Santa Rosa Junior College

Program Resource Planning Process

Automotive Technology 2024

1.1a Mission

Santa Rosa Junior College's Advanced Transportation and Logistics Program is dedicated to equipping students with the knowledge, skills, and hands-on experience needed to excel in the rapidly evolving fields of automotive and medium-heavy duty truck technology. Through a comprehensive curriculum that integrates cutting-edge industry practices, emerging vehicle technologies, and real-world problem-solving, our program prepares students for advanced entry-level employment and long-term career growth in this dynamic and rewarding industry.

We emphasize technical proficiency, critical thinking, and professional development, ensuring that graduates are not only proficient in diagnostics, repair, and maintenance but also prepared to adapt to the future of transportation, including electric and hybrid vehicle technologies. With access to state-of-the-art training facilities, experienced faculty, and strong industry partnerships, students gain the practical expertise and certifications necessary to meet the demands of employers in both the public and private sectors.

By fostering a learning environment that values innovation, sustainability, and safety, the Advanced Transportation and Logistics Program at Santa Rosa Junior College empowers students to become skilled professionals who contribute to the advancement of the transportation industry while promoting efficiency, environmental responsibility, and technological excellence.

1.1b Mission Alignment

The Advanced Transportation and Logistics Program is in perfect alignment with the District's Mission. We benefit the community we serve by: teaching and learning in support of associate degree, certificate and workforce preparation . Our students go into society ready to work, earn a living and contribute to the community.

We have also addressed the Student Learning Outcomes and Assessment initiative by scheduling all course and program SLOs.

The Advanced Transportation and Logistics Program has also addressed the Community Outreach, Development & Involvement initiative through increased articulation with area high school vocational training programs, and hosting tours from local high schools.

1.1c Description

The Advanced Transportation and Logistics Program offers day and nigth classes, which lead to multiple degrees and certificates in Automotive Technology and Medium and Heavy Truck Technology.

This certificate series of classes provides the student with a general education in transportation equipment theory of operation, repair shop procedures, and repair tools and techniques.The student can choose to complete the certificate(s) in 3, 4 or 5 semesters.

A student who completes the certificate requirements and the necessary general educational requirements can also earn an A.S. Degree in Automotive Technology or Medium and Heavy Truck (MHT) Technology. The program also offers evening classes that provide continuous training opportunities for day certificate students and students working in the Transportaion Industry. The automotive program offers California Bureau of Automotive Repair approved classes that allow students to obtain or retain a Smog Check License.

To better serve the needs of our diverse student body, the Advanced Transportation and Logistics Program has several skill certificates in place. These certificates are aligned with Automotive Servce Excellence (ASE) training criteria, which means that they meet current industry standards. The certificates also give students a document of training verification and recognition that may be helpful in a job application process or to obtain a pay increase in an existing job. Many of our students, who do not have time to complete the full Automotive Technology or MHT certificate, find these certificates useful.

The Advanced Transportation and Logistics Program currently offers skill certificates and degrees in the following areas (with unit and ASE certification prep areas):

Automotive / Light duty

Automotive Fundamental Certificate (17 Units - ASE A1, 6 & 7)

Automotive Brakes and Chassis Certificate (17 Units - ASE A4, 5 & 6)

Automotive Transmission Certificate (17 Units - ASE A2, 3 & 6)

Autonomous Vehicle Certificate (29 Units - ASE A4, 6, 7 & L3)

Automotive Maintenance and Light Repair Certificate (32 Units - ASE A1 - 8)

Automotive Technology Degree (**AS**) (60 units - ASE A1 - 8)

Automotive Diagnostic Technician Certificate (26 Units - ASE A1, 2, 6, 7 & 8)

Automotive Diagnostic Technician Degree (**AS**) (61 units - ASE A1, 2, 4, 6, 7, 8 and L3)

Engine Machining Certificate (25 units - ASE A1 & 8, AMT machining)

Medium-Heavy Truck Duty (formerly Diesel Equipment; includes offroad, agriculture and construction)

Medium Heavy Truck Fundamentals Certificate (Units 19 - ASE T6 & 7)

Medium Heavy Truck Brakes and Chassis Technology Certificate (Units 25 - ASE T3 - 6)

Medium Heavy Truck Diagnostic Technician Certificate (Units 26 - ASE T6 & L3)

Medium Heavy Truck Technology Certificate (37 Units - ASE T1 - 8)

Medium Heavy Truck Technology Degree (**AS**) (60 Units - ASE T1 - 8)

Diagnostics

Automotive Diagnostic Technician Certificate (26 Units - ASE A1, 2, 6, 7 & 8)

Automotive Diagnostic Technician Degree (AS) (61 units - ASE A1, 2, 4, 6, 7, 8 and L3)

Medium Heavy Truck Diagnostic Technician Certificate (Units 26 - ASE T6 & L3)

Autonomous Vehicle Certificate (29 Units - ASE A4, 6, 7 & L3)

Electric Vehicle and Alternative Fuels

Automotive Diagnostic Technician Certificate (26 Units - ASE A1, 2, 6, 7 & 8)

Autonomous Vehicle Certificate (29 Units - ASE A4, 6, 7 & L3)

1.1d Hours of Office Operation and Service by Location

In order to reach as many students as possible, the Advanced Manufacturing (AMT), Advanced Transportation and Logistics (ATL) and Welding programs offer day and evening classes.

The service center is located in the Lounibos Center Bldg. the administrative office hours are 8:00 am to 12:00 pm Monday through Friday (with possible remote work as needed. The service center serves the Advanced Manufacturing (AMT), Advanced Transportation and Logistics (ATL) and Welding programs.

The Advanced Transportation and Logistics Program shop area is open Monday through Friday from 8:00 a.m. until 10:00 P.M. depending on lab schedule. During these hours there are limited support hours from the auto shop assistant in the shop area who can aid and direct students and answer their questions.

1.2 Program/Unit Context and Environmental Scan

The Advanced Transportation and Logistics (ATL) sector in California is experiencing significant growth, driven by technological advancements, infrastructure investments, and a focus on sustainability.

Employment Trends:

> In 2021, California's transportation and warehousing industry added 57,000 jobs, a 7.8% increase, and was on track to add another 55,000 jobs in 2022, reflecting a 7.0% growth rate.

Infrastructure Developments:

> The state has seen the establishment of massive new logistics centers, particularly near major transportation arteries like Interstate 5, leading to a high demand for workers. This trend is expected to continue with more fulfillment and distribution centers planned for 2023 and 2024.

Investments in automation are transforming logistics. By 2028, over 30% of logistics capital expenditures are projected to go toward automation, compared to less than 20% historically.

