORTHING HS	HOUSTON
MONTGOMERY	JEREMESHA	CUNNINGHAM MS	GALENA PARK	XIE	YINADA (Linda)	CREEKWOOD MS	HUMBLE
PHILLIPS	JERYALE D.	CUNNINGHAM MS	GALENA PARK	TOLIVER	CHRISTINA D.	HUMBLE MS	HUMBLE
RODRIGUEZ	CHRISTINA	CUNNINGHAM MS	GALENA PARK	TOLIVER	CRYSTAL D.	HUMBLE MS	HUMBLE
BARNES	ASERINE (Nika)	GALENA PARK HS	GALENA PARK	HATE	RHUEE U.	KATY HS	KATY
ELKINS	SYREETA N.	GALENA PARK HS	GALENA PARK	PETER	JENNA L.	MAYDE CREEK HS	KATY
GUTIERREZ, JR.	GOSFREY	GALENA PARK HS	GALENA PARK	JOSEPH	MARISA R.	WEST MEMORIAL MS	KATY
HARDY	TONNEKA R.	GALENA PARK HS	GALENA PARK	DUCKETT	TERRIKA	MAYDE CREEK MS	KATY
MURRAY	LETICIA	GALENA PARK HS	GALENA PARK	LIU	MICHELLE H.	KLEIN FOREST	KLEIN
AGUILERA	NICHOLAS D.	GALENA PARK MS	GALENA PARK	STEPHENS	HEAVEN C.	STRACK MS	KLEIN
CHAVEZ	AMANDA	GALENA PARK MS	GALENA PARK	MC INTRE	RA'MIER	WUNDERLICH MS	KLEIN
CORTEZ	ANGELA	GALENA PARK MS	GALENA PARK	SIRISAENGTAKSIN	NATALIE	WUNDERLICH MS	KLEIN
COSTILLA	ELISAMA	GALENA PARK MS	GALENA PARK	CHISOLM	DAWNA R.	FOREST BROOK HS	NORTH FOREST
HERNANDEZ	DESTINEY	GALENA PARK MS	GALENA PARK	SADLER	JAMAR	OAK VILLAGE MS	NORTH FOREST
QUITROGA	JOSE	GALENA PARK MS	GALENA PARK	LEJIA	JOSHUA	BEVERLY HILLS MS	PASADENA
AUZENNE	MELANIE	NORTH SHORE HS	GALENA PARK	THOMAS	JOHN E.	SOUTH HOUSTON HS	PASADENA
SAMUEL	BETTY	NORTH SHORE HS	GALENA PARK	KULKARNI	MADHURA M.	THOMPSON MS	PASADENA
SAMUEL	LETTY M.	NORTH SHORE HS	GALENA PARK	ANGLIN	DANA	ST AGNES ACADEMY	PRIVATE
STEWART	LESLIE D.	NORTH SHORE HS	GALENA PARK	WILLIAMS	COURTNEY M.	ST. ANNE CATHOLIC	PRIVATE
WOODS	TIFFANY R.	NORTH SHORE HS	GALENA PARK	CLOUSER	JASON F.	ST. JOHNS	PRIVATE
MATE	ROBERT J.	NORTH SHORE HS	GALENA PARK	CLOUSER	JENNIFER L.	ST. JOHNS	PRIVATE
BOOTHE	AKEEM	WOODLAND ACRES MS	GALENA PARK	EDWARDS	SHATE L.	ST. PIUS X HS	PRIVATE
HARDY	TARSHA	WOODLAND ACRES MS	GALENA PARK	HINDS	JASON A.	ST. VINCENT DE PAUL	PRIVATE
MARTINEZ	JOAQUIN	AUSTIN HS	HOUSTON	KELM	CHRISTOPHER	SPRING BRANCH MS	SPRING BRANCH
M- WILLIAMS	KIMBERLY J.	AUSTIN HS	HOUSTON	CHANG	CHRISTOPHER	STAFFORD HS	SPRING BRANCH

## **Appendix E**

**Program Evaluations by Students in 1996 Houston PREP  
Program Evaluation by Dr. Carol Vobach  
Program Profile by Dr. Carol Vobach**



## 1996 FIRST YEAR PREP EVALUATION QUESTIONNAIRE

Your opinion about PREP is important to us. Please circle your teacher/program assistant name and the number which best expresses your rating. Feel free to make comments. Thanks for your help.

