

#### **Internal Program Review** Self-Study Report

#### Program Name

Automotive Technology

<u>Credentials Offered</u> Associate of Applied Science Automotive Technology: 71 semester credits

## Self-Study Completed by:

David Jones, Faculty Joe Zimmerman, Faculty

### Date Completed:

September 26, 2014



#### A. Introduction

The Automotive Technology curriculum consists of eight areas of study as defined by the National Institute for Automotive Service Excellence (ASE) and is certified by the National Automotive Technicians Education Foundation (NATEF). This non-profit corporation is dedicated to improving the quality of automotive service and repair as well as assisting in training and program development throughout the nation. The eight content areas of study, along with the College's general education requirements, are structured into four groups with all eight areas of study being offered during a two-year period. Successful completion of this program prepares students to enter the automotive job market.

#### B. Alignment with mission, strategic goals and core themes.

#### Helena College Mission

Helena College University of Montana, a comprehensive two-year college, provides access to and support of lifelong educational opportunities to our diverse community

#### Automotive Technology Program Mission Statement

The Helena College Automotive Technology Program provides an educational environment for students to acquire entry level skills for success in the automotive repair field and other related industries.

The Automotive Technology Program Mission aligns with the Helena College-UM Mission through the provision of access to educational opportunities throughout the College service area. The Automotive Technology Program prepares entry-level technicians automotive maintenance, diagnosis, and repair.

#### Helena College 2012-22 Strategic Goals

- 1. Partner for Student Success Integrate Assessment/Planning
- 2. Attain Excellence
- 3. Support the Community
- 4. Advance the Institution
- 5. Develop Resources

#### Automotive Technology Goals

- 1. Collaborate with business, industry, and the community as partners to provide a quality learning experience that gives graduates the best opportunity to gain employment
- 2. Solicit input from our constituents including, students, graduates, advisory board members, business, industry, faculty, staff, and administration concerning the operation and improvement of the program and career tracks which align with NATEF Standards
- Assess student and program performance through the use of outcomes assessment, Program Review and Evaluation Process, job placement rates, employer and graduate surveys
- 4. Increase enrollment through recruiting efforts including; business, industry, government, professional organizations, and high schools



Automotive Technology Goals are perfectly aligned with Helena College-UM Strategic Goals and Core Themes. This alignment is illustrated in the Goals/Core Themes crosswalk below:

Helena College Strategic Goals	Automotive Technology Goal Alignment
Partner for Student Success	Increase enrollment through recruiting efforts including; business, industry, government, professional organizations, and high schools
Integrate Assessment & Planning	Assess student and program performance through the use of outcomes assessment, Program Review and Evaluation Process, job placement rates, employer and graduate surveys
Attain Excellence	Solicit input from our constituents including, students, graduates, advisory board members, business, industry, faculty, staff, and administration concerning the operation and improvement of the program and career tracks which align with NATEF Standards
Support the Community	Collaborate with business, industry, and the community as partners to provide a quality learning experience that gives graduates the best opportunity to gain employment
Advance the institution	
Develop Resources	Collaborate with business, industry, and the community as partners to provide a quality learning experience that gives graduates the best opportunity to gain employment

#### Helena College-UM Core Theme Alignment with Automotive Technology

- Provide Access and Support: High quality educational activities and programs important to achieving student success
  - Premier Montana 2-year program in Automotive Technology
  - Rigorous Program of Study
  - Curriculum aligns with NATEF standards and prepares students for ASE Exams
  - The Helena College-UM Automotive Technology Program is one of four Associate of Applied Science Degree offerings in Automotive Technology in Montana.
- Demonstrate Academic Excellence: Integrity, quality and reliability in all academic and non-academic programming
  - In the academic year 2012/13 the Automotive Faculty administered a nationally recognized annual End of Program Student Assessment test developed by National Automotive Technician Education Foundation (NATEF). The test series consists of eight individual written exams following National Institute for Automotive Service Excellence (ASE) master certification standards. These tests are administered to all graduating automotive students
    - Spring 2013: 40 Tests administered, 100% Pass
    - Spring 2014: 48 Tests administered, 100% Pass



- The automotive program successfully completed a NATEF accreditation review process and was awarded a Master Certification level in the spring 2014. This accreditation is valid through June 20, 2019.
- Strengthen the Community: Meeting regional workforce needs, strengthening employee knowledge and skills, providing a bridge to additional educational attainment, and serving as a facilitator for cultural enrichment
  - The Automotive Technology Program strengthens the community by preparing students to meet local, regional, state and national workforce needs.

