

2020 TexPREP I

Information Brochure

THE TEXAS PREFRESHMAN ENGINEERING PROGRAM CONDUCTED by THE UNIVERSITY OF TEXAS RIO GRANDE VALLEY

In Collaboration with the
College of Science and Engineering
and the
Office of Student Educational Outreach

June 8, 2020 - July 22, 2020

APPLICATION DEADLINE: January 31, 2020

The University of Texas Rio Grande Valley (UTRGV), in cooperation with the College of Engineering and Computer Science, is one of several institutions in Texas offering the Texas Prefreshman Engineering Program, which provides educational enrichment opportunities for high ability 6th grade through 11th grade students interested in pursuing mathematics, science, or engineering careers.

Target students for TexPREP include female and other students who have been traditionally underrepresented in the sciences, mathematics, and engineering professions. All qualified and interested students are urged to apply. In selecting individuals for participation and otherwise in the administration of this project, The University of Texas Rio Grande Valley will not discriminate on the grounds of race, creed, color, age, handicap, or national origin of any applicant.

Approximately 120 first year students from 6th through 8th grade in the Lower Valley (Rio Grande Valley) will be selected to participate in a seven (7)-week summer program, and six (6) follow-up meetings during the school year at UTRGV Brownsville Campus.

ACADEMIC PROGRAMS

1. **Logic**- Statements, compound statements, truth tables, and rules of inference, quantifiers, paradoxes, and elementary set theory, Boolean algebra.
2. **Topics in Problem Solving**- Problems assigned in the above courses; mathematical formulation of word problems; selected problems in subject areas of number pre-algebra, geometry, trigonometry, physics, and engineering; practice SAT examinations.
3. **Introduction to Engineering**- Historical perspective, service to society, professional responsibilities, development of good study habits, spoken and written communication, technical calculations, use of electronic hand calculators, statistics and graphical analysis, the metric system, basic laws governing the behavior of physical systems and their applications to mechanical and electrical systems.
4. **Career Opportunities Awareness**- Invited speakers from local and state high technology industries will discuss current and future professional engineering scientific opportunities, their own work, and a biography of the professional development. Career counseling and such topics as resume preparation, college preparatory expectations, college financial aid.

SCHEDULE AND ACADEMIC STANDARDS

All program participants will be expected to spend the hours between 1:00 p.m. and 5:50 p.m., Monday through Friday, engaged in class work, seminars, or research work from June 8, 2020 to July 22, 2020, and six-monthly follow-up meetings during the school year.

Homework assignments and examinations will be given in all classes. All participants are expected to do the work required to maintain a C (75) average in the TexPREP Programs. Students who fail to maintain a 75 or better average in Logic or Algebraic Structures will be subject to dismissal from the program. There are special activities to support students not meeting these standards.

Absences from the program or other acts of misconduct will result in **immediate dismissal from the program**. Students with **more than two absences**, including excused and unexcused, will be asked to resign from the program. **Absences can be, but are not limited to cheerleading, football, band practice, or vacations.**

ACADEMIC CREDIT

The Texas Education Agency has approved up to one innovative Career and Technical Educational (CTE) state elective credit to participating students who successfully complete the summer program. The TexPREP courses are not substitutes for any courses in the junior high school or senior high school program. For additional information concerning credit, a program applicant should consult his/her counselor.

PROGRAM COST

All participants in UTRGV TexPREP during Summer 2020 must be funded through a combination of funds UTRGV receives from the State of Texas and funding either provided by students' respective school districts or by the students themselves. For Summer 2020, the cost that must be covered either by the school district or by the student is \$425 per student. Interagency contracts will be sent after March 1st to the offices of Superintendents from whose school districts TexPREP student applications have been received. These contracts must be signed for UTRGV to be able to invoice school districts that agree to cover the \$425 cost per student. Note that applicants from school districts that do not enter into an Interagency Contract with UTRGV for TexPREP services will be invoiced directly for the \$425 and will not be able to attend the program if payment is not arranged. For any further questions concerning costs, please contact your school counselor, or call, UTRGV TexPREP Program at (956) 882-5775.

