



COLLEGE STATION HIGH SCHOOL

## PRINCIPLES OF APPLIED ENGINEERING

“AT ITS HEART, ENGINEERING IS ABOUT USING SCIENCE TO FIND CREATIVE PRACTICAL SOLUTIONS. IT IS A NOBLE PROFESSION” QUEEN ELIZABETH II

## SYLLABUS

### COURSE OVERVIEW

THIS COURSE PROVIDES AN OVERVIEW OF THE VARIOUS FIELDS OF SCIENCE, TECHNOLOGY, ENGINEERING, AND MATHEMATICS AND THEIR INTERRELATIONSHIPS. STUDENTS WILL USE A VARIETY OF COMPUTER HARDWARE AND SOFTWARE APPLICATIONS TO COMPLETE ASSIGNMENTS AND PROJECTS.



### COURSE EXPECTATIONS

- BE ON-TIME, ON-TASK, & PREPARED TO LEARN EVERYDAY!
- KEEP ALL PERSONAL ELECTRONICS OUT OF THE WAY UNLESS TOLD TO USE.
  - BE RESPONSIBLE FOR YOUR OWN LEARNING.
- RESPECT THE TEACHER, CLASSROOM, & OTHER STUDENTS.
  - TRASH GOES IN THE TRASHCAN. #NOTYOURMAID

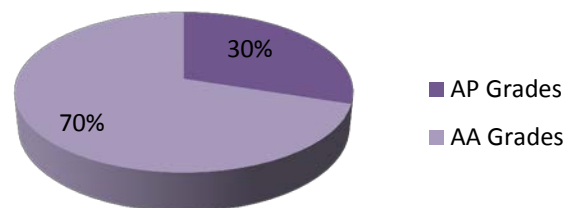
### GRADING SYSTEM

THE GRADING SYSTEM FOR THIS CLASS WILL FOLLOW THE COLLEGE STATION ISD GRADING GUIDELINES THAT CAN BE FOUND ON THE DISTRICT WEBSITE. THE WEIGHT OF EACH GRADE WILL BE DETERMINED BY THE FOLLOWING CATEGORIES:

**ACADEMIC PRACTICE (30%):** QUIZZES, PARTICIPATION, TUTORIALS

**ACADEMIC ACHIEVEMENT (70%):** TESTS, PROJECTS, PORTFOLIOS

### Grades for Each Six Weeks



### GRADING SYSTEM DETAILS

STUDENTS WILL UTILIZE THE INTERNET TO ACCESS DAILY AND WEEKLY ASSIGNMENTS THROUGH OUR CLASS WEBSITE. THEY WILL COMPLETE TUTORIALS BOTH ONLINE AND THROUGH OUR LOCAL NETWORK AND SUBMIT MOST OF THEIR WORK TO [WWW.TURAVITA.COM](http://WWW.TURAVITA.COM). ANY PRINTED ASSIGNMENTS MUST CONTAIN A TYPED HEADING IN THE UPPER LEFT HAND CORNER OF THE PAGE AND BE PLACED IN THE CLASS TRAY AT THE FRONT OF THE ROOM.

**TUTORIALS:** STUDENTS WILL BE EXPECTED TO COMPLETE ALL IN-CLASS TUTORIALS BY THEIR DUE DATE.

**QUIZZES:** PRACTICE QUIZZES ARE UNANNOUNCED AND CHECK FOR UNDERSTANDING OF THE CURRENT AND PREVIOUS SKILLS THAT HAVE BEEN COVERED.

**TESTS:** ARE USUALLY GIVEN AT THE END OF EACH MAJOR UNIT TO TEST FOR ACQUIRED KNOWLEDGE OF THE COVERED SOFTWARE PROGRAM AND INCLUDED SKILLS.

**PROJECTS:** THESE ARE GENERALLY LONG TERM ASSIGNMENTS THAT ALLOW THE STUDENT TO SHOW MASTERY OF A COMBINATION OF SKILLS USING MULTIPLE PROGRAMS AND SKILLS.

# LATE WORK POLICY

ALL WORK IS DUE ON ASSIGNED DATE. ANY LATE WORK IS TO BE TURNED IN AS SOON AS COMPLETED AND WILL RECEIVE THE FOLLOWING DEDUCTIONS:

10 POINTS / DAY FOR 5 DAYS

AFTER 5 DAYS = ZERO

NOTE: EXTRACURRICULAR ACTIVITIES ARE NOT A VALID EXCUSE FOR FAILING TO TURN IN ASSIGNMENTS ON TIME!

