

## ADVANCED AUTOMOTIVE TECHNOLOGY

### PROGRAM

- Associate of Science (A.S.)



**HARTNELL  
COLLEGE**

#### DESCRIPTION

The Advanced Automotive Technology Program is designed to provide students with the skills and knowledge necessary to succeed as technicians in a professional auto repair shop. The curriculum provides classroom and hands-on learning experience in a state-of-the-art laboratory which provides students with the opportunity to apply the basic theories of automotive technology. Diagnosis and repair procedures performed on vehicles enable students to develop the skill levels required for placement in the automotive technology industry. Additionally, the program also offers Snap-On certifications that are industry recognized.

#### TRANSFER PREPARATION

Courses that fulfill major requirements for an associate degree may differ from those needed to prepare for transfer. Students who plan to transfer to a four-year college or university should schedule an appointment with a Hartnell College counselor to develop a student education plan before beginning their program.

#### TRANSFER RESOURCES

www.ASSIST.org – CSU and UC Articulation Agreements and Major Search Engine

CSU System Information - <http://www2.calstate.edu>

#### FINANCIAL AID

Paying for the cost of a college education requires a partnership among parents, students and the college. As the cost of higher education continues to rise we want you to know that Hartnell College offers a full array of financial aid programs, federal loan programs, and fee waivers.

<https://www.hartnell.edu/students/fa/net-price-calculator.html>

#### LEADS TO CAREER OPPORTUNITIES SUCH AS:

- Automotive Mechanic
- Diesel Service Technician
- Shop Foreman
- Small Engine Mechanic
- Tractor Engine Mechanic
- Transmission Specialist
- Truck Technician

# ADVANCED AUTOMOTIVE TECHNOLOGY (AS.AAT)

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## ASSOCIATE OF SCIENCE

**Program Outcomes:** Upon successful completion of this program a student will be able to:

- apply knowledge of personal and environmental safety practices to promote a safe work environment and environmental responsibility.
- apply appropriate automotive theories, concepts, principles, methods, and laboratory skills to an automotive repair setting.
- research applicable vehicle and service information using automotive manuals in print and electronic formats, pertinent websites, and diagnostic equipment to identify, analyze, propose correction, and correct problems of all major automotive systems.
- acquire Snap-On industry-recognized certifications.
- demonstrate basic computer literacy skills.

### Required Major Courses (44 units)

<input type="checkbox"/> AAT-100 – Introduction to Automotive Repair	4.0
<input type="checkbox"/> AAT-101 – Engine Rebuild	4.0
<input type="checkbox"/> AAT-110 – Climate Control	4.0
<input type="checkbox"/> AAT-120 – Electrical and Electronic Systems	4.0
<input type="checkbox"/> AAT-121 – Electronic Systems and Controls	4.0
<input type="checkbox"/> AAT-130 – Engine Performance	4.0
<input type="checkbox"/> AAT-140 – Brake Systems	4.0
<input type="checkbox"/> AAT-141 – Steering and Suspension	4.0
<input type="checkbox"/> AAT-150 – Manual Transmissions and Drivetrain	4.0
<input type="checkbox"/> AAT-151 – Automatic Transmissions	4.0
<input type="checkbox"/> BUS-43 – Business Info Systems and Info Literacy	4.0
<b>OR</b>	
<input type="checkbox"/> BUS-50 – Introduction to PC Applications	4.0

**SUBTOTAL: 44 UNITS**

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### General Education – Required Courses

*Students must complete one of the following General Education Plans:*

**HCCD GE** (see page 68) *MAT-126 or higher*

- Natural Sciences    Social & Behavioral Sciences    Humanities  
 Ethnic Groups in the US    Language and Rationality

**SUBTOTAL: 21 UNITS**

*Students can double-count required courses and courses for General Education*

- **Electives (Courses Numbered 1-199) required when degree units plus GE units total fewer than 60.**
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**TOTAL: 65 UNITS**