



Direct Current 1 IDFC 1011 HYBRID COURSE SYLLABUS Fall Semester 2015

****Instructor reserves the right to change the syllabus and/or lesson plan as necessary.****

Semester: Fall 2015

Course Title: Direct Current 1

Course Number: IDFC 1011

Credit Hours/ Minutes: 3 / 3000

Class Location: Main Building Vidalia Lab
429

Class Meets: Monday & Wednesday
9:20AM-11:55AM (60%F2F, 40% on-line)

CRN: 20280

Instructor: Randy Robinson

Office Location: Main Building Vidalia Lab 429

Office Hours: Monday – Thursday 8:00AM-9:00AM and 1:00PM-2:00PM

Email Address: rrobinson@southeasterntech.edu

Phone: 912-538-3137

REQUIRED TEXT:

- **Safety and Basic Electricity with NCCER Connect** by NCCER, Pearson Publishers ISBN 978-1-269-83000-3

REQUIRED SUPPLIES & SOFTWARE: USB Flash Drive- Will be used to download slide presentations for each module

Note: Although students can use their smart phones and tablets to access the online portion of their course(s), exams, discussions, assignments, and other graded activities should be performed on a personal computer. Neither ANGEL nor GVTC provide technical support for issues relating to the use of a smart phone or tablet so students are advised to not rely on these devices to complete the online portion of the course.

COURSE DESCRIPTION: Introduces direct current (DC) concepts and applications

MAJOR COURSE COMPETENCIES: Electrical principles and laws; batteries; DC test equipment; series, parallel, and simple combination circuits; and laboratory procedures and safety practices.

PREREQUISITE(S): None

COREQUISITE(S): MATH 1012- Foundations of Mathematics

COURSE OUTLINE:

1. Electrical Principles and Laws.
2. Batteries
3. DC Test Equipment
4. Series, Parallel, and Simple Combination Circuits
5. Laboratory Procedures and Safety Practices

GENERAL EDUCATION CORE COMPETENCIES: STC has identified the following general education core competencies that graduates will attain:

- A. The ability to utilize standard written English.
- B. The ability to solve practical mathematical problems.
- C. The ability to read, analyze, and interpret information..

All students pursuing a degree, a diploma, or a Technical Certificate of Credit with a General Education component will be required to pass the General Education Competency Exams prior to graduation.

WORK ETHICS: The Technical College System of Georgia instructs and evaluates students on work ethics in all programs of study. Ten work ethics traits have been identified and defined as essential for student success: appearance, attendance, attitude, character, communication, cooperation, organizational skills, productivity, respect, and teamwork. Students will be required to do 10 Work Ethics Scenarios on a discussion board on Angel. Each student must make a post and do 1 reply of another student on each discussion board Work Ethic Topic. Also the student will be graded on content. Each answer must contain 10 or more words. If not, 10 points will be deducted. A grade of 70 out of 100 is required to complete the work ethics requirements for this

STUDENT REQUIREMENTS (Hybrid): Class attendance is a very important aspect of a student's success in this course. Responsibility for class attendance rests with the student. Regular and punctual attendance at all scheduled classes is expected. Students are expected to complete all work required by the instructor. Unannounced quizzes/assignments may be given. Students that miss an unannounced quiz or assignment will receive a grade of 0. Students are expected to complete all work shown on the attached assignment sheet. Students are also expected to complete all tests and comprehensive problems on the dates specified on the attached calendar. Students are responsible for policies and procedures included in the *STC Catalog*. **Electrical Systems Technology program students must earn a minimum grade of C in this course.**

ATTENDANCE GUIDELINES: Class attendance is a very important aspect of a student's success. Being absent from class prevents students from receiving the full benefit of a course and also interrupts the learning process. Southeastern Technical College considers both tardiness and leaving early as types of absenteeism. Responsibility for class attendance rests with the student. Regular and punctual attendance at all scheduled classes is required for student success. Students will be expected to complete all work required by the instructor as described in the individual course syllabus.

Instructors have the right to give unannounced quizzes/assignments. Students who miss an unannounced quiz or assignment will receive a grade of 0. Students who stop attending class, but do not formally withdraw, may receive a grade of F and face financial aid repercussions in upcoming semesters.

Instructors are responsible for determining whether missed work may be made up and the content and dates for makeup work is at the discretion of the instructor.

Students will not be withdrawn by an instructor for attendance; however, all instructors will keep records of graded assignments and student participation in course activities. The completion dates of these activities will be used to determine a student's last date of attendance in the event a student withdraws, stops attending, or receives an F in a course.

