



Registrar

ARTICULATION AGREEMENT

Offered collaboratively by

MONTANA STATE UNIVERSITY-NORTHERN

and

BATES TECHNICAL COLLEGE

(Associate of Technology Degree –Diesel & Heavy Equipment Mechanic)

For

***BACHELOR OF SCIENCE DEGREE
IN DIESEL TECHNOLOGY***

I. SCOPE OF THE PROGRAM

Montana State University - Northern (MSUN) and Bates Technical College (BTC) hereby establish an articulation agreement leading to a Bachelor of Science Degree in Diesel Technology. The degree will be conferred by MSUN.

II. LENGTH OF AGREEMENT

This agreement will begin fall semester 2011. The parties commit to a review every two years. The next review will be fall semester 2013.

III. COURSE ARTICULATION

Students completing the **Associate of Technology Degree in Diesel & Heavy Equipment Mechanic** at BTC will be granted 64.36 semester credits toward a Bachelor of Science degree in Diesel Technology at MSUN. Students must have 39 credits at the upper division (300/400) level to complete the degree program. Upon completion of the following 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 MSUN transfer equivalency guide will be accepted to meet part of the 33 credit general education core.



MONTANA STATE UNIVERSITY NORTHERN

EXHIBIT B (*Gen. Ed. Requirements)

Category I	<i>Communication:</i> WRIT 101 or WRIT 350 SPCH 141 or SPCH 142 (6 credits)
Category II	<i>Mathematics:</i> M 121 or higher (3 credits)
Category III	<i>Natural Sciences w/ lab:</i> ENSC 245, BIOB, BIOM, BIOO, BIOH, BIOE, CHMY, GEO, GPHY 111, GSCI, NSCI, PHYS, TSCI 110, TSCI 230, TSCI 304, TSCI 320 (6 credits)
Category IV	<i>Social Sciences / History:</i> CMSV 101, ECNS 201, 202, 372, HSTA101, 102, 255, PSYX 100, 230, PSCI 201, 250, 471, SOCI 101, 241, SOSC 201 (6 credits)
Category V	<i>Cultural Diversity:</i> NASL 120, 121, 331 NASX 105, 310, 235, 376, 450, NRSRG 331, SOCI 315, SPNS 101, 102, BUS 365 (3 credits)
Category VI	<i>Fine Arts / Humanities</i> ARTH 100, ARTZ 105, ARTZ 106, ARTZ 107, ARTZ 254, ARTZ 363, ARTH 330, ARTH 340, DRMA 109, ENGL 330, 310, 311, GDSN 270, LIT 110, 210, 211, 223, 224, 230, 309, 327, 363, MUSI 201, MUSI 103, PHIL 200, 210 (3 credits)
Category VII	<i>Technology:</i> AGSC 310, CAPP 120, EDU 370, IT 100 (3 credits)
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+ level)	

- 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



MONTANA STATE UNIVERSITY NORTHERN

EXHIBIT C (Overview of Equivalencies)

