

NRM 132 Course Outline as of Fall 2019**CATALOG INFORMATION**

Dept and Nbr: NRM 132 Title: CHAINSAW OPER/CARE

Full Title: Chainsaw Safe Operation and Care

Last Reviewed: 1/28/2019

Units		Course Hours per Week		Nbr of Weeks	Course Hours Total	
Maximum	0.50	Lecture Scheduled	0.25	17.5	Lecture Scheduled	4.38
Minimum	0.50	Lab Scheduled	0.75	1	Lab Scheduled	13.13
		Contact DHR	0		Contact DHR	0
		Contact Total	1.00		Contact Total	17.50
		Non-contact DHR	0		Non-contact DHR	0

Total Out of Class Hours: 8.75

Total Student Learning Hours: 26.25

Title 5 Category: AA Degree Applicable

Grading: P/NP Only

Repeatability: 00 - Two Repeats if Grade was D, F, NC, or NP

Also Listed As:

Formerly: NRM 204

Catalog Description:

The proper operation, maintenance, and care of chainsaws.

Prerequisites/Corequisites:**Recommended Preparation:**

Eligibility for ENGL 100 or ESL 100

Limits on Enrollment:**Schedule of Classes Information:**

Description: The proper operation, maintenance, and care of chainsaws. (P/NP Only)

Prerequisites/Corequisites:

Recommended: Eligibility for ENGL 100 or ESL 100

Limits on Enrollment:

Transfer Credit:

Repeatability: Two Repeats if Grade was D, F, NC, or NP

ARTICULATION, MAJOR, and CERTIFICATION INFORMATION:

AS Degree: Area
CSU GE: Transfer Area

Effective: Inactive:
Effective: Inactive:

IGETC: Transfer Area

Effective: Inactive:

CSU Transfer: Effective:

Inactive:

UC Transfer: Effective:

Inactive:

CID:

Certificate/Major Applicable:

Not Certificate/Major Applicable

COURSE CONTENT

Student Learning Outcomes:

At the conclusion of this course, the student should be able to:

1. Comprehend and employ all safety measures related to chainsaw operation and maintenance.
2. Be aware of and recognize hazardous field situations when operating a chainsaw.

Objectives:

At the conclusion of this course, the student should be able to:

1. Perform basic maintenance and trouble-shooting procedures for chainsaw power units.
2. Perform basic maintenance and trouble-shooting procedures for chainsaw electrical systems.
3. Perform basic maintenance and trouble-shooting procedures for chainsaw bar and chains.

Topics and Scope:

- I. Safety Procedures of Chainsaw Operation and Maintenance
 - A. Recognition of hazardous field situations
 - B. Importance of proper equipment maintenance
 - C. Importance of proper safety gear and clothing
 - D. Implementation of proper falling and bucking techniques
 - E. Evaluation of personal factors in chainsaw operation
- II. Saw and Chain Nomenclature
 - A. Two-cycle gas engine theory
 - B. Power system size designation-displacement/horsepower
 - C. Gas and electrical systems
 - D. Bar and chain types and sizes
- III Chainsaw Field Operational Techniques and Procedures*
 - A. Proper falling and bucking techniques
 - B. Recognition of potential hazardous field situations
 - C. Field maintenance and chain sharpening
 - D. Use of axes and wedges in tree falling and bucking
- IV. Bench Maintenance Procedures
 - A. Power unit and fuel system maintenance
 - B. Spark plug and electrical system maintenance
 - C. Chain and bar maintenance
- V. Purchasing a Chainsaw
 - A. Evaluating overall needs and matching equipment with the job

- B. Comparing individual features of different makes and models
- C. Evaluation of maintenance features of different makes and models
- D. Evaluation of operational features of different makes and models

*Lab only

Assignment:

Lecture-Related Assignments:

1. Reading assignments of approximately fifty pages total
2. Written safety exam

Lab-Related Assignments:

1. Field demonstration of proper operational and safety techniques
2. Demonstration of proper bar and chain maintenance techniques

Methods of Evaluation/Basis of Grade:

Writing: Assessment tools that demonstrate writing skills and/or require students to select, organize and explain ideas in writing.

None, This is a degree applicable course but assessment tools based on writing are not included because skill demonstrations are more appropriate for this course.

Writing
0 - 0%

Problem Solving: Assessment tools, other than exams, that demonstrate competence in computational or non-computational problem solving skills.

None

Problem solving
0 - 0%

Skill Demonstrations: All skill-based and physical demonstrations used for assessment purposes including skill performance exams.

Chainsaw use demonstration, field work

Skill Demonstrations
50 - 70%

Exams: All forms of formal testing, other than skill performance exams.

Safety exam: Multiple choice, True/false, Matching items, Completion, Short essay questions

Exams
30 - 50%

Other: Includes any assessment tools that do not logically fit into the above categories.

None

Other Category
0 - 0%

Representative Textbooks and Materials:

Instructor prepared materials.

