



2009-2010 Tom Bean High School Course Guide

Provided by the TBHS Counseling & Guidance Office

www.tombean-isd.org

INTRODUCTION

Intended for the use of both parents and students, the following *Tom Bean High School Course Guidebook* represents the school administration's continuing efforts to provide pertinent information about high school, specifically, a description of courses offered. Students are urged to study this guidebook along with other documents as they choose courses for their high school graduation plan.

This guidebook lists the courses available to high school students. It should be noted that not all of the courses listed are scheduled every year. *For a class to be offered, a minimum number of students must request that course and course offerings are based upon instructor availability.* For this reason, it may be necessary to schedule classes on an alternate-year basis or to eliminate them. When a sufficient number of student requests warrant it, every effort will be made to offer a desired course.

One can find valuable information, as well as, graduation programs of study and requirements in this guidebook. You should use this guidebook, along with the *Tom Bean High School College Planning Guidebook*, and the Tom Bean High School website to help re-organize your student's learning around clusters of study that will prepare her/him to pursue higher education and/or seek meaningful employment.

Students should stay in contact with colleges that they are interested in attending to make sure that requirements for entrance do not change year to year and to ensure that the student is taking the courses required of the colleges.



Tom Bean ISD does not discriminate on the basis of race, color, creed, national origin, sex, age, or disability in providing education services.

Educational Planning for Life: *Choose Your Career Pathway*

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This material is published early in the preceding school year, so some changes in procedure, policy, or course offerings may be required. Check the Tom Bean High School website for additions or changes at www.tombean-isd.org.

GRADE CLASSIFICATION

9th grade: 0 - 7 units of credit
10th grade: 8 - 14 units of credit
11th grade: 15 - 22 units of credit
12th grade: 22 or more units of credit

Students will be assigned to the proper grade level based on the number of documented credits earned as of August 1st and will remain in that grade level for the entire school year. For additional information, see the TBISD Student Handbook.

TEXAS EXIT-LEVEL TESTING REQUIREMENTS

A student who has not performed satisfactorily on all sections of the TAKS exit-level assessment instrument by the time he or she has successfully completed the twelfth grade shall not receive a high-school diploma until the student has performed satisfactorily on all sections. Education Code 19 TAC. Any students that have not met these expectations are not eligible to participate in graduation ceremonies per TBISD board policy.

TOP TEN PERCENT

Top Ten Gets You In

The Texas public college or university of your choice must automatically admit you if (1) your academic average placed you in the top 10 percent of your high school class; (2) you apply no later than two years after graduating from a Texas high school; and (3) you submit a completed application before the expiration of any filing deadline established by the college.

TECH-PREP

Tech-Prep is a program that links high school and college programs for college credit. The Tom Bean High School Career and Technology Department offers advanced degree plans for a variety of curriculum areas. Tech-Prep offers innovative and integrated high school programs allowing students to receive advanced academic and technological skills for college credit. Tech Prep/School-To-Work is an initiative to build collaboration and partnerships between area businesses, schools, families and community leaders to improve our system of helping youth in their transition from education to the real world. Courses are noted in course guide as being identified for possible Tech Prep credit.

OUT-OF-STATE TRANSFERS

Out-of-state transfer students shall complete all state and local graduation requirements to be eligible for a Texas diploma. Credits required that are not completed prior to enrolling may be satisfied by advanced placement examinations, credit by exam for acceleration, completing the course, or demonstrating achievement by meeting the standard requirements of the course. 19 TAC Education Code (See EEJA and EI)

ADDITIONAL LOCAL REQUIREMENTS

The District may require additional local credits for graduation under any of the high school programs. 19 TAC.

STUDENTS WITH DISABILITIES

Graduation constitutes a release from services and is a change in placement. Graduation may occur according to one of the three provisions listed below: 1. The student will graduate after satisfactorily completing the minimum academic credit requirements applicable to non-handicapped students including satisfactory performance on the exit level assessment instrument.

2. The student will graduate upon determination by the ARD committee that the student has completed requirements specified in the IEP. This date must not precede the regular graduation date.

3. The student will graduate upon determination by the ARD committee that the student no longer meets age requirements specified in the IEP. Handicapped students shall pass the section(s) of the exit level test for which they are eligible, as specified in their IEP, to receive a high school diploma. 19 TAC (See also EKB)

The Tom Bean Independent School District does not discriminate on the basis of race, religion, color, national origin, sex, or handicap in providing education services. The Superintendent of Schools has been designated to coordinate compliance with the nondiscrimination requirements of Title IX, and compliance with the nondiscrimination requirements of Section 504 of the Rehabilitation Act.

PRE-ADVANCED PLACEMENT /ADVANCED PLACEMENT COURSES

The Advanced Placement Program taught at Tom Bean High School allows students to participate in a college-level course and possibly earn college credit while in high school. Students are given the opportunity to show mastery in college-level courses by taking the Advanced Placement exam in May of each school year. This "academic bridge" helps smooth the transition from high school to college. The primary goals of the Advanced Placement Program are to enrich the secondary school experience of student ready to apply themselves to college-level courses and to provide the means by which colleges may grant credit or placement or both, to students with satisfactory Advanced Placement scores.

Advantages of Taking an AP Course:

The main advantage of taking an Advanced Placement course is better preparation for college. It has been shown that student's master in depth content at the college level more easily after completing Advanced Placement courses in high school. Students also acquire sophisticated academic skills and increased self-confidence in preparation for college.

Scoring well on an AP Exam can lead to the advanced measure requirements of the Distinguished Achievement Program.

Additionally, students who taken an AP exam may receive college credit while still in high school, saving both time and money. Credit on AP exams can save up to \$1,500 in college tuition alone and/or count as credit for one or more college courses. **Students and parent should always check with the college of interest to ensure that the college accepts Advanced Placement exams for credit.**

Advanced Placement Exams

The exams are structured to measure three areas-depth of knowledge, completeness of thought, and synthesis of ideas. Exams are graded on a five-point scale with credit usually given for scores of three or higher. **The score requirements and number of college credit hours awarded or placement credit awarded varies among universities and colleges.** AP exams are given in May according to the College Board exam schedule. The cost is approximately \$80.00. See our Pre AP/AP local policy.

A student wishing to take a PRE-AP/AP course in any subject area must complete the summer reading assignments prior to enrollment in the course. Additional information regarding the AP program and course requirements may be found on the Tom Bean High School website at www.tombean-isd.org or www.collegeboard.com .



GRADUATION PROGRAMS OF STUDY

*The 79th State Legislatures has mandated changes in graduation requirements for students entering 9th grade in the fall of 2007 to require that students obtain 4 credits in mathematics and 4 credits in science. For students entering 9th grade beginning with the 2012-2013 school year, IPC will no longer count toward the 4 required credits in science.

GRADUATION REQUIREMENTS

I. Students in TBISD must complete a minimum of 26 or 28 credits, depending on the year student's entered as high school freshman, to receive a high school diploma. All credits must be completed in grades 9-12, except high school courses satisfactorily completed in grades 8 in which student's were awarded high school credit. These courses will be noted on the student's academic transcript with a "J". All courses used to meet state graduation requirements must be selected from State Board of Education (SBOE)-approved courses, with the exception of some elective credits which may be locally approved.

II. All courses in this catalog are State Board-approved unless noted as Local Credit Only. Locally developed electives (Local Credit Only) have been designed to meet an identified TBISD need or interest. In grades 9-12, a student must complete all graduation requirements and pass the state required exit level exams before he/she is awarded a diploma.

III. It is the student and parent's responsibility to see that the requirements for graduation from high school are met. If you have any question about courses, registration, state-required exit level exams or other graduation requirements, contact the campus guidance department.

IV. Since entrance requirements vary greatly from college to college, students who are college-bound should carefully consider high school course selections and investigate college entrance requirements prior to selecting their graduation plan.

V. Since employers have varying needs and requirements, students who are career-bound should carefully consider high school course selections and strive to meet future employment requirements by selecting an appropriate graduation plan.

Students entering the 9th grade in the 2004-2005 school year and thereafter are automatically under the requirements of the Recommended Program for graduation.



Tom Bean High School GRADUATION REQUIREMENTS

(Available through Class of 2010)

Recommended Program

26 Credits

4 English

(Eng. I,II,III,IV or Dual Credit college courses-must have approval prior to enrollment)

3 Math

(Alg. I, II, Geom.,)

3 Science

(Bio., Chem. , Physics)

3 ½ Social Studies

(W. Geog., W. Hist., U.S. Hist., Govt.)

½ Economics

1 ½ PE./Athletics

(Band Students eligible for PE waiver)

½ Health

½ Communications Applications (speech)

1 Technology Application

(Beg. BCIS, Desktop Publishing, Dig. Graphics, Webmastering, Business Imaging)

2 Foreign Language

1 Fine Art

(Band, Art I, Theater Arts, Humanities)

5 ½ Electives

(Electives chosen from Eng., Math, Sci., SS, Fine Arts, Career & Tech. Courses)

Distinguished Achievement

26 Credits

4 English

(Eng. I,II,III,IV or Dual Credit college courses-must have approval prior to enrollment)

3 Math

(Alg. I, II, Geom.,)

3 Science

(Bio., Chem. , Physics)

3 ½ Social Studies

(W. Geog., W. Hist., U.S. Hist., Govt.)

½ Economics

1 ½ P.E./ Athletics.

(Band Students eligible for PE waiver)

½ Health

½ Communications Applications (speech)

1 Technology Application

(Beg. BCIS, Desktop Publishing, Dig. Graphics, Webmaster, Business Imaging)

3 Foreign Language

1 Fine Art

(Band, Art I, Theater Arts, Humanities)

4 ½ Electives

(Electives chosen from Eng., Math, Sci, SS, Fine Arts, Career & Tech. Courses)

**** 4 Advanced Measures**

**** In order to satisfy the Distinguished Achievement Graduation Plan, 4 advanced measures must be completed.**

Measures may be any combination of the following:

These measures include: tech prep classes, dual credit college courses, original research project (may not be used for more than two of the measures), scoring 3 or above on an Advanced Placement Exam/ 4 or above on International Baccalaureate Examination, or a score on the Preliminary Scholastic Assessment Test (11th grade) that qualifies the student for recognition as a commended scholar by the National Merit Scholarship Corporation.

*Students must pass the English Language Arts, Math, Science, and Social Studies portions of the Exit Level TAKS exam (11th grade) to be eligible to receive a high school diploma from the state of Texas.

Tom Bean High School
Graduation Requirements
(Beginning with 9th Grade Class of 2007-2008)
www.tombean-isd.org

Recommended Program

28 Credits

4 English

(Eng. I,II,III,IV or Dual Credit college courses-must have approval prior to enrollment)

4 Math

(Alg. I, II, Geom., Adv. Math) Pre-Cal, Indep. Study in Math, AP Cal
*Math Models may be 4th math but must be taken *prior* to Alg. II

4 Science

(Bio., Chem., Physics, Adv. Sci.) Sci., Research & Design, Ant. & Phys,
Principals of Tech I&II or Dual Credit College Course-must have approval
Environmental Systems

3 ½ Social Studies

(W. Geog., W. Hist., U.S. Hist., Govt.)

