



ARTICULATION AGREEMENT

Offered collaboratively by

MONTANA STATE UNIVERSITY-NORTHERN

and

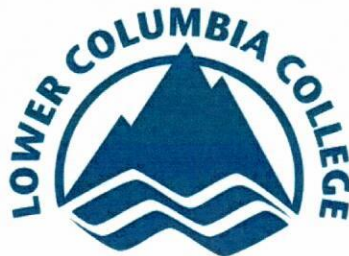
Lower Columbia College

**(Associate of Applied Science – Diesel/Heavy Equipment
Technology)**

For

BACHELOR OF SCIENCE DEGREE

IN DIESEL TECHNOLOGY





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I. SCOPE OF THE PROGRAM

Montana State University-Northern and Lower Columbia College, Long View, Washington, hereby establish an articulation agreement leading to a Bachelor of Science Degree in Diesel Technology. The degree will be conferred by MSU Northern.

II. LENGTH OF AGREEMENT

This agreement will begin spring semester 2017, the next review will be spring semester 2019. The parties commit to a review every other year after the 2019 review.

III. COURSE ARTICULATION

Students completing the **Associate of Applied Science – Diesel/Heavy Equipment Technology** will be granted 62 technical semester credits towards a Bachelor of Science degree in Diesel Technology at MSU Northern. Students must have 39 credits at the upper division (300/400) level and 33 General education credits to complete the degree program. Upon completion of the technical courses as shown in **Exhibit A** and the meeting of all graduation requirements including the general education requirements as shown in **Exhibit B**, a Bachelor of Science degree in Diesel Technology will be awarded. 120 semester credits are required. **Exhibit C** provides an overview of degree requirements.

General education courses listed on the MSU Northern transfer equivalency guide will be accepted to meet part of the 33 credit general education core.

https://atlas.montana.edu:9002/pls/hvagent/hwzkxfer.p_selstate

EXHIBIT A: Required technical courses

Technical Courses to be completed at MSU Northern		Credits
ATDI 384	AT/DI Electrical/Electronic Systems III	4
ATDI 400	Shop Procedures	3
DST 314	Hydraulics & Pneumatics II	4
DST 420	Diesel Shop Management	2
DST 434	Current Model Year Technology (Capstone Course)	3
DST 440	Advanced Fuel Systems	4
DST 450	Diagnosis of Power Shifts/HD Automatics	4
DST 498	Cooperative Education	1
	Total technical requirements	25
	General Education	33 (minimum)
	Transferred Block (Technical courses)	62 (Exhibit C)
	Transferred Block (General Education)	0
	Total for degree completion	120

EXHIBIT B: General Education Requirements

Category I (CAT I) Communication (6 credits)	WRIT 101 AND COMX 111 OR COMX 115 OR WRIT 350
Category II (CAT II) Mathematics	M 121, M 145, M 162, M 171, STAT 216, STAT 217
Category III (CAT III) Natural Sciences (6 credits) Students must take one science course that includes a lab. See course description to verify this requirement.	BIOB 101, BIOB 160, BIOE 110, BIOH 104, BIOH 201, BIOH 211, BIOM 250, BIOO 220, CHMY 121, CHMY 123, CHMY 141, ENSC 245, GEO 101, GEO 314, GPHY 111, PHSX 105, PHSX 205, TSCI 304
Category IV (CAT IV) Social Sciences/History (6 credits)	CMSV 101, ECNS 201, ECNS 202, HSTA 101, HSTA 102, HSTR 101, HSTR 102, HSTA 255, PSCI 210, PSYX 100, SOCI 101, SOSC 201
Category V (CAT V) Cultural Diversity (3 credits)	BGEN 360, NASL 120, NASL 331, NASX 105, NASX 304, NASX 232, NASX 235, NASX 310, NASX 340, NASX 450, NRSB 331, SPCH 245, SPNS 101
Category VI (CAT VI) Humanities Appreciation/Creative Arts (6 credits). It is recommended that baccalaureate candidates complete at least one course in each sub category, for a total of 6 credits.	ARTH 160, ARTH 330, ARTH 340, LSH 201, LIT 110, LIT 210, LIT 211, LIT 223, LIT 224, LIT 230, LIT 309, LIT 327, LIT 363, LIT 382, MUSI 201, PHIL 200, PHIL 210 ARTZ 105, ARTZ 106, ARTZ 231, ARTZ 284, ARTZ 363, CRWR 340, MUSI 103, THTR 105
Category VII (CAT VII) Technology (3 credits)	AOT 301, CAPP 120, CAPP 151, EDU 370, IT 100
<p>Total General Education Credits 33 credits (In order to effectively meet the 39 credit upper division requirement, it is recommended 6 of the general education credits be at the 300 or 400 level)</p>	

