



Figure 1: Owens Logo.

**Course Syllabus
SEMESTER
School of STEM**

<i>Course Name:</i>	John Deere Air Conditioning
<i>Course & Section Number:</i>	DSL-212-XXX
<i>Meeting Day(s) & Time(s):</i>	
<i>Credits:</i>	2
<i>Contact Hours:</i>	1.5 Hrs Lecture Room TT 108
<i>Text:</i>	1.5 Lab TT 196
<i>Instructor's Name:*</i>	
<i>Office Hours & Location:</i>	
<i>OCC Phone:</i>	
<i>OCC Email:**</i>	
<i>Additional Contact Information:</i>	

*Please call me NAME it is my preferred name.

*Please use only Owens E-Mail for course communications.

Catalog description:

John Deere Air Conditioning SEMESTER DSL-212-004

Prerequisite/Corequisites:

None Required

Course Materials:

John Deere Electronic and Electrical Systems. ISBN-0-86691-326-2 Bar # is 9780866 91326 3

*If a **print book, e-book, or access code** is required for class, you can access the Owens Community College e-Campus Bookstore by accessing the online link, called “Find Books” on the course schedule for each course section. See the example below. NONE Required online.*

OER and Owens Community College Library Resources (Open Educational Resources are free online materials for instructor and student use. Some OER material may be available in print in the Owens Community College Library.)

Inclusive Access (I.A.) Materials are included in the cost of the course to save students money through lower negotiated rates with publishers. Courses containing I.A. materials will have it noted on the online class schedule. If your course includes I.A. digital materials, you will receive an email with subject line, “Your inclusive Access Materials,” and it will include any codes or digital links.

The email will come to your Owens Community College email from the Owens e-Campus Bookstore on the first day of class, if not before. Be sure to check your spam (junk email) if you do not find it in your inbox. If the email is not in your inbox or spam folder, contact your instructor immediately. You may also see a folder at the top of your course labelled “Course Materials by E- Campus.” This folder will contain any needed codes or links to needed materials.

If the I.A. materials also include a printed book or are in print form, the item will be shipped to your address of record automatically based on your enrollment in the course. Please note that some courses do not include printed materials in I.A and those materials would need to be purchased separately using the link on the course schedule. When you access the Find Books link you will see which items in a course are included in I.A.

What You Will Learn in the Course

Course Objectives:

Course will...

Student Learning Outcomes:

Students will:

Outcome	Where Assessed
Safety Procedures, Shop Procedures	Operating a Multi Meter in all Phases
Use of a Fluke Multi Meter	Chapter quizzes’- Chapter Tests
Determine Electrical Failures – Faults BB	Operating - Building Blue Boards
Observe and correct any weakness in Student	Safety Observed during Class/ Labs

Program Outcomes:

The following program outcomes are assessed in this course

Outcome	Where Assessed
Understanding the reading materials	Pertinent Chapter Tests during the Course
Efficiently operate proper tools during Lab	Hands on Assignments during Labs
Communicates proper instructions and Skills	Assessed in Lecture as well as the Lab
Able to proficiently pass Tests	Lecture room Tests & Quizzes;

Institutional General Education Competencies:

As a student at Owens Community College, you will take General Education courses as part of your degree program. While specific to the General Education courses, will be reinforced in many of your degree program major courses and may be measured in your capstone course(s) and others as identified.

Competency	Where Assessed
Communicate effectively.	Open Discussions
Act with professional responsibility.	Lab & Lecture Room
Demonstrate sensitivity to others' beliefs and values.	Lab & Lecture Room
Think analytically, critically, and creatively.	Lab & Lecture Room

Technology, Lab, and File Requirements: Access to John Deere Service Advisor or Service Center from a Personal Laptop or School Computer in the Computer Lab.

Academic Support

Disability Services Resource Center: If you have a disability or acquire one, you may be entitled to receive reasonable accommodations intended to assure you an equal opportunity to participate in and benefit from the program. To receive more information or to register for accommodations, please contact the Disability Resource Center at 567-661-7007, email disability@owens.edu, visit <https://www.owens.edu/disability/>, or stop by College Hall 124.

Tutoring Services: Owens Community College offers academic tutoring and assistance in a variety of subjects including: accounting, computing, economics, mathematics, science, and writing. For more information go to: <https://www.owens.edu/successcenters/>.

