Course Name: Equipment Operations
Instructor Name: Scott Birdsell
Course Number: AGH 141
Course Department: Business
Course Term: Fall 2021
Last Revised by Department: May 2021
Total Semester Hour(s) Credit: 3
Total Contact Hours per Semester:

Lecture: 45   Lab:         Clinical:       Internship/Practicum:

Catalog Description: This course will prepare the student to perform general preventative maintenance tasks on equipment used at turfgrass facilities, such as, changing oil, working with reel and rotary type mowers and training and safety of operators.

Pre-requisites and/or Co-requisites: None


Required Materials: Notebook

Statement Credit for Prior Learning: There are no Credit for Prior Learning opportunities for this course.

Suggested Materials: None

Course Fees: None
Institutional Outcomes:

Critical Thinking: The ability to dissect a multitude of incoming information, sorting the pertinent from the irrelevant, in order to analyze, evaluate, synthesize, or apply the information to a defendable conclusion.

Effective Communication: Information, thoughts, feelings, attitudes, or beliefs transferred either verbally or nonverbally through a medium in which the intended meaning is clearly and correctly understood by the recipient with the expectation of feedback.

Personal Responsibility: Initiative to consistently meet or exceed stated expectations over time.

Department Outcomes:

Business Department students will be able to:

1. Apply effective business or career-related communication
2. Demonstrate business or career-related human relations skills.
3. Solve business or career-related problems.

Program Outcomes:

Student Learning Outcomes:

1. The student will identify good maintenance practices used on turf equipment.
2. The student will identify tools required for turf maintenance facilities.
3. The student will identify turfgrass facility equipment safety regulations requirements.

Course Objectives:

When the course is completed, the student should know:

1. What is preventative maintenance?
2. How to set up a good preventative maintenance program.
3. What happens if there is no preventative maintenance program.
4. The differences between reel and rotary mowers.
5. The different methods used for grinding reels.
6. Different types of grinding equipment.
7. How to adjust the height of cut.
8. How to sharpen rotary blades.
9. What equipment is necessary to operate a turf maintenance facility.
10. What is the must-have vs. the specials tools needed for the maintenance facility.

11. How to request money for equipment.
12. How to train equipment operators.
13. How to maintain a clean and organized shop.
15. How to handle chemicals.
16. How to prevent accidents in the turfgrass facility.
17. How to report accidents.
18. How to get help from regulatory agencies.

College Procedures: All college-wide procedures are located in the Iowa Central Community College Student Handbook.

Assessments:

TESTS
There will be three tests given during the semester over material covered in lecture, the textbook, and labs at Willow Ridge. Each test will include three chapters in the book. So, Test 1 will be over Chapters 1-3, test 2 over Chapters 4-6, and test 3 over Chapters 7-9. The test will consist of multiple choice, fill in the blank and essay type questions. Test will count 20% towards the final grade for this course.

QUIZZES
There will be quizzes given during the semester. The quizzes will cover material in the book, as well as material covered at the golf course. Quizzes will be multiple choice or true-false questions. Quizzes will count 15% towards the final grade for this course.

ASSIGNMENTS
There will be assignments given during the semester. All assignments are due at the beginning of class. All assignments for the semester will count 15% towards the final grade for the course.

SERVICE RECORDKEEPING JOURNAL

When we work out at Willow Ridge Golf Course, each student will be required to document each piece of equipment that is worked on. This documentation will include items such as how many hours were on the machine when the oil, air, and fuel filters were changed; when was the last time it was greased; and what type and how much oil was put into the machine. This information must be entered into this journal each and
every time you work on a piece of equipment. I will collect the journals every Thursday and there will be a total of ten points possible for the week. The journal will be worth 15% of the final grade.

**FINAL EXAMINATION**
There will be a comprehensive final examination that will cover all material presented during the semester. The test will be an essay format and will count 15% of the final grade.

**PARTICIPATION**
Each student is expected to participate in the activities in lecture and at Willow Ridge. This will also take into consideration your attendance. If you do not attend the class, you will miss out on many activities that we do at Willow Ridge. Each class session that meets at Willow Ridge will be worth a certain amount of points. Points awarded will be based on the amount and quality of work performed during that class. If you must miss a class, let the instructor know, ahead of time, so points can be made up. If the instructor is not notified in advance, no points will be awarded for that class period. Class participation counts more towards the final grade due to the fact that we will be working on the equipment that is used at Willow Ridge golf course. The participation for this class will count 20% towards the final grade.

*Please note that assessments are subject to change.*

Non-discrimination Statement:


If you have questions or complaints related to compliance with this policy, please contact Kim Whitmore, Director of Human Resources, phone number 515-574-1138, whitmore@iowacentral.edu; or the Director of the Office for Civil Rights, U.S. Department of Education, Citigroup Center, 500 W. Madison, Suite 1475, Chicago, IL 60661, phone number 312-730-1560, fax 312-730-1576.

Disability/Accommodation Services:
If you have a request for an accommodation based on the impact of a disability, it is Iowa Central’s policy that you contact the Academic Assistance & Accommodations Coordinator to discuss your specific needs and to provide supporting information and documentation, so we may determine appropriate accommodations. The office for accommodations is located in the Academic Resource Center, and it can be reached by calling 515-574-1045. For online information about accommodations, please go to www.iowacentral.edu/accommodations.

Bias-Free Classroom Statement:

Equipment Operations maintains high standards of respect in regard to individual beliefs and values when selecting classroom materials including textbooks, project activities, power points, videos, presentations, and classroom discussions.

It is our belief that all people have the right to obtain an education within our department/program courses free of bias, with full respect demonstrated to all who enroll in the courses of this department/program.