STAFF

1. Dr. Stephen Crown; TexPREP Director
2. Anna Ramos; TexPREP Program Specialist
3. Nalleli Salinas, Program Coordinator
4. Teachers from various Valley high schools
5. Professors from the University of Texas Rio Grande Valley
6. Undergraduate college students with majors in engineering, science, or math

FACILITIES

All program activities and classroom sessions will be held in classrooms on the UTRGV campus. Program Staff will be available for supervised research and individual consultations.

TRANSPORTATION

Each student is expected to provide transportation between his/her home and UTRGV. Some districts provide transportation. Contact your district transportation department for verification.

REQUIREMENTS FOR ELIGIBILITY

1. All program applicants must be current full-time sixth, seventh or eighth grade students.
2. One nomination form from his/her mathematics teacher
3. One nomination form from either science teacher or counselor.
4. All applicants must have a B or better from their first semester final average in their mathematics courses during their current school year.
5. All applicants must have a cumulative B or better from their first semester final academic course averages during their current school year.
6. Students must score a 70 or better on the Math Placement Exam provided by TexPREP in order to be considered an eligible applicant.
7. Each applicant must submit *a copy of grade reports for the current academic year.*
8. Each applicant must submit a short essay between 100 and 200 words, which presents the reasons for wanting to participate in the TexPREP program.

MANDATORY MATH PLACEMENT EXAM

Every applicant must take the Math placement exam. Students will have two hours to complete the exam. Students should arrive 30 minutes before the exam to sign-in and bring a pencil. Only students who have submitted a completed application will be allowed to take the Math Placement Test. **FAILURE TO ATTEND THE PLACEMENT EXAM** will be ground for rejection of the application. If you cannot attend any of the dates indicated, please contact the office and make arrangements to test. Students can take the test as soon as a completed application has been submitted to the TexPREP office. **THERE WILL BE NO TESTING AFTER FEBRUARY 29, 2020.**

STUDENTS / PARENTS:

It is your responsibility to be aware of the important deadlines in which you must submit your paperwork and attend the Math Placement Test date.

Please submit the entire application as one packet. An incomplete application will not be considered for selection to the program.

SUBMIT APPLICATION TO:

TexPREP Office
The University of Rio Grande Valley
ELCTR 164
1201 W. University Drive
Edinburg, TX 78539-2999
Telephone:(956) 665-3794

TEXAS PREFRESHMAN ENGINEERING PROGRAM (TexPREP)

June 8, 2020 – July 22, 2020

TexPREP I APPLICATION

DEADLINE: MUST BE SUBMITTED ON OR BEFORE: January 31, 2020.

PART 1 – ONLY 6th, 7TH or 8th GRADERS MAY COMPLETE THE APPLICATION – ALL QUESTIONS MUST BE ANSWERED. PLEASE PRINT IN BLACK OR BLUE INK.

NAME: _____
LAST FIRST M.I.

SCHOOL ID# _____ GENDER: _____ FEMALE _____ MALE _____ PREFER NOT TO ANSWER

ADDRESS: _____
Where you receive your mail APT. #

CITY: _____ ZIP CODE: _____

PHONE: _____ - _____ - _____ DATE OF BIRTH: _____ - _____ - _____

ETHNICITY: ___ NATIVE AMERICAN ___ ANGLO ___ AFRICAN AMERICAN ___ HISPANIC ___ ASIAN ___ OTHER

CURRENT GRADE LEVEL: _____ 6th _____ 7th _____ 8th FIRST GENERATION STUDENT: _____ YES _____ NO

2019-2020 NAME OF SCHOOL ATTENDING: _____

SCHOOL DISTRICT (PLEASE CHECK ONE): ___ Brownsville ISD ___ Los Fresnos ISD ___ OTHER: _____

PART 2 - TO BE COMPLETED BY PARENT OR GUARDIAN

FATHER'S NAME: _____ CELL PHONE: _____

MOTHER'S NAME: _____ CELL PHONE: _____

IN CASE OF EMERGENCY AND WE CAN NOT REACH THE PARENT(S)

NAME: _____ RELATIONSHIP _____ PHONE: _____

PART 3 - PARENT/GUARDIAN CONSENT

THE TUITION OF \$425 WILL BE PAID BY? (CHECK ONE) ___ SCHOOL ___ PARENT

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 SEVEN WEEKS. IT IS MY UNDERSTANDING THAT HE/SHE WILL BE SUBJECT TO THE REGULATIONS OF THE PREP SITE WHICH HE/SHE WILL ATTEND.

