**Engineering Technology II Honors**

**Course Syllabus**

Instructor: Ms. Francis

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Engineering Technology II

Room: 2211 Annex

School phone: (336) 674-4300 ext. 1645

Learning Labs: Tuesday & Wednesday 8:00-8:45am

**Course Overview**

This course focuses on the nature and core concepts of technology, engineering, and design. Through engaging activities and hands-on project-based activities, students are introduced to the following concepts: elements and principles of design, basic engineering, problem solving, and teaming.

**Class Procedures**

Please become familiar with the Southeast Guilford student handbook: this handbook provides crucial information regarding tardiness, absenteeism, and behavioral expectations.

**Student Expectations**

1. Class begins when you enter the classroom. Class is dismissed by the instructor, NOT THE BELL.
2. There is a zero tolerance for cheating on any assignment/test & will equal a ZERO GRADE. Talking during a test or quiz will result in the paper being taken up and receiving a grade of ZERO as well as disciplinary action against all parties involved.
3. B.E.E. prepared for class. Bring Everything Every day.
4. Be on time (Because of meetings and class preparation please do not report to class before 8:40 unless you have an appointment.)
5. Stay on task (follow directions the first time they are given.)
6. Respect yourself, others and school property.
7. Have a positive attitude.
8. Always do your best.
9. **NO CELL PHONES UNLESS I INSTRUCT FOR YOU TO USE THEM!!!!! I WILL TAKE THEM IF I SEE THEM AND YOU WILL NOT GET IT BACK UNTIL THE END OF CLASS!!!!!!**
10. Cell phones will not be plug in the computers for charging purposes.

**Late & Missed Work**

It is ***YOUR*** (the student’s) RESPONSIBILITY!!! Any work missed should be made up within three (3) class periods following the absence. Check the appropriate lesson folder online.

WORK: Work should be turned in on time. Late work will be accepted with a deduction of:

• 1st day late possible score 80

• 2nd day late possible score 70

• 3rd day late possible score 60

I will not grade assignments more than three (3) days past due. Any late assignments after three (3) days will be recorded as a **zero** which **will be permanent.**

**Course Outline**

|  |
| --- |
| Failure to Success  What is Engineering  Measurements 2.0  Technical Communications 2.0  Engineering Communications 2.0  Success in the Classroom  Systems and Optimization  Fluid Power 2.0  Historical Engineering Timeline  History of the early engineering disciplines  Profiles of historical Engineers  Kick out the ladder  Teamwork and Concurrent Engineering  Materials  Basic Electricity 2.0  Engineering Disciplines  Problem Solving  Design and modeling  Introduction to Electromagnetism and induction  The Electric Guitar |

**Grading Policy**

**Grade Scale** **Semester Grade Weights**

A 100 – 90 Classwork/Participation = 30%

B 89 – 80 Labs/Projects = 20%

C 79 – 70 Tests/Discussions = 30%

D 69 – 60 Quizzes = 20%

F Below – 60

**Required Supplies**

* 1 ½” or 2”- 3 ring binder *(NO SPIRALS)*
* Subject dividers
* #2 pencils and Blue or Black pens *(No other colors please!)*
* Graph paper (1/4 in grid)
* Flash drive-memory stick to store your work (1GB or better)

**Notebooks are essential!** Organization is a skill (which means it can be learned) and is critical for success in this course. All handouts and notes are needed for success on quizzes and tests; therefore, they should be kept organized in your binder! Students are expected complete assignments online as well as maintain an Engineering Design Notebook. Access to computers is provided in class along with sufficient time to complete assignments. Students needing additional time may attend Learning Labs in order to complete assignments. **Both parents and students will have access to student grades and academic progress via PowerSchool.**

**Tardy Policy:** Students are expected to be in the classroom and ready to work by the time the tardy bell rings. The tardy and attendance policies are all clearly detailed in the student handbook and will be followed in this class. If you have a pass give it to me and take your seat quietly. Please note that the **3rd Tardy will result in a write-up.**

**Bathroom Policy:** Please try to meet this need before coming to class. However, in the case of the occasional emergency, you may ask to be excused during a transition in class that is not interrupting instruction. **No using the bathroom during the first or last 15 minutes of class or the last 15 minutes of class.** **Students who abuse bathroom privileges will lose them.**

Students will be evaluated on how well they master the learning outcomes, essential knowledge and skills.  Student profiles will collect all learning outcomes and national standards achieved through learning activities, case studies, experiments, quizzes and exams. Students will be quizzed in oral and written formats concerning their knowledge of various learning outcomes and technical content.  Visual observation will be the basis for evaluation of how the students follow protocol, perform work safely, stay on task, and how they work as a team on group activities with their fellow students.