> California is leading in sustainable transportation solutions, exemplified by the launch of the nation's first hydrogen-powered passenger train in San Bernardino. This initiative aligns with the state's broader environmental goals and reflects a commitment to innovative, eco-friendly transportation options.

College-Level Training Forecast:

> To meet the growing demand in the Advanced Transportation and Logistics sector, California's community colleges are expanding their programs to prepare students for these emerging opportunities. The California Community Colleges system offers specialized programs in Logistics and Transportation, equipping students with the skills needed for positions such as procurement or operations clerks within various logistics organizations.
>
> However, it's important to note that overall enrollment in California community colleges has declined in recent years, with a 20% decrease from Fall 2019 to Fall 2021. Enrollment began to recover in Fall 2022 but remains below pre-pandemic levels.
>
> Despite these challenges, the increasing demand in the transportation and logistics industry is likely to drive growth in related educational programs. Community colleges are expected to adapt by enhancing their curricula and expanding partnerships with industry stakeholders to ensure students are well-prepared for the evolving job market.

These developments underscore the importance of targeted educational programs to support the state's economic growth and the evolving needs of the transportation and logistics sector.

In California:

Automotive Service Technicians and Mechanics

Employment (2020)
66,800 employees

Projected employment (2030)
69,400 employees

Projected growth (2020-2030)
4%

Projected annual job openings (2020-2030)
6,900

Bus and Truck Mechanics and Diesel Engine Specialists

Employment (2020)
21,200 employees

Projected employment (2030)
24,700 employees

Projected growth (2020-2030)
17%

Projected annual job openings (2020-2030)
2,430

Mobile Heavy Equipment Mechanics, Except Engines

Employment (2020)
12,500 employees

Projected employment (2030)
14,700 employees

Projected growth (2020-2030)
18%

Projected annual job openings (2020-2030)
1,540

The Advanced Transportation and Logistics Advisory Committee has been supportive and active in certifying the Automotive and Medium-Heavy Truck Program through ASE Education Foundation. SRJC's ATL Program has been accredited at their Master (MAST) level since 2015. This accreditation carries some weight with automotive manufacturers as they make decisions about vehicle donations and other forms of support.

The ATL Advisory Committee also has been supportive and active in affiliating the ATL Program with Honda Engines, Subaru, Ford, and Toyota regarding the use of their internal technician training programs. This training is offered to our students free of charge and can be used to prepare themselves for entry level employment at dealerships across the country. These college / manufacturer alliances have benefitted all parties. Students find jobs, dealerships find employees, and the college gets access to vehicle donations and some proprietary software support.

The ATL Program has existing tacit agreements with several local car dealerships to employ our students as apprentice level technicians. Several of these dealerships have also volunteered to look for vehicle donations from their respective manufacturers, especially for donations of hybrid vehicles that will be necessary for our hybrid classes. We have also received offers from several employers on the advisory committee to allow students to "job shadow" auto technicians in their shops during the workday.

2.1a Budget Needs

The Industrial and Trade Technology Department has suffered from budget cuts in recent years, as well as the loss of all STNC and student help funds. With rising costs on many of our consumables and the difficulty in finding federal work study students it is becoming harder to maintain program standards.

The Automotive Program's supply budget has been cut and as a result the program has initiated a materials fee, where appropriate, for students in many of our sections and consolidated/organized our on-hand shop supply inventory.

An area of growing concern for the Automotive Technology Department is written in our name..."Technology". Every year working under extreme budget restraints puts us further behind in our ability to train SRJC students at the level requested by local employers. We have many high profile local employers on our advisory committee, and they all have the same response when we ask what they want our students trained in. The committee wants employees who are skilled in "the basics" and "computers, electronics, and technology as they apply to auto repair". It has been many years since our department has updated its technology, and the budget crisis is putting us further and further behind. A bright spot over the last several years has been CTEA and SWP funding, which has allowed us to purchase a new state-of-the-art wheel alignment machine, computerized tire balancer, updated tire mounting machine, new work benches and tool sets, and more; but the rest of our equipment is growing outdated and does not fulfill the needs of area employers.

Two more budget inadequacies that impact the Automotive Department are lack of student help in our lab, and lack of an adequate equipment repair budget. We are running large sections that utilize potentially hazardous equipment and we could certainly use help maintaining an adequately supervised and safe training environment. To accomplish this we need lab assistants. Also, much of our equipment is getting old and needs frequent repair, for which we need a greater repair budget.

Our budget is currently less than adequate to support these two areas of concern. A suggestion that would help us is to institute a rollover repair budget for our program; i.e. a repair budget that is dedicated to equipment repair only, is non-transferable, and can rollover from fiscal year to fiscal year. It would be used to repair the water treatment system, forklift, and other equipment used by all Lounibos programs. The way it is currently set up the funds are "use or lose". Some years we go through our entire repair budget - plus more - in just a few months. Other years we barely tap into this fund, and have to either use it all or lose it. If we could have a rollover budget of $2,000 a year that was allowed to accumulate year to year (any unused funds are moved to the next year), we could do repairs as needed, but also "save up" for major repairs.

Santa Rosa Junior College - Program Unit Review

Automotive Technology - FY 2022-23

2.1 Fiscal Year Expenditures

Santa Rosa Campus

Expenditure Category	Unrestricted Funds	Change from 2021-22	Restricted Funds	Change from 2021-22	Total	Change from 2021-22
Faculty payroll	$200,493.30	13.39%	$0.00	0.00%	$200,493.30	13.39%
Adjunct payroll	$129,315.99	1.61%	$0.00	0.00%	$129,315.99	1.61%
Classified payroll	$76,080.96	4.45%	$68,780.30	4.46%	$144,861.26	4.45%
STNC payroll	$0.00	0.00%	$0.00	0.00%	$0.00	0.00%
Student payroll	$0.00	0.00%	$0.00	0.00%	$0.00	0.00%
Management payroll (and Dept Chairs)	$45,764.80	-39.93%	$0.00	0.00%	$45,764.80	-39.93%
Benefits (3000's)	$176,503.93	7.61%	$34,718.36	10.19%	$211,222.29	8.03%
Supplies (4000's)	$16,640.14	12.90%	$0.00	0.00%	$16,640.14	12.90%
Services (5000's)	$6,252.74	52.73%	$15,867.30	0.00%	$22,120.04	440.32%
Equipment (6000's)	$0.00	0.00%	$338,302.43	99.76%	$338,302.43	99.76%
Total Expenditures	**$651,051.86**	**2.37%**	**$457,668.39**	**71.60%**	**$1,108,720.25**	**22.83%**

Petaluma Campus (Includes Rohnert Park and Sonoma)

