**Student’s Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date Received\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

*Last First M.I.*

# Name of Course: Engineering (Robotics, Introduction to Engineering Design)

**Teacher: Brian Bellamy**

**E-mail: bbellamy@tcjackets.net**

##### COURSE DESCRIPTION

## Robotics

FIRST Tech Challenge demands students to design, build, program, and operate robots to compete in a head-to-head challenge in an alliance format. Participants call it "the most challenging fun you'll ever have!

Guided by adult Coaches and Mentors, students develop STEM skills and practice engineering principles (like keeping an engineering notebook) while realizing the value of hard work, innovation, and sharing ideas. Students program the robot kit using a variety of languages, including Java. Teams also must raise funds, design, market their team brand, and do community outreach to win awards. In addition, participants have access to tens of millions of dollars in college scholarships. Each season concludes with Super-Regional Championships and an exciting FIRST Championship.

## Introduction to Engineering Design

Introduction to Engineering Design (IED) introduces students to the engineering design process, applying math, science, and engineering standards to identify and design solutions to various real problems. Then, they work individually and in collaborative teams to develop and document design solutions using PLTW Engineering Notebooks and 3D modeling software.

**CLASSROOM MATERIALS**

Each student must bring to class daily:

1. Black or blue pens and pencils
2. Ruled paper (8 ½ x 11) with pre-punched holes for insertion into a binder
3. A binder or folder with a specific section for retention of class material and notes

GRADING PROCEDURE

Your grade for the course will be awarded based on the scale below.

1. Daily Assignments 40%
2. Tests/Major Projects 40%
3. Benchmark 20%

**COMPETITION**

Students may be allowed to compete in robotics. The teacher may offer students who are invited and choose to participate in the competition a separate track to help them prepare. The teacher will reserve the option of returning any student to the standard course track at the teacher's discretion.

**CREDIT RECOVERY WORK**

The student's responsibility is to request academic make-up work within two (2) school days after an excused absence. THE TEACHER MAY NOT REMIND YOU. The student must pick up any assignment that is not electronically posted and accessible by the student remotely before school between 7:45 a.m. and 7:55 a.m. Mr. Bellamy is on duty at the E-Hall door near the band room entrance. The student must request and complete make-up work within three (3) school days of the last excused absence. Assignments provided electronically and accessible via the internet are due on the due date unless extended. The teacher grants extensions in their discretion based on a written excuse by a doctor or parent provided within the two-day window following return to school. Failure to turn in deadline-sensitive work by the date due will likely result in "0" for academic work missed at the teacher's discretion. Time-insensitive assignments will receive a 10% deduction per day late. In exigent circumstances, the teacher may make other arrangements. For example, the teacher may assign extra credit work to gain extensions of time or grade recovery assignments. Extra credit work is solely in the teacher's discretion based on student history, cooperation, and efforts.

PARENT-TEACHER CONFERENCES

The purposes of a parent-teacher conference are

* + - 1. To give parents and teachers a better understanding of the child's academic and social performances.
      2. To promote close cooperation between the home and school in fostering the growth of the whole child,
      3. To give a more accurate picture of the child's school growth as shown by achievement, and
      4. To promote a better understanding of the objectives of the school.

Parent-Teacher conferences may be scheduled with the teacher during planning from 11:00 a.m.-12:00 p.m. on Monday – Thursday by contacting the TCCHS administrator at (229) 225-5050. In addition, a parent may schedule other conference times by mutual agreement of the Parent and Teacher by emailing the teacher at [bbellamy@thomas.k12.ga.us](mailto:bbellamy@thomas.k12.ga.us) or calling (229) 225-5050 x2075.

## TECHNOLOGY

All students will be required to use in-class computers, personal electronic devices, and out-of-school internet access to complete assignments. Mr. Bellamy's website for TCCHS debate and mock trial activities is tcchs.org. The learning management system is moodle.tcchs.org, supplemented by Google Classroom. Students are responsible for complying with the school handbook policies for technology and Internet usage. In addition, the teacher will use Remind, Google Classroom, <http://tcchs.org>, and <http://tcchs.org/teacher> (links to <http://www.thomas.k12.ga.us/olc/teacher.aspx?s=670)> to communicate with parents and students about announcements, assignments, and essential files/resources.

## CLASSROOM RULES AND REGULATIONS

Students and parents agree to abide by the *Thomas County Central High School Student Handbook.* The teacher is responsible for the orderly operation of the classroom. With that said, the following rules are highlighted.

1. Come to class on time. Standing outside the door and rushing in after the bell has begun to ring will constitute a **tardy**. Likewise, seating yourself after the bell has run will constitute a tardy.
2. **Begin any start-up activity immediately.**
3. Attend to personal needs before coming to class.
4. Remain in your assigned seat unless you have permission to get up.
5. **Do not eat or drink in the classroom without the teacher's permission. Students may generally consume water, tea, or coffee unless directed otherwise.**
6. **Bring your pen, pencil, paper, binder, and other required materials every day.**
7. Talk only when permitted or constructive to the underlying activity.
8. Use polite speech and body language.
9. Follow the school's honor code.
10. Always follow the teacher's directions.
11. **Cell phones and other electronic devices** must be out of sight of the student and silenced during instructional time. Exceptions may be made for specific classroom projects and will be monitored accordingly for academic work only. Personal use is subject to the express permission of the teacher requested before the student uses the device.
12. No student shall photograph, videotape, record, or reproduce, via any audio or video means, another student or staff member while on school system premises without the expressed prior permission of the student or staff member.
13. **Mr. Bellamy prohibits personal use of computers in the classroom without express permission.**

The teacher will take the following corrective action if a student decides not to follow the above rules.

1. Teacher Warning - may include any of the following:
   1. Taking up mobile or electronic devices according to school policy
   2. Change of seating
   3. Brief conference detention 7:45 a.m. – 7:55 a.m. the following morning of a regular school day.
2. Teacher & Student Conference:
   1. Time is designated by the teacher for brief conference detention 7:45 a.m. – 7:55 a.m. the following morning of a regular school day or within three days
   2. Parent notified of corrective action
3. Teacher Contacts Parent - may include any of the following: (occurrence 2-4)
   1. Electronic communication/conference
   2. Telephone call
   3. Letter
4. Administrative referral (occurrence 5-7)

**Please keep this syllabus in your notebook at all times.**

**STUDENT AND PARENT**

**COURSE SYLLABUS**

**ACKNOWLEDGEMENT FORM**

**Teacher: Brian Bellamy**

**Class Location: Room E14**

**Telephone: (229) 225-5050 ext. 370**

**E-mail: bbellamy@tcjackets.net**

Your signature is required below to acknowledge receipt of a course syllabus for Engineering/Robotics. Please return this page to your teacher after you and a parent or legal guardian have signed below and provided parent contact information.

Student’s Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Class Period\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Teacher: Brian Bellamy Room Number: E14

Student’s Signature\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Parent/Guardian Signature\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Parent/Guardian Contact Information:

|  |  |  |
| --- | --- | --- |
|  |  |  |
| First Name | Last Name |  |
|  |  |  |
| Home Phone | Mobile Phone | Email |

Teacher’s Signature\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date Returned\_\_\_\_\_\_\_\_\_\_\_\_\_\_