1 = Low/negative

3 = Medium/neutral

5 = High/positive

<b>LOGIC</b>	Who taught your class	Ms. Nadler	Mr. Rehman	Mr. Usen
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Was it useful/interesting?	1	2	3	4	5
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Were the books/handouts OK?	1	2	3	4	5
-----------------------------	---	---	---	---	---

How was the teacher?	1	2	3	4	5
----------------------	---	---	---	---	---

What is your overall rating?	1	2	3	4	5
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Comments? \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

<b>COMPUTER SCIENCE</b>	Please evaluate Computer Science taught by Ms. Crawford				
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Was it useful/interesting?	1	2	3	4	5
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Were the books/handouts OK?	1	2	3	4	5
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How was the teacher?	1	2	3	4	5
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What is your overall rating?	1	2	3	4	5
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Comments? \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

<b>ENGINEERING</b>	Please evaluate Engineering taught by Ms. Toliver				
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Was it useful/interesting?	1	2	3	4	5
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Were the books/handouts OK?	1	2	3	4	5
-----------------------------	---	---	---	---	---

How was the teacher?	1	2	3	4	5
----------------------	---	---	---	---	---

What is your overall rating?	1	2	3	4	5
------------------------------	---	---	---	---	---

Comments? \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

<b>PROBLEM-SOLVING</b>	Who taught your class	Ms. Nadler	Ms. Nakamura
------------------------	-----------------------	------------	--------------

Was it useful/interesting?	1	2	3	4	5
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Were the books/handouts OK?	1	2	3	4	5
-----------------------------	---	---	---	---	---

How was the teacher?	1	2	3	4	5
----------------------	---	---	---	---	---

What is your overall rating?	1	2	3	4	5
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Comments? \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

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**PROGRAM ASSISTANT.** Who was your program assistant?

	Clinton	Jerome	Rebecca	Veronica	
Did s/he help in class?	1	2	3	4	5
Did s/he help outside class?	1	2	3	4	5
What is your overall rating?	1	2	3	4	5

Comments? \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

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**OTHER** Please evaluate other aspects of the program.

Computer labs?	1	2	3	4	5
Student activity period?	1	2	3	4	5
Engineering experiments?	1	2	3	4	5
Speakers?	1	2	3	4	5
Trips?	1	2	3	4	5
Food?	1	2	3	4	5

Comments? \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

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**LAST QUESTIONS.** Would you recommend a friend to take PREP? \_\_\_\_\_

What did your parents/guardians think about PREP? \_\_\_\_\_

Do you think that participation in PREP will help you in college or career? \_\_\_\_\_ How? \_\_\_\_\_

What are your plans for the future? \_\_\_\_\_

What did you like most about PREP? \_\_\_\_\_

What did you dislike most about PREP? \_\_\_\_\_

Do you plan to return to PREP next year? \_\_\_\_\_

## 1996 SECOND YEAR PREP EVALUATION QUESTIONNAIRE

Your opinion about PREP is important to us. Please circle your teacher/program assistant name and the number which best expresses your rating. Feel free to make comments. Thanks for your help.

1 = Low/negative

3 = Medium/neutral

5 = High/positive

---

### ALGEBRAIC STRUCTURES Please evaluate Algebraic Structures taught by Ms. Nakamura

Was it useful/interesting? 1 2 3 4 5

Were the books/handouts OK? 1 2 3 4 5

How was the teacher? 1 2 3 4 5

What is your overall rating? 1 2 3 4 5

Comments? -----  
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### PHYSICS Please evaluate Physics taught by Mr. Rehman.

