

## Syllabus: AC/DC Electronics

**Instructor:** Jimmie Green SR

**Conference:** 10:00 to 10:45am

**After school availability:** TBD

**Tutoring time:** By appointment before/after school

**e-mail:** [jimmiegreen@misdmail.org](mailto:jimmiegreen@misdmail.org)



This **one credit course** is 18 weeks long. ATTENDANCE IS CRITICAL. *For every class day missed, expect to spend 2 days in tutoring after school.* To receive credit for any MISD class, Texas state law requires the student to attend at least 90 percent of the days the class is offered.

### Course description:

A course designed to provide all students the opportunity to learn about the basics electricity and electronics, available careers and job opportunities. This course by design is to provide broad introductory skills and knowledge of career opportunities and training requirement in electrical and electronics-related fields. This course teaches safety, technical math, and job skills and introduces DC and AC electronic principles as well as digital concepts. Circuit construction, soldering, use of basic test equipment, residential wiring, tools and materials of the electrical and electronics industry, troubleshooting and project building is accomplished.

<b><u>COURSE CONTENT:</u></b>	Career Research/Investigation	Alternating Current Theories
	College/Trade School Research/Investigation	Alternating Current Labs
	Personal Job Skill Development	Special Labs when time permits:
	OSHA safety certification training	Radio and PCB construction
	Technical report writing	Lasers/Optics
	Direct Current Theories	High Voltage Coils

**Test and Quizzes** - will be given as needed to ensure that the student has mastered the information.

**Daily Work: Labs, Homework, Quizzes...60%**

**Test: Chapter Exams, Unit Reviews and Projects...40%**

### SEMESTER EXAMS

Each semester, specific exam schedules are designated for MISD high school and dual credit courses. These schedules must be followed. Neither mid-term nor final exams are given early. If a student is absent on the day of an exam he/she will take the exam at a date/time designated by the school. The exam grade counts as 20% of Semester Grade.

### LATE WORK

- Teacher designates due date and time for assignment (Beginning of class period, End of class period, designated time of day)
- If student fails to meet the due date and time, then the student has till the next class period (next A day or B day) to turn in assignment to be considered one day late.
- Students will be assessed a penalty of 30% points for up to one class period late.
- Score of a zero may be given for work turned in after one day late.

## **WEIGHTED CREDIT**

Per MISD Board Policy EIC (LOCAL):

- The District uses a weighted numerical grading system. In calculating GPA, ten points (per semester) shall be added to a student's average in Advanced Placement (AP) courses, Pre-AP courses, Academic Decathlon, and courses considered to be District-approved college level dual credit courses. No courses shall receive weighted points for completion.
- No weighted credit point shall be added for grades lower than 70.
- Weighted grading shall be reflected in the student's GPA and not numerically per course on either the student's report card or transcript.

## **UIL ELIGIBILITY** ("No Pass/No Play")

- Semester grades are computed by averaging the numerical grades recorded for each of the three six week reporting periods.
- Each six-week grading period will stand alone for eligibility purposes.
- A student who is declared academically ineligible after a six week grading period will be able to regain eligibility if all of the student's grade averages are 70% or higher at the subsequent 3 week grade reporting period.
- See MISD Board Policy FM (LOCAL) – Exempt Courses.

## **CERTIFICATIONS:**

**OSHA - OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION** - The OSHA "CAREERSAFE" outreach safety program offers the 10 HR OSHA GENERAL INDUSTRY SAFETY certification. This certification provides a broad overview of OSHA in the workplace, and increases student awareness of their personal roles and responsibilities regarding safety. Instruction and testing conducted **ONLINE**, at the students own pace with 10-Hours to complete. Upon successful completion, the OSHA Career Safe Campus will issue a life time card.

## **Policies**

### **IDs**

All students will come to class wearing their school issued identification badge. Any student found without an ID will be sent to the cube to be issued a new one and charged five dollars.

### **Attendance**

**Attendance** is extremely important in a computer/technology class. Each class missed is over three hours of computer time lost. School policy allows one day per absence and one day, Extra time will be allowed for some make up work as some assignments can require extra time in the lab and cannot be done at home.

**THE STUDENT AND PARENT MUST SIGN THE COMPUTER RULES POLICY, PROVIDED BY THE DISTRICT.**

### **BBCTA Tardy/Absence Policy**

A student is **tardy** if they are not in class at the **start** of the class. A student is **absent** if they are more than **twenty minutes** late to class.

- 1st tardy – warning
- 2nd tardy – student conference
- 3rd tardy – parent contact
- 4th tardy – office referral
- 5th tardy – office referral and detention
- 6th tardy – office referral and two detentions

- 7th tardy – office referral and ISS
- 8th tardy – office referral and two days of ISS
- 9th tardy and more – office referral and multiple days of ISS

**Cell Phone/Electronic Devices**

Out of respect for our learning environment, please silence your phone as you enter the class and place all electronic devices out of sight. During lecture and class discussions, this is important to maintain necessary focus. At appropriate times, electronic devices can be used in limited capacity, when agreed upon by the instructor and for specific educational purposes as a part of the curriculum.