Southeast High Attendance Policy

2019-2020

Southeast High School believes that student attendance is a predictor for student engagement and success in the school. With that understanding, Southeast High follows the GCS Board Policy concerning student attendance (P-JBD, pages47-50 of the GCS Student Handbook). Policy JBD requires students to make-up time after their third block absence (excused/lawful or unexcused/unlawful).

Students who have excessive absences (4 or more) from a class during the following time periods will be placed on INCOMPLETE STATUS (INC) until make-up time is completed:

* Four (4) absences during a marking period from a 90-day block class.

Parents will be notified by the teacher of the INCOMPLETE STATUS (INC) in the course. The INCOMPLETE STATUS (INC) will be recorded on the report card in lieu of a letter grade for all courses each marking period, regardless of that student’s present grade average until make-up time is completed. Each excessive absence (unlawful and lawful) is made up by:

* Block Schools – 1 absence = 45 minutes make-up time

When an absence qualifies for make-up time, it should be made up three (3) days following that absence unless the course teacher agrees to an extension. If the absence occurs at the end of a grading period, the absence must be made up within ten (10) days. In the last grading period of the semester, all absences must be made up within that grading period. A student who has completed the make-up time to earn credit will receive his/ her earned grade. If a student does not complete the make-up time, their INCOMPLETE STATUS will convert to an F (59) as their final grade for that marking period. In addition to make-up time policy, students with excessive absences may face disciplinary consequences (as described in Code of Conduct), including not be able to participate in a variety of extra-curricular activities such as field trips (no more than 10% absences per block unless time is made up by date of trip), prom, FFA, athletic events.

Students and parents may appeal to the school attendance committee for permission (e.g., medical and /or unusual circumstances) to remove INCOMPLETE STATUS (INC) or to extend make-up time. This request must be made in writing to the principal within ten (10) school days of notification of INCOMPLETE STATUS (INC). Additionally, a request for permission to amend the INCOMPLETE STATUS (INC) due to a chronic medical condition needs to be made in writing to the principal and include appropriate medical documentation.

To ensure that student attendance is communicated with parents, Southeast will notify parent/guardians of student absences:

* After 3 absences
* After 6 absences
* After 10 absences

Southeast High School will also notify parents when students have perfect attendance for all their blocks each month.

To further recognize students who are attending school, Southeast has the following incentives in place:

* 1-month perfect block attendance: 2-minute early dismissal for one month to lunch
* 2 months perfect block attendance: free game pass
* Semester perfect block attendance for semester: free gifts or passes to area businesses

Classroom teachers may also provide class-based incentives or consequences based on attendance.

**Student Policies for Using the Internet**

1. Students should not access the Internet during class time unless an assignment specifically calls for Internet use or the instructor gives permission for access.
2. Certain material available on the Internet is inherently inappropriate for student use. Examples include material that is of a sexually explicit nature or that advocates violence against women, minorities, ethnic groups, religions, government, etc.; humor of an offensive or sexually explicit nature; pirated commercial software; pinup pictures such as images from the Sports Illustrated Swimsuit Issue, etc. Students must avoid accessing inappropriate material. Students who access inappropriate material will lose the right to have Internet access and may be withdrawn from class.
3. Students ***may not alter or change any of the settings on computers***. This includes the screensaver.
4. **Applications and files should not be downloaded** on computers or servers unless the instructor instructs students to download material. Files downloaded for other classes should not be accessed during this class period.
5. Students may not use classroom computers to join mailing lists.
6. Students may not use personal email or send messages during class time unless instructed by the instructor. Students may not send obscene, threatening, or “flaming” messages to anyone at any time (“flaming” is defined as sending a message to a mailing list with the intention of invoking an inflammatory response from the readership of the list).
7. Students may not access files belonging to other students unless instructed to by the instructor.

**Penalty**: 1st Violation: The student will not have further access to the Internet.

2nd Violation: The student will be temporarily removed from the class.

3rd Violation: The student will be disciplined and dropped from class.

I, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, have read this policy and agree to abide by the terms.

**Student Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

I, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, have reviewed syllabus and Internet policy and am aware my child is accessing the Internet. My child and I have discussed the consequences of inappropriate use of the Internet.

**Parent Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_**

**Engineering Technology- Ms. Francis**

**\*\*\* Please Return with a Signature for a homework grade\*\*\***

**STUDENT NAME: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ BLOCK: \_\_\_\_\_\_\_\_\_**

**STUDENT EMAIL:**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**PARENT NAME(S):**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**PARENT CONTACT NUMBER(S):**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**PARENT EMAIL:**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**What is the easiest way to contact you? EMAIL (or) PHONE**

**Do you have internet access at home? YES (or) NO**

**PARENT SIGNATURE:**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**NOTES TO THE TEACHER: (Comments, Suggestions, Anything I should know before we get started?)**