The need for highly skilled automotive technicians has grown consistently and will continue to do so until through 2022. Based on this trend, it is anticipated that the need will continue to grow beyond 2022. The Montana Department of Labor reports the need for automotive technicians. Graduates are prepared for ASE Certification Examination, used as the industry standard.



#### C. Alignment with community needs

Due to high demand for highly skilled workers in the automotive industry, Helena College-UM meets the workforce development needs of the community by training technicians for entry-level employment. The Montana Department of Labor and Industry projects continued and steady Montana employment opportunities for graduates of this program from 2012 through 2022. (extracted from

http://www.ourfactsyourfuture.org/cgi/dataanalysis/occprjReport.asp?menuchoice=occprj, September 26, 2014)

Area Code Occupation Automotive Service MONTANA493023Technicians and	Yr 2012		nings <sup>••</sup> Openings of to to	Annu	
Mechanics					
		ry and Regions i			
Area <sup>●Ind</sup> Code  Industry	♦Occ Code ♦	Occupation	Est Yr- Numer Proj Yr Chang		
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Region Trade, 5 102100 Transportatio and Utilities	n, 493023 Te	utomotive Service echnicians and echanics	2012- 2022	31	19.3

#### D. Student participation and success

Helena College-UM enrolls 1,627 students with a full-time equivalent of 1,066. 789 of our students are full-time; (48%); 277 of our students are part-time (52%). The breakdown of General Education to Technical to Trades and non-degree seeking is:

General Education Students: 623 (38% of headcount) Technical Students: 453 (28% of headcount) Trades Students: 181 (11% of headcount) Non-Degree Seeking Students: 89 (5% of headcount)

Our students enroll from Lewis & Clark County at the rate of 75%; and from adjacent counties 12% (Broadwater, Jefferson, Cascade, Powell, and Meagher). The remainder of student



enrollment comes from the rest of Montana (11%) and out-of-State/Western Undergraduate (2%).

#### Automotive program student enrollment history 2003-2014

	1										
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Fall	14	6	9	10	13	6	18	14	8	10	10
Total Program	34	22	18	21	20	21	29	33	42	28	23

#### Automotive Technology Program Student Retention

FY 2008/09	FY2009/10	FY2010/11	FY2011-12	FY2012-13	Five Year
					Average
62%	44%	62%	54%	33%	52%

From 2008 through 2013, the Automotive Technology program capacity has been an average of 88%. Program completion rates average 40%.

#### E. Student Learning Outcomes

Upon successful completion of the program, students will be able to:

- Demonstrate safe shop practices and hazardous material handling
- Diagnose and repair automotive electrical systems to NATEF Standard
- Diagnose and repair automotive engine performance, fuel, and emission control systems to NATEF Standard
- Diagnose and repair automotive brakes suspension, and steering systems to NATEF Standard
- Diagnose and repair automotive internal combustion engine systems to NATEF Standard.
- Diagnose and repair automotive powertrain systems (manual and automatic transmission/transaxles and drive axles) to NATEF Standard
- Diagnose and repair automotive heating and air conditioning systems as to NATEF Standard

Assessment of student learning outcomes occurs within individual program courses and all student learning outcomes are assessed through an end-of-program assessment using ASE certification examinations.



# F. Curriculum

# Automotive Technology

Length of Program: Type of Program: <i>NOTE:</i>	4 Semesters Associate of Applied Science In order to take the first semester of Automotive Technology courses, students in prove their skills in Mathematics, Reading Comprehension, and Writing with the following: Placement into READ070 or higher Placement into WRIT121 or higher Placement into WRIT121 or higher Placement into M111T or higher	
	FIRST YEAR	
Fall Semester AST108 AST130 AUTO104 M111T Total Semester Credits	Automotive Manual Drive Trains Introduction to Automotive Electronics Automotive Mechanics Technical Mathematics	7 7 2 3 19
Spring Semester AST160 AST172 AST230 HT100T Total Semester Credits	Automotive Engine Repair Automotive Heating/ Air Conditioning Electric/Electronics Systems II Human Relations	6 5 4 2 17
	SECOND YEAR	
Fall Semester <u>AST118</u> <u>AST262</u> <u>WRIT121T</u> Total Semester Credits	Brakes Chassis Engine Performance I Introduction to Technical Writing	7 8 3 18
Spring Semeste <u>AST264</u>	er Engine Performance II	5

<u>AST264</u>	Engine Performance II	5
<u>AST270</u>	Automotive Transmissions/ Transaxles	7



<u>AST280</u>	Applied Laboratory Experience/ Light Repair	5
Total Semester Credits		17
TOTAL CREDITS		71
G. Facult	ty Profiles	

Helena College UM employs two full-time automotive technology instructors in tenured and tenure-track positions.