Expenditure Category	Unrestricted Funds	Change from 2021-22	Restricted Funds	Change from 2021-22	Total	Change from 2021-22
Faculty payroll	$0.00	0.00%	$0.00	0.00%	$0.00	0.00%
Adjunct payroll	$0.00	0.00%	$0.00	0.00%	$0.00	0.00%
Classified payroll	$0.00	0.00%	$0.00	0.00%	$0.00	0.00%
STNC payroll	$0.00	0.00%	$0.00	0.00%	$0.00	0.00%
Student payroll	$0.00	0.00%	$0.00	0.00%	$0.00	0.00%
Management payroll (and Dept Chairs)	$0.00	0.00%	$0.00	0.00%	$0.00	0.00%
Benefits (3000's)	$0.00	0.00%	$0.00	0.00%	$0.00	0.00%
Supplies (4000's)	$0.00	0.00%	$0.00	0.00%	$0.00	0.00%
Services (5000's)	$0.00	0.00%	$0.00	0.00%	$0.00	0.00%
Equipment (6000's)	$0.00	0.00%	$0.00	0.00%	$0.00	0.00%
Total Expenditures	**$0.00**	**0.00%**	**$0.00**	**0.00%**	**$0.00**	**0.00%**

Other Locations (Includes the PSTC, Windsor, and other locations)

Expenditure Category	Unrestricted Funds	Change from 2021-22	Restricted Funds	Change from 2021-22	Total	Change from 2021-22
Faculty payroll	$0.00	0.00%	$0.00	0.00%	$0.00	0.00%
Adjunct payroll	$0.00	0.00%	$0.00	0.00%	$0.00	0.00%
Classified payroll	$0.00	0.00%	$0.00	0.00%	$0.00	0.00%
STNC payroll	$0.00	0.00%	$0.00	0.00%	$0.00	0.00%
Student payroll	$0.00	0.00%	$0.00	0.00%	$0.00	0.00%
Management payroll (and Dept Chairs)	$0.00	0.00%	$0.00	0.00%	$0.00	0.00%
Benefits (3000's)	$0.00	0.00%	$0.00	0.00%	$0.00	0.00%
Supplies (4000's)	$0.00	0.00%	$0.00	0.00%	$0.00	0.00%
Services (5000's)	$0.00	0.00%	$0.00	0.00%	$0.00	0.00%
Equipment (6000's)	$0.00	0.00%	$0.00	0.00%	$0.00	0.00%
Total Expenditures	**$0.00**	**0.00%**	**$0.00**	**0.00%**	**$0.00**	**0.00%**

Expenditure Totals

Expenditure Category	Amount	Change from 2021-22	District Total	% of District Total
Total Expenditures	$1,108,720.25	22.83%	$185,168,453.34	0.60%
Total Faculty Payroll	$329,809.29	8.46%	$53,655,688.06	0.61%
Total Classified Payroll	$144,861.26	4.45%	$22,828,190.99	0.63%
Total Management Payroll	$45,764.80	-39.93%	$10,715,894.50	0.43%
Total Salary/Benefits Costs	$731,657.64	2.40%	$122,097,731.52	0.60%
Total Non-Personnel Costs	$377,062.61	100.37%	$21,838,250.05	1.73%

2.1b Budget Requests

Rank	Location	SP	M	Amount	Brief Rationale
0001	Santa Rosa	02	01	$4,500.00	Yearly maintance of building wide perminantly installed compressed air system
0002	Santa Rosa	02	01	$3,000.00	To cover yearly maintenance on Hotsy pressure washer and parts washer, and enviromental oil recovery system
0003	Santa Rosa	02	05	$1,000.00	To cover increasing costs of graphics
0004	Santa Rosa	01	01	$10,000.00	Our expenses for supplies are rising every year due to impacted classes. More students means more supplies used, and more wear-and-tear costs.
0005	Santa Rosa	01	01	$10,000.00	Cost to maintain equipment has been rising, and as equipment ages preventive maintentance is needed to reduce repair costs.

2.2a Current Classified Positions

Position	Hr/Wk	Mo/Yr	Job Duties
Administrative Assistant II	20.00	12.00	Keeps the programs running in all respects concerning the Lounibos Trade Technology Center office. -Provide front-line customer service to students and instructors -Attend department meetings, take minutes. -Responsible for advisory committee needs including maintenance of membership database, email notifications to members, meeting room reservations, food service contracts, parking accommodations, generate member name tags, attend meetings and take meeting minutes. -Generate and track purchase requisitions using Escape software -Point of contact for faculty absences: Notification of lab staff, post signs, process NOAs -Collect and file course syllabi, proof syllabi for required content, send regular reminders to instructors. -Monitor Computer Studies and Graphic Design budget -Generate and track requisitions using Escape software -Complete Payment Request forms and submit for processing -Track and submit blanket purchase order receipts -Access student data in SIS -Maintain department course files -Prepare new course proposals and course revisions in CATS and track courses through curriculum process -Maintain various department files -Order and keep inventory of office supplies -Assist in development of scheduling proofs
	40.00	0.00	

Position	Hr/Wk	Mo/Yr	Job Duties
AUTO SHOP ASSISTANT	40.00	12.00	1. Checks supplies, materials, and hand and power tools in and out to students and instructors in the automotive shop area. 2. Answers questions from students and instructors regarding automotive repair and maintenance and provides individual tutoring for students. 3. Sets up laboratory for teaching demonstrations & exercises. 4. Orders automotive parts and supplies and monitors related budget; maintains cooperative relationships with automotive parts and supply vendors. 5. Maintains inventory and accurate records of invoices, service records and other paperwork for automotive shop. 6. Cleans, paints, lubricates, repairs and maintains equipment. 7. Answers telephones and provides information to routine questions. 8. Assists in the maintenance of a safe work environment; utilizes and disposes hazardous materials. 9. Trains and directs the work of student employees.

2.2b Current Management/Confidential Positions

Position	Hr/Wk	Mo/Yr	Job Duties
Department Chair	18.00	12.00	Evaluates faculty and staff, coordinates classes, reviews curriculum, on call for any problems. Trains new faculty, reviews and implements purchase orders, budget transfers, scheduling, and curriculum. Note: this position is shared by three programs (AMT, ATL, and Welding). Serves on department advisory committees (AMT, ATL, and Welding).

2.2c Current STNC/Student Worker Positions

Position	Hr/Wk	Mo/Yr	Job Duties

2.2d Adequacy and Effectiveness of Staffing

The Industrial and Trade Technology department is significantly understaffed compared to the district averages, and the figures below will support this statement. The programs generate significant FTES with minimal staffing. The vast majority of lab classes, especially evening and weekend classes, have no lab assistant support; and the faculty are required to set up and run their own labs, while also working the tool room. It is in the best interests of our students to utilize a lab assistant in all of our lab classes (this is true from a safety aspect as well as instructional).