½ Economics

1 ½ PE./Athletics

(Band Students eligible for PE waiver)

½ Health

½ Communications Applications (speech)

1 Technology Application

(Beg. BCIS, Desktop Publishing, Dig. Graphics, Webmaster, Business Imaging)

2 Foreign Language

1 Fine Art

(Band, Art I, Theater Arts, Humanities)

5 ½ Electives

(Electives chosen from Eng., Math, Sci., SS, Fine Arts, Career & Tech. Courses)

Distinguished Achievement

28 Credits

4 English

(Eng. I,II,III,IV or Dual Credit college courses-must have approval prior to enrollment)

4 Math

(Alg. I, II, Geom., Adv. Math) Pre-Cal, Indep. Study in Math, AP Cal
*Math Models may NOT be taken for the Dist. Achievement Plan

4 Science

(Bio., Chem., Physics, Adv. Sci.) Sci., Research & Design, Ant. & Phys,
Environmental Systems or Dual Credit College Course-must have approval

3 ½ Social Studies

(W. Geog., W. Hist., U.S. Hist., Govt.)

½ Economics

1 ½ P.E./ Athletics.

(Band Students eligible for PE waiver)

½ Health

½ Communications Applications (speech)

1 Technology Application

(Beg. BCIS, Desktop Publishing, Dig. Graphics, Webmaster, Business

3 Foreign Language

1 Fine Art

(Band, Art I, Theater Arts, Humanities)

4 ½ Electives

(Electives chosen from Eng., Math, Sci, SS, Fine Arts, Career & Tech.

**** 4 Advanced Measures**

**** In order to satisfy the Distinguished Achievement Graduation Plan, 4 advanced measures must be completed.**

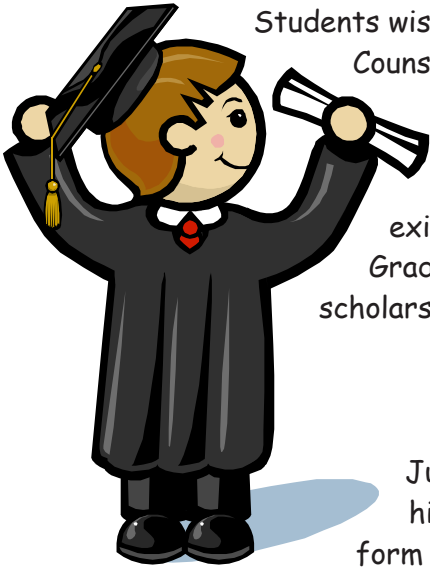
Measures may be any combination of the following:

These measures include: tech prep classes, dual credit college courses with a grade of a "B" or above, original research project (may not be used for more than two of the measures), scoring 3 or above on an Advanced Placement Exam/ 4 or above on International Baccalaureate Examination, or a score on the Preliminary Scholastic Assessment Test (11th grade) that qualifies the student for recognition as a commended scholar by the National Merit Scholarship Corporation.

*Students must pass the English Language Arts, Math, Science, and Social Studies portions of the Exit Level TAKS exam (11th grade) to be eligible to receive a high school diploma from the state of Texas.

www.tea.state.tx.us

EARLY HIGH SCHOOL GRADUATION



Students wishing to pursue the Early High School Graduation program should see their Counselor. Parent/Guardian documentation of intent to pursue the Early High School Graduation program must be on file in the Counseling Office prior to the beginning of the student's junior year in order to prepare a plan for taking courses to graduate early and to make a plan for the taking of the exit-level TAKS. Students who graduate under the Early High School Graduation program under the Recommend Graduation Plan, may be eligible for a scholarship from the State of Texas.

COLLEGE CREDIT COURSES TAKEN OFF CAMPUS

Juniors and Seniors wishing to take college courses on the GCC campus for high school credit must receive prior approval. The "Dual Credit Approval" form must be on file in the Counseling Office prior to the student's registering for any course. Interested students should see the Counselor or high school website at www.tombean-isd.org for more details. Online courses will not be approved for dual credit.

CORRESPONDENCE COURSES

Two credits of correspondence courses may be accepted as part of high school graduation requirements for accredited schools in Texas. The student must have the principal or counselor's prior approval before enrolling in a correspondence course. Only those students who are juniors or seniors will be approved for correspondence course work. Coursework will only be accepted from an approved Texas Higher Education approved agency such as Texas Tech or University of Texas at Austin.

It is the student's - parent's / guardian's responsibility to be certain that the student meets the requirements for graduation.





9TH GRADE

- Sign up for strong classes and make studying your number-one priority.
- Work to your potential because the grades that you earn become part of your Grade Point Average (GPA).
- Participate in extra-curricular activities.
- Begin to work on your service-hour commitment for graduation. 99% of scholarships require community service hours. Tracking forms are available on the TBHS website or in the magazine racks.
- Make your summer "meaningful". Consider summer school, a part-time job, volunteer work, enrichment opportunities.
- Sign up for strong courses for 10th grade. Do you need to go to summer school?
- When on vacation, drive through and walk around college campuses just to get the feel of a large school, a small school, a far-away school, different types of campuses, etc.

10th GRADE

- Take strong courses and continue to work to your full potential.
- Be a self-advocate. Attend tutorials and do not let yourself fall behind in your classes. Meet with teachers when needed to review course work, tests and other academic work to "learn from your performance". *GPA counts!*
- Attend College Night. Begin to consider the various types of colleges available and the types of programs that they offer.
- Continue to work on community service projects.
- Take the PSAT in October. You do not need to take a preparatory course for this test in the sophomore year.
- Use the results of the PSAT to determine strengths and weaknesses in writing, verbal and math skills.
- Begin to visit colleges informally whenever you are near one during a family trip or vacation.
- Make your summer "meaningful". Summer experiences are invaluable for personal growth and add depth to a resume.
- Be your own best advocate.
- Work on service hours. Many college or scholarship applications have major sections or their focus on community service.
- Take the TAKS seriously in SPRING. It helps you prepare for your "exit level" TAKS in your Junior year.
- Study! Study! Study!

11th GRADE

- Focus firmly on grades. This is the last year to acquire a strong GPA for college admissions applications next fall.
- Consider a PSAT prep course based on 10th grade results if they showed potential for National Merit consideration. Otherwise, use the 11th grade PSAT as a baseline score from which to prep for next spring's SAT's and ACT's.
- Apply in early September for special test accommodations if you regularly use them in class and need them for the PSAT.
- Attend College Night. Talk to college representatives and begin to establish contact with various schools of interest to you.
- Talk with college representatives when they visit the high school. They can eventually be your "best friends" at the college admission selection table when applications are reviewed.
- Take the PSAT in October. National Merit Scholarship Competition is determined from the junior-year PSAT.
- Consider an SAT/ACT prep course after receiving PSAT scores in December. PSAT scores can be used as SAT predictors within approximate ranges. They can also indicate areas of strength and weakness that students can work on before taking the first SAT and ACT during the latter part of the junior year.

- Complete a credit check with your counselor. Get on the Internet and review specific course requirements for admission at colleges of interest to you. You'll be better prepared to select appropriate senior-year courses if you do this research early.
- Register for strong senior classes. Course selection is very important to most colleges. They want to see you challenging yourself in the classroom. Your senior year schedule will be submitted as part of your college applications next fall.
- Sign up to take both the SAT and the ACT in the spring of the junior year. You can re-test in the fall of the senior year.
- Check with your counselor for additional application forms if you regularly use and will need special test accommodations.
- Continue to work on service hours. Consider running for leadership positions during your senior year.
- Get on the Internet and "investigate" the college home pages. There are several access points through the TBHS Counselor's webpage. www.tombear-isd.org
- Visit college campuses. Begin to narrow down choices.
- Make your summer "meaningful". Consider internships, enrichment programs on college campuses, work experiences, etc.
- Begin to develop your resume.

12th GRADE

- Sign up for the SAT, ACT or SAT II's if necessary. Continue test prep if appropriate.
- Make plans to visit college campuses of interest to you.
- Attend the senior group meeting with counselor for admission tips and to review the college application process. Check the TBHS website often for information.
- Become aware of application deadlines. Meet with your counselor to finalize college application choices. Utilize the College Guide Book. Each senior receives a copy, as well as, it being posted on the TBHS website.
- Follow application directions for each college and mail all applications on time (preferably by December 1st). Watch for those early deadlines!!!
- Check on the financial aid and scholarship process at the colleges you are considering. Complete the FAFSA. by the end of February. Meet application deadlines.
- Read the TBHS *Senior Happenings* newsletter every month to keep abreast of college admission information, scholarship opportunities, senior-year news, graduation information and transition tips for moving from high school to college.
- Finish the senior year strong. College admission is based on "successful completion of high school".
- Enjoy your senior year! You've earned it!





English I

Grade 9 1 Year 1 Credit

English I is intended to develop vocabulary, grammar, and reading and writing skills on the first stage of high school. Students will read and understand a wide variety of world literature and informational texts. Students will learn literary forms and terms which are associated with selections being studied. Students will compose a variety of well-constructed and grammatically acceptable written responses. The responses should include a clear controlling idea, coherent organization, and sufficient detail for support. Students will learn how to locate a range of relevant sources and evaluate, synthesize, and present ideas and information from research. Students will listen and respond to the ideas of others while contributing their own ideas in conversations and in groups. Students will learn how to use the oral and written conventions of the English language in speaking and writing. The standards of the English I course are cumulative--students will engage in activities that build on their prior knowledge and skills in order to strengthen their reading, writing, and oral language skills. Students will read and write on a daily basis.

Pre-AP English I

Grade 9 1 Year 1 Credit

PRE-REQUISITE: Meets PRE-AP criteria. Summer reading assignment required prior to enrollment in course. Pre-AP English I students are engaged in a more rigorous and comprehensive study of the English I TEKS and work in both individual and collaborative settings. They read and write extensively and begin an ongoing study of literary analysis as initial preparation for AP English III and AP English IV. Pre-AP English I students improve and refine their communication skills through writing, speaking/listening, and visual representation. They plan, draft, and complete a variety of written compositions on a regular basis. They edit their papers for clarity, engaging language, and the correct use of the conventions and mechanics of written English and produce final, error-free compositions. In Pre-AP English I students analyze multiple genres of culturally diverse texts to draw inferences and conclusions and make generalizations and predictions. They apply their knowledge of literary forms and terms to evaluate the author's use of these devices. A summer reading component is required. This course also includes preparation for TAKS Grade 9 Reading.

English II

Grade 10 1 Year 1 Credit

The sophomore English class provides students with the opportunity to read and understand literary genre from a variety of texts as well as compose a wide variety of written compositions with clear ideas, coherent organization and sufficient detail. Students are expected to research, evaluate and synthesize ideas for an oral presentation as well as present a formal research paper. Students are expected to perform outside reading and other various assignments promoting vocabulary growth, as well as exercises for spelling and grammar conventions, to accommodate preparation for higher education.

Pre-AP English II

Grade 10 1 Year 1 Credit

PRE-REQUISITE: Meets PRE-AP/honors criteria
The sophomore Pre-AP English class encompasses an in-depth summer assignment reflecting on classic world literature and history from five different time periods. These assignments introduce modern philosophies and ideologies from a variety of viewpoints, which help the student, gain an overall understanding of literary evolution. The students read a supplemental novel in the fall and spring semesters to further promote world literature. The Pre-AP English class will write one formal research paper in the fall and a literary critique in the spring. The advanced student is also held responsible for all vocabulary, spelling and grammar conventions of the regular high school student. A summer reading component is required. This course also includes preparation for TAKS Grade 10 ELA.

English III

Grade 11 1 Year 1 Credit

English 3 is a survey of American literature, a study of grammar, and of oral and written composition, including the formal research paper; SAT preparation, critical thinking skills, and vocabulary development. English III students are expected to plan, draft, edit, and revise written compositions on a regular basis in a variety of forms including narrative, descriptive, informative, and persuasive.

AP English III

Grade 11 1 Year 1 Credit

PRE-REQUISITE: Meets PRE-AP/honors criteria.