EXCEPTION: IF YOU ARE ABSENT, YOU WILL BE GIVEN EXTRA TIME (A DAY FOR A DAY) TO COMPLETE THE ASSIGNMENT.

EXCEPTION: I RESERVE THE RIGHT TO GRANT CLEMENCY IF YOU PROVIDE ME WITH A REASONABLE EXCUSE.

## CONTACT INFORMATION

JILL CONLIN

JCONLIN@CSISD.ORG

979-694-5800

REMIND - TEXT @PRINCENG TO 81010

WEBSITE

[WWW.JCONLIN.WEEBLY.COM](http://WWW.JCONLIN.WEEBLY.COM)



I WILL BE AVAILABLE FOR CONFERENCES DURING 5TH PERIOD (1:10-2:00 PM). EMAIL IS THE BEST WAY TO CONTACT ME BUT PLEASE FEEL FREE TO CALL IF YOU WOULD LIKE TO SCHEDULE AN APPOINTMENT OR CONFERENCE.

## MATERIALS

## TENTATIVE CALENDAR

- DESIGN PROCESS
- TECHNICAL SKETCHING AND DRAWING
- ENGINEERING DOC. & DRAWING STANDARDS
- MEASUREMENT AND STATISTICAL ANALYSIS
- APPLIED GEOMETRY
- 3D CAD SOLID MODELING
- REVERSE ENGINEERING
- PRODUCT DESIGN
- ENGINEERING ETHICS
- PRESENTATION DESIGN AND DELIVERY

- ENGINEERING NOTEBOOK (BOUND, NO SPIRAL) 4X4 QUAD RULE
- PENCIL, NO PEN PLEASE
- ERASERS (USED OCCASIONALLY)



### PUBLIC NOTIFICATION OF NONDISCRIMINATION IN CAREER AND TECHNOLOGY EDUCATION PROGRAMS

COLLEGE STATION INDEPENDENT SCHOOL DISTRICT OFFERS CAREER AND TECHNOLOGY EDUCATION PROGRAMS IN 13 OF THE 16 NATIONALLY RECOGNIZED CLUSTERS INCLUDING BUT NOT LIMITED TO: AGRICULTURE SCIENCE; ARCHITECTURE & CONSTRUCTION; ARTS; AV TECHNOLOGY & COMMUNICATIONS; BUSINESS, MARKETING, & FINANCE; EDUCATION; HEALTH SCIENCES; HUMAN SERVICES; HOSPITALITY SERVICES (CULINARY); INFORMATION TECHNOLOGY; LAW & PUBLIC SAFETY; AND SCIENCE, TECHNOLOGY AND ENGINEERING. ADMISSION TO THESE PROGRAMS IS BASED ON AGE/GRADE-LEVEL, SPACE AVAILABILITY, AND COMPLETION OF IDENTIFIED PREREQUISITES.

IT IS THE POLICY OF COLLEGE STATION INDEPENDENT SCHOOL DISTRICT NOT TO DISCRIMINATE ON THE BASIS OF RACE, COLOR, NATIONAL ORIGIN, SEX OR HANDICAP IN ITS VOCATIONAL PROGRAMS, SERVICES OR ACTIVITIES AS REQUIRED BY TITLE VI OF THE CIVIL RIGHTS ACT OF 1964, AS AMENDED; TITLE IX OF THE EDUCATION AMENDMENTS OF 1972; AND SECTION 504 OF THE REHABILITATION ACT OF 1973, AS AMENDED.

IT IS THE POLICY OF COLLEGE STATION INDEPENDENT SCHOOL DISTRICT NOT TO DISCRIMINATE ON THE BASIS OF RACE, COLOR, NATIONAL ORIGIN, SEX, HANDICAP, OR AGE IN ITS EMPLOYMENT PRACTICES AS REQUIRED BY TITLE VI OF THE CIVIL RIGHTS ACT OF 1964, AS AMENDED; TITLE IX OF THE EDUCATION AMENDMENTS OF 1972; THE AGE DISCRIMINATION ACT OF 1975, AS AMENDED; AND SECTION 504 OF THE REHABILITATION ACT OF 1973, AS AMENDED.

COLLEGE STATION INDEPENDENT SCHOOL DISTRICT WILL TAKE STEPS TO ASSURE THAT LACK OF ENGLISH LANGUAGE SKILLS WILL NOT BE A BARRIER TO ADMISSION AND PARTICIPATION IN ALL EDUCATIONAL AND VOCATIONAL PROGRAMS.

