



<b>DEGREE</b>	Certificate of Applied Science
<b>CONCENTRATION:</b>	Heavy Equipment Operation

Student ID (790):		Credits Required:	35
Student Name:			
Advisor Name:			

### FALL SEMESTER

COURSE NUMBER	COURSE TITLE	CREDITS	GRADE	NOTES
HEO 146	Safety & Basic Controls	5		
HEO 148	Operational Skill Building	5		
HEO 151	Service and Maintenance	2		
SRVY 108	Basic Surveying I	2		
OSH 110	10-Hour Safety Training	1		
	<b>TOTAL CREDITS</b>	<b>15</b>		

### SPRING SEMESTER

COURSE NUMBER	COURSE TITLE	CREDITS	GRADE	NOTES
M 105	Contemporary Mathematics	3		*or substitute M 105+ (4 cr)
WRIT 101	College Writing I	3		*or substitute WRIT 101+ (4 cr)
COMX 102	Interpersonal Communication in the Workplace	1		
HEO 150	Job Simulation	6		
HEO 153	Construction Theory & Specialized Equipment	5		
WLDG 103	Welding Fundamentals of Construction Trades	2		
	<b>TOTAL CREDITS</b>	<b>20</b>		

### PROGRAM INFORMATION

The Heavy Equipment Operation Program provides the regional workforce with credentialed, skilled and competent heavy equipment operators and to be responsive to emerging workforce needs. The Heavy Equipment Operation Program provides students with a basic understanding of fundamental machine functions and is designed to develop apprentice-level skills in the operation of heavy equipment.

Students are trained to safely and properly operate and maintain a variety of heavy equipment, including crawler-tractors, graders, scrapers, front-end loaders, excavators, backhoes, and dump trucks. Students develop an understanding of basic surveying techniques, receive extensive training in safety regulations and procedures, and learn how to handle controls precisely and judge distances accurately. The program also promotes an awareness of potential job site difficulties and allows students to gain knowledge of the work ethic expected by employers in the construction industry.

### CAREER INFORMATION

Heavy equipment operators are in high demand across MT and the U.S. With a short training program, this certificate leads to sustainable careers with competitive salaries in working in vehicles such as belly dump drivers, tower crane operators, rigging supervisors, gantry crane operators, rig hands, commercial front load drivers, crane operators and other heavy equipment operators.