SPECIAL NEEDS: Students with disabilities who believe that they may need accommodations in this class based on the impact of a disability are encouraged to contact Jan Brantley, Room 1208 Swainsboro Campus, 478-289-2274, or Helen Thomas, Room 108 Vidalia Campus, 912-538-3126, to coordinate reasonable accommodations.

SPECIFIC ABSENCES: Provisions for Instructional Time missed because of documented absences due to jury duty, military duty, court duty, or required job training will be made at the discretion of the instructor.

PREGNANCY: Southeastern Technical College does not discriminate on the basis of pregnancy. However, we can offer accommodations to students who are pregnant that need special consideration to successfully complete the course. If you think you will need accommodations due to pregnancy, please advise me and make appropriate arrangements with the Special Needs Office. Swainsboro Campus: Jan Brantley, Room 1208, (478) 289-2274 -- Vidalia Campus: Helen Thomas, Room 108, (912) 538-3126.

WITHDRAWAL PROCEDURE: Students wishing to officially withdraw from a course(s) or all courses after the drop/add period and prior to the 65% portion of the semester (date will be posted on the school calendar) must speak with a Career Counselor in Student Affairs and complete a Student Withdrawal Form. A grade of "W" is assigned when the student completes the withdrawal form from the course.

Students who are dropped from courses due to attendance (see your course syllabus for attendance policy) after drop/add until the 65% point of the semester will receive a "W" for the course. Abandoning a course(s) instead of following official withdrawal procedures may result in a grade of 'F' being assigned.

After the 65% portion of the semester, the student will receive a grade for the course. (Please note: A zero will be given for all missed assignments.)

There is no refund for partial reduction of hours. Withdrawals may affect students' eligibility for financial aid for the current semester and in the future, so a student must also speak with a representative of the Financial Aid Office to determine any financial penalties that may be assessed due to the withdrawal. All grades, including grades of 'W', will count in attempted hour calculations for the purpose of Financial Aid.

Remember - Informing your instructor that you will not return to his/her course does not satisfy the approved withdrawal procedure outlined above.

MAKEUP GUIDELINES (Tests, quizzes, homework, projects, etc...): Extenuating circumstances are determined at the instructor's discretion. Unless otherwise scheduled with the instructor, it is expected that the test will be taken the next day, scheduled outside of regular class time. Failure to follow this procedure will result in a grade of zero. Assignment due dates are listed on the attached lesson schedule. Students are expected to have the assignment completed at the beginning of class on the date that it is due. It is within the instructor's discretion to accept or reject late assignments. Any late assignments accepted will be subject to a ten point penalty each day the assignment is late. After three class meetings, no late assignments will be accepted; a zero will be recorded. Unannounced quizzes are subject to be given on any day. A grade of zero will be assigned for any quizzes missed. There will be no makeup of quizzes. Any zeros recorded will be included in the final score calculation

ACADEMIC DISHONESTY POLICY: The STC Academic Dishonesty Policy states *All forms of academic dishonesty, including but not limited to cheating on tests, plagiarism, collusion, and falsification of information, will call for discipline.* The policy can also be found in the *STC Catalog and Student Handbook.*

Procedure for Academic Misconduct

The procedure for dealing with academic misconduct and dishonesty is as follows:

--First Offense--

Student will be assigned a grade of "0" for the test or assignment. Instructor keeps a record in course/program files and notes as first offense. The instructor will notify the student's program advisor, academic dean, and the Registrar at the student's home campus. The Registrar will input the incident into Banner for tracking purposes.

--Second Offense--

Student is given a grade of "WF" for the course in which offense occurs. The instructor will notify the student's program advisor, academic dean, and the Registrar at the student's home campus indicating a "WF" has been issued as a result of second offense. The Registrar will input the incident into Banner for tracking purposes.

--Third Offense--

Student is given a grade of "WF" for the course in which the offense occurs. The instructor will notify the student's program advisor, academic dean, and the Registrar at the student's home campus indicating a "WF" has been issued as a result of second offense. The Vice President for Student Affairs, or designee, will notify the student of suspension from college for a specified period of time. The Registrar will input the incident into Banner for tracking purposes.

STATEMENT OF NON-DISCRIMINATION: Southeastern Technical College does not discriminate on the basis of race, color, creed, national or ethnic origin, gender, religion, disability, age, disabled veteran, veteran of Vietnam Era or citizenship status, (except in those special circumstances permitted or mandated by law). This school is in compliance with Title VI of the Civil Rights Act of 1964, which prohibits discrimination on the basis of race, color, or national origin; with the provisions of Title IX of the Educational Amendments of 1972, which prohibits discrimination on the basis of gender; with the provisions of Section 504 of the Rehabilitation Act of 1973, which prohibits discrimination on the basis of handicap; and with the American with Disabilities Act (ADA).