Was it useful/interesting? 1 2 3 4 5

Were the books/handouts OK? 1 2 3 4 5

How was the teacher? 1 2 3 4 5

What is your overall rating? 1 2 3 4 5

Comments? -----  
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### ENGINEERING Please evaluate Engineering taught by Mr. Usen

Was it useful/interesting? 1 2 3 4 5

Were the books/handouts OK? 1 2 3 4 5

How was the teacher? 1 2 3 4 5

What is your overall rating? 1 2 3 4 5

Comments? -----  
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### PROBLEM-SOLVING Please evaluate Problem-Solving taught by Mr. Lienhard

Was it useful/interesting? 1 2 3 4 5

Were the books/handouts OK? 1 2 3 4 5

How was the teacher? 1 2 3 4 5

What is your overall rating? 1 2 3 4 5

Comments? -----  
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<b>PROGRAM ASSISTANT.</b>		Who was your Program assistant?				
		Jesus		Randy		
Did he help in class?		1	2	3	4	5
Did he help outside class?		1	2	3	4	5
What is your overall rating?		1	2	3	4	5

Comments? \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

<b>OTHER</b>	Please evaluate other aspects of the program.				
Engineering experiments?	1	2	3	4	5
Student activity period?	1	2	3	4	5
Speakers?	1	2	3	4	5
Trips?	1	2	3	4	5
Food?	1	2	3	4	5

Comments? \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**LAST QUESTIONS.** Would you recommend a friend to take PREP? \_\_\_\_\_

What did your parents/guardians think about the PREP program? \_\_\_\_\_

\_\_\_\_\_

Do you think that your participation in the PREP program will help you in college, your career or later on in your life? \_\_\_\_\_ How? \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

What are your plans for the future? \_\_\_\_\_

\_\_\_\_\_

What did you like most about PREP? \_\_\_\_\_

\_\_\_\_\_

What did you dislike most about PREP? \_\_\_\_\_

\_\_\_\_\_

Do you plan to return to PREP next year? \_\_\_\_\_

### 1996 THIRD YEAR PREP EVALUATION QUESTIONNAIRE

Your opinion about PREP is important to us. Please circle your teacher/program assistant name and the number which best expresses your rating. Feel free to make comments. Thanks for your help.

1 = Low/negative

3 = Medium/neutral

5 = High/positive

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#### PROBABILITY AND STATISTICS Please evaluate Prob/Stat taught by Dr. Smith

Was it useful/interesting?	1	2	3	4	5
Were the books/handouts OK?	1	2	3	4	5
How was the teacher?	1	2	3	4	5
What is your overall rating?	1	2	3	4	5

Comments? -----  
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#### PROBLEM-SOLVING Please evaluate Problem-solving taught by Mr. Lienhard

Was it useful/interesting?	1	2	3	4	5
Were the books/handouts OK?	1	2	3	4	5
How was the teacher?	1	2	3	4	5
What is your overall rating?	1	2	3	4	5

Comments? -----  
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#### SAT/TECHNICAL WRITING Please evaluate Technical Writing/SAT taught by Ms. Payne.

Was it useful/interesting?	1	2	3	4	5
Were the books/handouts OK?	1	2	3	4	5
How was the teacher?	1	2	3	4	5
What is your overall rating?	1	2	3	4	5

Comments? -----  
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#### SAT/PLATO Please evaluate SAT/PLATO taught by Ms. Nadler

Was it useful/interesting?	1	2	3	4	5
Were the books/handouts OK?	1	2	3	4	5
How was the teacher?	1	2	3	4	5
What is your overall rating?	1	2	3	4	5

Comments? -----  
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**PROGRAM ASSISTANT.** Who was your program assistant?

	Juan	Obinna			
Did he help in class?	1	2	3	4	5
Did he help outside class?	1	2	3	4	5
What is your overall rating?	1	2	3	4	5

Comments? \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

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**OTHER** Please evaluate other aspects of the program.

