

# IDAHO STATE UNIVERSITY COLLEGE OF TECHNOLOGY

## PROGRAM TITLE: AUTOMOTIVE TECHNOLOGY

Information included in this handout may change at anytime without notice and should not be considered as a binding contract between Idaho State University and students.

### Program Options & Length:

Automotive Technology, Advanced Technical Certificate	3 Semesters
Automotive Technology, Associate of Applied Science degree	4 Semesters

**Entry dates for this program:**  
August, October, January, and May

**Approximate cost for books, tools, & supplies:**  
**\$1,720 to \$1,948**  
(See below for registration fees.)

**For more information, Contact:**  
Idaho State University  
College of Technology  
Student Services Office  
Campus Box 8380  
Pocatello, ID 83209-8380  
208-282-2622  
e-mail: [ctech@isu.edu](mailto:ctech@isu.edu)  
[www.isu.edu/ctech/](http://www.isu.edu/ctech/)

**Job Description:** An automobile technician must be able to use both mind and hands in order to be proficient in today's industry. There are over 100 different automotive related jobs. Anyone who is adequately trained and possesses mechanical and technical skills and dexterity can qualify. They do preventive maintenance and major repairs on all component parts such as engine overhaul, brake repair, front-end alignment, tune-up, automatic transmission repair, etc. Over 150,000 computer-trained mechanics will be needed to meet industry's demands in the next six years. Therefore, a good electrical background is helpful. Math and reading skills are necessary for proper diagnosis and repair. Specialized digital and computer test equipment presently being used require sharp individuals who desire to extend themselves for rapid advancement.

**Aptitudes and Interests:** Individuals must have a desire to work independently to reach for excellence and perform the work within specified time limits. Troubleshooting charts require reading, math and problem-solving aptitudes. The ability to meet and communicate with strangers and to enjoy a variety of work experiences enhance your chances for success. Interests in engine design, reading about building cars, power trains and computers are helpful.

**Educational and Other Requirements:** Must possess a driver's license; it is necessary to test drive vehicles and move cars in and out of the shop. You should be able to drive both a manual- and automatic-shift vehicle, and be willing to purchase your own tools. Completion of high school or GED is required.

### Helpful High School Courses:

Auto Technology Course (if available)    Basic Math, Reading and Comprehension

### TUITION AND FEES

Fees apply to the current Idaho State University fee schedule located at <http://www.isu.edu/finserv/costinfo.shtml>.

Fees include **mandatory** student health insurance, any student with existing health insurance coverage may be exempt and waivers are available at <http://www.isu.edu/stuhlth/insurance/pp.html>.

## ADMISSION STEPS

- Complete and return an Application for Admission along with a check or money order for \$40 (non-refundable), payable to Idaho State University. You may also apply online via the Idaho State University home page: [www.isu.edu](http://www.isu.edu) . Click on Prospective Students.
- Submit official college transcripts, if applicable, from each accredited institution of higher education that you have attended.
- Submit an official copy of your high school transcript or GED scores (Not required if you have completed and submitted proof of 14 or more academic credits from an accredited institution of higher education.)
- Meet with a College of Technology counselor, if desired, to obtain more in-depth information. To make an appointment, call (208)282-2622.
- Either:
  1. Complete the COMPASS Placement test. This test enables us to place you in the appropriate classes to enhance your success in college.
  2. Submit ACT/SAT scores, valid for seven (7) years from the date of testing. ACT scores are not required for acceptance to the College of Technology, however they are required to qualify for some scholarships
- Apply for financial aid if needed. Questions, call (208) 282-2756.
- Former College of Technology students who have been out of school one semester or more must complete the necessary forms in the Student Services office before returning to the program. Re-entering student must meet the requirements as outlined in the catalog effective at the date of their re-enrollment.

**Idaho State University subscribes to the principles and laws of the State of Idaho and the federal government, including applicable executive orders pertaining to civil rights. All rights, privileges, and activities of the University are made available without regard to race, creed, color, sex, age, disability, national origin or veteran status. The University is an Equal Opportunity and Affirmative Action employer. Evidence of practices that are not consistent with such a policy should be reported to: Leonard E. "Buddy" Frazier, Affirmative Action Director; Museum Building, Room 422 Box 8315.E-mail [frazleon@isu.edu](mailto:frazleon@isu.edu), (208) 282-3964.**