Counseling Services: Counseling Services provides assistance to students experiencing personal, educational, interpersonal/relationship, family, social, or psychological difficulties. If you feel you may benefit from this service, please contact them at counselingservices@owens.edu. More information is at <https://www.owens.edu/counseling/>.

Campus and Community Connections: The Center for Campus and Community Connections (College Hall 123) is a walk-in office created to provide retention support through resource stability initiatives and community connections. Go here for more information:

<https://www.owens.edu/connection/> or contact connections@owens.edu

Owens Library: The Owens Library offers two locations (Toledo and Findlay) as well as online resources. For more information visit <https://www.owens.edu/library/>.

Students can find more information on campus resources, student support, student life, and security at this [link](#).

General Information

Student Code of Conduct: All students are expected to follow Owens Community College's Student Code of Conduct, which includes academic honesty, encompassing plagiarism. See the Board Policy for more information.

Anti-Discrimination and Harassment & Title IX/Sexual Misconduct: All students, faculty, and staff are expected to follow Owens Community College's Anti-Discrimination and Harassment Policy and the College's Title IX Policy/Sexual Misconduct Procedures and Guidelines. The College strictly prohibits and will not tolerate harassment, discrimination,

Religious Accommodations: A student seeking an accommodation for an absence permitted under Ohio's Testing Your Faith Act must provide the instructor with a written email notice with the specific dates for an absence, and must do so not later than fourteen (14) days after the first day of instruction. Alternative accommodations are not retroactive, and no academic penalty will be imposed for an absence under the policy*. The request for an alternative accommodation will be kept confidential. Students with questions about a religious accommodation under Ohio's Testing your Faith Act may contact the College's Office of Academic Affairs: provost@owens.edu. The policy may be found on the Owens website: [3358:11-2-63 Accommodation for a Student Absence for the Observance of Religious Beliefs and Practices Policy](#)

Document Collection: Throughout the semester, your instructors may ask for a variety of assignments including tests and/or quizzes for student learning of institutional general education competencies or program assessment. Please save all your class materials until the end of the semester.

Classroom Admittance: OCC classes shall only be attended by the officially registered OCC students or perspective students, instructor of record, guest lecturer, or substitute. Visitors are not permitted to be in the classroom and should not be invited to attend or participate in the class. See [FERPA](#) regulations for more information.

Use of AI Tools: This course requires you to complete various assignments that assess your understanding and application of the course content. You are expected to do your own work and cite any sources you use properly. You are not allowed to use any artificial intelligence (AI) tools, such as chatbots, text generators, paraphrasers, summarizers, or solvers, to complete any part of your assignments. Any attempt to use these tools will be considered academic misconduct and will be dealt with according to the Owens Community College academic integrity policy. Students are expected to complete all work independently and without the assistance of AI-generated content. If you have any questions about what constitutes acceptable use of AI tools,

please consult with the instructor *before* submitting your work.

How Grades are Determined and Major Assignments

Evaluation Measure The grade points for the areas of work are as follows.	Student Learning Outcomes Assessed	Value
Essay 1	1-6	200 points
Essay 2	1-6	200 points
Midterm	1-3; 5-6	150 points
Group Project	1-6	300 points
Final	1-6	150 points
Total		1000 points

The final course grade is to be computed using the following weights.

Evaluation Measure	Value	Student Learning Outcome Assessed
Class Participation:	5 %	1-14
Activities:	15%	1-14
Homework:	10%	
Projects (3 projects):	30%	
Project Presentations:	10%	
Quizzes (6 quizzes):	20%	
Final Project:	10%	

Grading Scale

Grade	Points
A	900-1000
B	800-899
C	700-799
D	600-699
F	0-599

Grading Procedure:

Grades will be calculated on the following scale.