- Refer to the current MSU-N transfer equivalency guide, or contact the MSU-N registrar's office for general education equivalencies.
- https://atlas.montana.edu:9002/pls/hvagent/hwzkxfer.p_selstate

EXHIBIT C (Overview of Equivalencies)

Program Technical Requirements	Transfer Courses (calculated in Semester credits)		
ATDI 134 Auto/Diesel Electrical/Electronic Systems I	6	DHET 101 Electrical Systems I (3.35cr), DHET 102 Electrical Systems II (2.65cr)	6
ATDI 257 Automatics	4	Waived	
ATDI 264 Auto/Diesel Electrical/Electronic Syst. II	6	DHET 102 Electrical Systems II (4cr), DHET 215 HD Engine Performance (4cr)	6
ATDI 265 Heating & Air Conditioning	4	DHET 104 Vehicle Climate Control	5.4
ATDI 384 Auto/Diesel Electrical/Electronic Syst. III	4	To be taken at MSU Northern	
ATDI 400 Shop Procedures	3	To be taken at MSU Northern	
DST 104 Intro to Diesel Engines	3	DHET 210 Diesel Engine Rebuild	3
DST 114 Intro to Diesel Engines Lab	3	DHET 210 Diesel Engine Rebuild	3
DST 115 Intro to Diesel Fuel Systems	5	DHET 210 Diesel Engine Rebuild	3
DST 204 Intro to Hydraulics & Pneumatics	2	DHET 141 Hydraulics I	3.4
DST 214 Intro to Hydraulics & Pneumatics Lab	2	DHET 142 Hydraulics II	4
DST 216 Heavy Duty Power Trains	4	DHET 220 HD Power Trains	6.7
DST 219 Heavy Duty Chassis	4	DHET 115 Air Brake Systems (3.4cr), DHET 125 HD Chassis Maintenance (2cr)	5.4
DST 264 Diesel Engine Diagnosis & Repair	3	DHET 210 Diesel Engine Rebuild (1.7cr), DHET 215 HD Engine Performance (3cr)	4.7
DST 274 Diag. Diesel Engine Repair Lab	3	DHET 215 HD Engine Performance	8
DST 273 Diesel Shop Practices	4	DHET 230 Advanced Shop Practices	3.4
DST 314 Hydraulics & Pneumatics II	4	To be taken at MSU Northern	
DST 420 Diesel Shop Management	2	To be taken at MSU Northern	
DST 440 Advanced Fuel Systems	4	To be taken at MSU Northern	
DST 434 Current Model Year Technology	3	To be taken at MSU Northern	
DST 450 Diagnosis of Power Shifts & HD Auto	4	To be taken at MSU Northern	
DST 498 Cooperative Education	3	To be taken at MSU Northern	
WLDG 110 Welding Theory I	2	Waived	
WLDG 111 Welding Theory I Practical	2	Waived	
MCH 200 Machining Processes	3	Waived	
WLDG 260 Repair & Maintenance Welding	3	Waived	
Program Gen. Ed. Requirements See Exhibit B for eligible courses			
<i>CAT I Communications (6 credits)</i>		Please see the Transfer Guide online for courses to fulfill this area	6
<i>Cat II – Mathematics (3 credits)</i>		Please see the Transfer Guide online for courses to fulfill this area	3
<i>Cat III – Natural Sciences (6 credits)</i>		Please see the Transfer Guide online for courses to fulfill this area	6
<i>Cat IV – Social Sciences/History (6 credits)</i>		Please see the Transfer Guide online for courses to fulfill this area	6
<i>Cat V – Cultural Diversity (3 credits)</i>		Please see the Transfer Guide online for courses to fulfill this area	3
<i>Cat VI – Humanities Appreciation/Creative Arts (6 credits)</i>		Please see the Transfer Guide online for courses to fulfill this area	6
<i>Cat VII- Technology (3 credits)</i>		Please see the Transfer Guide online for courses to fulfill this area	3



IV. TUITION AND FEES

Tuition will be billed to each student at MSU Northern's prevailing cost-per-credit rate for all courses.