We need additional classified staffing to manage the automotive lab during all sections and hours of operation: day, evening, and weekend classes. This new classified staff person would also coordinate with our current daytime shop manager to fill in for each other during vacation periods or during time off required by personal affairs. Please note that currently the automotive instructor or instructors working evenings or weekends are responsible for securing the tool room, monitoring shop safety, handing out tools and equipment, and acquiring job materials and supplies. This overload of responsibility for the instructor comes at the detriment of instruction and personal attention given our students, and negatively affects the quality of education that we are providing the students.

We also need funding for 25 hours a week of lab assistants to maintain shop and equipment. Having to rely only on federal work study students has severely limited our hiring options to the point of many times not being able to find someone qualified to work in the shop.

Additional hours for the Service Center Administrative Assistant are essential, as this assistant provides necessary duties to five instructional areas and will be needed as the job duties increase with added responsibility. A 100% position is indicated by the constant state of "catch-up" that we are playing with the logistics and paper work in the Industrial & trade Technology Department!

Santa Rosa Junior College - Program Unit Review

Automotive Technology - FY 2022-23

2.2 Fiscal Year Employee Data and Calculations

Employee Head Counts

Employee Category	Count	Change from 2021-22	District Total	% of District Total
Contract Faculty	2	0.00%	311	0.64%
Adjunct Faculty	7	40.00%	1025	0.68%
Classified Staff	2	0.00%	432	0.46%
STNC Workers	0	0.00%	558	0.00%
Student Workers	0	0.00%	251	0.00%
Mgmt/Admin/Dept Chair	4	0.00%	158	2.53%

Employee FTE Totals

FTE Category	FTE	Change from 2021-22	District Total	% of District Total
FTE-F - Faculty	4.8660	22.80%	3418.1867	0.14%
FTE-CF - Contract Faculty	2.0000	0.00%	3088.8330	0.06%
FTE-AF - Adjunct Faculty	2.8660	46.04%	329.3537	0.87%
FTE-C - Classified	2.0000	0.00%	381.3904	0.52%
FTE-ST - STNC	0.0000	0.00%	83.1336	0.00%
FTE-SS - Support Staff	2.0000	0.00%	543.0698	0.37%
FTE-SW - Student Workers	0.0000	0.00%	78.5458	0.00%
FTE-M - Management	0.4500	-60.53%	103.3772	0.44%
FTE-DC - Department Chairs	0.0000	0.00%	0.0000	0.00%

Student Data

Data Element	Value	Change from 2021-22	District Total	% of District Total
FTES-CR - Credit	96.3753	55.67%	10435.3874	0.92%
FTES-NC - Non-Credit	0.0000	0.00%	2155.0610	0.00%
FTES - combined	96.3753	55.67%	12590.4484	0.77%
Students Enrolled/Served	410	-12.95%	30000	1.37%

Calculations

Data Element	Value	Change from 2021-22	District Total	% of District Total
FTE-S : FTE-F	19.8059	26.77%	3.6834	537.71%
FTE-AF : FTE-CF	1.4330	46.04%	0.1066	>1000%
FTE-F : FTE-SS	2.4330	22.80%	6.2942	38.65%
FTE-F : FTE-M	10.8133	211.10%	33.0652	32.70%
FTE-SS : FTE-M	4.4444	153.33%	5.2533	84.60%
FTE-ST : FTE-C	0.0000	0.00%	0.2180	0.00%
Average Faculty Salary per FTE-F	$67,778.36	-11.68%	$15,697.12	431.79%
Average Classified Salary per FTE-C	$72,430.63	4.45%	$59,855.18	121.01%
Average Management Salary per FTE-M	$101,699.56	52.18%	$103,658.20	98.11%
Salary/Benefit costs as a % of total budget	65.99%	-16.63%	65.94%	100.08%
Non-Personnel $ as a % of total budget	34.01%	63.13%	11.79%	288.36%
Restricted Funds as a % of total budget	41.28%	39.71%	22.27%	185.38%
Total Unit Cost per FTE-F	$227,850.58	0.02%	$54,171.54	420.61%
Total Unit Cost per FTE-C	$554,360.13	22.83%	$485,508.95	114.18%
Total Unit Cost per FTE-M	$2,463,822.78	211.16%	$1,791,192.38	137.55%
Total Unit Cost per FTE-S	$11,504.20	-21.10%	$14,707.06	78.22%
Total Unit Cost per student served/enrolled	$2,704.20	41.10%	$6,172.28	43.81%

Automotive Technology - FY 2022-23

2.2a Classified Positions Employees paid from a Classified OBJECT code

Name Last	First	Position	Hours	FTE
Davis	Frederick	Science Laboratory Instructional Assistant	0.00	1.0000
Yoast	David	Auto Shop Assistant	0.00	1.0000
Totals			**0.00**	**2.0000**

Automotive Technology - FY 2022-23

2.2b Management/Confidential Positions Employees paid from a Management/Confidential OBJECT code

Name Last	First	Position	Hours	FTE
Aschwanden	Daniel	Faculty	0.00	0.0500
Kosten	Jesse	Faculty	0.00	0.3000
Lemmer	David	Faculty	0.00	0.0500
McCracken	William	Faculty	0.00	0.0500
Totals			**0.00**	**0.4500**

Automotive Technology - FY 2022-23

2.2c STNC Workers Employees paid from an STNC OBJECT code

Name Last	First	Position	Hours	FTE
<< No Employees >>				

Automotive Technology - FY 2022-23

2.2d Student Employees

Employees paid from a Student Employee OBJECT code

Name Last	First	Position	Hours	FTE
<< No Employees >>				

2.2e Classified, STNC, Management Staffing Requests

Rank	Location	SP	M	Current Title	Proposed Title	Type
0001	Santa Rosa	01	01	None	Industrial and Trade Technology Lab Coordinator	Classified
0002	Santa Rosa	01	01	None	50% evening Auto Shop tool room assistant 10 mo	Classified

2.3a Current Contract Faculty Positions

Position	Description
1	Automotive Instructor: specialized in electrical, electronics, computer systems, hybrid vehicles, and engine performance
2	Automotive Instructor: Master Automobile Technician
3	Automotive and Medium Heavy Truck Instructor

2.3b Full-Time and Part-Time Ratios

Discipline	FTEF Reg	% Reg Load	FTEF Adj	% Adj Load	Description
ATL	2.9700	70.0000	1.1800	30.0000	We have lost multiple associate instructors to retirement.