Jones, Dave

#### **Automotive Technology**

Certified Advanced Level Specialist ASE Master Certified Technician B.T., Northern Montana College M.S., Montana State University - Northern At Helena College since fall 1994

#### Zimmerman, Joe

#### **Instructor-Automotive** ASE Master Certified Technician A.A.S., Ferris State University At Helena College since Fall 2011

#### H. Fiscal and Physical Resources

Infusions of budgetary support for Automotive Technology occurred when equipment maintenance and repair and purchase of new equipment was required.

FY2010/11	FY2011-12	FY2012-13	FY2013-14
13,163	23,630	21,875	18,909

The automotive program was awarded funding by the state legislature to build a new auto shop in 2007. In addition to the yearly automotive budgets, several major pieces of shop equipment have been purchased including a computerized four wheel alignment system, a computerized wheel balancer, tire machine, chassis dynamometer, and an automatic transmission dynamometer were purchased over the last several years. In the spring of 2014, two Toyota Prius were purchased for hybrid vehicle instruction.



#### I. Recommendations and Preliminary Implementation Plan

- 1. Update curriculum and skill development to include development, study and maintenance of alternative fuel vehicles, particularly electric vehicles. Purchase two Toyota Prius Vehicles equipped with electric and solar power, smart stop technology, and stability control.
- 2. Instructor professional development. Two instructors to attend 2015 Center for Advanced Automotive Technology Conference in Michigan.
- Contracted services to integrate of Electric Vehicle Technology Certificate Program, using National Stem Consortium Curriculum. 1-year plan to outline equipment and staffing needs.
- 4. Build career awareness by partnering with industry partners, secondary schools and US Department of Labor Job Service.
- 5. Initiate Student Professional Organization which will include student participation in statewide skills competition

#### J. Program Review Data Summary

See Program Review Data Summary in Section K.

#### K. Appendix (Additional data or exhibits)

NATEF Program Re-Accreditation Letter (June 2014)



#### Helena College – Aviation Maintenance Technology 3/18/13

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N/A	-				79%		Institutional Research
	A N			85%	76%	Entering students returning	Institutional Research
		N/A	N/A	N/A	N/A	the following fall semester	Institutional Research
1% 82%/5	6/96% 9	93%/99%	92%/92%	88%/100%	89%/95%	Pass or C- or better each term	
43%	6 5	57%	67%	62%	55%	% entering students	Institutional Research
Fall 06	106 F	Fall 07	Fall 08	Fall 09		graduating with 3 years	
0%	N	N/A	N/A	N/A	0%	No part-time students	Institutional Research
						entering Fall 05/06 graduated	
6		13	7	11	9		Institutional Research
18	4	40	23	34	28	# of completers per 100 FTE	Institutional Research
						enrollment	
-	-	-	-	-	-	Any documentation on pass	Program Records
						rates for FAA exam?	
		Year 3	Year 4	Year 5	5 Year	Program Notes	Source
08/09	09 0	09/10	10/11	11/12	Ave		
\$4,54	,544 \$	\$4,051	\$5,848	\$3,487	\$4,482		Institutional Research/Finance
1 \$7,30	,367 \$	\$6,872	\$6,024	\$6,328	\$6,836		MUS-OCHE
\$24,5	4,536 \$	\$10,158	\$25,064	\$10,367	\$17,756		Institutional Research
44 624	4,392 \$	\$36,209	\$33,220	\$29,193	\$33,905		MUS-OCHE
11   234.3	-	\$5,472					
		33,4/2	\$5,688	\$6,048	\$5,296	H60390 Program Fee	Finance/Program Records
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#### NATIONAU AUTOMOTIVE TECHNICIANS EDUCATION FOUNDATION, INC.

June 12, 2014

Program 1D: 101224

Dr. Daniel Bingham Dean/CEO Helena College 2300 Airport Rd. Helena, MT 59601

Dear Dr. Bingham:

We have received the on-site evaluation results for your *Automobile* technician-training program at *Helena College*. The results indicate that your program continues to meet the requirements for NATEF *Muster Automobile Service Technology* Accreditation – the highest level of achievement recognized by the National Automotive Technician Education Foundation (NATEF).

We commend you and your staff for maintaining your program's standards, and continuing to meet the industry's requirements. The explosion in automotive technology makes your high quality automotive training program more valuable than ever.

To acknowledge your accomplishment, we are creating a plaque for you that will indicate your program accreditation. You should receive this plaque within 6-8 weeks.

Sincerely,

Patricia Servatore President, NATEF

Daniel Bingham, Dean/CEO
 Troy Spratling, ETL
 Darrell Parks, NATEF Education Consultant

Accreditation Expiration Date: 06/2019

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