Advanced Placement is designed for the college-bound student wishing to obtain college credit while still in high school. Summer reading is required. Only students planning to take the AP test should enroll, as extensive reading and writing, under strict time constraints, is required in relation to the tests. Readings will come from American literature fiction and nonfiction, historical texts, and satirical essays. This class requires extensive reading, time commitment, and the ability to meet time deadlines.

English IV

Grade 12 1 Year 1 Credit

Integrated composition/literature, including literary criticism, documented research and a survey of British literature. Communication skills are refined through listening and speaking, reading, writing. Skills in viewing and representing are expanded. Vocabulary development and SAT, ACT, THEA preparation integrated into course work.

DUAL CREDIT ENGLISH 1301/1302

GRADE 12 1 SEMESTER EACH $\frac{1}{2}$ Credit per semester 1 credit required for graduation

Prerequisites: English 1-3, English teacher's recommendation & Contract. **Students seeking college credit must take the THEA test prior to the beginning of the school year or meet exemption requirements on the TAKS test.**

This course includes two college courses, ENGL 1301 & 1302. It is designed to give the superior student in English college-level studies. Timed, critical essays will be written with, and an emphasis will be placed on clear, analytical writing. Course study includes British literature and world literature. Students must be willing to read critically and prepare to initiate class discussions based on personal annotations from outside reading. Through this course, students have an opportunity to earn 6 hours of college credits through Grayson County College. Tuition, fees, and cost of books are the responsibility of the students. For additional information, see the Dual Credit Guidelines on the Tom Bean High School website.

Communications Applications

Grade 9-12 1 semester $\frac{1}{2}$ Credit

Students develop effective communication for life by identifying, analyzing, developing, and evaluating skills needed for professional and social success in interpersonal relations, group interactions, and personal and professional presentations. **Fulfills the speech requirement for graduation.**

Practical Writing (ACT/SAT Prep)

Grade Placement: 10-12 1 to 2 semesters $\frac{1}{2}$ to 1 Credit

This course is designed but not limited to preparing students for college entrance exams, completing college applications, recommendation letters, scholarships, and explore financial aid opportunities. Students will have the opportunity to make continual self assessments, research college/careers, develop a personal resume, and use self-development techniques and interpersonal skills.

ELA TAKS INTERVENTION

Grades: 9-12 $\frac{1}{2}$ to 1 Year Local Credit

Prerequisite: None

This class is designed to address deficiencies indicated by individual ELA TAKS scores and classroom performance.

SCIENCE

Biology

Grades: 9-12 1 Year 1 Credit

Biology provides a general knowledge of the natural order of living organisms and their relationship with the environment. Topics to be covered include Scientific Processes, Cells and Cellular Specialization, Nucleic Acids and the Mechanisms of Heredity, Natural Selection, Metabolic Processes and Energy Transfers, Homeostasis, Plants, Animals, Viruses, Taxonomy, Human Systems and Ecology. Topics will be taught utilizing laboratory experiences.

Chemistry

Grades: 9-12 1 Year 1 Credit

Pre-requisite: Biology

The curriculum is built around critical thinking; including new vocabulary, exploratory lessons, labs and demonstrations that illustrate and support the lessons. Students will study matter or materials from an atomistic and molecular point of view and incorporate modern theories of bonding descriptively without complicated mathematical principles. The periodic table is incorporated into the course so that the student understands the chemical properties of atoms by understanding the organization of the periodic table. Chemical reactions are studied and the student will learn to write and balance these equations and use them to calculate quantitatively reactants and products for these reactions.

Physics

Grades: 10-12 1 Year 1 Credit

Pre-requisite: Biology and Chemistry

In this conceptual course, physics concepts will be presented in familiar English with equations as a "guide to thinking." This course will maximize the student's personal experiences in the everyday world as opposed to a concentration on math skills. In-depth laboratory experiences will be utilized. The following topics will be taught: Scientific Processes, Laws Governing Motion, Energy, and Momentum, Forces: Gravitational, Electrical, and Magnetic, Thermodynamics, Waves, and Quantum Physics.

Anatomy and Physiology

Grades: 10-12 1 Year 1 Credit

Pre-requisite: Biology and Chemistry

This course is designed for those students interested in the nursing and related fields. This course is also classified as a science credit. This will be an intensive course that will give the student a basic understanding in the following biological topics: the structure, function, characteristics and location of epithelial, connective, muscular and nervous tissue; the integumentary system and how it functions in temperature control; the digestive system and the manner in which nutrients are broken down and absorbed; the circulatory system and how gases are exchanged; the excretory system and the manner in which the blood is cleansed; the nervous system and how organisms interact with the environment; the sense organs and how sight and hearing occur; the skeletal system and how the parts function to allow body movement; the reproductive system; the lymphatic system and how it provides immunity; and how the endocrine system and how hormones are involved in control of the body.

SCIENTIFIC RESEARCH AND DESIGN I, II, III

GRADES 10-12 1 Year 1 Credit:

Prerequisite: Teacher approval

Research and Design uses a competition format to teach scientific method and engineering design. In the fall students enrolled in this course prepare for the B.E.S.T. competition by designing and building a robot that can complete specified tasks. The tasks change from year to year and students may take this course more than once. Students use a variety of power tools to build the robot and must document their work with an array of computer skills including, but not limited to, Word, Power Point, HTML, and CAD. Grades are project based. **Students taking this course should expect to attend 3 Saturday competition dates and 3 after school shop periods a week during the B.E.S.T. competition.**

ENVIRONMENTAL SYSTEMS

Grades: 11–12 1 Year 1 Credit

Environmental Science is a one year laboratory course that demonstrates the integration and dependency of the living and nonliving communities and includes concepts such as the interrelationship among resources, the sources and flow of energy through a system and population and environmental changes. The course offers a holistic overview of critical environmental issues and will serve as a foundation for students to make the decisions that shape the future of our world.

SCIENCE TAKS INTERVENTION

Grades: 9-12 $\frac{1}{2}$ to 1 Year Local Credit

This class is designed to address deficiencies indicated by individual science TAKS scores and classroom performance.

MATHEMATICS

Students who complete any high school mathematics courses in grade eight, as indicated by a "J" on the transcript, may use the credit(s) earned to satisfy the requirement of three units of mathematics in grades 9-12. Grades earned in high school courses, while taken in middle school, are included in the high school GPA.

Algebra I

Grades: 9-12 1 Year 1 Credit

Algebra I students should have opportunities to build on these earlier experiences, both deepening their understanding of relations and functions and expanding their repertoire of familiar functions. They will learn to combine functions, express them in equivalent forms, compose them, and find inverses where possible. Algebra I also should provide students with insights into mathematical abstraction and structure through the content strands of Foundations for Functions, Linear Functions and Quadratics and other Non Linear Functions, along with the following Basic Understandings: **Algebraic thinking and symbolic reasoning**. Symbolic reasoning plays a critical role in algebra; symbols provide powerful ways to represent mathematical situations and to express generalizations. Students use symbols in a variety of ways to study relationships among quantities. **Function concepts**. Functions represent the systematic dependence of one quantity on another. Students use functions to represent and model problem situations and to analyze and interpret relationships. **Relationship between equations and functions**. Equations arise as a way of asking and answering questions involving functional relationships. Students work in many situations to set up equations and use a variety of methods to solve these equations. **Tools for algebraic thinking**. Techniques for working with functions and equations are essential in understanding underlying relationships. Students use a variety of representations (concrete, numerical, algorithmic, graphical), tools, and technology, including, but not limited to, powerful and accessible hand-held calculators and computers with graphing capabilities and model mathematical situations to solve meaningful problems.

Geometry

GRADES: 9-12 1 Year 1 Credit

Prerequisite: Credit in Algebra I

This course explores the topics of Geometry developing an awareness of the structure of a mathematical system connecting definitions, postulates, theorems, logical reasoning, transformations, proof, and coordinate geometry. This course is required for graduation.

Algebra II

Grades: 9 - 12 1 Year 1 Credit

Prerequisite: Algebra I

Review of Algebra I, with further elaboration on inequalities, linear functions, and quadratic functions. New concepts will include polynomial functions, complex numbers, rational functions, matrices, conic sections, exponential functions, logarithmic functions, and square root functions. The SAT and ACT mathematics tests pull their questions from Algebra 2 and Geometry content. This course is required for graduation.

Mathematical Models with Applications

Grades: 10-12 1 Year 1 Credit

Prerequisite: Algebra I, Geometry

Students use technology and data from real-life situations involving personal income, financial planning, scientific applications, or the arts to study patterns, make decisions, and describe situations involving chance. **This course will not fulfill the math requirement for the Distinguished Achievement Programs. For the Recommended Graduation program, Math Models MUST be taken PRIOR to Algebra II.**

Independent Study in Mathematics

Grades: 11-12 1 to 2 semesters $\frac{1}{2}$ to 1 Credit

Prerequisites: Algebra II and Geometry

Content requirements. Students will extend their mathematical understanding beyond the Algebra II level in a specific area or areas of mathematics, such as theory of equations, number theory, non-Euclidean geometry, advanced survey of mathematics, or history of mathematics. The requirements for each course must be approved by the local district before the course begins. *If this course is being used to satisfy requirements for the Distinguished Achievement Program, student research/products must be presented before a panel of professionals or approved by the student's mentor

Pre-Calculus

Grade: 10 - 12 1 Year 1 Credit

Prerequisite: Algebra II, Geometry

Review of Algebra 2, strengthening problems solving skills in linear, quadratic, polynomial, rational, exponential, and logarithmic functions. New concepts will include analytic trigonometry, vectors, series and sequence, probability, and introductory calculus. The work is challenging but students who persevere should see higher SAT and ACT scores and have the background necessary to be successful in Calculus.

Calculus AB - Advanced Placement

Grade: 11 - 12 1 Year 1 Credit

Prerequisite: Pre-Calculus

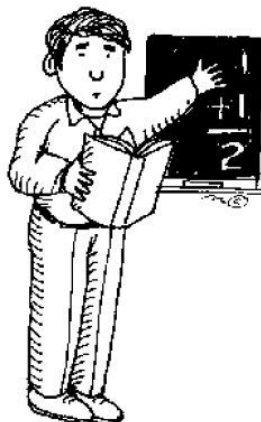
Calculus AB assumes that a student has mastered linear, quadratic, polynomial, rational, exponential, logarithmic, and trigonometric functions and can apply those problem solving skills in new situations. New concepts will include limits, derivatives and their application, integrals and their applications, and elementary differential equations. The work will challenge students who consider themselves good at mathematics. Those who persevere have an opportunity to earn college credit and may fulfill all college math requirements. **Students taking this course will be prepared and are expected to take the Advanced Placement test upon completion.**

TAKS INTERVENTION

Grades: 9-12 $\frac{1}{2}$ to 1 Year Local Credit

Prerequisite: None

This class is designed to address deficiencies indicated by individual math TAKS scores and classroom performance.



FINE ARTS



Art 1: Introduction to Art

Grades: 9-12 1 year 1 credit

Prerequisite: none

Emphasis is on understanding of art elements and principles of design. Students will explore a variety of techniques and styles, both in two-dimensional and three-dimensional work. Students will examine the significance and value of art as a means of expression. This beginning level of art is designed as an introduction to a variety of media and techniques with preliminary work in both drawing and painting. Students are required to furnish some of their own art supplies and materials.

Art II: Studio Art

Grades: 10-12 1 year 1 credit

Prerequisite: Art 1

Art in the second year is designed to allow the students to expand on ideas and techniques learned in year one. Students will be given opportunities to push their developing skills further. Students are required to furnish some of their own art supplies and materials.