PARENT'S SIGNATURE: _____ DATE: _____

APPLICANT'S SIGNATURE: _____ DATE: _____

PART 5: CHECK ONE: MATH PLACEMENT TEST DATE YOU WILL ATTEND

- A. _____ FEBRUARY 22, 2020 (SATURDAY, 9:00AM TO 11:00AM) Room: BMAIN 1.502
B. _____ FEBRUARY 22, 2020 (SATURDAY, 1:00PM TO 3:00PM) Room: BMAIN 1.502
C. _____ FEBRUARY 29, 2020 (SATURDAY, 9:00AM TO 11:00AM) Room: BMAIN 1.502
D. _____ FEBRUARY 29, 2020 (SATURDAY, 1:00PM TO 3:00PM) Room: BMAIN 1.502

STUDENTS MUST BRING 2 SHARPENED PENCILS

***THERE WILL BE NO TESTING AFTER FEBRUARY 29, 2020. IT IS THE RESPONSIBILITY OF THE STUDENT TO INFORM THE TEXPREP OFFICE IF THE ABOVE DATES COINCIDE WITH UIL COMPETITIONS, MAKE ADDITIONAL ARRANGEMENTS, AND BE AWARE OF THE TESTING DATES. OUR OFFICE WILL NOT BE NOTIFYING YOU OF THE TEST DAY YOU SELECTED. IT IS YOUR RESPONSIBILITY TO COME ON THE DAY YOU SELECTED.**

PART 6: TO BE COMPLETED BY COUNSELOR

- A. NAME OF TEXPREP COUNSELOR: _____
B. COUNSELOR'S TELEPHONE NUMBER: _____
C. NAME OF SCHOOL: _____
D. MAILING ADDRESS OF SCHOOL: _____
E. E-MAIL ADDRESS: _____

ATTENTION PARENTS AND STUDENTS:

- **It is your responsibility to be aware of the important deadlines in which you must submit your paperwork and attend the Math Placement Test Date.**
- **Please Submit the entire application as one packet. An incomplete application will not be considered for selection to the program.**

MAIL THE ENTIRE APPLICATION PACKET TO:

**TexPREP Office
The University of Rio Grande Valley
LEAC
1201 W. University Drive
Edinburg, TX 78539
956-665-3794**

TEXAS PREFRESHMAN ENGINEERING PROGRAM (TexPREP)
 June 8, 2020 to July 22, 2020
MATHEMATICS TEACHER NOMINATION FORM
DEADLINE: MUST BE SUBMITTED ON OR BEFORE JANUARY 31, 2020.

DIRECTIONS: TO BE COMPLETED BY MATHEMATICS TEACHER. All parts of the Application must be completed, or the application will not be considered. Incomplete or late applications will not be processed. Please type or print clearly.

APPLICANT'S NAME: _____

SCHOOL NAME: _____ CURRENT GRADE LEVEL: _____

YOUR EVALUATION OF THE STUDENT'S DESIRE TO WORK HARD AND TO LEARN DURING THIS SEVEN-WEEK PROGRAM IS ESPECIALLY IMPORTANT. WITHOUT THIS NOMINATION FORM, A STUDENT'S APPLICATION WILL BE CONSIDERED INCOMPLETE. PLEASE COMPLETE THE EVALUATION BELOW AS HONESTLY AS POSSIBLE. YOUR ASSISTANCE IS GREATLY APPRECIATED.

