



## AAS-T Degree

# Automotive Technology

### Year One (Sample schedule)

#### Quarter One (Fall)

- ATEC 100 Basic Automotive .....2
- ATEC 110 Automotive Steering and Suspension.....6
- ATEC 115 Automotive Brake Systems.....6
- F A 100 Industrial First Aid or  F A 105 Basic Industrial First Aid .....1

#### Quarter Two (Winter)

- ATEC 105 Automotive Engines.....10
- ENGL& 101 English Composition I.....5

#### Quarter Three (Spring)

- ATEC 201 Automotive Electrical Systems I .....6
- ATEC 215 Manual Drivetrains and Axles .....8
- MATH& 107 Math in Society .....5

### Year Two (Sample schedule)

#### Quarter Four (Fall)

- ATEC 200 Engine Performance 1- Basic Fuel.....6
- ATEC 202 Automotive Electrical Systems II .....6
- ATEC 210 Automatic Transmissions and Transaxles .....6
- CMST& 220 Public Speaking or  CMST& 210 Interpersonal Communication.....5

#### Quarter Five (Winter)

- ATEC 203 Automotive Electrical Systems III .....6
- ATEC 205 Engine Performance II- Advanced Fuels.....6
- ATEC 212 Automotive Heating and Air Conditioning .....6

#### Quarter Six (Spring)

- ATEC 206 Engine Performance III- Driveability .....6
- ATEC 225 Automotive Repair .....5
- ATEC 291 Internship..... 3-5
- Natural Science-Advisor Approved .....5

Choose one (**Fall/Winter/Spring**)

- ECON 101 Intro to Economics or  SOC& 101 Intro to Sociology or  PSYC& 100 General Psychology.....5

**Total Credits Required 114-116**

### Specifics

#### Length of Program

Courses with prerequisites, and the placement level of the student, may extend the Length of Program listed on this page.

#### Which Quarter Can I begin?

The typical student schedule is based on entering the program during the fall quarter, however some programs allow students to enter in the winter or spring as well. Since not all do, please confirm with an advisor whether this program must be started during a specific quarter or not.

#### A Note About Transfer Degrees

Students who wish to transfer to four-year colleges/universities or to technical institutions should obtain the institution's catalog and review the requirements for the program to which they would like to transfer. Faculty advisors will work with the student to develop an educational plan to meet requirements for a transfer.

#### Details

**Completion Award:** AAS-T Degree  
**Length of Program:** 6 Quarters  
**Program Code:** AUMATAAS

#### Program Coordinator (contact with questions)

Mike Hansen (360) 417-6540  
 Office: Q-7 [mhansen@pencol.edu](mailto:mhansen@pencol.edu)

**Apply online:** <http://pencol.edu/GetStarted>



## AAS-T Degree

# Automotive Technology

### Program Description

Peninsula College's Automotive Technology program is designed, in consultation with the college's Automotive Technology advisory committee, to meet the needs of the modern-day workplace. Curriculum combines theory and hands-on experiences in the technical and interpersonal skills necessary to be a productive member of the automotive workforce. Emphasis is on the use of sophisticated equipment to keep automobiles operating in an environmentally sound and physically safe condition. Successful completion of this program leads to an Associate of Applied Science Transfer degree in Automotive Technology. The AAS-T option may improve the transferability of Associate of Applied Science degrees to some four-year programs.

### Special Features

- The Automotive Technology program is certified by the National Automotive Technicians Education Foundation (NATEF).
- This program offers proficiency certificates in several specific areas of Automotive Technology.
- This program contains courses which are articulated through the Tech Prep program with one or more area high schools. This course is indicated with TP on the course requirements.

### Student Learning Outcomes

When this program is completed, the student will be able to:

- Recognize unsafe situations that may occur in an automotive repair shop; identify the safety precautions that should be taken; relate the proper application of safety procedures; demonstrate safe operation of available equipment.
- Demonstrate use of appropriate hand tools and a broad understanding of basic test equipment.
- Apply a systematic approach; communicate effectively with owner/operators; project proper company image; demonstrate integrity/sound judgment; exhibit positive attitude/self-esteem; exhibit initiative (self-starter); demonstrate good housekeeping, planning, and organizational skills; show attention to details.
- Perform necessary technical adjustments; verify actual symptoms; demonstrate knowledge of subassembly and components; use appropriate manuals and diagnostic tools; evaluate cost of corrective actions; demonstrate ability to interpret results, apply math to solve technical problems, and use specialized equipment.
- Demonstrate manual dexterity, resourcefulness, creativity, and mechanical skills; use sensory perceptions and logical approach to problem-solving/trouble-shooting.
- Interpret and understand manuals, drawings, specifications, and procedures; demonstrate proper reading and application of technical literature; use correct terminology; complete industry ASE testing.
- Demonstrate competencies to succeed in the selected career pathways workplace.
- Demonstrate workplace specific skills, teamworks and customer service.

### Program Prerequisites

College-level skills in English and math (eligibility for courses numbered 100 or higher) are recommended before registering for the English, math, or applied math courses required in this program. Student placement is determined by previous coursework and the placement test. Students should have basic computer skills or complete 4 credits of Computer Applications course(s) during Fall quarter of their first year.

### Career Opportunities

The automotive technician of today is a far cry from the mechanic of years gone by and must keep up with the complex and rapidly changing technologies in new vehicles. Technicians work hard to continue their education and sharpen their skills in order to keep pace, thereby increasing their employment opportunities, salaries, and benefits. The demand for automotive technicians should remain strong over the next decade.

### Potential Positions and Earning

Automotive Sales Persons, Maintenance Managers, Service Writers, Parts Counter Persons, Skilled Automotive Technician

**For current employment and wage estimates, please visit and search for the relevant occupational term:**

[www.bls.gov/oes](http://www.bls.gov/oes)

### Assessment

Students are required to place into the English and math/applied math courses required for this program. Learn more about placement options by visiting the Assessment and Placement website: <http://www.pencol.edu/placement-testing>

### Approximate Additional Costs

Books, supplies and miscellaneous fees (per quarter)	\$125.00 - \$300.00
Tools	\$3000.00
ASE Testing	\$200.00