Art III/IV: Advanced Studio Art

Grades: 11-12 1 year 1 credit

Prerequisite: Art 1 & 2

Art at this level is for the student capable of doing advanced work in drawing and painting. Students will be working with a variety of media, such as pencil, ink, prisma colors, pastels, watercolors, and acrylics. Students will be given opportunities to explore and pursue areas of special interest, with the goal of further expanding their developing skills. Students are required to furnish some of their own art supplies and materials.

Humanities

Grade 10-12 1 Year 1 Credit

This course is designed to provide students with opportunities to expand and enrich the academic experience through American studies in the fields of music, social studies, science, and art. It is open to students in regular, honors, or gifted courses. It may serve as a strong companion course for students enrolled in English III Advanced Placement.

Band I-IV (Concert Band)

Grade 9-12 1 Year 1 Credit (1 ½ PE Waiver)

The Concert Band is designed to meet the individual needs of the student. Musical performance in UIL events, concerts, scheduled band activities, and additional rehearsals is a required part of the student's responsibility in the organization. Band begins the first of August and includes before and after school rehearsals throughout the school year. Students are allowed to substitute Marching Band for Physical Education.

Instrumental Ensembles

Grades: 10-12 1 Year 1 Credit

Pre-requisite: Concurrent membership in band Instrumental ensembles meet the needs of students with a specific interest in performing ensemble literature other than that studied in band or orchestra. Size and composition of each group is designed to meet requirements of the music to be studied.

Theater Arts I

Grades: 9–12 1 Year 1 Credit

This course of study is designed as an introductory survey in the fundamentals of theater production, including the role of the actor in the interpretation of dramatic literature and the development of the physical theater. The student is also involved in the physical and mental processes of learning to act with emphasis on interpretation, bodily movement, and characterization.

Theater Arts II

Grades: 10–12 1 Year 1 Credit

Pre-requisite: Theater Art I

This course of study is designed to provide the student with knowledge of the actor's craft, the development of theater as part of our cultural heritage, fine dramatic literature, and the ability to evaluate dramatic experiences. The major emphasis of the course is on the extension of the student's knowledge of the principles of acting, comedic and dramatic theory, stagecraft, directing, and actual workshop experience in the preparation and presentation of plays.

Theater Arts III

Grades: 11–12 1 Year 1 Credit

Pre-requisite: Theater Art I and II

This course of study is designed as an advanced course which prepares students for competition in drama events in local and statewide tournaments. The major emphasis is on the practice, critique, and refinement of the techniques of acting, directing, stagecraft, and preparing and presenting plays and/ or scenes from plays.

Theater Arts IV

Grade: 11-12 1 Year 1 Credit

Pre-requisite: Theater Art I, II, III

This course of study is designed to further engage students in theatrical competitions and to provide the student with advanced training in the actor's craft, the history of the theater, and theories of dramatic study. The student will refine skills in acting, directing, stagecraft, and production.

SOCIAL STUDIES

WORLD GEOGRAPHY

Grade : 9 1 Year 1 Credit

Prerequisite : None

World Geography is the study of the physical features and cultures on earth. The first semester consists of physical geography: the study of maps and charts and how to use them. The earth's movement around the sun, land forms, and ecosystems will also be studied. The second semester focuses on different continents, countries and their cultures as the course travels around the world.



WORLD HISTORY

Grade: 10 1 Year 1 Credit

Prerequisite : None

The course includes the history and development of ancient civilizations, western civilization, and other world regions from their beginnings to the present. The course provides students the opportunity to compare and analyze various ways of life and cultural patterns that reflect the diversity and commonality of human experiences and the understanding of how these patterns occur. Geographic influences on world history are a part of the study.

U.S. HISTORY

Grade: 11 1 Year 1 Credit

Prerequisite : None

United States History Studies since Reconstruction is designed to demonstrate the relationship between past national events and their impact on the present and future state of our nation. This will be accomplished by an analysis of social, economic and political development of the United States from Reconstruction to the present.

GOVERNMENT

Grade: 12 1 Semester $\frac{1}{2}$ Credit

A course designed to develop an understanding of the structure, functions, and development of the United States governmental and political systems. Students will analyze political institutions, processes, and civic values inherent in the political system and will develop and apply the participatory skills needed to carry out civic responsibilities and exercise their rights as citizens.

ECONOMICS

Grade: 12 1 Semester $\frac{1}{2}$ Credit

This course provides opportunities for students to study basic principles concerning production, consumption, and distribution of goods and services. It builds an understanding of the essential components and benefits of the free enterprise system. Students study concepts of scarcity, economic interdependence, the market system, prices, economic stability, and growth. Students will examine the role of the government in the American economic system and explore selected aspects of international economic systems.

PSYCHOLOGY

Grades : 11-12 1 Semester $\frac{1}{2}$ Credit

Prerequisite : None

Psychology is the scientific study of human behavior. This course is designed to help students better understand the human environment. Emphasis is placed on practical, everyday living.

SOCIOLOGY

Grades: 11-12 1 Semester $\frac{1}{2}$ Credit

Prerequisite : None

Sociology is the scientific study of society and its institutions. This course helps students to understand some of the effects of the various cultures on our society. Students study the different behavioral patterns of ethnic groups and the dynamics of group behavior from the sociologists' point of view.

DUAL CREDIT COLLEGE GOVERNMENT 2305

Grade: 12 Fall Semester $\frac{1}{2}$ Credit

Prerequisite : Must have passed THEA and pay all tuition, fees and books through *GCCC*.

This course will incorporate both State and Local Government 232 and U.S. Government 231. It is an option for students interested in politics, law, governmental structures, and who want an opportunity to earn 6 hours of college credit during their senior year while meeting a high school graduation requirement. *see Tom Bean High School website at www.tombean-isd.org for additional information.

DUAL CREDIT COLLEGE ECONOMICS

GRADE: 12 Spring Semester $\frac{1}{2}$ Credit

PREREQUISITE: Must have passed THEA and pay all tuition, fees and books through *GCCC*.

This semester course will combine Economics 2301 (Microeconomics) and Economics 2310 (Macroeconomics). It is a demanding option for those students with particular interest in banking, financing, national and international monetary systems who wish to earn 6 college credit hours during their senior year while meeting a high school graduation requirement. *see Tom Bean High School website at www.tombean-isd.org for additional information.

SOCIAL STUDIES TAKS INTERVENTION

Grades: 9-12 $\frac{1}{2}$ to 1 Year **Local Credit**

Prerequisite: None

This class is designed to address deficiencies indicated by individual Social Studies TAKS scores and classroom performance.

HEALTH EDUCATION

HEALTH

GRADES: 9-12 **1 Semester** **1 Credit**

This course is a comprehensive study of the concepts and skills that foster individual personal health and safety. Current and relevant topics such as environmental health, the influence of media on health consumerism, current health issues, and health care finances will be examined. This course is required for graduation.

PHYSICAL EDUCATION

FOUNDATIONS OF PHYSICAL FITNESS

GRADES: 9-12 **1 Semester** $\frac{1}{2}$ Credit

This course is a study of physical fitness to increase understanding of the relationship between physical fitness activities and health issues, consumer issues, safety practices and assessment of individual fitness levels.

Activities will help improve and maintain physical fitness levels and a program will be designed to meet individual needs and interests.

Individual Sports /Team Sports I /Team Sports II

Grades: 9-12 **1 Semester each** $\frac{1}{2}$ Credit Each

Students are required to complete three (3) semesters of physical education to satisfy graduation requirements. In these courses, activities will include fitness and individual, dual, and team sports. Only two (2) credits in physical education are allowed as state graduation credits; credits earned in physical education beyond these two (2) are given local credit status.

Physical Education

1st year of boys PE / 2nd year of boys PE

1st year of girls PE / 2nd year of girls PE

Grades: 9 - 12 **1 Semester Each** $\frac{1}{2}$ Credit Each

Prerequisites: None

In Physical Education, students acquire the knowledge and skills for movement that provide the foundation for enjoyment, continued social development through physical activity, and access to a physically active lifestyle.

Students are taught in this course about the process of becoming fit as well as achieving some degree of fitness within the class. During physical activity, the students develop positive self-management and social skills needed to work independently and with others. Students are required to have 1 $\frac{1}{2}$ credits of P.E. or Athletics to graduate.

LANGUAGES OTHER THAN ENGLISH

Spanish 1

Grade Levels: 9-12 **1 Year** **1 Credit**

Prerequisite: None

This course introduces students to Spanish vocabulary and pronunciation, basic dialogues, and basic sentence patterns. Audio-lingual materials aid in the development of communication skills. Through various classroom activities, students observe and experience Hispanic culture. Skills and concepts in listening, speaking, reading, and writing are stressed.

Spanish II

Grade Levels: 9-12

1 Year

1 Credit

Prerequisite: Spanish I

Emphasizing oral comprehension and reading skills, students expand their fluency in Spanish. Grammar, vocabulary, literature, and cultural studies are stressed. Listening, speaking, reading, writing, and language concepts are emphasized.

Spanish III

Grade Levels: 10-12

1 Year

1 Credit

Prerequisite: Spanish I and II

Study of the subjunctive begins. Using college materials, students undertake grammar and vocabulary studies, enhance oral comprehension and explore Hispanic culture. Skills in listening, speaking, reading and writing are emphasized with the result that during oral units the class will be conducted entirely in Spanish. Students with advanced skills may wish to take the AP Spanish Language Test for the possibility of earning college credit.

Spanish IV

Grade Levels: 11-12

1 Year

1 Credit

Prerequisite: Spanish 3 & Teacher Approval

Study of subjunctive continues. This course stresses grammar and vocabulary studies using college materials. Students also read Hispanic literature and write original compositions. Listening, speaking, and language skills are emphasized, along with awareness of Hispanic culture with the result that oral units are conducted in Spanish only. Students with advanced skills may wish to take the AP Spanish Language Test for the possibility of earning college credit.

OTHER OPTIONAL ELECTIVES

PAL (PEER ASSISTANT LEADERSHIP)

Grade: 12

1 Year

1 Credit

Prerequisite : Application, nomination, evaluation and interview.

The PAL program is a peer helping program. Students are trained to work with other students, usually from middle schools or elementary schools. The course emphasizes the development of communication skills, leadership skills and self-esteem.

Choosing a Career Pathway: A Personalized Education Plan

Jobs in the twenty-first century will require both high academic and technical skills. Primarily because of ever-changing technology, our society will see many new job titles and work areas added each year. That makes it especially important for students to begin thinking early about what types of occupations they might want to pursue and then to plan a rigorous high school program that will give them more opportunities for success.

The term "Career" implies more than just a job; it includes education, work, and lifestyle. Achieving a successful career requires years of planning, studying, training, and hard work. If used correctly, the following section will help students select the right path to follow in high school, one of the most important decisions students will make in their lives. For additional information on selecting a career pathway, visit the Tom Bean High School website for a vast array of information and interest inventories.