2.3c Faculty Within Retirement Range

One of associate faculty are retired and helping on a short term basis until more preminant instructors can be found.

2.3d Analysis of Faculty Staffing Needs and Rationale to Support Requests

Currently the Advanced Transportation and Logistics department employs 3 full time faculty instructors (after DET merged into ATL. The department also has only 2 associate instructors who are currently teaching, and most of these adjunct instructors have full-time day employment. It has been difficult to locate qualified licensed and credentialed automotive technicians who are willing to take a cut in pay to become associate instructors. We have had 3 associate instructors "retire" and 2-3 leave for full time employment over the last few years.

We must hire an additional full time instructor. As the demand improves, the ATL department will need to offer more sections to fulfill the community needs, and this will require more faculty and our full time to part time faculty ratio is upside down as it is.

To remain a California Bureau of Automotive Repair (BAR) licensed training institution we are required to: maintain contact with the BAR, keep curriculum in compliance with state training standards, receive and review all updates, maintain records, and ensure that we are in compliance with California regulations. We are audited by the BAR on a biannual basis, during which the auditor checks our equipment, materials, facilities and record maintenance for the official BAR classes. The faculty member responsible for all the above BAR duties must be licensed by the State of California. This person is now a retired instructor working as an asscociate and is planning on not teaching the course again (due for Spring 2026 rotation).

2.3a Contract Faculty Positions

Employees paid from a Contract Faculty OBJECT code

Name Last	First	Position	Hours	HR FTE	DM FTE
Ebner	Andrew	Faculty	0.00	1.0000	0.0000
Lemmer	David	Faculty	0.00	1.0000	0.0000

Totals			**0.00**	**2.0000**	**0.0000**

Automotive Technology - FY 2022-23

2.3b Adjunct Faculty Positions Employees paid from an Adjunct Faculty OBJECT code

Name Last	First	Position	Hours	FTE
Adelman	Paul		258.00	0.4493
Ebner	Andrew		32.00	1.0000
Kosten	Jesse		4.00	0.0000
Miller	Robert		385.75	0.6583
Norton	Clifford		30.00	0.0000
Roman-Medina	Juan		344.50	0.5667
Sanguinetti	Richard		105.00	0.1917
Totals			**1159.25**	**2.8660**

2.3e Faculty Staffing Requests

Rank	Location	SP	M	Discipline	SLO Assessment Rationale
0001	ALL	01	05	Automotive Technology / Diesel (MHT) Technology	

2.4b Rationale for Instructional and Non-Instructional Equipment, Technology, and Software

Computer All-in-One Replacement- end of lifecycle?

The Automotive Technology program uses All-in-One computers for service information look-up, service management software and diagnostic programs. The computers are now 7 years old and are past warranty and at the end of useful life span. Pricing not established as that would be for IT to procure district approved equipment.

ASE-EF Accreditation:

As of May 2023, SRJC has been Re-accredited as a ASE EF (Automotive Service Excellence Education Foundation) MAST (Master Automotive Service Technician) level educational facility. This process has been endorsed and applauded by our advisory committee as a positive move for the automotive department. To maintain this accreditation requires meeting ASE-EF equipment, faculty, safety, and facilities standards; to meet these standards will require most of the items denoted below, plus additional items unknown at this time.

Automotive Diagnostic Equipment

Automotive diagnostic equipment is rapidly advancing with the technical improvements in transportation technology and electrification of vehicles.

Training Vehicles:

Our vehicle fleet used to train students is old and much worn. We desperately need new vehicles to train our students. The SRJC Foundation is currently contacting local car dealer owners to inquire about vehicle donations. The automotive program needs vehicles ongoingly that are relatively new (6 years old and newer), to train our students to service the type of vehicles that are currently on the road. Some older vehicles are useful, but should not comprise our total fleet.

Vehicles for Transmission Class Use:

SRJC also needs dedicated vehicles to dynamically test the function of automatic transmissions that our students have disassembled and reassembled. This is a vital part of their training, as it verifies that the transmission has been properly reassembled; this verification is impossible visually.

All-Data and Mitchell-On-Demand Update:

It is essential that we update our Mitchell-On-Demand and All-Data auto repair reference systems. They are on a year to year subscription basis online, and will be an ongoing annual expense. Keeping the subscriptions current is essential because publishers no longer print service manuals; and when the subscription for online access expires, the system shuts down and we have no information to teach or perform repairs with.

2.4c Instructional Equipment Requests

Rank	Location	SP	M	Item Description	Qty	Cost Each	Total Cost	Requestor	Room/Space	Contact
0001	Santa Rosa	01	01	Auto Shop computers All-in-One Replacement - end of lifecycle?	12	$2,800.00	$33,600.00	Jesse Kosten	2360	David Lemmer
0003	Santa Rosa	01	01	Lab computers in Powertrain Lab	6	$2,800.00	$16,800.00	Jesse Kosten	2349	Jesse Kosten
0004	Santa Rosa	01	01	Lab computers in Flex Lab	6	$2,800.00	$16,800.00	Jesse Kosten	2342	Jesse Kosten
0005	Santa Rosa	01	01	Laptops for PicoScope and EV diagnostics	3	$1,500.00	$4,500.00	Jesse Kosten	2360	Jesse Kosten
0006	Santa Rosa	01	02	Training Vehicles	3	$30,000.00	$90,000.00	David Lemmer	2360	David Lemmer

2.4d Non-Instructional Equipment and Technology Requests

Rank	Location	SP	M	Item Description	Qty	Cost Each	Total Cost	Requestor	Room/Space	Contact
0001	Santa Rosa	04	07	Lounibos conference/meeting area tables	5	$600.00	$3,000.00	T.Hruby	2319	David Lemmer
0002	Santa Rosa	04	07	Lounibos conference/meeting area chairs	12	$300.00	$3,600.00	T. Hruby	2319	David Lemmer

2.4f Instructional/Non-Instructional Software Requests

Rank	Location	SP	M	Item Description	Qty	Cost Each	Total Cost	Requestor	Room/Space	Contact
0001	Santa Rosa	02	01	Yearly Upgrade of Mfr. Scantools	3	$1,000.00	$3,000.00	David Lemmer	2360	David Lemmer
0002	Santa Rosa	02	01	Yearly Upgrade of aftermarket Scantools	8	$800.00	$6,400.00	David Lemmer	2360	David Lemmer
0003	Santa Rosa	02	06	Annual online student safety test (records online)	3	$250.00	$750.00	David Lemmer	2360, 2370, 2395	David Lemmer
0004	Santa Rosa	02	01	Repair data access & vehicle diag software updates	1	$10,000.00	$10,000.00	David Lemmer	2360	David Lemmer