Student activity period?	1	2	3	4	5
Speakers?	1	2	3	4	5
Trips?	1	2	3	4	5
Food?	1	2	3	4	5

Comments? \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**LAST QUESTIONS.** Would you recommend a friend to take PREP? \_\_\_\_\_

What did your parents/guardians think about the PREP program? \_\_\_\_\_

\_\_\_\_\_

Do you think that your participation in the PREP program will help you in college, your career or later on in your life? \_\_\_\_\_ How? \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

What are your plans for the future? \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

What did you like most about PREP? \_\_\_\_\_

\_\_\_\_\_

What did you dislike most about PREP? \_\_\_\_\_

\_\_\_\_\_

## 1996 Houston Prep Selected Evaluation Measures: Grade, gender and locale breakdown for Hispanic-American (HA), African-American (AA) and Native-American (NA) Students

### 1. Retention and completion of each year

#### a) First year students in 1996

<u># students beginning program</u>	<u># students completing program</u>	<u>% completing</u>
Total = 100	Total = 84	Total = 84 %
HA = 33	HA = 24	HA = 76 %
AA = 54	AA = 45	AA = 83 %
NA = 2	NA = 2	NA = 100 %

For the first year students, there is little difference in retention rates for minority students and the overall population. All retention is over 75%.

#### b) Second year students in 1996

<u># students beginning program</u>	<u># students completing program</u>	<u>% completing</u>
Total = 52	Total = 43	Total = 83 %
HA = 17	HA = 12	HA = 71 %
AA = 33	AA = 28	AA = 85 %
NA = 0	NA = 0	NA = —

For the second year students, there above average retention for African-American students. All retention is at 70% or above. Compared to 1995, there was a 39% drop in second year students beginning the program. This was due to decreased funding, among other reasons.

#### c) Third year students in 1996

<u># students beginning program</u>	<u># students completing program</u>	<u>% completing</u>
Total = 46	Total = 43	Total = 93 %
HA = 12	HA = 11	HA = 92 %
AA = 22	AA = 20	AA = 91 %
NA = 0	NA = 0	NA = —

For third year students, there is a very high retention rate exceeding 90% for all groups. This is the first year that two third-year classes have been offered.

**RETENTION IN SUMMER 1996:** Overall retention across the program is at 86%, with 77% for Hispanic-American students, 85% for African-American students and 100% for Native-American students. As students reach the third year, retention is excellent for all groups.

2. 1996 Grade averages for students by year

a) First year	b) Second year	c) Third year
Overall = 85.29	Overall = 82.46	Overall = 81.94
HA = 85.42	HA = 82.00	HA = 82.00
AA = 84.41	AA = 81.59	AA = 79.94
NA = 80.5	NA = ----	NA = ----

In the all three years, there does not seem to be a significant difference in grade average for the minority students and the overall population. Average scores were quite good for all three years. First year averages were highest and became progressively lower upon reaching the more demanding second and third years. There were more third-year students than ever before (59% above last year), but their average was considerably lower than last year's 86.75.

**GRADE AVERAGES:** Averages are over 80 for all years, with minority students comparing favorably.

3. Return of students through second and third years

a) Return of second year students in 1996

# First yr students completing 1995	# Second yr students completing 1996	% retained
Total = 105	Total = 43	Total = 41 %
HA = 36	HA = 12	HA = 33 %
AA = 59	AA = 28	AA = 47 %
NA = 1	NA = 0	NA = 0.00%

There was considerably lower return of 1995 first year students, both for the overall population and minority groups. Last year's freshman return rate was over 60% for all groups, compared to this year's return rates ranging from 33% to 47%.

b) Return of third year students in 1996

# Second yr students completing 1995	# Third yr students completing 1996	% retained
Total = 70	Total = 43	Total = 61 %
HA = 21	HA = 11	HA = 52 %
AA = 38	AA = 20	AA = 53 %
NA = 0	NA = 0	NA = 0.00%

There was a slight drop in return rate of 1995 second year students for the overall population and a large drop for minority groups (71% vs 52% for HA students and 67% vs 52% for AA students).

**RETENTION OF SECOND AND THIRD YEAR STUDENTS:** Overall retention rates of 41% for freshmen and 61% for sophomores are lower than last year's rates of 66% and 64%, respectively. In particular, return rates for minority students have dropped significantly.