A. PLACE AN "X" IN THE APPROPRIATE COLUMN FOR EACH CHARACTERISTIC LISTED.

CHARACTERISTIC	EXCELLENT	GOOD	FAIR	POOR
ACADEMIC PERFORMANCE				
CONDUCT IN CLASS				
WILLINGLY PARTICIPATES IN CLASS				
RESPECTS OTHERS AND THEIR PROPERTY				
ABILITY TO FOLLOW INSTRUCTIONS				
COMPLETES ASSIGNED WORK ON TIME				
ANALYTICAL THINKING SKILLS				
MATURITY				
PUNCTUALITY				
EAGER TO LEARN NEW THINGS				
STUDENT IS SUFFICIENTLY MOTIVATED TO COMPLETE A 7-WEEK SUMMER PROGRAM				

B. INDICATE CURRENT MATH COURSE (S) YOU ARE TEACHING THE APPLICANT: _____

C. PLEASE PROVIDE COMMENTS ON MOTIVATION, AMBITION, BEHAVIOR, PERSONALITY, ETC., WHICH YOU FEEL ARE PERTINENT TO THE STUDENT'S PERFORMANCE IN PREP. IF THE STUDENT FAILS TO SATISFY SOME ACADEMIC REQUIREMENT, PLEASE EXPLAIN IN DETAIL. ADDITIONAL COMMENTS MAY BE WRITTEN ON THE BACK.

 PRINTED NAME/TITLE

 TELEPHONE NUMBER

 TEACHER'S SIGNATURE

 DATE

TEXAS PREFRESHMAN ENGINEERING PROGRAM (TexPREP)
 June 8, 2020 to July 22, 2020
OTHER SCHOOL OFFICIAL NOMINATION FORM
DEADLINE: SUBMITTED ON OR BEFORE JANUARY 31, 2020.

DIRECTIONS: TO BE COMPLETED BY SCIENCE TEACHER OR COUNSELOR. All parts of the application must be completed or the application will not be considered incomplete. Incomplete and late applications will not be processed. Please type or print clearly.

APPLICANT NAME: _____

SCHOOL NAME: _____ CURRENT GRADE LEVEL: _____

YOUR EVALUATION OF THE STUDENT'S DESIRE TO WORK HARD AND TO LEARN DURING THIS SEVEN-WEEK PROGRAM IS ESPECIALLY IMPORTANT. WITHOUT THIS NOMINATION FORM, A STUDENT'S APPLICATION WILL BE CONSIDERED INCOMPLETE. PLEASE COMPLETE THE EVALUATION BELOW AS HONESTLY AS POSSIBLE. YOUR ASSISTANCE IS GREATLY APPRECIATED.

A. PLACE AN "X" IN THE APPROPRIATE COLUMN FOR EACH CHARACTERISTIC LISTED.

CHARACTERISTIC	EXCELLENT	GOOD	FAIR	POOR
ACADEMIC PERFORMANCE				
CONDUCT IN CLASS				
WILLINGLY PARTICIPATES IN CLASS				
RESPECTS OTHERS AND THEIR PROPERTY				
ABILITY TO FOLLOW INSTRUCTIONS				
COMPLETES ASSIGNED WORK ON TIME				
ANALYTICAL THINKING SKILLS				
MATURITY				
PUNCTUALITY				
EAGER TO LEARN NEW THINGS				
STUDENT IS SUFFICIENTLY MOTIVATED TO COMPLETE A 7-WEEK SUMMER PROGRAM				

B. INDICATE CURRENT COURSE (S) YOU ARE TEACHING THE APPLICANT: _____

C. PLEASE PROVIDE COMMENTS ON MOTIVATION, AMBITION, BEHAVIOR, PERSONALITY, ETC., WHICH YOU FEEL ARE PERTINENT TO THE STUDENT'S PERFORMANCE IN PREP. IF THE STUDENT FAILS TO SATISFY SOME ACADEMIC REQUIREMENT, PLEASE EXPLAIN IN DETAIL. ADDITIONAL COMMENTS MAY BE WRITTEN ON THE BACK.

 PRINTED NAME/TITLE

 TELEPHONE NUMBER

 TEACHER'S SIGNATURE

 DATE