



**Heavy Equipment Operation & Maintenance
Diploma - (June Start)
Program Course Requirements
2011-2012
*revised 3/18/11***

Student Name _____ **Student ID#** _____

Course #	Course Title	Credits	Lecture Hrs	Lab Hrs
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REQUIRED COURSES

__ HEOM 1101	Construction Safety and First Aid	1	1	0
__ HEOM 1102	Mechanical Theory	1	1	0
__ HEOM 1107	Tools, Fasteners, Shop Practices	1	0	2
__ HEOM 1108	Heavy Equipment Math/Estimating	2	2	0
__ HEOM 1110*	Preventative Maintenance	5	1	8
__ HEOM 1151	Heavy Equipment Welding	1	0	2
__ HEOM 1165*	Commercial Drivers License	3	0	6
__ HEOM 1200	Intro to Operations	1	0	2
__ HEOM 1211	Servicing I	3	0	6
__ HEOM 1212*	Servicing II	2	0	4
__ HEOM 1261*	General Lab	5	0	10
__ HEOM 2102*	Construction Survey/Blueprints	5	5	0
__ HEOM 2103*	Soils and Compaction	4	3	2
__ HEOM 2110*	Backhoe/Excavator Theory	1	1	0
__ HEOM 2111*	Loader Theory	1	1	0
__ HEOM 2134*	Operations Theory	1	1	0
__ HEOM 2135*	Construction Theory	1	1	0
__ HEOM 2136*	Grading Lab I	5	0	10
__ HEOM 2138*	Grading Lab II	4	0	8
__ HEOM 2140*	Excavation Lab I	3	0	6
__ HEOM 2141*	Excavation Lab II	3	0	6
__ HEOM 2142*	Excavation Lab III	3	0	6
__ HEOM 2150	Competent Person	2	2	0
	Total	58		

GENERAL EDUCATION

Required courses:

__ CCST 1530	Employment Strategies	3	3	0
__ COMP 1101	Computer Fundamentals	3	3	0
	Total	6		

ELECTIVE

__ HEOM 1365	Class A CDL Permit	1	1	0
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GRADUATION REQUIREMENT **64**

*Denotes Prerequisites

NOTE: Students entering the HEOM program must possess a valid Class D driver's license and have the ability to obtain a Class A (CDL) in accordance with the timelines set forth in the HEOM program planning form. Once a student has passed the Class A (CDL), they must maintain the license in a valid status throughout the remainder of the HEOM program.

Courses must be taken in the semester indicated in the program planning form specific to month student began the program. Any deviation from this order requires approval by the HEOM department with full time program students having priority for classes. Students participating in the internship option must maintain a 3.0 cumulative GPA throughout the program.

Evaluator _____ **Date** _____



Heavy Equipment Operation & Maintenance Diploma – **(June Start)** Program Course Requirements 2011-2012

Course #	Course Title	Credits	Lecture Hrs	Lab Hrs
<u>FIRST SEMESTER - SUMMER SEMESTER</u>				
COMP 1101	Computer Fundamentals	3	3	0
HEOM 1101	Construction Safety and First Aid	1	1	0
HEOM 1102	Mechanical Theory	1	1	0
HEOM 1107	Tools, Fasteners, Shop Practices	1	0	2
HEOM 1108	Heavy Equipment Math/Estimating	2	2	0
HEOM 1151	Heavy Equipment Welding	1	0	2
HEOM 1200	Intro To Operations	1	0	2
HEOM 1211	Servicing I	3	0	6
HEOM 2150	Competent Person	2	2	0
	Total	15		
<u>SECOND SEMESTER - FALL SEMESTER</u>				
HEOM 1165*	Commercial Drivers License	3	0	6
HEOM 1212*	Servicing II	2	0	4
HEOM 1261*	General Lab	5	0	10
HEOM 2134*	Operations Theory	1	1	0
HEOM 2136*	Grading Lab I	5	0	10
	Total	16		
<u>THIRD SEMESTER - SPRING SEMESTER</u>				
CCST 1530	Employment Strategies	3	3	0
HEOM 2103*	Soils and Compaction	4	2	4
HEOM 2110*	Backhoe/Excavator Theory	1	1	0
HEOM 2135*	Construction Theory	1	1	0
HEOM 2138*	Grading Lab II	4	0	8
HEOM 2140*	Excavation Lab I	3	0	6
	Total	16		
<u>LAST SEMESTER - SUMMER SEMESTER</u>				
HEOM 1110*	Preventative Maintenance	5	1	8
HEOM 2102*	Construction Survey/Blueprints	5	5	0
HEOM 2111*	Loader Theory	1	1	0
HEOM 2141*	Excavation Lab II	3	0	6
HEOM 2142*	Excavation Lab III	3	0	6
	Total	17		
	GRADUATION REQUIREMENT	64		

*Denotes Prerequisites

In order to receive a degree, diploma, or certificate from Central Lakes College, students must complete one-third of their credits at Central Lakes College. For programs exceeding 60 credits, a maximum of 20 semester credits must be completed at Central Lakes College.

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