4. Retention of 1996 students after midterm logic exam

*Logic is taken by all first year students. Retention rates are 84% for the overall population, with minorities as follows: 76% for HA, 83% for AA, 100% for NA. See section 1a.*

5. General retention 1995 to 1996.

Total number of students completing 1995 PREP were 198.

Total number of students completing 1996 PREP were 170.

*There was a considerable drop in funding for 1996, so that the number of students beginning the program dropped by 15% from 233 to 198. Hence, it is reasonable to expect a decrease in students completing the program.*

6. Breakdown of 1996 PREP students by grade

<u>Grade completed</u>	<u># students</u>
Grade 7	34
Grade 8	66
Grade 9	46
Grade 10	22
Grade 11	2

*PREP appeals mostly to students who have completed the eighth grade (39%), with 20% completing seventh grade, 27% completing ninth grade, 13% completing tenth grade and only 1% completing eleventh grade. The program concentrates (86%) on middle-schoolers and ninth-graders.*

7. Breakdown of 1996 PREP students by locale, for students completing the program

Total # = 170

# from inner city = 80 (Houston Independent School District) 47 %

# from city but not inner city = 29 (Aldine, North Forest School Districts) 17 %

# suburban = 61 (all others) 36 %

# rural = 0 0%

*About two-thirds of PREP students are from city districts (64%) and one-third from suburban districts (36%).*

8. Breakdown of 1996 PREP students by gender and ethnicity, for students completing program

<u># Male</u>	<u># Female</u>	<u>#</u>
Total = 53	Total = 117	Total = 170
HA = 20	HA = 28	HA = 48
AA = 21	AA = 72	AA = 93
NA = 1	NA = 1	NA = 2
Asian = 7	Asian = 14	Asian = 21
Caucasian = 4	Caucasian = 2	Caucasian = 6

*Females constitute 69% of the 1995 PREP students, with males at 31%. Of all students, 55% are African-American, 28% are Hispanic-American and 1% are Native-American, for a total minority enrollment of about 84% for students completing the program.*

This report of selected evaluation measures has been compiled by evaluator Dr. Carol Vobach and 1996 Houston PREP coordinator Ms. Sangeeta Gad. Questions may be directed to:

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# Profile for 1996 Houston PREP Program

Institution: University of Houston/ Downtown

Evaluator: Dr. Carol Vobach ☎ phone 713 + 221-8968 e-mail cvobach@uh.edu

This model was modified from a DOE template for profiling PREP programs. Each component has a general description, along with intended outcomes as well as actual outcomes. The evaluator was in close contact with the site director over the course of the eight-week program. The areas addressed are those of particular interest for Houston PREP: program design, student selection, parent participation, faculty selection, preparation, nature of program activities, follow-up, program administration and program evaluation.

## 1. PROGRAM DESIGN

a) Goals are clear and understood.

Intended: PREP is an enrichment/support summer program aimed at minority students in the Houston area, with particular attention to math and science.

Actual: Director, faculty, tutors understand these goals. Students consider the program "fun", "better than regular school".

b) Teachers and administrators are involved in the program design and implementation.

Intended: Most curriculum is centrally designed through Texas PREP; projects, excursions, hands-on technology and talks are arranged by director and teachers. Application has been made to the Texas Education Agency for one-half elective credit for students completing each summer of the PREP program.

Actual : same

c) The environment is safe and supportive.

Intended: Each program assistant spends the entire day (8:30 to 2:15) with his/her class of 20 - 25 students.

Actual : same

d) Program interacts with local school districts.

Intended: PREP involves local districts with heavy minority enrollment, urban and suburban.

Actual: Houston and Aldine both have over 80% minority enrollment. Twelve local school districts participate in Houston PREP. Next year, several districts will supply teachers for the program. One district supplied the facility and local transportation for the closing ceremony.

## 2. STUDENT SELECTION

a) Clear criteria related to goals are established and used.

Intended: B average, student letters, teacher recommendation are considered.

Actual: C students with high interest, teacher and parent support are also accepted.

b) Criteria for selection include teacher support before and after program.

Intended: Teacher support after the summer, as well as before, is ideal.