**Idaho State University is committed to equal opportunity in education for all students, including those with documented disabilities. If you have a diagnosed disability or if you believe that you have a disability that might require reasonable accommodations, please contact: Dennis J. Toney, ADA Disabilities and Resource Center Director; Gravely Hall, Room 123 Box 8121.E-mail [tonedenn@isu.edu](mailto:tonedenn@isu.edu), (208)282-3599.**

**Licensure, certification, and/or employment applications related to some degree programs require students to disclose any history of criminal prosecution which may include the student's driving record. Students who have a criminal history are strongly encouraged to contact the licensing agency or meet with the coordinator of the program they are interested in, prior to beginning classes, to discuss potential impediments to licensure, certification, or employment.**

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### COURSE SEQUENCE

**Note: Each course lasts 8 weeks, 6 hours a day, 5 days a week - except holidays. Approximately 2 hours a day are spent in class and 4 hours a day in lab or shop.**

#### 1st Semester

ATC	AAS	Course #	Course Title	Credits
x	x	AUTM 102	Power Train	8
x	x	AUTM 103	Automotive Engines	8
x	x	AUTM 100	Intro to Auto Technology	1

#### 2nd Semester

ATC	AAS	Course #	Course Title	Credits
x	x	AUTM 104	Automotive Electrical Units	8
x	x	AUTM 101	Vehicle Control	8

#### Summer Session (1/2 semester)

ATC	AAS	Course #	Course Title	Credits
x	x	AUTM 105	Live Work I	8

#### 3rd Semester

ATC	AAS	Course #	Course Title	Credits
x	x	AUTM 106	Live Work II	8

#### 4th Semester

ATC	AAS	Course #	Course Title	Credits
x	x	AUTM 201	Advanced Electrical Systems	8

**Students will also need to schedule the following classes if they are seeking the Associate of Applied Science degree:** six (6) credits in communication from GOAL 1 (ENGL 101, 102); three (3) credits from GOAL 3 (mathematics); three (3) credits from GOALS 6, 7, 9, 10A, 11, or 12; and four (4) additional credits from any courses meeting the requirements of GOALS 2 through 12.

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### BOOK AND TOOL LIST

Textbooks may be purchased at the University Bookstore located at the Pond Student Union - Building #14. Textbooks may also be purchased or reserved on-line through [www.efollett.com](http://www.efollett.com) or the bookstore's website at [www.isu.edu/bookstor](http://www.isu.edu/bookstor). Payments may be made with cash, check, VISA, Mastercard, American Express, or Discover. A shipping charge will be added for mail orders. See the bookstore's website for more information on purchasing or reserving books or for refund policy information. **Save Your Receipts!**

Approximate total book and tool costs for this program's options are listed below.  
Additional book costs will vary depending on the courses taken to fulfill  
general education requirements for the AAS degree.

For a breakdown of books by individual class requirements, you must check your course curriculum.

**NOTE: PRICES ARE SUBJECT TO CHANGE AT ANYTIME WITHOUT PRIOR NOTIFICATION**

#### BOOKS LISTED BY COURSE:

##### AUTM 103 AUTOMOTIVE ENGINES

AUTOMOTIVE TECHNOLOGY (W/CD)	0131754775	111.00
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<b>APPROXIMATE TOTAL – BOOKS</b>		<b>\$111.00</b>
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#### SUPPLIES & OTHER EXPENSES:

DESCRIPTION	APPROXIMATE PRICE
Binder, Large 3 inch, 3-ring, Loose-leaf	3.00
Dividers, Loose-leaf (1pkg)	1.00
Paper, Loose-leaf (1 pkg)	2.00
Pencils, #3 (6)	1.00
Pencils, colored (1 pkg)	1.00
Pens, ball point (2)	1.00
Class fee (\$16.00 for each class - AUTM 101, 102, 103, 104, 105, 106)	96.00
Graduation Application fee for first Certificate/Degree	20.00
Optional fee for any additional Certificate/Degree	(10.00)
<b>APPROXIMATE TOTAL SUPPLIES &amp; OTHER EXPENSES</b>	<b>\$125.00</b>

#### COVERALL PROGRAM (REQUIRED):

1. The coverall program is on a rental basis.
2. The laundry will supply each student with 3 pairs of coveralls.
3. There is a \$14.00 rental and laundry fee for each session - \$84.00 to \$112.00 total.
4. The Rental fee is due at registration-fee payment time.

If you wish to purchase the uniforms you may do so with the Automotive Technology Department.  
A refund will be forthcoming from your registration fee.