90% and Above	A
80% to Less than 90%	B
70% to Less than 80%	C
60% to Less than 70%	D
Less Than 60%	F

Tentative Class Assignments:

WEEK & DAY	DSL 212-004 JOHN DEERE AIR CONDITIONING	DATES	LOCATION
	LECTURE	WORK BOOK	LAB
1 - 1	INTRODUCTIONS SAFETY INSTRUCTIONS- PPT 1A -1-8 SL GOGGLES PPT 2 1-21 SL	PG 10-11	INTRODUCTION TO LAB, OFFICE FACILITY'S TOOL ROOM.
1 - 2	OILS & FITTINGS – PPT 3A-1- 8 & 9 1-19 SL	PG 12 -13	REFRIGERANT REGULATIONS ASE LICENSE BOOK DO IN CLASS....
2 – 1 X SEE TOM	Oil & flushings PPT 4 -16-19 4- 1 -19 SL	PG 14 -15 **PG 45 EVAC /CHRG	AC MACHINE DEMO, STATIC TEST INFO WHY A PERFORMANCE TEST RECOVER - EVAC - RECHARGE PG 45
2- 2	PPT 5 - 13 4-20 -26 SL	PG 15	STUDENT- MACHINE DEMO IT. PERFORM A STATIC TEST (SHEET) PERFORMANCE TEST RECOVER-EVAC - RECHARGER-EVALUATE
3 - 1	BASIC PRINCIPLES PPT 5- 3- 5 5- 1-14 SL	PG 16 PG 17 & 18 ** PG 46	PG 17& 18 STUDENT PG 18 TEST DEMO MANUAL GAUGES & VACUUM PUMP AFTER RECOVERY. EVAC RECHARGE . DO A PERFORMANCE TEST TIM * PG 46.
3- 2 VID	COMPRESSOR PPT 5-18-20 5- 15 PPT 6-17-18 SL LABEL COMPONENTS PG 21 .	PG 19 PG 20 PG 21 LABEL **INOP AC	STUDENT DEMONSTRATION USE OF MANUAL GAUGES & PUMP AFTER THE RECOVERY!!! EVAC RECHARGE DO A PERFORMANCE TEST .! TIM . ** INOP AC BUG
4 - 1 VID	EXPANSION VALVE LEAK DETECTIONS PPT 6- 28-31 PPT 6- 24 25 32 6-1- 18 SL	PG,22-23 PG 23 **PG 50 A LEAK	DEMO RUN TRACTOR FILL IN SHEET PG # 25 FEEL COMPONENT TEMPS LAB***** LOCATE A **LEAK WITH SNIFFER- GLASSES- BLACK LIGHT PG 50
4 -2 VID	RECIEVER-DRIER PP6-26-27 COMPRESSOR 6-19-20	PG.31 PG 32	LAB COMPRESSOR TEAR DOWN -RE-ASSEMBLE

WEEK & DAY	DSL 212-004 JOHN DEERE AIR CONDITIONING	DATES	LOCATION
	CONDENSOR PPT 6-22-24 6- 19-35 SL O C	PG 33 **POOR AC IN . AFTERNOON PG 51	OHM MAGNETIC-CLUTCHES LAB OHM TESTS PG 51 POOR AC
5-1 VID	TXV VALVE H PPT 6-28-30 ORFICE TUBE 6-32 ID MANUAL GAUGE COMPONENTS	PG.34 PG 35 PG.37 *POOR AC PG 52	LAB #1 EVALUATE RECOVER EVAC- RECHARGE PERFORMANCE TEST FILL IN 37 LECT ROOM **PG 52
5-2.	MANUAL-HVAC-CONTROL, 7-4 7-5 7-6-9	PG 38-39 READ PG 40 **53 INTERM AC	MANUAL-AC ** * *PG 53
6 - 1	AUTOMATIC TEMP CONTROLS ATC 1- 29 SL	PG 41-42 FILL IN BLANKS ??	** TBD
6 -2	7—12--HEATER--CONTROLS	PG 43 **55 NO AC **56 NO AC	LAB-COMPONENT LOCATION SHEET LAB **55.NO.AC **56 NO AC
7- 1	DIAGNOSTIC APPROACHES ELECTRONIC AC- ATC UNITS	PG 6 CHARTS	DTCS, CODES- INTERMITTENT- STORED-
7- 2	** MODULES SCHEMATICS POWER RELAYS FUSES		OVERHEADS REMOVE A RECIEVER DRIER -RE-INSTALL IT
			EVACUATE RECHARGE
8-1-& 2	Final Exams lab day 1 and written day 2		

Disclaimer: The instructor reserves the right to amend this syllabus as deemed necessary and will communicate such amendment to the students in the course. Please note that while unlikely, there is a possibility courses might need to change the delivery method due to external issues like public health concerns, weather issues, etc. If this happens, the college will communicate any changes via email and/or other communication methods.