Actual: A federally-sponsored program for teacher enrichment from summer 1993 through summer 1995 has given this site a rich cadre of contacts in the local Houston Independent School District, for recommending students to PREP.

c) Recruitment targets groups at-risk and underrepresented in math and science.

Intended: 80% of first year students completing the program are at-risk/underrepresented.

Actual: For students completing the first year, 54% are African-American, 30% are Hispanic-American and 2% are Native-American, for a 1996 first-year minority completion rate of 86%.

For all students completing the 1996 program, 55% are African-American, 28% are Hispanic-American and 1% are Native-American, for a 1996 minority completion rate of 84%. In 1996, 338 students applied and 198 were accepted (due to space limitations in a one-building university and reduction in funding). Of these 198 students, 170 completed the PREP program.

## 3. PARENT PARTICIPATION

Intended: Parents/family attend pre-summer open house, arrange student transportation to site, attend closing ceremony.

Actual: The director anticipated an attendance of 300 students and family members at the open house; 350 were present. The closing ceremony was held at a local school district facility to accommodate the 400 in attendance.

## 4. FACULTY SELECTION

Intended: High school, college and university faculty are selected for their knowledge and ability to relate to young students, particularly those at-risk and underrepresented in math and science.

Actual: There were ten faculty members, including two African-American role models. Seven were from community college and university faculty, three were middle/high school faculty. All are knowledgeable and enthusiastic; they have high expectations of the students. Faculty generally interact well with students and are respected for their abilities.

## 5. PROGRAM ASSISTANT SELECTION

Intended: Program assistants (PAs) are college students, typically UH/Downtown math and computer science majors, with nurturing traits in caring for young people and the ability to help them with technical problems. Select one PA per class of 25 students.

Actual: All eight PAs (six males, two females) are minority role models (two Hispanic-American, six African-American). Students feel that PAs are patient and particularly helpful in their explanations with classwork. Students relate to PAs for emotional support and guidance.

## 6. PREPARATION

a) Students are oriented to their role and the nature of their experience.

Intended: Students receive orientation and tour facilities on the first day, with PA help.

Actual: same

b) Contacts between program administrators, teachers, faculty, tutors, students and parents establish mutual expectations.

Intended: Administrators carefully design materials for student mail-outs. Faculty are given appropriate curricular guidelines and materials from Texas PREP. PAs are directed by a coordinator.

Actual: same. The pre-summer open house for general information was most successful for both parents and students.

c) Students receive background materials in advance.

Intended: Students read these materials.

Actual: same, probably

d) Program establishes relationship with students' teacher and school district for recruitment, reinforcement.

Intended: Program administrators call/visit schools and school districts, acquire and maintain contact with teachers who recommend students. Teacher reinforcement program desirable.

Actual: Contacts have been established for a selection of schools from twelve local districts.

## 7. NATURE OF PROGRAM ACTIVITIES

a) Activities enhance the students' current math and science curriculum and are appropriate for student' developmental levels.

Intended: Activities support math and science, with greater depth over developmental levels.

Students are encouraged to pursue college and careers in math, science and engineering.

Actual: First year students have computer science, logic, engineering, problem-solving; second year students have algebraic structures, physics, engineering and problem-solving; third year students have probability and statistics, technical writing, SAT preparation, problem-solving.

b) Involve students in doing science and using technology.

Intended: Students use discovery method, have hands-on use of computers and calculators, participate in projects (construct a bridge, roller coaster), gather data and describe results.

Actual: same. Sometimes, "discovery" classes become rather noisy. All students use high-quality computing facilities for classes in computer science and problem-solving.

c) Activities emphasize understanding rather than memorisation.

Intended: Many classes use the discovery method; students are free to question teachers.

Actual: same

d) Activities are challenging and fun.

Intended: Classes and speakers such as university faculty, college admissions officers and scientists in local industry should provide challenges. Field trips to NASA, Moody Gardens and the University of Texas Health Science Center, as well as lunch and occasional volley ball/ping-pong/ badminton games should provide time to network and socialize.