Program Tech Requirements		BTC Equivalencies
ATDI 134 Auto/Diesel Electrical/Electronic Systems I	4	BLOCK TRANSFER DIESL 111
ATDI 265 Heating & Air Conditioning	4	BLOCK TRANSFER DIESL 114
ATDI 264 Auto/Diesel Electrical/Electronic Systems II	4	BLOCK TRANSFER DIESL 112
ATDI 257 Automatics	4	DIESL 119
ATDI 384 Auto/Diesel Electrical/Electronic Systems III	4	To be completed at MSU-N
ATDI 400 Shop Procedures	3	To be completed at MSU-N
DIES 104 Intro to Diesel Engines	3	BLOCK TRANSFER DIESL 105 & 106
DIES 114 Intro to Diesel Engines Lab	3	BLOCK TRANSFER DIESL 107 & 108
DIES 115 Intro to Diesel Fuel Systems	4	BLOCK TRANSFER DIESL 109 & 201
DIES 204 Intro to Hydraulics & Pneumatics	2	BLOCK TRANSFER DIESL 103
DIES 214 Intro to Hydraulics & Pneumatics Lab	2	BLOCK TRANSFER DIESL 104
DIES 216 Heavy Duty Power Trains	4	BLOCK TRANSFER DIESL 115, 116, 117, 118, 121
DIES 262 Diesel Engine Diagnosis & Repair	2	BLOCK TRANSFER DIESL 113
DIES 272 Diagnosis & Repair Lab	4	BLOCK TRANSFER DIESL 203
DIES 219 Heavy Duty Chassis	4	BLOCK TRANSFER DIESL 110, 120, 122
DIES 273 Diesel Shop Practices	4	BLOCK TRANSFER DIESL 204, 205
DIES 314 Hydraulics & Pneumatics II	4	To be completed at MSU-N
DIES 420 Diesel Shop Management	2	To be completed at MSU-N
DIES 440 Advanced Fuel Systems	4	To be completed at MSU-N
DIES 434 Current Model Year Technology	3	To be completed at MSU-N
DIES 450 Diagnosis of Power Shifts & HD Automatics	4	To be completed at MSU-N
DIES 489 Cooperative Education	1	To be completed at MSU-N
WLDG 110/WLDG 111 Welding Theory I & Welding Theory I Practical	4	BLOCK TRANSFER WBAS 101
METL 155 Machining Processes	3	To be completed at MSU-N
WLDG 260 Repair & Maintenance Welding	3	To be completed at MSU-N
TSCI 304 (meets Gen. Ed. Cat III) Fuels & Lubricants	(3)	To be completed at MSU-N
Program Gen. Ed. Requirements		
See Exhibit B for eligible courses		
Cat I – Communications (6 credits) WRIT 101 and SPCH 141 or 142		CMST & 220 Public Speech
Cat II – Mathematics (3 credits)		MATH& 141 or 146 or 151
Cat III – Natural Sciences (6 credits)		Please see the Transfer Guide online for courses to fulfill this area
Cat IV – Social Sciences/History (6 credits)		PSYC&100 or SOC&101
Cat V – Cultural Diversity (3 credits)		Please see the Transfer Guide online for courses to fulfill this area
Cat VI – Fine Arts/Humanities (6 credits)		Please see the Transfer Guide online for courses to fulfill this area
Cat VII – Technology (3 credits)		Please see the Transfer Guide online for courses to fulfill this area



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

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 two-year and four-year college programs at a reduced tuition level: 150 percent of the institution's regular resident tuition. WUE tuition is considerably less than nonresident tuition. All Degree Programs at MSU-N 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 grade point average in at least 15 credits per semester of continuous enrollment during the fall and spring semesters.

Application and admission information:

Submit WUE Scholarship application and Admission application to:

Montana State University-Northern

Admissions Office

P.O. Box 7751

Havre, MT 59501

(800) 662-6132

V. ADMISSIONS POLICY AND REQUIREMENTS

Admission requirements for MSUN are as follows:

- 1) Completed MSUN 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 MSUN 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 MSUN. Each student's situation will be evaluated on an individual basis. Students must apply for financial assistance through MSUN's Financial Aid Office.



MONTANA STATE UNIVERSITY NORTHERN

ARTICULATION AGREEMENT APPROVAL COVER SHEET

Participating institution: **BATES TECHNICAL COLLEGE (Associate of Technology Degree in Diesel & Heavy Equipment Mechanic)**

Articulated Program: **DIESEL TECHNOLOGY**

Degree/Credential: **BACHELOR OF SCIENCE**

Effective Dates: Start: Fall Semester 2010

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

MSU – Northern

Greg Clouse - Program Instructor

Larry Strizich - Chair, COTS

Gregory Kegel - Dean, COTS

Lindsey Brown - Registrar

Rosalyn Anstine Tempeton - Provost

Joseph Callahan - Interim Chancellor

Bates Technical College

Mick McGuire - Program Instructor

Wayne Caldwell - Dean of FST/Diesel

Mike Brandstetter - Dean of Instruction

Lyle Quasim - President