2.5a Minor Facilities Requests

Rank	Location	SP	M	Time Frame	Building	Room Number	Est. Cost	Description
0001	Santa Rosa	01	01	Urgent	Lounibos	2300 Outside	$4,000.00	Remove old fencing and broken/rotten shade structure.
0002	Santa Rosa	04	08	Urgent	Lounibos	2300 Outside	$3,000.00	Paint doors, gates and replace missing bricks and facade peices. General building upkeep.
0003	Santa Rosa	02	04	Urgent	Lounibos	2342	$10,000.00	Add proper lighting for labratory space after remodel. Existing LED was installed for old lab space, and now there are various dark spots and lighting safety issues.
0004	Santa Rosa	02	04	Urgent	Lounibos	2347	$10,000.00	Add proper lighting for labratory space after remodel. Existing LED was installed for old lab space, and now there are various dark spots and lighting safety issues.
0005	Santa Rosa	01	01	Urgent	Louinibos	2360	$3,000.00	Add a RO water system to generate type 2 water for batteries and cooling systems.
0006	ALL	00	00	Urgent	Lounibos	2360	$10,000.00	Replace both 40+ year old concrete shop sinks with ADA complaint sinks (like MHT and Weld shops)
0007	Santa Rosa	01	01	Urgent	Lounibos	2360	$10,000.00	120v 1p power drops in each bay to allow both charging and tool usage without have unsafe extension cord running through shop spaces.
0008	Santa Rosa	01	01	Urgent	Lounibos	2370	$40,000.00	Add additional 120v 1p, 240v 1p and 440v 3p power options from existing electrical panel to lab space to allow using modern electrical training equipment and light fabrication
0009	Santa Rosa	01	01	Urgent	Lounibos	2300 Outside	$30,000.00	Wiring on west outside wall for keeping instruction vehilces charged and maintained.
0010	Santa Rosa	01	05	Urgent	Lounibos	2360 Rear Storage Area	$150,000.00	Overhead cover for our cars and equipment stored outside along the Lounibos compound West wall.
0011	Santa Rosa	03	08	1 Year	Lounibos	2300 Outside	$50,000.00	Level 3 (or 2?) Elecric charging options for EV vehicles.

2.5b Analysis of Existing Facilities

Existing facilities are not adequate in space, storage or technology. SRJC should consider building a new Industrial Trade Technology facility, complete with an adequately sized diesel equipment shop, an auto body shop training section, an advanced production section, an automotive complex, and a large, state-of-the-art welding shop. If we want to be a focal point for trade technology training in Northern California, and to do our very best for the community, we will need a new complex. A large and modern training facility that expands on our initiative to train our students in a skill-trade that will allow them to go to work in our community.

In the meantime, we need an additional covered storage area along the West wall of the Lounibos compound to prevent weather damage to our vehicles and equipment that are stored outside.

Many bricks have fallen off the outside facade of the Lounibos building, making it look forlorn and tacky. This should be an easy repair, but all requests have been ignored so far. **This is a dreadful image to put forth to the public!**
These are both inexpensive jobs that will enhance our students' experience and make us look dignified to the public.

3.1 Academic Quality

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3.2 Student Success and Support

We hire through the SRJC Human Resources department using the standard recruitment methods.

We try to recruit both students and instructors from local businesses that service a wide demographic area. Also, the Advanced Transportation and Logistics Department encourages faculty participation in classes and flex sessions (offered on or off campus) that broaden our staff's cultural awareness and sensitivity.

3.3 Responsiveness to Our Community

The Advanced Transportation and Logistics Department supports the professional development of our classified staff by allowing them time during normal work hours to attend training sessions. These sessions are designed to train the employees in subject areas that allow them to better do their jobs. Examples of these subjects are: PRPP writing, CIS, forklift safety and operation, first-aid, CPR, and any other training applicable to their jobs.

Our faculty members, both contract and associate, are encouraged to attend industry training seminars offered both on-campus and off. These training sessions are usually certified for flex credit, and if the session requires travel, the costs can be funded with a grant.

3.4 Campus Climate and Culture

3.5 Establish a Culture of Sustainability

(SCJCD Board Policy Manual 6.8.7)

Sonoma County Junior College District (Santa Rosa Junior College) commits to environmental protection through efficient energy management as a fundamental operational objective and integral to the strategy of fulfilling its educational mission. The district recognizes its responsibilities as a contributor to the community and that its operations and facilities impact the environment.

Therefore the District's operational and planning decisions will incorporate the following: prudent use of energy resources, prevention and/or minimization of energy-related pollution and wastes, fostering a sense of personal responsibility for energy management, emphasize water conservation and environmental protection, continuous improvement in college energy management performance, and internal deployment of resources to reflect the District's commitment to environmental protection through efficient energy management and sustainable practices.

The Advanced Transportation and Logistics Program annualy reviews internal practices and follows all guidelines set by the district for both enviromental complaince and sustainability.

4.1a Course Student Learning Outcomes Assessment

We have worked exhaustively with our advisory members to construct meaningful course SLOs, and the Advanced Transportation and Logistics Department's SLOs have all been written with approval for Fall 2024.

Please note the table below to view schedule and completed assessments:

		Fall 24	Spring 25	Fall 26	Spring 27	Fall 27	Spring 28
ATL 98	Independent Study						
ATL 100	Introduction to Transportation Technology						

ATL 101	Transportation Information Systems						
ATL 105	Service Writing and Shop Management						
ATL 110	IC Engine Theory and Repair						
ATL 111	Electric and Hybrid Vehicle Systems						
ATL 120	Automotive Automatic Transmission and Transaxle Systems						
ATL 130	Automotive Manual Transmissions and Drive Train Systems						
ATL 140	Automotive Suspension and Steering Systems						
ATL 150	Automotive Braking Systems						
ATL 161	Mobile Electrical Systems 1						
ATL 162	Mobile Electrical Systems 2						
ATL 163	Mobile Electrical Systems 3						
ATL 170	Mobile HVAC Systems						
ATL 180	IC Engine Performance						
ATL 188	Clean Air Car Course: BAR Levels 1 & 2						
ATL 189	BAR Repair Technician Update Training						
ATL 220	Diesel Fuel Systems						
ATL 230	MHT Drivetrain						
ATL 240	MHT Brakes and Suspension						
ATL 280	MHT PMI						
ATL 290	Hydraulics						

4.1b Program Student Learning Outcomes Assessment

The Advanced Transportation and Logistics Department has created all course level SLOs. We are using a "bottom up" assessment model to evaluate ourcertificates, and At SRJC, our cycle is each certificate/major must be assessed at least once every six years.

