

AUTOMOTIVE TECHNOLOGY DIRECT ASSESSMENT COMPETENCY-BASED EDUCATION



Associate in Science

Career/Technical* (Major Code: CBE02)

Based on the National Institute for Automotive Service Excellence Certification Program (ASE). Skills learned in the Automotive Technology (Direct Assessment Competency-Based Education) program fulfill the needs of beginning and advanced students and those in the field who require upgrading. Prepares students for the National ASE Certification exams. This program is a competency-based program that requires students to perform defined competencies at a mastery level or higher. This program is a direct assessment program and requires completion of coursework online and demonstration of mastery of competencies in the Automotive Technology lab.

Program Student Learning Outcome

- The students will inspect, diagnose, and repair automotive components.

Code	Title	Units
Program Competency Requirements		
The list below includes the requirements for the program and includes the number, title, and equivalent units for program competencies. Each program requirement carries a unit value and is equivalent to a traditional SWC course.		
ATCBE 99	INTRODUCTION TO BASIC AUTOMOTIVE SERVICE: SHOP SAFETY (CBE)	1
ATCBE 101	INTRODUCTION TO BASIC AUTOMOTIVE SERVICE (CBE)	3
ATCBE 102	AUTOMOTIVE SCIENCE AND BASIC MECHANICS (CBE)	3
ATCBE 109	AUTOMOTIVE BRAKING SYSTEMS (CBE)	3
ATCBE 110	AUTOMOTIVE SUSPENSION, ALIGNMENT, AND STEERING (CBE)	3
ATCBE 120	ENGINE PERFORMANCE I (CBE)	3
ATCBE 130	AUTOMOTIVE BASIC ELECTRICAL SYSTEMS (CBE)	3
ATCBE 131	AUTOMOTIVE HEATING, COOLING, AND AIR CONDITIONING (CBE)	3
ATCBE 140	ENGINE REPAIR (CBE)	3
ATCBE 220	ENGINE PERFORMANCE II (CBE)	3

ATCBE 230	AUTOMOTIVE ADVANCED ELECTRICAL SYSTEMS (CBE)	3
ATCBE 234	AUTOMATIC TRANSMISSIONS AND TRANSAXLES (CBE)	3
ATCBE 236	MANUAL TRANSMISSION, TRANSAXLES, AND FINAL DRIVES (CBE)	3
ATCBE 242	CLEAN AIR CAR (CBE)	3
ATCBE 247	AUTOMOTIVE EMISSION SYSTEMS AND COMPUTERIZED ENGINE CONTROLS (CBE)	3

General Education Competency Requirements for the Associate Degree

The list below includes the general education requirements that are specifically designed for the CBE Accelerate program. Though the number of competencies in each requirement varies, each requirement carries a unit value and is equivalent to a traditional SWC course. **Only students enrolled in a CBE Accelerate program may enroll in CBE general education courses.**

ENGLCBE C1000	ACADEMIC READING AND WRITING (CBE) Satisfies Area 1A for SWC General Education Pattern	4
COMM CBE C1000	INTRODUCTION TO PUBLIC SPEAKING (CBE) Satisfies Area 1B for SWC General Education Pattern	3
PSYCCBE 270	STATISTICS FOR THE BEHAVIORAL SCIENCES (CBE) Satisfies Area 2 for SWC General Education Pattern	3
HUMCBE 104	INTRODUCTION TO THE ARTS AND HUMANITIES (CBE) Satisfies Area 3 for SWC General Education Pattern	3
CDCBE 135	PRINCIPLES OF FAMILY DEVELOPMENT (CBE) Satisfies Area 4 for SWC General Education Pattern	3
PHSCBE 101	INTRODUCTION TO PHYSICAL SCIENCES (CBE) Satisfies Area 5 for SWC General Education Pattern	3

Area 6 Ethnic Studies (Consult with a counselor for options for meeting this requirement.)

Additional coursework may be required to satisfy the Ethnic Studies general education requirement and the SWC Lifelong Learning and Wellness graduation requirement to earn the associate degree.

Total Units 65

To enroll in the Automotive Technology Direct Assessment Competency-Based Education Associate in Science program (CBE02), students are required to submit the CCCApply application to declare the program as their intended program of study. Students are required to complete an online orientation and to meet with a SWC counselor prior to enrollment in the program. Upon completion of the program, students will receive a "competency transcript" listing all program competencies and the level of mastery earned for each. In addition, students will receive a traditional transcript indicating the credit courses deemed equivalent to the direct assessment program.

To earn this associate degree, students in the direct assessment, competency-based education program must complete additional general

education and graduation requirements designed specifically for the competency-based education program.