FOR INFORMATION ABOUT YOUR RIGHTS OR GRIEVANCE PROCEDURES, CONTACT THE TITLE IX COORDINATOR, GUYAN WALKER, AT 1812 WELSH, COLLEGE STATION, TEXAS 77840, (792) 764-5411, AND/OR THE SECTION 504 COORDINATOR, MOLLEY PERRY, AT 1812 WELSH, COLLEGE STATION, TEXAS 77840, (792) 764-5423.

### NOTIFICACIÓN PÚBLICA DE PRÁCTICAS NO-DISCRIMINATORIAS EN CARRERAS Y EN PROGRAMAS DE EDUCACIÓN TECNOLÓGICA

COLLEGE STATION INDEPENDENT SCHOOL DISTRICT OFERE PROGRAMAS DE CARRERA Y PROGRAMAS DE EDUCACIÓN DE TECNOLOGÍA EN 13 DE LOS 16 GRUPOS RECONOCIDOS NACIONALMENTE INCLUIDO PERO NO LIMITADOS A: CIENCIA DE AGRICULTURA; ARQUITECTURA Y CONSTRUCCIÓN; ARTES; TECNOLOGÍA DE AV Y COMUNICACIONES; NEGOCIO, FINANZAS Y MERCADOTECNIA; EDUCACIÓN; CIENCIA DE LA SALUD; SERVICIOS HUMANOS; SERVICIOS DE HOSPITALIDAD (CULINARIO); TECNOLOGÍA DE INFORMACIÓN, LEY Y SEGURIDAD PÚBLICA; Y CIENCIA, TECNOLOGÍA E INGENIERÍA. LA ADMISIÓN A ESTOS PROGRAMAS SE BASA EN LO SIGUIENTE: EDAD/NIVEL DE GRADO, DISPONIBILIDAD DEL ESPACIO, Y LA FINALIZACIÓN DE LOS PREREQUISITOS IDENTIFICADOS.

ES NORMA DE COLLEGE STATION INDEPENDENT SCHOOL DISTRICT NO DISCRIMINAR POR MOTIVOS DE RAZA, COLORES, ORIGEN DE NACIONALIDAD, SEXO O IMPEDIMIENTO, EN SUS PROGRAMAS, SERVICIOS O ACTIVIDADES VOCACIONALES, TAL COMO LO REQUIEREN EL TÍTULO VI DE LA LEY DE DERECHOS CIVILES DE 1964, SEGÚN ENMIENDA; EL TÍTULO IX DE LAS ENMIENDAS EN LA EDUCACIÓN, DE 1972, Y LA SECCIÓN 504 DE LA LEY DE REHABILITACIÓN DE 1973, SEGÚN ENMIENDA.

ES NORMA DE COLLEGE STATION INDEPENDENT SCHOOL DISTRICT NO DISCRIMINAR POR MOTIVOS DE RAZA, COLORES, ORIGEN DE NACIONALIDAD, SEXO, IMPEDIMIENTO O EDAD, EN SUS PROCEDIMIENTOS DE EMPLEO, TAL COMO LO REQUIEREN EL TÍTULO VI DE LA LEY DE DERECHOS CIVILES DE 1964, SEGÚN ENMIENDA; EL TÍTULO IX DE LAS ENMIENDAS EN LA EDUCACIÓN, DE 1972, LA LEY DE DISCRIMINACIÓN POR EDAD, DE REHABILITACIÓN DE 1973, SEGÚN ENMIENDA.

COLLEGE STATION INDEPENDENT SCHOOL DISTRICT TOMARÁ LAS MEDIDAS NECESARIAS PARA ASEGURAR QUE LA FALTA DE HABILIDAD EN EL USO DE LA LENGUA INGLESA NO SEA UN OBSTÁCULO PARA LA ADMISIÓN Y PARTICIPACIÓN EN TODOS LOS PROGRAMAS EDUCATIVOS Y VOCACIONALES.

PARA INFORMACIÓN SOBRE SUS DERECHOS O PROCEDIMIENTOS PARA QUEJAS, COMUNÍQUESE CON EL COORDINADOR DEL TÍTULO IX, GUYAN WALKER, EN 1812 WELSH, COLLEGE STATION, TEXAS 77840, 792-764-5411, Y/O EL COORDINADOR DE LA SECCIÓN 504, MOLLEY PERRY EN 1812 WELSH, COLLEGE STATION, TEXAS 77840, 792-764-5423.