Please refer to the table below to view our schedule and completions:

	Fall 24	Spring 25	Fall 26	Spring 27	Fall 27	Spring 28
Automotive Fundamental Certificate (17 Units)						
Automotive Brakes and Chassis Certificate (17 Units)						
Automotive Transmission Certificate (17 Units)						
Autonomous Vehicle Certificate (29 Units)						
Automotive Maintenance and Light Repair Certificate (32 Units)						
Automotive Technology Degree (AS) (60 units)						
Automotive Diagnostic Technician Certificate (26 Units)						
Automotive Diagnostic Technician Degree (AS) (61 units)						
Engine Machining Certificate (25 units)						
Medium Heavy Truck Fundamentals Certificate (Units 19)						
Medium Heavy Truck Brakes and Chassis Technology Certificate (Units 25)						
Medium Heavy Truck Diagnostic Technician Certificate (Units 26)						
Medium Heavy Truck Technology Certificate (37 Units)						
Medium Heavy Truck Technology Degree (AS) (60 Units)						

4.1c Student Learning Outcomes Reporting

Type	Name	Student Assessment Implemented	Assessment Results Analyzed	Change Implemented
Course	Auto 51 - Auto Engines	Spring 2012	Spring 2012	N/A
Course	Auto 52 - Engine Per/Poll Cont	Fall 2011	Spring 2012	N/A
Course	Auto 53 - Auto Drive Train	Spring 2013	Spring 2013	Spring 2013
Course	Auto 54 - Brakes,Strg., Susp.	Spring 2012	Spring 2012	N/A
Course	Auto 56 - auto electric system	Spring 2012	Spring 2012	N/A
Course	Auto 100 - Intro Auto Tech	Fall 2012	Spring 2013	N/A
Course	Auto 108 - clean air car cours	Fall 2013	Spring 2014	Fall 2014
Course	Auto 194 - Intro Hybrd Vehicle	Fall 2013	Spring 2014	Spring 2014
Course	Auto 125 - Heating and A/C	Fall 2013	Fall 2013	N/A
Course	Auto 110 - Electric/electronic	N/A	N/A	N/A
Course	*Auto 111 - Engine performance	N/A	N/A	N/A
Course	Auto 112 - Driveability/Emiss.	N/A	N/A	N/A
Course	Auto 190.1 - Alt Fuels & Syst	N/A	N/A	N/A
Course	Auto 190.1L - Alt Fuels Lab	N/A	N/A	N/A
Course	Auto 191 - Advanced Alt Fuels	N/A	N/A	N/A
Course	Auto 193.1 - Electric Vehicles	N/A	N/A	N/A
Course	Auto 195 - Hybrid Veh. Safety	N/A	N/A	N/A

Type	Name	Student Assessment Implemented	Assessment Results Analyzed	Change Implemented
Course	Auto 109 -Bar Update Training	N/A	N/A	N/A
Certificate/Major	Tune-up & Electronics	Spring 2014	Spring 2014	N/A
Certificate/Major	Engine Repair Specialist	Fall 2012	Fall 2012	N/A
Certificate/Major	Transmission Specialist	Spring 2013	Spring 2013	Spring 2010
Certificate/Major	Brakes, Strg. and Susp.	Spring 2013	Spring 2013	N/A
Certificate/Major	Electrical & Electronics	Spring 2014	Spring 2014	N/A
Certificate/Major	Auto HVAC	Spring 2014	Spring 2014	N/A
Certificate/Major	Auto Technology Certificate	Spring 2014	Spring 2014	N/A
Certificate/Major	Auto Technology Major	Fall 2014	Fall 2014	N/A

4.2a Key Courses or Services that address Institutional Outcomes

Course/Service	1a	1b	1c	2a	2b	2c	2d	3a	3b	4a	4b	5	6a	6b	6c	7

4.2b Narrative (Optional)

All of our courses have components of the institutional student learning outcomes.

5.0 Performance Measures

We are a BAR Certified Auto Repair Training facility.
Instructors are all ASE certified.
We are ASE Edcuation (MAST) certified progam.

5.1 Effective Class Schedule: Course Offerings, Times, Locations, and Delivery Modes (annual)

The Industrial and Trade Technology department offers both day and evening courses and has recently started offering weekend classes. We have not expanded to other campuses/sites as there are no shop facilities available at the present time, and budget constraints are dictating that we shrink our programs, not expand them.

We do not offer a distance learning component as all the current classes are hands on. We are trying to identify courses that can be modified to in such a manner as to allow offering them as hybrid classes.

We would be better able to serve our students if we had more equipment available for them to learn on.

Santa Rosa Junior College - Program Unit Review

Automotive Technology - FY 2022-23 (plus current FY Summer and Fall)

5.1 Student Headcounts The number of students enrolled in each Discipline at first census (duplicated headcount).

Santa Rosa Campus

Discipline	X2020	F2020	S2021	X2021	F2021	S2022	X2022	F2022	S2023	X2023	F2023	S2024
Automotive Technology	0	109	77	0	131	135	0	196	275	0	215	

Petaluma Campus (Includes Rohnert Park and Sonoma)

Discipline	X2020	F2020	S2021	X2021	F2021	S2022	X2022	F2022	S2023	X2023	F2023	S2024
Automotive Technology	0	0	0	0	0	0	0	0	0	0	0	

Other Locations (Includes the PSTC, Windsor, and other locations)

Discipline	X2020	F2020	S2021	X2021	F2021	S2022	X2022	F2022	S2023	X2023	F2023	S2024
Automotive Technology	0	0	0	0	0	0	0	0	0	0	0	

ALL Locations (Combined totals from ALL locations in the District)

Discipline	X2020	F2020	S2021	X2021	F2021	S2022	X2022	F2022	S2023	X2023	F2023	S2024
Automotive Technology	0	109	77	0	131	135	0	196	275	0	215	

5.2a Enrollment Efficiency

These figures are not an accurate reflection of our program's performance.

I did a quick calculation of the Automotive Technology Department's enrollment efficiency for Spring 2011 and came up with *125% enrollment efficiency!* Class size has been about the same for the last several semesters, therefore past figures also appear incorrect. My calculation of 125% efficiency is based only on instructor lead classes and does not include non-traditional sections.