**Accountability**

Our classroom is an amazing resource that must be shared, so:

**Respect!!!**

- |                  |              |               |
|------------------|--------------|---------------|
| -The Equipment   | -The People  | -The Ideas    |
| -The Environment | -The Process | -The Learning |

We are on this campus to become more powerful people; to become leaders. Respect plays out in many ways, including paying attention, turning in assignments, being prepared and supporting each other. Mutual respect develops in a classroom as we demonstrate proper respect for ourselves, others students and property. When we achieve this *Respect*, we can then graciously point out to one another that we are not acting in our own or the classes' best interest. As peers, I hope that you will help guide each Other's actions for our own development, and not act out of fear of being disliked. Giving insincere feedback is a waste of everyone's time.

Act in the intention of helping each other grow! Always be at your best and do your best.

**If** your actions cause harm I will ask that you take actions to repair what you have harmed, be it someone's feelings, materials or class equipment.

**YOU CAN CHOOSE YOUR BEHAVIOR. YOU CANNOT CHOOSE YOUR CONSEQUENCE.**

All district and campus policies will be followed and enforced in this classroom.

**Possible Consequences include, but are not limited to:**

- Last one out of class
- Stay after class
- Change seat assignment
- Call parents or referral to AP
- Loss of computer/supply access

**Academic dishonesty**

Teachers determine what constitutes cheating and/or plagiarism.

**Consequences for academic dishonesty**

**Daily Work**

- Every Offense
  - Academic and Disciplinary Consequences

- Assign grade of zero
- Write a referral
- Teacher contacts parents
- Consequence from administrator would be a minimum of AC placement

**Exams or Other Major Assessments**

- Every Offense
  - Academic and Disciplinary Consequences
  - Assign grade of zero
  - Write a referral
  - Teacher contacts parents
  - Consequence from administrator would be a minimum of AC placement
  - An alternative exam or major assessment can be completed for a maximum grade of 70%
  - Academic Associate is notified and will schedule a meeting with student, parent and teacher

**Student Organization:**

**SkillsUSA** is a partnership of students, teachers and industry working together to ensure America has a skilled workforce. The organization serves more than 300,000 students and instructors annually, with 15,000 school chapters in 54 state and territorial associations.

*Joining **SkillsUSA** is NOT a requirement and will not affect the student's grades.*

- Meetings are held after school (day to be determined). **Transportation is not provided**
- BBCTA students in Electronics and computer maintenance have won district contest for 11 years of the past 12 years. . Our students have won gold at the State championships for the past 5 years. Student have place in the top ten and medaled in National contests. These students have received scholarships, industry certifications and various prizes. The student who wins at district proceeds to State. State winners progress to Nationals
- Meetings are held after school (day to be determined). Transportation is not provided.

**Officer Elections** Officers are elected by members who have paid their dues. Officers must be passing all subjects and have not been in BIC, AC or received after school detention.

**To compete** in the district, State and National competition,

- ✓ The student must be a dues paying member
- ✓ The student must have attended 85% of the after school meetings
- ✓ The student must be passing all classes (including honors and AP courses) with a 70.

**District contest.** The student is expected to pay travel food and hotel (if needed)

**State contest** is three days plus travel. If the student progresses to state level, the district pays all expenses except food.

**Fund raising activities will be discussed and voted on in the club meeting.**

**TEXTBOOKS:** Basic Electricity and DC Circuits

**TEXTBOOK:** Basic AC Circuits

**Author:** Charles W. Dale

**AUTHOR:** Stanly R. Fulton and John C. Rawlins

Publisher: Prompt Publications

**Publisher:** Macmillan

## STUDENT & PARENT SIGNATURE PAGE

### AC/DC ELECTRONICS

Jimmie Green Sr STEM Instructor

Please sign and return this packet after reviewing the Course Syllabus, Classroom Policies and the Mansfield ISD Acceptable Use Policy (AUP).

My child and I understand that he/she must comply with these regulations. We realize that if he/she fails to abide by the rules, he/she will adhere to the sanctions listed and will not be able to participate in this computer-based lab or regular classroom.

District policy states that every student will **wear** an ID and have a **signed Acceptable Use Policy (AUP)** on file, every day to be able to access any MISD networked computer.

Your signatures below indicate that you have received, reviewed, and accept the course syllabus, classroom policies and the Acceptable Use Policy (AUP) of the Mansfield ISD.

Student's Name: \_\_\_\_\_

Student is Signature \_\_\_\_\_ Date: \_\_\_\_\_

Parent's/Guardian's Name: \_\_\_\_\_

Parent's/Guardian's Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Grade Classification: \_\_\_\_\_