<b>APPROXIMATE TOTAL COVERALLS</b>	<b>\$84.00 to \$112.00</b>
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**TOOLS:****1/4" Drive**

- 1 Ratchet
- 2 Extensions-2" & 4"
- 1 Universal Joint
- 1 Socket Set-3/16" to 1/2"
- 1 Socket Set-5mm to 13mm
- 1 Adapter-1/4" to 3/8"

**3/8" Drive**

- 1 Ratchet
- 1 Speed Handle
- 3 Extensions- 1", 3", & 12"
- 1 Universal Joint
- 1 Socket Set-3/8" to 7/8"
- 1 Deep Socket Set-3/8" to 7/8"
- 1 Socket Set-6mm to 19mm
- 1 Deep Socket Set-6mm to 19mm
- 2 Spark Plug Sockets-5/8" & 13/16"
- 1 Set of Torx Drive Bits
- 1 Set of Hex Drive Bits
- 1 Adapter-3/8" to 1/2"

**1/2" Drive**

- 1 Ratchet
- 1 Breaker Bar-18"
- 2 Extensions-3" & 6"
- 1 Socket Set-7/16" to 1 1/4"
- 1 Socket Set-10mm to 21mm
- 1 Adapter-1/2" to 3/8"

**Wrenches**

- 1 Combination Wrench Set-1/4" to 1"
- 1 Combination Wrench Set-8mm to 9mm
- 1 Flare Nut Wrench Set-Standard
- 1 Flare Nut Wrench Set-Metric
- 1 Allen Wrench Set-Standard
- 1 Allen Wrench Set-Metric
- 1 Crescent Wrench-10"
- 1 Oil Filter Wrench-Small & Large

**Screwdrivers**

- 1 Screwdriver Set-Standard & Phillips
- 1 Torx Set-T 10 to T 30

**Optional tools**

- 1/2" Torque wrench, 1/2" Impact gun
- 3/8" Air Ratchet, Impact sockets,

**Pliers**

- 1 Slip Joint-7" to 8"
- 1 Side Cutter-7" to 8"
- 1 Channel Lock-12"
- 1 Needle Nose
- 1 Vise Grips-8" to 10"
- 1 Snap Ring-Internal & External
- 1 Wire Stripper/Crimper

**Miscellaneous Tools**

- 1 Plastic Tip Hammer
- 1 Ball Peen Hammer
- 1 Rubber Mallet
- 1 Safety Glasses
- 1 Tire Pressure Gauge
- 1 Tire Air Chuck
- 1 Pry Bar
- 1 Ladies Foot
- 1 Punch & Chisel Set
- 1 Brass Drift-6"
- 1 Mill File & Handle-10"
- 1 Hacksaw
- 1 Gasket Scraper
- 1 Fluorescent Trouble Light
- 1 Pocket Flashlight (mag light)
- 1 Ignition Spark Tester
- 1 Inspection Mirror
- 1 Magnetic Pick-up Tool
- 1 Measuring Tape
- 1 Set of Feeler Gauges
- 1 Brake Adjustment Tool
- 1 Brake Hold Down Spring Tool
- 1 Blow Gun
- 1 Battery Post Cleaner (brush type)
- 1 Wire Brush
- 1 Test Light-12 Volt
- 1 Spark Plug Gapping Tool
- 1 Digital Volt Meter-Fluke 87 or Higher
- 1 Pick Set-4 Piece

**Toolbox**

- 6-Drawer Chest
- 5-Drawer Roll-away

**APPROXIMATE TOTAL TOOLS****\$1,400.00 to \$1,600.00**

**PROGRAM COST SUMMARY**

<b>APPROXIMATE TOTAL BOOKS</b>	<b>\$111.00</b>
<b>APPROXIMATE TOTAL SUPPLIES &amp; OTHER EXPENSES</b>	<b>\$125.00</b>
<b>APPROXIMATE TOTAL COVERALLS</b>	<b>\$84.00 to 112.00</b>
<b>APPROXIMATE TOTAL TOOLS</b>	<b>\$1,400.00 to \$1,600.00</b>

<b>APPROXIMATE TOTAL - TECHNICAL PROGRAM</b>	<b>\$1,720.00 to \$1,948.00</b>
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ANTICIPATE ADDITIONAL EXPENSES ASSOCIATED WITH THIS PROGRAM:  
**TEXTBOOKS ASSOCIATED WITH ACADEMIC COURSES,**  
TRANSPORTATION, PARKING, CHILD CARE, HOUSING.  
YOU MUST CHECK YOUR CLASS SCHEDULE TO DETERMINE TEXTBOOKS REQUIRED BY INSTRUCTOR.