



## [Catalog 2025-2026]

### Automotive Electric Vehicle Tech (Associate in Science) | Major Code 02873

This sample course map does not represent a contract or guarantee course availability, nor does it replace meeting with a [Counselor](#) to discuss your goals and create a [Student Education Plan](#) designed to fit your unique needs.

This map includes general education (GE) courses satisfying: [Associate Degree \(A.A./A.S.\) GE Requirements](#). Additional corequisite support courses may be required with math and English. This map shows approximately 15 units each semester or 30 units a year. Taking classes during Summer and/or January intersession are also an option.

#### 1<sup>st</sup> Semester Recommendation

| Course             | Course Title                                   | Units |
|--------------------|------------------------------------------------|-------|
| AT 101             | Introduction to Basic Automotive Service       | 3     |
| AT 102             | Automotive Science and Basic Mechanics         | 3     |
| AT 109             | Automotive Braking Systems                     | 3     |
| AT 110             | Automotive Suspension, Alignment, and Steering | 3     |
| ENGL C1000 (GE-1A) | Academic Reading and Writing                   | 4     |

Total semester units: 16 Units

#### 2<sup>nd</sup> Semester Recommendation

| Course | Course Title                                      | Units |
|--------|---------------------------------------------------|-------|
| AT 120 | Engine Performance I                              | 3     |
| AT 130 | Automotive Basic Electrical Systems               | 3     |
| AT 131 | Automotive Heating, Cooling, and Air Conditioning | 3     |
| AT 140 | Engine Repair                                     | 3     |
| GE-2   |                                                   | 3     |
| GE-4   |                                                   | 3     |

Total semester units: 18 Units

#### OPTIONAL SUMMER TERM

#### 3<sup>rd</sup> Semester Recommendation

| Course | Course Title                                      | Units |
|--------|---------------------------------------------------|-------|
| AT 220 | Engine Performance II                             | 3     |
| AT 230 | Automotive Advanced Electrical Systems            | 3     |
| AT 234 | Automotive Transmissions and Transaxles           | 3     |
| AT 236 | Manual Transmission, Transaxles, and Final Drives | 3     |

| Course | Course Title | Units |
|--------|--------------|-------|
| GE-1B  |              | 3     |
| GE-3   |              | 3     |

**Total semester units: 18 Units**

#### 4<sup>th</sup> Semester Recommendation

| Course                    | Course Title                                                            | Units |
|---------------------------|-------------------------------------------------------------------------|-------|
| AT 190                    | Introduction to Hybrid, Electric, and Alternative Fuel Vehicles         | 1     |
| AT 191                    | Basic Hybrid, Electric, and Alternative Fuel Vehicle Concepts           | 2     |
| AT 192                    | Intermediate Hybrid, Electric, and Alternative Fuel Vehicle Electronics | 1     |
| AT 193                    | Advanced Hybrid, Electric, and Alternative Fuel Vehicle Concepts        | 2     |
| GE-5                      |                                                                         | 3     |
| GE-6                      |                                                                         | 3     |
| Lifelong & Wellness Grads |                                                                         | 3     |

**Total semester units: 15 Units**

**Total Program Units: 67 units**

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#### Disclaimers:

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- This program map is designed with Fall as a first semester; however, this is not required. [Schedule a Counseling appointment](#) to develop a comprehensive student education to achieve your goal.
- **Catalog Rights: [Excerpt from 2025-2026 Southwestern College Catalog]**  
A student's catalog rights are established at the time of entrance and completion of a course at Southwestern College. When continuous enrollment is maintained, students may choose their catalog rights for general education and graduation requirements in effect at the time of entrance to Southwestern College, or any catalog year thereafter. A student who petitions for an Associates Degree for Transfer who lacks catalog rights will be placed under the catalog in effect at the time the graduation petition is submitted.
- **Continuous Enrollment: [Excerpt from 2025-2026 Southwestern College Catalog]**  
Continuous enrollment is defined as completion of a course during at least one semester or two quarters in a calendar year, including summer session, in either the CSU, UC, or California Community College System after time of entrance to Southwestern College (effective enrollment fall 2023). Completing a course is defined as receiving a grade of A, B, C, D, F, I, Pass (P), or No Pass (NP). Receiving a grade of "W", "EW" or "MW" will not satisfy the requirements for completing a course. The grade of "EW" or "MW" does not disqualify a student from continuous enrollment.

**[AA/AS Local Degree General Education]**