Actual: There is socializing in all activities. Students think it's fun. Some classes are liked better than others. Logic and problem-solving are deemed to be difficult at first. SAT preparation is very important to students. Technical writing is demanding, but students feel it is especially useful. Hands-on projects in engineering and use of calculators/computers are popular.

e) Students work as a team and have definable end products.

Intended: There are both group and individual projects, worked on during a daily "research" period. Presentations are given and a final competition for the fastest roller coaster and the most sturdy bridge.

Actual: same

f) Students are assigned to mentors(PAs) who provide guidance and support.

Intended: One PA per class of 20 - 25 students stays with students from arrival to departure.

Actual: PAs are all-important in this program. They are well-regarded by the students.

Mentors meet regularly with coordinator to discuss daily successes and problems. Students never want to be moved to another group/ different PA.

g) Students are exposed to a variety of careers.

Intended: Speakers from academia and industry discuss college and career possibilities.

Actual: same

h) Activities include a component for building self-confidence.

Intended: Projects and presentations build self-confidence. Socializing with a PA role-model develops expectations for success in college for underrepresented groups.

Actual: same. Students also comment on feeling confident with new people from other schools/social groups.

i) Students' work is assessed.

Intended: Students receive grades which are sent to home schools at student request only.

Actual: same

## 8. FOLLOW-UP

a) Communications between students and university continue.

Intended: Follow-up surveys are mailed during the school year. Eleventh and twelfth grade students are invited to participate in the Computer Science Saturday Academy, a year-round enrichment program offering college credit for precalculus and the first computer science course.

Actual: Survey response will be seen during the coming year. There were 198 students in the 1995 PREP program and the 1996 Computer Science Academy program had 30 students.

b) Students receive recognition from the program.

Intended: A closing day ceremony provides awards for outstanding performance.

Actual: All students receive a T-shirt or other prize for scholarship, grades, participation, etc. Graduates receive a scholarship if they attend UH/Downtown. The closing ceremony was attended by participants, parents and family members with over 400 present.

## 9. PROGRAM ADMINISTRATION

a) The program is clearly assigned as the responsibility of one or more persons.

Intended: Administrators arrange all logistics.

Actual: The director makes official contacts with the Houston, Aldine, Galena Park and other school districts and pursues funding from industry (Chevron, Mobil) and government (DOE, NASA, National Science Foundation, State of Texas Coordinating Board of Higher Education, Eisenhower Foundation). An outreach coordinator at UH/Downtown makes direct contact with individual schools and teachers soliciting recommendations. The coordinator contacts students and parents and makes all arrangements for faculty, tutors, speakers, trips, testing and report-writing.

b) The program administrators report regularly to DOE.

Intended: The director maintains regular contact with DOE, with presentations as required.

Actual: same

c) The program maintains a database of applicant and participant information.

Intended: The coordinator has time allotted during the school year for organizing such information. A secretary is specifically provided for this program.

Actual: The coordinator has a one-course release time in Spring. The secretary works 20 hours weekly in Fall, 20 hours weekly in Spring and 35 hours weekly in Summer.

## 10. EVALUATION

a) Monitoring occurs during the program.

Intended: The coordinator meets with PAs for day-to-day reports. Problems are resolved as soon as possible.

Actual: Daily meetings occur, both within the program and with other administrators at UH-D.

b) Students and mentors have opportunities to provide feedback during and after the experience.

Intended: PAs meet with the coordinator often. Students perform anonymous evaluation of each class, each teacher, each PA and other aspects of the program(trips, speakers, lunch, etc.).

Actual: Students evaluate the program through formal written instruments. Both teachers and PAs receive the questionnaires/comments pertaining to them.

c) Pre- and post-program assessments gather information about impact on students.

Intended: Pre-and post-testing is done for actual content skills.

Actual: The Wimberly Analytic Skills Test (WASI) for problem-solving and a pre- and post-test in logic and in probability and statistics measure changes in content skills and understanding.