GRIEVANCE PROCEDURES: Grievance procedures can be found in the Catalog and Handbook located on STC's website.

ACCESS TO TECHNOLOGY: Students can now access Angel, Remote Lab Access, Student Email, Library Databases (Galileo), and BannerWeb via the mySTC portal or by clicking the Current Students link on the STC website at www.southeasterntech.edu.

GRADING POLICY

Module Test	40%
Review Questions	10%
Performance Evaluations	45%
Work Ethics	5%
Total	100%

GRADING SCALE

A: 90-100
B: 80-89
C: 70-79
D: 60-69
F: 0-59

TCSG GUARANTEE/WARRANTY STATEMENT: *The*

Technical College System of Georgia guarantees employers that graduates of State Technical Colleges shall possess skills and knowledge as prescribed by State Curriculum Standards. Should any graduate employee within two years of graduation be deemed lacking in said skills, that student shall be retrained in any State Technical College at no charge for instructional costs to either the student or the employer.

**IDFC 1011 DIRECT CURRENT 1
FALL SEMESTER 2015 LESSON PLAN**

ITEMS THAT ARE COLORED RED ARE ON-LINE

ITEMS THAT ARE COLORED BLUE ARE DONE ON CAMPUS

DATES	MODULE	OBJECTIVES	ASSIGNMENTS	Comp Area Gen. Ed Comp
August 18	Fall Semester Begins			
Begin August 17 End September 2	Electrical Safety- Module 26102-11	<ul style="list-style-type: none"> Recognize safe working practices in the construction environment. Explain the purpose of OSHA and how it promotes safety on the job. Identify electrical hazards and how to avoid or minimize them in the workplace. Explain electrical safety issues concerning lockout/tagout procedures, confined space entry, respiratory protection, and fall protection systems. Develop a task plan and a hazard assessment for a given task and select the appropriate PPE and work methods to safely perform the task. 	<ul style="list-style-type: none"> Read Module 26102-11 of the Electrical Level 1 Trainee Guide Watch the videos under Module 26102-11 Media Library on NCCER Connect Website. There are 8 short videos Answer the module review questions on the My Pearson Lab site Complete the Trade Terms Quiz pg. 2.39 Complete Module 26102-11 Performance Profile Sheet with instructor Take the Module 26102-11 Exam 	5 A,B,C,D
Begin September 9 End September 28	Introduction to Electrical Circuits- Module 26103-11	<ul style="list-style-type: none"> Define voltage and identify the ways in which it can be produced. Explain the difference between conductors and insulators. Define the units of measurement that are used to measure the properties of electricity. Identify the meters used to measure voltage, current, and resistance. Explain the basic characteristics of series and parallel circuits 	<ul style="list-style-type: none"> Read Module 26103-11 of the Electrical Level 1 Trainee Guide Watch the videos under Module 26104-11 Media Library on NCCER Connect Website. There are 7 short videos Answer the module review questions on the My Pearson Lab site Complete the Trade Terms Quiz pg. 3.25-3.26 Take the Module 26102-11 Exam 	1,2,3 A,B,C,D
Begin September 30 End October 19	Electrical Theory- Module 26104-11	<ul style="list-style-type: none"> Explain the basic characteristics of combination circuits. Calculate, using Kirchhoff's voltage law, the voltage drop in series, parallel, and series-parallel circuits. Calculate, using Kirchhoff's current law, the total current in parallel and series-parallel circuits. Using Ohm's law, find the unknown parameters in series, parallel, and series-parallel circuits 	<ul style="list-style-type: none"> Read Module 26104-11 of the Electrical Level 1 Trainee Guide Watch the videos under Module 26103-11 Media Library on NCCER Connect Website. There are 2 short videos Answer the module review questions on the My Pearson Lab site Complete the Trade Terms Quiz pg. 4.14 Take the Module 26104-11 Exam 	4 A,B,C,D
COURSE COMPETENCIES: <ol style="list-style-type: none"> Electrical Principles and Laws. Batteries DC Test Equipment Series, Parallel, and Simple Combination Circuits Laboratory Procedures and Safety Practices 			GENERAL EDUCATION CORE COMPETENCIES: <ol style="list-style-type: none"> The ability to utilize standard written English. The ability to solve practical mathematical problems. The ability to read, analyze, and interpret information. The ability to utilize basic computer skills. 	