Tom Bean High School
Achieve Texas Career Pathways

<p>1</p> 	<p>The production, processing, marketing, distribution, financing, and development of agricultural commodities and resources including food, fiber, wood products, natural resources, horticulture, and other plant and animal products/resources.</p>	<p>Ag 101/102, InAgMech/Home Maint., Ag Struct/Ag Metal Fab., Ag Power Tech/Ag Electronics, Inhort/Landscape, Per Skills Dev/Ag Communications. AgBusi/Adv Ag Busi, Wildlife/Range Mgt., Animal Sci/Pant & Animal Prod., Nutrition/Food Science, upper level ag and science courses</p>
<p>2</p> 	<p>Careers in designing, planning, managing, building and maintaining the built environment.</p>	<p>Housing/Interior Design, InAgMech/Home Maint., Bus Image & Multimedia, Digital Graphics, Accounting I, II, Computer Sci., Bus Ownership/Mgt, Intro Bus/Bus Law, BCIS I, II, any college prep electives, upper level math and science courses Adv. Research and Design I, II, III,</p>
<p>3</p> 	<p>Designing, producing, exhibiting, performing, writing, and publishing multimedia content including visual and performing arts and design, journalism, and entertainment services.</p>	<p>Art I,II, III, IV Band, Theater Arts. Bus Image & Multimedia, Digital Graphics, BCIS I, II, Desktop Publishing, Web Mastering, any college prep electives, Adv. Research and Design I, II, III, upper level math and science courses</p>
<p>4</p> 	<p>Business Management and Administration careers encompass planning, organizing, directing and evaluating business functions essential to efficient and productive business operations. Business Management and Administration career opportunities are available in every sector of the economy.</p>	<p>Accounting I, II, Bus Ownership/Mgt, Intro Bus/Bus Law, BCIS I & II, Admin Procedures, Desktop Publishing, Computer Sci I, II, Bus Image & Multimedia, Web Mastering, any college prep courses, upper level math and science courses</p>
<p>5</p> 	<p>Planning, managing and providing education and training services, and related learning support services.</p>	<p>Prep for Parenting/Child Dev, Office Aide at Elem School, Per Fam Dev., Technology Applications, any college prep courses, upper level math and science courses</p>
<p>6</p> 	<p>Planning, services for financial and investment planning, banking, insurance, and business financial management.</p>	<p>Accounting I, II, Bus Ownership/Mgt, Intro Bus/Bus Law, BCIS I & II, Admin Procedures, any college prep courses, upper level math and science courses</p>
<p>7</p> 	<p>Executing governmental functions to include Governance; National Security; Foreign Service; Planning; Revenue and Taxation; Regulation; and Management and Administration at the local, state, and federal levels.</p>	<p>Accounting I, II, Bus Ownership/Mgt, Intro Bus/Bus Law, BCIS I & II, Admin Procedures, Technology Applications, any college prep courses, upper level math and science courses</p>
<p>8</p> 	<p>Planning, managing, and providing therapeutic services, diagnostic services, health informatics, support services, and biotechnology research and development.</p>	<p>Prep Parenting/Child Dev, Nutrition/Food Sci, BCIS I & II, Bus Image& Multimedia, Digital Graphics, Ant & Physiology, upper level science and math courses, any college prep courses</p>
<p>9</p> 	<p>Hospitality & Tourism encompasses the management, marketing and operations of restaurants and other foodservices, lodging, attractions, recreation events and travel related services.</p>	<p>Accounting I, II, Bus Ownership/Mgt, Intro Bus/Bus Law, BCIS I, II, Web Mastering, Admin Procedures, Bus Image & Multimedia, Digital Graphics, Per Family Dev, Prep Parenting/Child Dev., Nutrition/Food Sci., Housing/ Interior Design, Desktop Pub.</p>

 <p>10 Human Services</p>	<p>Preparing individuals for employment in career pathways that relate to families and human needs.</p>	<p>Per Family Dev, Prep Parenting/Child Dev., Nutrition/Food Sci., Housing/ Interior Design, Accounting I, II, Bus Ownership/Mgt, Intro Bus/Bus Law, BCIS I & II, Admin Procedures, Bus Image & Multimedia, Digital Graphics, Desktop Pub., Web Mastering, Adv. Research and Design I, II, III</p>
 <p>11 Information Technology</p>	<p>Building Linkages in IT Occupations Framework: For Entry Level, Technical, and Professional Careers Related to the Design, Development, Support and Management of Hardware, Software, Multimedia, and Systems Integration Services.</p>	<p>BCIS I, II, Bus Image & Multimedia, Digital Graphics, Desktop Pub., Computer Science I, II, Web Mastering, Adv. Research and Design I, II, III, any college prep courses, advanced science and math courses</p>
 <p>12 Law, Public Safety, Corrections & Security</p>	<p>Planning, managing, and providing legal, public safety, protective services and homeland security, including professional and technical support services.</p>	<p>Accounting I, II, Bus Ownership/Mgt, Intro Bus/Bus Law, BCIS I & II, Admin Procedures, Bus Image & Multimedia, Digital Graphics, Per Family Dev, Prep Parenting/Child Dev., Nutrition/Food Sci., Housing/ Interior Design</p>
 <p>13 Manufacturing</p>	<p>Planning, managing and performing the processing of materials into intermediate or final products and related professional and technical support activities such as production planning and control, maintenance and manufacturing/process engineering.</p>	<p>Ag 101/102, InAgMech/Home Maint., Ag Struct/Ag Metal Fab., Ag Power Tech/Ag Electronics, Inhort/Landscape, Per Skills Dev/Ag Communications. AgBusi/Adv Ag Busi, Web Mastering, Accounting I, II, Bus Ownership/Mgt, Intro Bus/Bus Law, BCIS I & II, Admin Procedures, Bus Image & Multimedia, Digital Graphics, any college prep electives, Desktop Publishing Adv. Research and Design I, II, III,</p>
 <p>14 Marketing, Sales & Service</p>	<p>Planning, managing, and performing marketing activities to reach organizational objectives</p>	<p>Accounting I, II, Bus Ownership/Mgt, Intro Bus/Bus Law, BCIS I & II, Admin Procedures, Bus Image & Multimedia, Digital Graphics, Web Mastering, any college prep electives, Desktop Publishing, advanced math and science courses</p>
 <p>15 Science, Technology, Engineering & Mathematics</p>	<p>Planning, managing, and providing scientific research and professional and technical services (e.g., physical science, social science, engineering) including laboratory and testing services, and research and development services.</p>	<p>Accounting I, II, Bus Ownership/Mgt, Intro Bus/Bus Law, BCIS I & II, Admin Procedures, Bus Image & Multimedia, Digital Graphics, Web Mastering, any college prep electives, upper level science and math courses, Adv. Research and Design I, II, III</p>
 <p>16 Transportation, Distribution & Logistics</p>	<p>Planning, management, and movement of people, materials, and goods by road, pipeline, air, rail and water and related professional and technical support services such as transportation infrastructure planning and management, logistics services, mobile equipment and facility maintenance.</p>	<p>Accounting I, II, Bus Ownership/Mgt, Intro Bus/Bus Law, BCIS I & II, Admin Procedures, Bus Image & Multimedia, Digital Graphics, Web Mastering, any college prep electives, Desktop Publishing, advanced math and science courses</p>

All courses taught at Tom Bean High School are taught based upon class size and availability of the instructor. Courses listed will provide a foundation and general information in choosing a career pathway. Job shadowing and research into the chosen career pathway will also provide more opportunities to explore the pathway that's right for each individual student's needs. For additional information, please visit www.achievetexas.org

Career and Technology Education

Career and Technology Education provides competency-based applied learning which contributes to academic knowledge, higher order thinking skills, problem solving skills, work attitudes, general employability skills, and occupationally-specific skills needed for success in the workplace or in post-secondary education. Various types of programs are offered: laboratory program classes, work based learning classes, internships, and a variety of courses centered on technology. In laboratory classes, the student learns both technical and practical occupational information in a one- or two-period class. In addition the student is enrolled in the required academic classes for his/her grade level. Programs are available to 9th through 12th grade students.

Texoma Tech-Prep

The Tom Bean Independent School District has a tech-prep articulation agreement with Grayson County College in the areas of computer aided drafting and health science technology. Other tech-prep articulation agreements in the areas of metals technology, business education, and computer technology are currently being discussed. Tech-Prep, or technical preparation, emphasizes rigorous technical training using principles taught in mathematics, science, English, and other academic subjects while enrolled in a coherent sequence of career and technology courses. Because tech-prep was developed with input and assistance from local business leaders and employers, students can attain a greater understanding of the work place while they are in high school. Students who complete a tech-prep plan can earn (articulated) college credit at the junior college while they are in high school. After high school graduation, students may be able to start college at an advanced level, saving time and college tuition cost as they pursue their careers and work toward associate degrees.

Current Tech-Prep designated courses through Grayson County College include:

Business Computer Information Systems 1

Business Computer Information Systems 2

Keyboarding/Intro to Secondary Technology Applications

Business Image Management & Multimedia

Desktop Publishing

Agricultural Mechanics

Accounting 1

Accounting II



Grayson County College Tech Program

Junior and Senior students have the opportunity to partnership with Grayson County College by entering certificate courses in Welding; Heating; Ventilation and Air Conditioning; and Cosmetology, as well as, other various Career and Technical courses. Seniors must be eligible for Early Dismissal as these classes are offered in the afternoon. Students are responsible for tuition and fees associated with the course. Students who are eligible for assistance with free/reduced lunch may qualify for free/reduced tuition rates. High school credit will be awarded after successful completion of the course. *For additional information regarding these courses, see the Tom Bean High School website at www.tombean-isd.org under the Dual Credit heading.

COMPUTER INFORMATION TECHNOLOGY

Any of the following courses may be taken to fulfill the 1.0 Technology Applications credit required for graduation. Courses taught are based on class enrollment and availability of the instructor.

Business Computer Information Systems I and II
Business Image Management and Multimedia
Computer Science I
Desktop Publishing
Digital Graphics and Animation
Telecommunications and Networking (Web Mastering I)
Desktop Computing/Advanced Journalism/Yearbook Prod

Tech Prep credit through Grayson County College may be earned for the following Computer Information Technology courses:

Business Computer Information Systems 1 and II
Introduction to Secondary Technology Applications (Keyboarding)
Business Image Management & Multimedia
Desktop Publishing

INTRODUCTION TO SECONDARY TECHNOLOGY APPLICATIONS (Keyboarding) (Tech Prep)

GRADES: 9-11 1 Year 1 Credit

PREREQUISITE: None

This course furthers the study of technology applications foundations, including technology-related terms, concepts, and data input strategies. Students will learn to make informed decisions about technologies and their applications through project-based activities. Project-based activities cover the following: Microsoft Office Applications, Windows Tools and Programs, Macromedia Introduction, Digital Video, and Digital Photography and Imagery.

BEGINNING BUSINESS COMPUTER INFORMATION SYSTEMS 1 (BCIS 1) (Tech Prep)

GRADES: 9-12 1 Year 1 Credit

PREREQUISITE: Keyboarding or ISTA

BCIS is a computer course designed to meet college, vocational, and personal needs. Upon completion of this course, students will be able to use word processing, spreadsheet, database, graphics, desktop publishing, and multimedia software for various business, educational, and personal applications. Students will exchange information via telecommunication technology.

ADVANCED BUSINESS COMPUTER INFORMATION SYSTEMS 2 (BCIS II) (Tech Prep)

GRADES: 10-12 1 Year 1 Credit

PREREQUISITE: BCIS 1

BCIS II applications include using workplace standard technology in telecommunications, desktop publishing, presentation management, and networking. Students complete the course with an advanced technical skill level in word processing, spreadsheets and database applications.

BUSINESS IMAGE MANAGEMENT AND MULTIMEDIA (Tech Prep)

GRADES: 10-12 1 Year 1 Credit

PREREQUISITE: BCIS I

This course is a hands-on introduction to the field of digital multimedia which integrates text, images, graphics, sound, video, and animation in an interactive computer/business environment. Students will explore multimedia concepts, terminology, tools, and production techniques and will include desktop publishing, image management (manipulating text, graphics and other electronic images), presentation skills, and web publishing. Students will be involved in project-based learning, which will include multimedia authoring, presentation skills, and web page development.