Average scores for first-year students on the WASI were: 13 out of 38 on the pre-test and 23 on the post-test. Average scores in logic were: 35 out of 100 on the pre-test and 71 on the post-test. Average scores in probability and statistics improved by 19% over the summer session.

d) Administrators use evaluation results to make changes.

Intended: Content testing allows for reorganization of curriculum. Anonymous student evaluation allows for greater sensitivity and further support.

Actual: The curriculum in computer science has been reorganized to include a graphing calculator component. The SAT preparation class for third year students has been further enhanced with professional materials. As a result of having PREP in a one-building university with summer school classes, all PREP classes for 1996 took place on the one floor for easy monitoring of students. Lunches were staggered to accomodate university students.

## Appendix F

**Closing Day Ceremonies  
1996 Sample Certificate of Award  
Newspaper Publications—Removed—(C)**

*(Because of  
copyrights)*

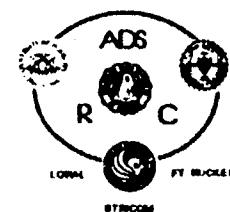
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## CLOSING DAY CEREMONIES

### UH-Downtown Houston PREP 1996



### CENTER FOR COMPUTATIONAL SCIENCE AND ADVANCED DISTRIBUTED SIMULATION

a unit of the  
Advanced Distributive Simulation Research Consortium  
of the U.S. Army Research Office

Department of Computer and Mathematical Sciences  
One Main Street  
Houston, Texas 77002

Thursday, August 1, 1996  
at nine - thirty in the morning  
Galena Park High School Auditorium  
1601 11th St.  
Galena Park, TX  
(713) 679-6000



## PROGRAM



*Welcome and Opening Remarks*  
**Mrs. Sangeeta Gad, Program Coordinator**  
Houston PREP 1996

*Recognition of Sponsors*  
*Recognition of Faculty and Staff*  
**Dr. Richard A. Aló, Director, Houston PREP**  
Chair, Department of Computer & Mathematical  
Sciences, University of Houston-Downtown

*Keynote Speaker*  
**Mr. Gerard Torres**  
State Representative - District 143

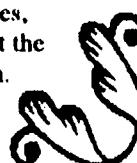
*Recognition of Successful PREP Scholars*  
*Presentation of Diplomas*  
**Dr. Richard A. Aló**

*Presentation of Awards*  
Tutors and Instructors

*Closing Remarks*  
**Mrs. Sangeeta Gad**

*Refreshments*

On behalf of the Department of Computer and Mathematical Sciences, the University of Houston-Downtown, and the university community, appreciation is extended to parents and relatives, students, faculty and staff, and friends for their attendance at the Closing Ceremonies of the 1996 Houston PREP Program.



## PERSONNEL HOUSTON PREP PROGRAM 1996

### UNIVERSITY OF HOUSTON-DOWNTOWN

#### **PROGRAM DIRECTOR**

Dr. Richard A. Aló  
Professor and Chair  
Computer & Mathematical  
Sciences

#### **PROGRAM ASSISTANTS**

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Mr. Jerone D. Edwards  
Mr. Juan J. Gonzalez  
Mr. Obinna C. Ilochonwu  
Ms. Maria Rebecca Mata  
Ms. Veronica Patino  
Mr. Randy K. Robinson  
Mr. Clinton Rodgers

#### **PROGRAM COORDINATOR**

Ms. Sangeeta Gad

#### **PROGRAM ASSOCIATES**

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Dr. George Hampton  
Mr. Douglas Tharp  
Dr. Carol Vobach

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Ms. Melinda Payne  
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Dr. Marion Smith  
Ms. Debra Hill-Toliver  
Mr. Emmanuel Usen



University of Houston-Downtown

Houston PREP

Department of Computer and Mathematical Sciences

# CERTIFICATE OF AWARD

presented to

*Recipient's Name*

for performing well and being one of our most  
outstanding first year students in the  
1996 Houston PREP Program

on this the first day of August, 1996, A.D.

\_\_\_\_\_  
Program Assistant's Name  
Program Assistant, 1996 Houston PREP

\_\_\_\_\_  
Dr. Richard A. Al6,  
Program Director, 1996 Houston PREP