Western Undergraduate Exchange:

The Western Undergraduate Exchange (WUE) is a program of the Western Interstate Commission for Higher Education (WICHE). Through WUE, students in qualifying states may enroll in many 2-year and 4-year college programs at a reduced tuition level: approximately 150 percent of the institution's regular resident tuition. All degree programs at MSU Northern are open to WUE students.

WUE scholarship applicants must have a complete Admission file for award consideration.

Conditions for enrollment under WUE:

- Maintain a 2.5 GPA
- Minimum of 15 credits per semester of continuous enrollment during fall & spring semesters

Application and admission information:

Refer to the Admissions Office 1-800.622.6132 X3704 or email admissions@msun.edu.

V. ADMISSIONS POLICY AND REQUIREMENTS

Admission requirements for MSU Northern are as follows:

- 1) Completed MSU Northern Application for Admission
- 2) \$30 non-refundable "one-time" application fee
- 3) In order to be in compliance with Montana state law, all degree seeking students or students carrying more than seven (7) credits, who are born on or after January 1, 1957 must show proof of two vaccinations against measles and one against rubella; "or" show documentation from a physician with dates of illness of having contracted measles and rubella; "or" file a notarized medical or religious exemption.
- 4) An official academic transcript from **all** accredited universities, colleges, and vocational technical centers attended. (Official college transcripts must be sent to the Admissions Office in a sealed envelope directly from the institution.)
- 5) Students transferring to MSU Northern must have a minimum cumulative transferable grade point average of 2.0 from all colleges or universities previously attended.

VI. FINANCIAL AID

All enrolled students are eligible to apply for financial aid at MSU Northern. Each student's situation will be evaluated on an individual basis. Students must apply for financial assistance through MSU Northern's Financial Aid Office.



VII. CONTACT INFORMATION

Montana State University-Northern:

Admissions: 1-800-662-6132 ext. 3704
Registrar: 1-800-662-6132 ext. 3703
Financial Aid: 1-800-662-6132 ext. 3787

Student Success Center:

Tracey Jette
Senior Director 1.800.662.6132 ext. 3566
Tracey.jette@msun.edu

College of Technical Sciences: 1.800.662.6132 ext. 3740
Dr. Larry Strizich
Dean, College of Technical Sciences 1.800.662.6132 ext. 3724
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Steven Don
Chair, College of Technical Sciences 1.800.662.6132 ext. 4185
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Greg Clouse
Professor, Diesel Technology 1.800.662.6132 ext.4187
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ARTICULATION AGREEMENT APPROVAL SIGNATURE SHEET

Participating institution: **Lower Columbia College**

Articulated Program: **Associate Applied Science – Diesel/Heavy Equipment Technology**

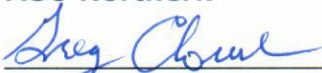
Degree/Credential: **BACHELOR OF SCIENCE Diesel Technology**

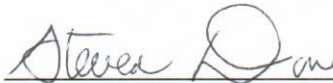
Effective Dates: Start: Spring Sem. 2017 Review: Spring Sem. 2019

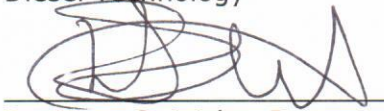
New Agreement Review


The undersigned have read and concur with the applicable policies and procedures for the attached articulation agreement.

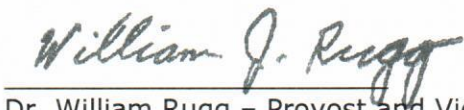
MSU Northern


 Greg Clouse - Professor
 Diesel Technology

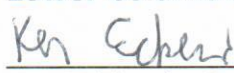

 Steven Don - Chair
 College of Technical Sciences
 Associate Professor,
 Diesel Technology



 Dr. Larry Strizich - Dean
 College of Technical Sciences


 Alisha Schroeder - Registrar


 Dr. William Rugg - Provost and Vice
 Chancellor for Academic Affairs

Lower Columbia College


 Ken Ecklund - Program Instructor
 Diesel Technology


 Tamra Bell - Dean of Instruction


 Brendan Glaser - Vice President of
 Instruction