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**	Effective:	Inactive:
CSU GE:	**Transfer Area**	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.