AUTOMOTIVE TECHNOLOGY

College of Rural and Community Development
Community and Technical College
907-455-2932
www.ctc.uaf.edu/programs/Automotive/

Certificate

Minimum Requirements for Certificate: 34 credits

The automotive technology program provides students with the education and training needed to become an entry-level automotive technician. The automotive service industry is constantly changing as cars become more complicated. Highly trained technicians are needed to understand, diagnose and repair modern automobiles.

The program emphasizes hands-on training and in-class experience as students perform preventive maintenance inspections, determine causes of equipment problems and make necessary repairs and adjustments to the complex systems that make up today's cars. The certificate training qualifies students for entry-level positions within the automotive service and repair industry in the areas of electricity/electronics, brakes, suspension and alignment, and engine performance.

Successful graduates from the automotive technology program go on to careers in dealerships, independent shops, service/IM stations, fleet repair facilities and aviation ground support. Salaries vary depending on job placement and the student's skill level.

Certificate Program

1. Complete the general university requirements (page 95).

2. Complete the certificate requirements. (See page 97. As part of the certificate requirements, the communication, computation and human relations content are embedded in the major required courses for this program).

3. Complete the following program (major) requirements:*
   AUTO F102—Introduction to Automotive Technology....................3
   AUTO F110—Basic Electrical Systems...................................3
   AUTO F122—Engine Theory and Diagnosis 3
   AUTO F131—Automotive Electrical II 3
   AUTO F150—Brake Systems 4
   AUTO F162— Suspension Alignment....................................4
   AUTO F190—Automotive Practicum I...............................4
   AUTO F202—Auto Fuel and Emissions Systems 4
   AUTO F222—Automotive Engine Performance 3
   AUTO F227—Automotive Electrical III 3

4. Minimum credits required 34
   * *Students must earn a C grade or better in each course.*

U N I V E R S I T Y   O F   A L A S K A   F A I R B A N K S
Office of Admissions and the Registrar • P.O. Box 757480 • Fairbanks, AK 99775-7480 • admissions@uaf.edu • www.uaf.edu
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Certificate Requirements

Communication . . . . 2 – 3 Credits

Complete one of the following:
- ENGL F111X—Introduction to Academic Writing...(3)
- ABUS F170—Business English..(3)
- ABUS F271—Business Communications ....(3)
- ENGL F211X—Academic Writing about Literature..................................(3)
- ENGL F212—Business, Grant and Report Writing* ....(3)
- ENGL F213X—Academic Writing about the Social and Natural Sciences ......(3)
- COMM F131X—Fundamentals of Oral Communication: Group Context .....(3)
- COMM F141X—Fundamentals of Oral Communication: Public Context......(3)
  or successful completion of competency test
- DEVS F104—University Communications...(1 – 3)
- DEVS F105—Intensive Reading Development ....(3)
- Other program-approved discipline-based communication course or discipline-based courses with embedded communication content...........(2 – 3)

*	ENGL F212 does not fulfill the second half of the written communication requirement for the bachelor's degree.*

Computation. . . . . 2 – 3 Credits

Complete one of the following:
- Any course at the F100-level or above in mathematical sciences (computer science, math or statistics). ....(3)
- ABUS F155—Business Math...(3)
- DEVM F105—Intermediate Algebra...(3)
- ECE F117—Math Skills for Early Childhood Educators...........................(3)
- HLTH F116—Mathematics in Health Care ....(3)
- HUMS F117—Math Skills for Human Services ....(3)
- TTCH F131—Mathematics for the Trades ....(3)
- Other program-approved discipline-based computation course or discipline-based courses with embedded computation content. ....(2 – 3)

Human Relations . . . . 2 – 3 Credits

Complete one of the following:
- ANTH F100X/SOC F100X—Individual, Society and Culture(s) ....(3)
- ABUS F154—Human Relations ....(3)
- ANL F287—Teaching Methods for Alaska Native Languages (h)....................(3)
- ECE F104—Child Development: Prenatal, Infants and Toddlers (s) ....(3)
- ECE F107—Child Development II: Preschool and Primary Years (s) ....(3)
- ED/PSY F245—Child Development (s) ....(3)
- HLTH F106—Human Behavior in Health Care (s) ....(3)
- HUMS F120—Cultural Diversity in Human Services...............................(3)
- RHS F110—Cross-Cultural Bridging Skills (1) AND RHS F115—Issues of Personal Development ....(2)
- Other program-approved discipline-based human relations or discipline-based courses with embedded human relations content. ....(2 – 3)

Major specialty at least..**21 Credits**

Electives to total ....**30 Credits**

Associate of Applied Science Requirements

Written Communication. . . . . 6 Credits

- ENGL F111X—Introduction to Academic Writing...(3)

Complete one of the following:
- ABUS F271—Business Communications ....(3)
- ENGL F211X—Academic Writing about Literature..................................(3)
- ENGL F212—Business, Grant and Report Writing* ....(3)
- ENGL F213X—Academic Writing about the Social and Natural Sciences ......(3)

*	ENGL F212 does not fulfill the second half of the written communication requirement for the bachelor's degree.*

Oral Communication . . . . 3 Credits

Complete one of the following:
- COMM F131X—Fundamentals of Oral Communication: Group Context .....(3)
- COMM F141X—Fundamentals of Oral Communication: Public Context......(3)
  or successful completion of competency test

Computation. . . . . 3 Credits

Complete one of the following:
- Any course at the F100-level or above in mathematical sciences (computer science, math or statistics). ....(3)
- ABUS F155—Business Math...(3)
- DEVM F105—Intermediate Algebra...(3)
- ECE F117—Math Skills for Early Childhood Educators...........................(3)
- HLTH F116—Mathematics in Health Care ....(3)
- HUMS F117—Math Skills for Human Services ....(3)
- TTCH F131—Mathematics for the Trades ....(3)
- Other program-approved discipline-based computation course or discipline-based courses with embedded computation content. ....(3)

Human Relations . . . . 3 Credits

Complete one of the following:
- ANTH F100X/SOC F100X—Individual, Society and Culture (s) ....(3)
- ABUS F154—Human Relations ....(3)
- ANL F287—Teaching Methods for Alaska Native Languages (h)....................(3)
- ECE F104—Child Development: Prenatal, Infants and Toddlers (s) ....(3)
- ECE F107—Child Development II: Preschool and Primary Years (s) ....(3)
- ED/PSY F245—Childhood Development (s) ....(3)
- HLTH F106—Human Behavior in Health Care (s) ....(3)
- HUMS F120—Cultural Diversity in Human Services...............................(3)
- RHS F110—Cross-Cultural Bridging Skills (1) AND RHS F115—Issues of Personal Development ....(2)
- Other program-approved discipline-based human relations course or discipline-based courses with embedded human relations content. ....(3)

Major specialty at least..**30 Credits**

Electives to total ....**60 Credits**

Minimum credits required for degree ....**60 Credits**