

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 1, 2020 - July 15, 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 240 first year students from 6th through 8th grade in the Middle Valley (Rio Grande Valley) will be selected to participate a seven (6 1/2)-weeks summer program, and six (6) follow-up meetings for during the school year at UTRGV Edinburg 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 1, 2020 to July 15, 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 will attend tutoring instead of competition on Fridays.

Absences from the program or other acts of misconduct will result in immediate dismissal from the program. Students with more than two absences which include excuse and unexcuse 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 by students' respective school districts or by the students themselves. For Summer 2019, the cost that must be covered either by the school district or by the student is \$425 per student. Interagency contracts will be sent in February to the offices of Superintendents from whose school districts TexPREP student applications have been received. These contracts must be signed in order 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 665-3794.

STAFF

1. Dr. Stephen Crown; TexPREP Director
2. Cynthia Valdez; Associate VP for Student Educational Outreach
3. Anna Ramos; TexPREP Program Specialist Edinburg Site
4. Nalleli Salinas, Program Coordinator Brownsville Site
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. The following are the school districts that provided a bus at their own cost in the summer of 2019: Edinburg(only two middle schools), Edcouch-Elsa, La Feria, La Joya, Lasara, Lyford, McAllen, Mission, Monte Alto, PSJA, San Benito, San Perlita, Sharyland, Valley View, and Weslaco. Students are encouraged to contact their district transportation department to verify on transportation. The TexPREP program is not responsible if the district does not provide transportation.

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 15, 2020.**

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 1, 2020 – July 15, 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. NO PENCIL. THE CURRENT REPORT CARD MUST BE ATTACHED TO THE APPLICATION. NO EMAIL OR FAX APPLICATIONS WILL BE ACCEPTED.

NAME: _____
LAST FIRST M.I.

SCHOOL ID# _____ GENDER: _____ FEMALE _____ MALE

ADDRESS: _____
Where you receive your mail APT. #

CITY: _____ ZIP CODE: _____

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

ETHNICITY: _____ AMERICAN INDIAN _____ ANGLO _____ AFRICAN AMERICAN _____ HISPANIC _____ ASIAN _____ OTHER

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

2019-2020 NAME OF SCHOOL ATTENDING: _____

SCHOOL DISTRICT (Circle One): Donna, Edcouch-Elsa, Edinburg, Harlingen, IDEA, La Feria, La Joya, Lasara, Lyford, McAllen, Mission, Monte Alto, PSJA, San Benito, San Perlita, Sharyland, South Texas, Valley View, Weslaco, 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: _____

FOR THE MANDATORY PARENT/STUDENT ORIENTATION WOULD YOU PREFER TO ATTEND (check one for parents only)

PARENT ONLY: _____ SPANISH SPEAKING ONE _____ ENGLISH SPEAKING ONE (Student orientation will be in English)

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 EIGHT 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 4 - TO BE COMPLETED BY APPLICANT

WRITE A 100 TO 200 WORD ESSAY BELOW ON WHY YOU WANT TO ATTEND TexPREP. ALSO, BRIEFLY DESCRIBE ANY AWARDS OR HONORS RECEIVED FOR PARTICIPATION IN MATH AND SCIENCE ACTIVITIES.

B. HOW DID YOU FIRST HEAR ABOUT TexPREP? (PLEASE CHOOSE ONLY ONE RESPONSE).

()TEACHER ()PRINCIPAL ()COUNSELOR ()POSTER/FLYER

()FORMER PARTICIPANT ()SCHOOL PRESENTATION ()OTHER: _____

C. DO YOU HAVE A BROTHER OR SISTER CURRENTLY IN THE PROGRAM: YES _____ NO _____
IF YES, NAME OF THE STUDENT _____

D. HAVE YOU EVER HAD A BROTHER OR SISTER IN THE PROGRAM: YES _____ NO _____
IF YES, NAME OF THE STUDENT AND LAST YEAR ATTENDED: _____

PART 5: TO BE COMPLETED BY COUNSELOR

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

PART 6: CHECK ONE: MATH PLACEMENT TEST DATE YOU WILL ATTEND

- A. _____ FEBRUARY 8, 2020(SATURDAY, 9:00AM TO 11:00AM) MATH & GENERAL CLASSROOM (#40 EMAGC on the map & E12 PARKING)
- B. _____ FEBRUARY 8, 2020(SATURDAY, 1:00PM TO 3:00PM) MATH & GENERAL CLASSROOM (#40 EMAGC on the map & E12 PARKING)
- C. _____ FEBRUARY 15, 2020(SATURDAY, 9:00AM TO 11:00AM) ENGINEERING BUILDING (#21 EENGR on the map & E16 PARKING)
- D. _____ FEBRUARY 15, 2020(SATURDAY, 1:00PM TO 3:00PM) ENGINEERING BUILDING (#21 EENGR on the map & E16 PARKING)

MAP LINK: <http://www.utrgv.edu/files/documents/admissions/visit/utrgv-edinburg-map.pdf>

STUDENTS MUST BRING 2 SHARPENED PENCILS

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.
- **THERE WILL BE NO TESTING AFTER FEBRUARY 15, 2020. IT IS THE RESPONSIBILITY OF THE STUDENT/PARENT TO INFORM THE TEXPREP OFFICE IF THE ABOVE DATES COINCIDE WITH UIL COMPETITIONS TO MAKE ADDITIONAL ARRANGEMENTS, AND BE AWARE OF THE TESTING DATES YOU SELECT TO COME TO TAKE THE TEST. OUR OFFICE WILL NOT BE NOTIFYING YOU OF THE TEST DAY YOU SELECTED. IT IS YOUR RESPONSIBILITY TO COME ON THE DAY YOU SELECTED. PLEASE ARRIVE 15 MINTUES BEFORE THE TEST TIME SELECTED. IF YOU ARE NOT FAMILIAR WITH THE CAMPUS, PLEASE CALL THE OFFICE ONE DAY BEFORE TO GET INSTRUCTIONS. WE WILL NOT BE IN THE OFFICE THE DAY OF THE EXAM TO ANSWER THE PHONE. PARENTS PLEASE KEEP MAKE A COPY OF THIS PAGE BEFORE YOU TURN IT IN.**
- Please call our office three day before your test date at 665-3794 or email at prep@utrgv.edu to confirm we have received the student's application. We will not test any student that we have not received or have an incomplete application. To all students that took the test, results will be mail to student's home address on February 19, 2020. Please contact the office if you have not received a letter by February 25, 2020.
- **PARENTS: I RECOMMEND YOU KEEP A COPY OF THE APPLICATION BEFORE YOU SUBMIT IT.**

TEXAS PREFRESHMAN ENGINEERING PROGRAM (TexPREP)

June 1, 2020 to July 15, 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. **NOTE:** Nomination form does not need to be sealed. Please return to student so he/she can attach to application

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 6 1/2-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

- **MAKE SURE A COPY OF THE STUDENTS' CURRENT REPORT CARD IS ATTACHED AND THE TWO NOMINATION FORMS.**

TEXAS PREFRESHMAN ENGINEERING PROGRAM (TexPREP)

June 1, 2020 to July 15, 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. **NOTE:** Nomination form does not need to be sealed. Please return to student so he/she can attach to application

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 6 1/2-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

- **MAKE SURE A COPY OF THE STUDENTS' CURRENT REPORT CARD IS ATTACHED AND THE TWO NOMINATION FORMS.**