

AUTOMOTIVE SERVICE & REPAIR

ASSOCIATE IN APPLIED SCIENCE (AAS) DEGREE

DESCRIPTION: Upon completion of the Master Certificate, an Associate in Applied Science Degree can be earned by completing English, math, and political science courses.

GENERAL EDUCATION REQUIREMENTS CREDITS: 12

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| ENG 120 <i>or</i> ENG 111 | APPLIED COMMUNICATION (3/3) <i>or</i> ENGLISH COMPOSITION I (3/3) |
| ENG 123 <i>or</i> ENG 112 | TECHNICAL COMMUNICATION (3/3) <i>or</i> ENGLISH COMPOSITION II (3/3) |
| MTH 110 <i>or</i> MTH 113 <i>or</i> MTH 115 | TECHNICAL MATH (3/4) <i>or</i> INTERMEDIATE ALGEBRA (4/4) <i>or</i> APPLIED ALGEBRA & TRIGONOMETRY (5/6) |
| PLS 221 <i>or</i> PLS 222 <i>or</i> HST 221 & HST 222 | AMERICAN GOVERNMENT REQUIREMENT (3/3) |

CORE PROGRAM REQUIREMENTS CREDITS: 54

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| AUT 118 | AUTOMOTIVE FUNDAMENTALS (4/6) |
| AUT 119 | AUTOMOTIVE BRAKE SYSTEMS (5/8) |
| AUT 122 | AUTOMOTIVE AIR, FUEL & EMISSIONS SYSTEMS (4/6) |
| AUT 123 | AUTO SUSPENSION, STEERING & ALIGNMENT (5/8) |
| AUT 124 | AUTO ELECTRICAL & ELECTRONICS SYSTEMS I (5/8) |
| AUT 125 | AUTO ELECTRICAL & ELECTRONICS SYSTEMS II (5/8) |
| AUT 201 | COMPUTERIZED ENGINE CONTROLS (4/6) |
| AUT 202 | ENGINE PERFORMANCE DIAGNOSIS & TUNE-UP (5/8) |
| AUT 205 | AUTO CLIMATE CONTROL (3/4) |
| AUT 207 | HYBRID & ELECTRIC VEHICLES (4/6) |
| AUT 209 | AUTOMOTIVE TRANSMISSIONS & DRIVE TRAINS (5/8) |
| AUT 221 | ENGINE REPAIR & OVERHAUL (5/8) |

MINIMUM 66 CREDIT HOURS/97 CONTACT HOURS

NOTES:

Tool Requirements: Students are required to provide their own safety equipment, work clothes, and basic hand tool set. A list is provided. Estimated cost is \$1,000 to \$2,500. Special student discounts and deferred payment programs are available. A quality set of hand tools is required for future employability.

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ASSOCIATE IN APPLIED SCIENCE (AAS) DEGREE
SUGGESTED SEQUENCE OF COURSES

YEAR 1 (FALL SEMESTER) CREDITS: 19

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| AUT 118 | AUTOMOTIVE FUNDAMENTALS (4/6) |
| AUT 119 | AUTOMOTIVE BRAKE SYSTEMS (5/8) |
| AUT 123 | AUTO SUSPENSION, STEERING & ALIGNMENT (5/8) |
| AUT 124 | AUTO ELECTRICAL & ELECTRONICS SYSTEMS I (5/8) |

YEAR 1 (SPRING SEMESTER) CREDITS: 18

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| AUT 122 | AUTOMOTIVE, FUEL & EMISSIONS SYSTEMS (4/6) |
| AUT 125 | AUTO ELECTRICAL & ELECTRONICS SYSTEMS II (5/8) |
| AUT 201 | COMPUTERIZED ENGINE CONTROLS (4/6) |
| AUT 202 | ENGINE PERFORMANCE DIAGNOSIS & TUNE-UP (5/8) |

YEAR 1 (SUMMER SEMESTER) CREDITS: 7

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| AUT 205 | AUTOMOTIVE CLIMATE CONTROL (3/4) |
| AUT 207 | HYBRID & ELECTRIC VEHICLES (4/6) |

YEAR 2 (FALL SEMESTER) CREDITS: 11-13

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|------------------------------|------------------------------------------------------------------------|
| AUT 221 | ENGINE REPAIR & OVERHAUL (5/8) |
| ENG 120 <i>or</i> ENG 111 | TECHNICAL COMMUNICATION (3/3) <i>OR</i> ENGLISH COMPOSITION I (3/3) |

| | |
|---------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| MTH 110 <i>or</i> MTH 113 <i>or</i> MTH 115 | TECHNICAL MATH (3/4) <i>OR</i> INTERMEDIATE ALGEBRA (4/4) <i>OR</i> APPLIED ALGEBRA & TRIGONOMETRY (5/6) |
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YEAR 2 (SPRING SEMESTER) CREDITS: 11

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|---------|-----------------------------------------|
| AUT 209 | AUTO TRANSMISSIONS & DRIVE TRAINS (5/8) |
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|------------------------------|-------------------------------------------------------------------------|
| ENG 123 <i>or</i> ENG 112 | TECHNICAL COMMUNICATION (3/3) <i>or</i> ENGLISH COMPOSITION II (3/3) |
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|-------------------------------------------------------------|---------------------------------------|
| PLS 221 <i>or</i> PLS 222 <i>or</i> HST 221 & HST 222 | AMERICAN GOVERNMENT REQUIREMENT (3/3) |
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