COMPUTER SCIENCE I

GRADES: 10-12 1 Year 1 Credit

PREREQUISITE: Completion of Algebra I, completion or concurrent enrollment in Geometry, completion of Keyboarding or ISTA, and recommendation of current math teacher.

Study of the beginning skills and concepts associated with Object Oriented Computer Programming. This course includes computer ethics, problem solving techniques, programming methodology, data types, data structures, and algorithms, objects, classes and methods using Object Oriented Programming. The programming language used for this class is Java.

DESKTOP PUBLISHING (Tech Prep)

GRADES: 10-12 1 Year 1 Credit

PREREQUISITE: Keyboarding or ISTA/ BCIS I

This course provides hands-on instruction in the creation of publication files and commercial graphics for both print and the web. Project-based learning will focus on the creation of typical office documents, marketing literature, books, newsletters, magazines, and package design. Other topics covered will include digital typography, style sheets, templates, layout grids and master page techniques, graphic design fundamentals, image processing effects, overprinting, trapping and color palette systems, and common desktop publishing issues.

DIGITAL GRAPHICS AND ANIMATION

GRADES: 10-12 1 Year 1 Credit

PREREQUISITE: BCIS I

Graphics students will receive in-depth, hands-on instruction in digital image editing, illustration, motion graphics, and animation in the production of commercial graphics for both print and the web. Project-based learning will cover topics such as typographic effects, creation of vector and bitmap graphics, digital imaging and scanning, advanced filter techniques, masking and compositing. Students will focus on the elements of digital design and color theory, along with file formatting and optimization.

TELECOMMUNICATIONS AND NETWORKING (WEB MASTERING I)

GRADES: 11 -12 1 Year 1 Credit

PREREQUISITE: BCIS I and instructor recommendation

This course is designed to provide the necessary skills, concepts, and techniques for developing, editing, and maintaining web pages and web sites through the use of Hypertext Markup Language (HTML) and web editing software such as Dreamweaver, along with an introduction to advanced skills in CSS and Java scripting. Students will also examine the characteristics of effective web site design, basic photo editing techniques, integrating both graphics and animation, and incorporating these elements in their web sites. Students will be involved in project-based learning with a focus on the creation of web pages, integrating graphics and multimedia elements suitable for course work, professional purposes, and personal use.

AGRICULTURAL SCIENCE

Are you interested in wildlife, animals, parks, or forestry? Are you curious about the physical world and concerned about the environment? Do you like physical activity? Do you like to observe, learn, investigate, or solve problems? If you answered "yes" to most of these questions, this may be the career path for you!

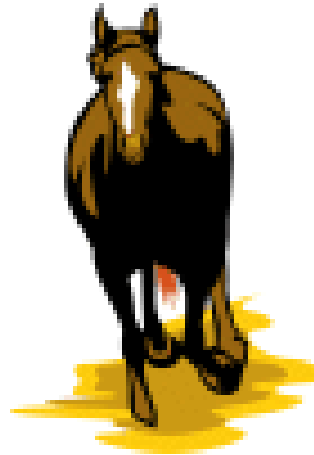
Description:

Careers in this pathway involve producing, conserving, regulating, and insuring that the basic raw materials for food, shelter, and comfort are the best products available for the consumer's use.

College Majors:

- Oceanography
- Agricultural/Food Products Processing

- Agronomy
- Dairy Science
- Food Science and Technology
- Forest Products Technology
- Forestry Sciences
- Agricultural Engineering
- Biophysics
- Botany
- Biological Technology
- Agricultural Education
- Agricultural Business and Management
- Breeding and Genetics
- Equestrian/Equine Studies
- Farm and Ranch Management
- Environmental Science
- Wildlife and Wild Lands Management
- Natural Resources Management
- Ecology
- Entomology
- Horticulture/Ornamental Horticulture
- Landscape Architecture
- Agricultural Economics
- Agricultural Journalism
- Farm Worker
- Forestry Worker
- Nursery Worker
- Florist
- Gardener and Grounds Keeper
- Farm Equipment Mechanic
- Farmer / Farm Manager



Career Opportunities by Educational Level: High School Diploma/On-the-Job Training

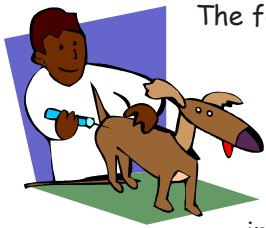
- Fisher / Hunter / Trapper
- Lumber Production Worker
- Florist Sales Clerk
- Greenhouse Keeper
- Landscape Maintenance Worker
- Nursery Salesperson
- Arborist
- Floral Designer
- Florist
- Interior Plantscaper
- Irrigation Technician
- Pest Management Technician
- Safety / Sanitation Technician
- Poultry Hatchery Supervisor
- Agriculture Consumer Information Specialist

Junior/Technical/Community College or Apprenticeship

Crop Protection / Production Specialist
Agriculture Technician - Textile
Technical Sales Representative
Quality Control Technician
Food Processing Technician
Landscape Contractor
Farm Equipment Mechanic

Bachelors / Masters / Doctorate Degrees

Biological Scientist
Vegetable Producer
Conservation Scientist
Horticulturist
Orchard Manager
Biomedical Engineer
Coop Extension Service
Landscape Architect
Hazardous Material Coordinator
Agri science Teacher



The following courses will support your interest in this career path.

INTRO TO WORLD AGRICULTURAL SCIENCE AND TECHNOLOGY (AG 101)

GRADE: 9-10 Fall Semester $\frac{1}{2}$ credit

Prerequisite: None

A basic course designed to provide an introduction to global agriculture. The course includes instructional units in agricultural career development, leadership, communications, personal finance, and mechanized agriculture.

APPLIED AG SCIENCE AND TECHNOLOGY APPLICATIONS (AG 102)

Grade Placement: 9-10 Spring Semester $\frac{1}{2}$ Credit

Recommended Prerequisite: None

A basic course designed to enhance the agricultural comprehension in agricultural science. The course includes soils, plants, animals, agricultural construction, food science, supervised agricultural experience programs, and leadership.

FLORAL DESIGN & INTERIOR LANDSCAPE DEVELOPMENT (AG 363)

GRADE: 10-12 Fall Semester $\frac{1}{2}$ Credit

Prerequisite: None

A course designed to develop skills in the design and arrangement of flowers, foliage, and related plant materials for interior locations.

ADVANCED FLORAL DESIGN (AG 365)

Grade: 10-12 1 Semester $\frac{1}{2}$ Credit

Prerequisite: Floral Design and Interior Landscape Development

A course designed to examine floral design in relation to contemporary designs, business practices, specialty items, creativity, and careers in the floral industry.

WILDLIFE AND RECREATION MANAGEMENT (AG 381)**GRADE: 10-12 Fall Semester $\frac{1}{2}$ Credit**

Prerequisite: None

A course designed to examine the importance of wildlife and outdoor recreation with emphasis on using wildlife and natural resources.

INTRODUCTION TO AGRICULTURAL MECHANICS (AG 221) (Tech Prep)**GRADE: 10-12 Fall Semester $\frac{1}{2}$ Credit**

Prerequisite: None

A course designed to introduce basic theory and specialized skills in agricultural mechanics. Skills to be developed include tool identification and safe use, carpentry, electricity, plumbing, masonry, fencing, painting, metal working, and welding processes.

Agricultural Metal Fabrication Technology (AG 322)Grade Placement: 10-12 Credit: $\frac{1}{2}$ Recommended Prerequisite: Intro. to Ag Mechanics and Home Maintenance

A course designed to develop skills in metal equipment assembly and joining processes.

AGRICULTURAL MECHANICS I (AG 422) (Tech Prep)**GRADE: 11-12 Fall Semester $\frac{1}{2}$ Credit**

Prerequisite: Intro to Ag Mechanics (AG 221)

A laboratory-oriented course designed to introduce the scientific principles, concepts, and skill development necessary in agricultural mechanics. The course emphasizes soil and water conservation, electrification, concrete and masonry construction, building planning and construction, small engine and agricultural equipment maintenance and repair, and oxy fuel and electric cutting and welding. Instruction will include information on career opportunities, leadership activities, and record keeping practices related to the industry.

AGRICULTURAL POWER & TECHNOLOGY (AG 323)**GRADE: 10-12 Fall Semester $\frac{1}{2}$ Credit**

Prerequisite: None

A course designed to develop skills in selection, operation, and maintenance of small air-cooled engines, multi-cylinder engines, hydraulic motors, electric motors, and agricultural machinery and tractors. Also includes designing and building projects out of metal.

FRUIT, NUT & VEGETABLE PRODUCTION (AG 364)**GRADES: 10-12 Spring Semester $\frac{1}{2}$ Credit**

Prerequisite: None

This technical course prepares students to develop and maintain enterprises concerned with the production of fruit, nuts, and vegetables

ANIMAL SCIENCE (AG 332)**GRADE: 10-12 Spring Semester $\frac{1}{2}$ Credit**

Prerequisite: None

Students will develop knowledge and skills pertaining to the selection, nutrition, reproduction, health, and management of livestock.

HOME MAINTENANCE AND IMPROVEMENT (AG 222)**GRADE: 10-12 Spring Semester $\frac{1}{2}$ Credit**

Prerequisite: None

A course designed to develop the skills and knowledge needed to improve and maintain the urban or rural home and adjacent buildings, including the analysis of repair needs and use of approved safety techniques.

AGRICULTURAL MECHANICS II (AG 422) (Tech Prep)

GRADE: 11-12 Fall and Spring Semester 1 Credit

Prerequisite: Ag Mechanics I

A laboratory-oriented course designed to introduce the scientific principles, concepts, and skill development necessary in agricultural mechanics. The course emphasizes soil and water conservation, electrification, concrete and masonry construction, building planning and construction, small engine and agricultural equipment maintenance and repair, and oxy fuel and electric cutting and welding industry.

AGRICULTURAL STRUCTURES TECHNOLOGY (AG 321)

GRADE: 9-12 Spring Semester $\frac{1}{2}$ Credit

Prerequisite: None

A course designed to develop skills in the maintenance, evaluation, design, and building of agricultural structures using approved construction techniques.

Wildlife and Recreation Management

Grade: 10-12 1 semester $\frac{1}{2}$ Credit

A course designed to examine the importance of wildlife and outdoor recreation with emphasis on using wildlife and natural resources. Students may earn Hunter's Safety and Boater's Education Certifications. Fees to the State of Texas for certification may apply.

Equine Science

Grade: 10-12 1 semester $\frac{1}{2}$ Credit

A course designed to develop knowledge and skills pertaining to the selection, nutrition, reproduction, health, and management of horses.

BUSINESS EDUCATION AND TECHNOLOGY

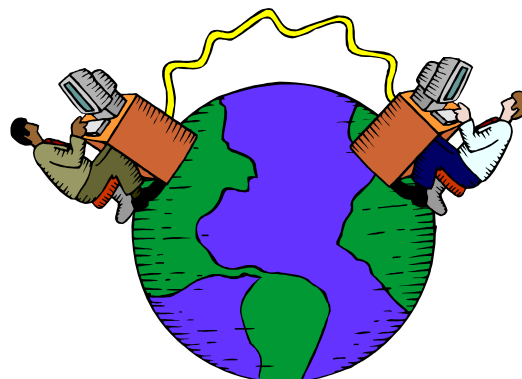
Do you enjoy working with computers and technology? Do you enjoy carrying through with an idea and seeing a project through to the end? Do you like working with technical information and data? Do you enjoy learning new software and technology? If the answer to these questions is "yes," this may be the career path for you!

Description:

Careers in Business Education and Technology are involved in computer operations specifically dealing with spreadsheet manipulation, high-level business application software, database management, and word processing.

College Majors:

- Accounting
- Business
- International Business
- Human Resources Management
- Management of Information Systems
- Computer Programming
- Computer & Information Science
- Data Processing
- Mass Communications
- Public Relations
- Technical and Business Writing
- Actuarial Science
- Advertising
- Computer Typography and Composition
- International Finance



- Management
- Mathematical Statistics
- Operations Management
- Court Reporting
- Information Systems and Sciences
- Insurance and Risk Management
- Real Estate
- Marketing
- Small Business

Administration

Administrative Assistant

Computer Operator

Data Entry Clerk

Information Assistant

Word Processor

Career Opportunities by Educational Level: High School Diploma/On-the-Job Training

Application Specialist

Computer Graphics Artist

LAN Representative

Paralegal Management

Stockbroker

Telecommunications Specialist

Records Management Analyst

Office Automation Specialist

Junior/Technical/Community College or Apprenticeship

Actuary

Educational Administrator

Budget Analyst

General Manager

Purchasing Agent

Underwriter

Computer Programmer

Underwriter

Financial Manager

Director of Administrative Services

Telecommunications Manager

Bachelors / Masters / Doctorate Degrees

Assistant Analyst

Computer Programmer

Desktop Publisher

Technical Support Analyst

Information Systems Specialist

Application System Analyst

Database Administrator

Legal Assistant

Project Director

System Programmer

Information Technology Specialist

Manager, Computer Operations

Information Systems Analyst

Court Reporter
Applications Programmer
CPA
Public Administrator
Stockbroker
Systems Analyst
Technical Writer
Software Programmer

The following courses will support your interest in this career path. contracts, starting a business, wills and probate procedures. Students will participate in a mock trial.

INTRODUCTION TO BUSINESS

Grades : 9-12 Fall Semester $\frac{1}{2}$ Credit

Prerequisite : None

Introduction to Business is an introductory course to the world of business. Students learn how business and the economy interact. They are introduced to different types of businesses and forms of ownership, management styles, and the different areas of management, such as human resource management, production management, and marketing.

RECORDKEEPING

Grades 9-12 Spring Semester $\frac{1}{2}$ Credit

Prerequisite : May not have received credit in Accounting I or concurrently enrolled in Accounting I

Develops understanding of and skill in maintaining accurate records; includes skills used in everyday business activities, both for personal and professional use; provides an opportunity to develop skills related to personal financial management as well as budgeting, financial planning, cashier's records, handling of money, and tasks common to simple office practices.

Tech Prep credit through Grayson County College may be earned for the following Business Education courses: Accounting 1 and Accounting II

ACCOUNTING I (Tech Prep)

Grades: 9-12 1 Year 1 Credit

Prerequisite : None

Accounting provides an understanding of sole proprietorships. Students learn to manage personal records and to keep a simple set of books. Emphasis is placed on recording and interpreting financial papers. The course includes an introduction to accounting, beginning principles, terminology, books of account, business forms, income tax and payroll deductions, depreciation and debt, trial balance, balance sheets and statements.

ACCOUNTING II (Tech Prep)

Grades : 10-12 1 Year 1 Credit

Prerequisite : Accounting I

In Accounting II, students will apply the basic accounting concepts to perform advanced accounting procedures. Accounting knowledge will be used to make business decisions, and students will research career opportunities in accounting.

HEALTH SCIENCE TECHNOLOGY

Do you like to care for people or animals who are sick or help them stay well? Are you interested in health, diseases, and how the body works? Can you pay attention to detail? Are you conscientious, dependable, punctual, and have a solid background in science and math? If you answered "yes" to these questions, this may be the career path for you!

Description:

Careers in this pathway are involved in providing medical research, medical care, and emergency services for people and animals.

College Majors:

- Occupational Therapy
- Physical Therapy
- Adapted Physical Therapy
- Recreation
- Medicine & Pre-Medicine
- Bioengineering
- Biomedical Engineering
- Biophysics
- Molecular Biology
- Biological Technology
- Medical Laboratory Technician
- Dentistry & Pre Dentistry
- Dietetics / Human Nutrition
- Foods and Nutrition Science
- Institutional Food Administration
- Public Health
- Nursing (Registered Nurse)
- Diagnostic Medical Stenography
- Gerontology
- Laser and Optical Technology
- Optician / Optometry
- Pharmacy
- Pharmacology
- Speech Therapy
- Sports Medicine
- Veterinary Medicine
- Podiatry
- Ambulance Attendant
- Dialysis Technician
- Ultrasound Technician
- Dental Lab Technician
- Medical Assistant
- Electroencephalographic Technician

**Career Opportunities by Educational Level: High School Diploma/On-the-Job Training**

- Clinical Lab Technologist
- Medical Record Technician
- Occupational Therapist
- Physical Therapy Assistant
- Surgical Technologist
- Dental Assistant
- Medical Assistant
- Radiological Therapist
- Ultrasound Technician
- Home Health Aid
- Medical Coding Specialist
- Medical Lab Technician

Radiology Technologist
Electroencephalographic Technician
Occupational Therapy Assistant

Junior/Technical/Community College or Apprenticeship

Activities Therapist
Biomedical Engineer
Clinical Lab Technician
Dietitian and Nutritionist
Nuclear Medicine
Nurse, Registered
Optometrist
Laboratory Analyst
Pharmacist
Physician
Podiatrist
Speech Pathology
Audiologist

Bachelors / Masters / Doctorate Degrees

Electrocardiograph Technician
Dental Assistant
Home Health Aid
Animal Caretaker
Emergency Medical Technician
Veterinary Laboratory Technician
Nuclear Medicine Technologist
Biomedical Equipment Technician
Dental Laboratory Technician
Emergency Medical Tech
Nurse, LPN
Optician
Recreational Therapist
Veterinary Lab Technician
Dental Lab Technician
Nurse, Registered
Respiratory Therapist
Medical Lab Technician
Diagnostic Image Specialist
Cardiac Technician (EKC)
Industrial Hygienist
Veterinarian
Anesthesiologist
Chiropractor
Dentist
Health Administrator
Nurse Anesthetist
Occupational Therapist
Orthotist and Prosthetist
Physician's Assistant
Psychiatrist

Recreational Therapist
Physician / Surgeon

The following courses will support your interest in this career path.

ANATOMY & PHYSIOLOGY OF HUMAN SYSTEMS

Grade : 11-12 1 Year 1 Credit

Prerequisite : Biology, Chemistry

This course is designed for those students interested in the nursing and related fields. This course is also classified as a science credit. This will be an intensive course that will give the student a basic understanding in the following biological topics: the structure, function, characteristics and location of epithelial, connective, muscular and nervous tissue; the integumentary system and how it functions in temperature control; the digestive system and the manner in which nutrients are broken down and absorbed; the circulatory system and how gases are exchanged; the excretory system and the manner in which the blood is cleansed; the nervous system and how organisms interact with the environment; the sense organs and how sight and hearing occur; the skeletal system and how the parts function to allow body movement; the reproductive system; the lymphatic system and how it provides immunity; and how the endocrine system and how hormones are involved in control of the body.

EDUCATION AND TRAINING/ HUMAN SERVICES/HOSPITALITY AND TOURISM

Do you have good interpersonal skills? Do you enjoy helping others? Do you enjoy working with a variety of people? Do you believe that it is important for individuals to provide services and support for others? If the answer to these questions is "yes," then this may be the career path for you!

Description:

Careers in this pathway empower individuals and families across the life span to manage the challenges of living and working in a diverse, global society. The relationship between work and family is our unique focus.

College Majors:

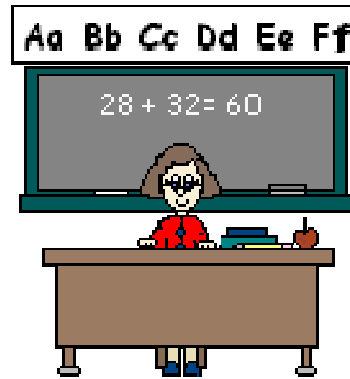
- Hotel and Restaurant Management
- Child Growth, Care and Development
- Family Life and Relations Studies
- Human Resources Management
- Travel and Tourism
- Counseling and Guidance
- Sociology
- Cultural Studies
- Religious Education
- Psychology
- Urban Studies
- Economics
- Vocational Rehabilitation

Counselor

- Public Administration
- Community Organization and Services
- Social Work
- Law
- International Relations
- Political Science
- Business
- Public Relations



- Parks / Recreation / Leisure Management
- Adult Day Care Aide
- Elder Care Aide
- Preschool Aide
- Interior Design Aide
- Color Consultant
- Dietary Aide
- Test Kitchen Food Sampler
- Waitress
- Furnishing, Sales Associate
- Counter Attendant
- Fashion Design Aide
- Front Desk Agent
- Host / Hostess / Greeter
- Pastry Cook
- Reservations Agent
- Alterations Specialist



Career Opportunities by Educational Level: High School Diploma/On-the-Job Training

- Adult Day Care Director
- Director of Home Care
- Preschool Teacher
- Social Services Aide
- Head Start Teacher
- Dietetic Technician
- Baker / Chef / Cook
- Housekeeping Manager
- Sales Representative
- Consumer News writer
- Fashion Illustrator
- Food and Drug Assistant Inspector



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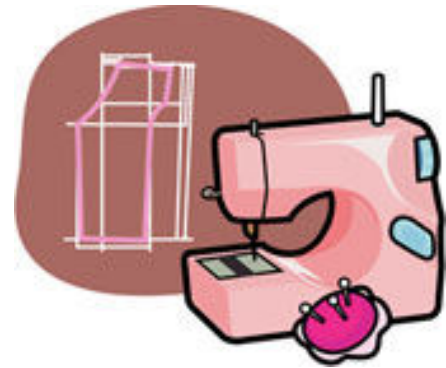
Junior/Technical/Community College or Apprenticeship

- Preschool Director
- Child Psychologist
- Pediatrician
- Teacher
- Child Protective Services
- Family Counselor
- Gerontologist
- Marriage and Family Therapist

Bachelors / Masters / Doctorate Degrees

- Residential Care Aide
- Family Aide
- Family Child Care Aide
- Teacher Aide
- Food Lab Aide
- Food Product Testing Aide
- Quality Control Aide

Product Demonstrator
 Checker / Inspector
 Dining Room Attendant
 Draper
 Guest Services Agent
 Fabrics / Acc. Estimator
 PBX Operator
 Secretary
 Food Production Chemist Assistant
 Leisure Services Associate
 Hospice Case Manager
 Special Ed Aide
 Certified Nanny
 Food Technician
 Concierge
 Bell Captain
 Reservations Supervisor
 Social Director
 Assistant Designer
 Food Scientist
 Clinical Dietitian
 Food and Drug Inspector
 Food Production Chemist
 Convention Coordinator
 Executive Chef
 Exposition Manager
 General Manager
 Lodging Manager
 Nutritionist
 Public Relations Director
 Financial Planner
 Consumer Advocate/ Product Researcher
 Extension Home Economist
 Consumer Education Director
 Fashion Designer /Fashion Buyer
 Fashion Journalist
 Costumer
 Fashion Merchandising
 Interior Designer
 Set Designer/ Lighting Designer
 Facility Manager



The following courses will support your interest in this career path.

PERSONAL AND FAMILY DEVELOPMENT

Grades : 9-12 1 Year 1 Credit

Prerequisite : None

This laboratory course covers all department curriculum areas. Topics covered include personal development, clothing selection and repair, money management, personal and family wellness, nutrition, housing, child development, and career development. Leadership skills are also addressed. Students will need to purchase their own small equipment and supplies for various projects.

APPAREL

Grades : 10-12 1 Semester $\frac{1}{2}$ Credit

Prerequisite : None

This course focuses on apparel. Topics include managing the apparel dollar, clothing construction, apparel repair and alteration, and wardrobe planning, care, and maintenance. Students will need to purchase their own small equipment and supplies for their clothing project.

NUTRITION AND FOOD SCIENCE

Grades : 10-12 1 Semester $\frac{1}{2}$ Credit

Prerequisite : None

This laboratory course concentrates on nutrition, food choices, manners, healthy cooking styles and food management skills for individuals and the family throughout the life cycle.



CHILD DEVELOPMENT

Grades: 10-12 1 Semester $\frac{1}{2}$ Credit

Prerequisite : None

This technical laboratory course is designed to focus on knowledge and skills related to the development, care, guidance, and protection of children. Students will be required to purchase supplies for various projects.



INDIVIDUAL AND FAMILY LIFE

Grades: 10-12 1 Semester $\frac{1}{2}$ Credit

Prerequisite : None

This course addresses personal identity, responsibilities of living as an independent adult, relationship development outside the family, roles of individuals and family members, and factors related to marital success.

INTERIOR DESIGN

Grades : 10-12 1 Semester $\frac{1}{2}$ Credit

Prerequisite : None

This technical laboratory course focuses on the design of residential and nonresidential interior environments to achieve occupant well-being and productivity. Content addresses design practices and influences, lighting, materials, furnishings, legal considerations, and the impact of technology on interiors. Students will be required to purchase supplies for various projects.

FOOD SCIENCE AND TECHNOLOGY

Grades : 10-12 1 Semester $\frac{1}{2}$ Credit

Prerequisite : None

This laboratory course provides content which addresses food science principles; nutrition and wellness; technology; world food supply; and career options among other topics.

PREPARATION FOR PARENTING

Grades : 10-12 1 Semester $\frac{1}{2}$ Credit

Prerequisite : None

This technical laboratory course is designed to develop knowledge and skills in preparation to function effectively in the role of parent or caregiver. NOTE: Students enrolled in any of the Family and Consumer Science classes are encouraged to join Family, Career and Community Leaders of America (FCCLA).

***Upon successful completion of Food Safety & Sanitation test offered in these classes, students may pay a small fee to the Texas Department of Health to obtain their Food Handlers Permit.*

SCIENCE, TECHNOLOGY, ENGINEERING, AND MATHEMATICS

Can you apply mathematics and science concepts? Do you want to be an engineer? Do you like to work with your hands? Do you like to work with people and things? Do you enjoy problem solving and creative thinking? Are you curious about how things work? Do you like to repair or make things? If the answer to these questions is "yes," then this may be the career path for you!

College Majors:

- Architectural Engineering
- Civil Engineering
- Aerospace Engineering
- Metallurgy
- Machine Tool / Shop Operations
- Textile Sciences & Engineering
- Computer Engineering
- Mechanical Engineering
- Industrial Engineering
- Architecture

CNC Machine Operator

Computer Installer

Computer Repair Technician

Software Support Technician

Welder & Cutter

Inspector / Grade / Tester

Assembler

Construction Worker

Drafting Trainee



Career Opportunities by Educational Level: High School Diploma/On-the-Job Training

Technologist

Systems Analyst

Supervisor, Construction

CAD Drafter

Network Administrator

Computer Programmer

Machinist

System Operator

Junior/Technical/Community College or Apprenticeship

Applications Programmer

Data Base Programmer

Management Trainee

Network Administrator

System Analyst

Computer Engineer

Industrial Engineer

Architect

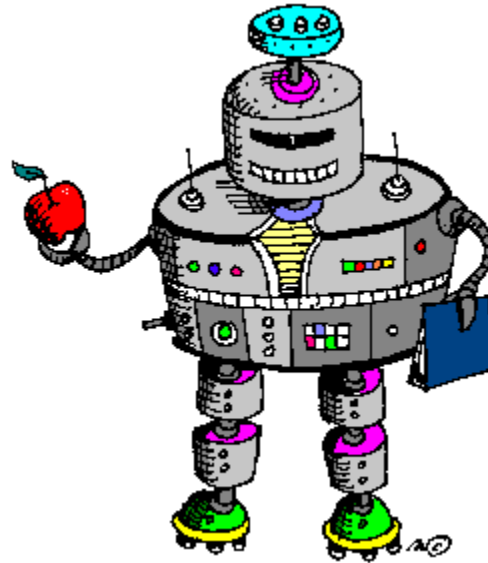
Landscape Architect

Production Coordinator

Bachelors / Masters / Doctorate Degrees

Drafting Technician

Drafter
Metal / Plastics Machine Operator
Sheet Metal Worker
Structural Steel Worker
Packer
Operating Engineer
Engineering Technician
Robotics Technician
Cost Estimator
Tool & Die Maker
Quality Control Technician
Computer Operator
Drafting Designer
Mechanical Technician
Computer Engineer
Inventor
Manufacturers Rep
System Administrator
System Engineer
Mechanical Engineer
Civil Engineer
Graphics Designer
Budget Analyst
Sales Engineer



The following courses will support your interest in this career path.

DIVERSIFIED CAREER PREPARATION I (CO-OP)

GRADES: 11-12 1 Year 3 Credits

PREREQUISITE: Application and Instructor approval-must have job

This course provides classroom technical instruction and on-the-job training experiences. Job specific skilled training is provided by local training sponsors in areas compatible with identified career goals in trade and industrial areas. In class, the students will study topics related to job skills, employment skills, life skills, safety, leadership training, and career opportunities.

SCIENTIFIC RESEARCH AND DESIGN I, II, III

GRADES 10-12 1 Year 1 Credit:

Prerequisite: Teacher approval

Research and Design uses a competition format to teach scientific method and engineering design. In the fall students enrolled in this course prepare for the B.E.S.T. competition by designing and building a robot that can complete specified tasks. The tasks change from year to year and students may take this course more than once. Students use a variety of power tools to build the robot and must document their work with an array of computer skills including, but not limited to, Word, Power Point, HTML, and CAD. Grades are project based. **Students taking this course should expect to attend 3 Saturday competition dates and 3 after school shop periods a week during the B.E.S.T. competition.**

KNOW YOURSELF

To make wise choices, you also will need to understand yourself and your goals for the future. It is important, therefore, to take time to learn more about yourself. Here are some questions to consider which can help you understand yourself better.

Ask yourself these questions and others of this kind. Do not be upset if you have trouble answering some of them. As you get older, your ideas and goals will become clearer. Talking with your counselor, parents, teachers, and friends can help you get a clearer picture of yourself. Ask your counselor to discuss this information with you. It will also be especially helpful to think about your answers to these questions and then to consider answers to the questions at the beginning of each specific Career Pathway in the earlier sections of the book.

My Abilities

In which subjects do I do well in school? _____

What do I do well outside of school? _____

Which talents do I have? (Play a musical instrument, sing, paint, dance, act, write or other talents)

Which sport or sports do I play well? _____

My Interests

Which subjects are most interesting to me in school? _____

Which activities are most interesting to me in school? _____

Which activities are most interesting to me outside of school? _____

What are my hobbies? _____

My Attitudes

What is important to me in my life? _____

Which people are important to me? _____

Which activities are important to me? _____

Which possessions are important to me? _____

My Likes

Which subjects do I like in school? _____

Which activities do I like in school? _____

Which activities do I like outside of school? _____

Do I like to be with other people much of the time? _____

Do I like to be alone much of the time? _____

Do I enjoy working with my hands? _____

Do I enjoy working in a group? _____

Do I enjoy reading? _____

My Goals

What do I want to accomplish in high school? _____

What might I want to do after high school? _____

HELPFUL HINTS FOR CAREER PLANNING

Tom Bean High School offers some career programs that are a combination of classroom courses and work experience. If you plan to participate in one of the work-based learning career programs, the following steps will help you to present yourself to prospective employers in a professional way. These steps can also be helpful if you simply plan to work part-time during high school.

- Select several career areas.
- Locate sources of job information in these areas.
- Take a personal inventory.
- Make a job-skill inventory.
- Match job skills required with your abilities and interests.
- Use the aptitude and career assessment software available in the school library or career center.
- Check Internet career sites.
- Plan your school program to prepare you for your chosen career. (A student, parent/guardian, guidance counselor conference is encouraged.)
- Check the Career and Technical Education program offerings at your school and at the Career Center.
- Practice filling out applications for employment, writing letters of application, and preparing a resume.
- Make an appointment for an interview.
- Prepare yourself for the interview: (a) read information on job interview techniques; (b) find out all you can about the business or industry that is involved.
- Select at least three people who know your qualifications and ask permission to use them as references. (Do not use relatives.)



Tom Bean High School

Career Resource Websites

These are just a few of the thousands of career websites that are available for you to utilize when exploring careers that match your interests and abilities. Please see Mrs. Royal if you need help with finding a career.

- *TBEC Achieve Texas Career Planning - <http://www.tbecachievetexas.com> -register with Mrs. Royal
- *Bureau of Labor Statistics - <http://www.stats.bls.gov/k12/index.htm>
- *The ASVAB Career Exploration Program - <http://www.asvabprogram.com/>
- *My Road Map for Success - <http://www.myroadmapforsuccess.org>
- *Career Cruising - <http://www.careercruising.com/default.asp> *username: graysoncc password: gocenter*
- *Achieve Texas (career pathways) - <http://www.achievetexas.org/>
- *Career Clusters (career pathways) - <http://www.careerclusters.org/>
- *Reality Check (budget calculator) - <http://www.cdr.state.tx.us/realitycheck/start.htm>
- *Career One Stop - <http://www.careeronestop.org/>
- *Military Careers - <http://www.todaymilitary.com/app/tm/careers>
- *Career Assessment Tools - http://www.quintcareers.com/career_assessment.html
- *I Believe In Me - <http://www.ibelieveinme.org/HtmlFormat.asp>
- *College For Texans - www.collegefortexans.com
- *Life After High School - <http://www.lifeafterhighschool.org/>
- *Career Web - <http://www.careerweb.com/>
- *Role Model Project for Girls - <http://womenswork.org/girls/careers.html>
- *America's Career Resource Network - <http://www.acrnetwork.org/students.aspx>
- *Careers - <http://www.careers.org/>
- *Career Interests Game - <http://career.missouri.edu/students/explore/thecareerinterestsgame.php>
- *What Can I Do With A Major In... - <http://www.uncw.edu/stuaff/career/Majors/index.htm>
- *Mapping Your Future - <http://www.mapping-your-future.org/>
- *Career Browser - <http://www.collegeboard.com/html/careerbrowser.html>
- *Keirseey Temperment Sorter - http://www.advisorteam.com/temperament_sorter/register.asp?partid=
- *COIN Career Library - <http://ojrhs.ojrds.com/guidance/index.aspx?page=868>
- *Information Regarding Specific Careers - <http://www.wisemantech.com/guidance/careerspecific.htm>
- *Career Builder - www.careerbuilder.com
- *College Match Maker- www.collegeboard.com - Each Tom Bean 10th, 11th and 12th grade student has *free* access to this site using the code from their PSAT results. Codes are good through graduation.
- *Texas Work Prep - <http://www.texasworkprep.com/courses.htm>
- *High School Graduation Planning- <http://www.cdr.state.tx.us/shared/highschoolgradplan.asp>
Create four year plans for students
- *Texas Workforce Commission (career planning) - http://workintexas.org/svcs/youthinit/youth_links.html

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