It appears that there are data calculation problems for Auto Technology's courses, possibly due to the innovative sections that we run. Many sections are fundamentally different those found in most disciplines. Some examples are:

- Auto 99...Automotive Occupational Work Experience. *This is not a class that is taught by an instructor.* This is a supervised employment designed to provide on-the-job occupational education, but it shows up as having 20 "seats" (while the actual enrollment is only 1 to 3), and if it is factored in as a traditional class it will negatively impact our numbers.
- Auto 98...Independent Study in Auto Mechanics. *This is not a class that is taught by an instructor.* This is a supervised lab project designed to allow students to practice and enhance their mental and hands-on skill while earning three credits. It has a class limit of just five students, and, due to the low maximum section enrollment, if it is factored in as a traditional class it will negatively impact our numbers.
- Auto 80...Introduction to Automotive Technology. This is a traditional class and is suggested as the first class that our automotive students take. *But we also offer this class in five or six nontraditional sections that offer students the opportunity to gain credit for this class through* Credit By Exam. These are typically sections with an enrollment limit of 5, and, if they are factored in as traditional class sections, will drag our numbers down.
- Auto 194...This is a class that is co-listed as Det 194. One Automotive instructor is teaching the single section that we typically offer, but the Automotive Department receives credit for only the students who have enrolled through Auto, *not Det*. This will obviously skew our numbers negatively.
- Auto 190.1 and Auto 190.1L...These are skewing our numbers in the same manner as Auto 194. These sections are also co-listed as Det sections but are taught by one Automotive instructor.

The Automotive Technology Department is much more efficient and its section's are much more crowded than is suggested by this data. We have been overfilling our sections by 25% to 50% for the last three semesters in an attempt to offer training to the students who cannot find classes due to schedule reductions.

Automotive Technology - FY 2022-23 (plus current FY Summer and Fall)

5.2a Enrollment Efficiency The percentage of seats filled in each Discipline at first census based on class limit (not room size).

Santa Rosa Campus

Discipline	X2020	F2020	S2021	X2021	F2021	S2022	X2022	F2022	S2023	X2023	F2023	S2024
Automotive Technology	0.0%	106.0%	121.7%	0.0%	106.7%	100.0%	0.0%	97.0%	107.7%	0.0%	119.4%	

Petaluma Campus (Includes Rohnert Park and Sonoma)

Discipline	X2020	F2020	S2021	X2021	F2021	S2022	X2022	F2022	S2023	X2023	F2023	S2024
Automotive Technology	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	

Other Locations (Includes the PSTC, Windsor, and other loc ations)

Discipline	X2020	F2020	S2021	X2021	F2021	S2022	X2022	F2022	S2023	X2023	F2023	S2024
Automotive Technology	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	

ALL Locations (Combined totals from ALL locations in the District)

Discipline	X2020	F2020	S2021	X2021	F2021	S2022	X2022	F2022	S2023	X2023	F2023	S2024
Automotive Technology	0.0%	106.0%	121.7%	0.0%	106.7%	100.0%	0.0%	97.0%	107.7%	0.0%	119.4%	

5.2b Average Class Size

During the semesters spring 2007 through spring 2009 our class size ran from an average high of 18.9 to a low of 12.5. The average class size was fairly consistent until 2009/2010, and now we run **about** 24. The increase is due to an unprecedented number of students wishing to enroll, coupled with a lack of budget to offer more sections.
Our class size limit is generally 20 students due to the difficulty of safely condusting lab sessions that include students utilizing power equipment and hand tools.

Automotive Technology - FY 2022-23 (plus current FY Summer and Fall)

5.2b Average Class Size The average class size in each Discipline at first census (excludes cancelled classes).

Santa Rosa Campus

Discipline	X2020	F2020	S2021	X2021	F2021	S2022	X2022	F2022	S2023	X2023	F2023	S2024
Automotive Technology	0.0	21.2	24.3	0.0	12.8	15.0	0.0	19.4	21.5	0.0	23.9	

Petaluma Campus (Includes Rohnert Park and Sonoma)

Discipline	X2020	F2020	S2021	X2021	F2021	S2022	X2022	F2022	S2023	X2023	F2023	S2024
Automotive Technology	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

Other Locations (Includes the PSTC, Windsor, and other locations)

Discipline	X2020	F2020	S2021	X2021	F2021	S2022	X2022	F2022	S2023	X2023	F2023	S2024
Automotive Technology	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

ALL Locations (Combined totals from ALL locations in the District)

Discipline	X2020	F2020	S2021	X2021	F2021	S2022	X2022	F2022	S2023	X2023	F2023	S2024
Automotive Technology	0.0	21.2	24.3	0.0	12.8	15.0	0.0	19.4	21.5	0.0	23.9	

5.3 Instructional Productivity

Please note the schedule table below:

Our productivity ranged from 11.66 through 13.03 in the period spring 2007 through spring 2009. The fall 2009, spring 2010, and Fall 2010 data have increased steadily but this data may be misleading; please refer to the rationale noted in section 5.2a.

Our programs tend to lower class size than the district goal (generally a maximum of 20) due to safety issues in the lab environment. We recently hired (2009) a second full time faculty member for Auto/Alternative Fuels. The extra faculty member coupled with the surge in class size (caused by the economic downturn) will increase our productivity ratio.

As the data below illustrates, our productivity is now approximately 15 to 19, so we are very close to the district average (due to overloading our classes to try and meet student demands)..

Automotive Technology - FY 2022-23 (plus current FY Summer and Fall)

5.3 Instructional Productivity The ratio of Full-Time Equivalent Students (FTES) to Full-Time Equivalent Faculty (FTEF) in each Discipline at first census.

Santa Rosa Campus

Automotive Technology		X2020	F2020	S2021	X2021	F2021	S2022	X2022	F2022	S2023	X2023	F2023	S2024
	FTES	0.00	17.90	12.53	0.00	29.21	32.69	0.00	45.06	51.31	0.00	47.20	
	FTEF	0.00	1.72	0.87	0.00	3.87	3.61	0.00	3.92	4.13	0.00	3.34	
	Ratio	**0.00**	**10.38**	**14.32**	**0.00**	**7.55**	**9.05**	**0.00**	**11.50**	**12.43**	**0.00**	**14.14**	

Petaluma Campus (Includes Rohnert Park and Sonoma)

Automotive Technology		X2020	F2020	S2021	X2021	F2021	S2022	X2022	F2022	S2023	X2023	F2023	S2024
	FTES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

	FTEF	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Ratio	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	

Other Locations (Includes the PSTC, Windsor, and other locations)

Automotive Technology		X2020	F2020	S2021	X2021	F2021	S2022	X2022	F2022	S2023	X2023	F2023	S2024
	FTES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	FTEF	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Ratio	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	

ALL Locations (Combined totals from ALL locations in the District)

Automotive Technology		X2020	F2020	S2021	X2021	F2021	S2022	X2022	F2022	S2023	X2023	F2023	S2024
	FTES	0.00	17.90	12.53	0.00	29.21	32.69	0.00	45.06	51.31	0.00	47.20	
	FTEF	0.00	1.72	0.87	0.00	3.87	3.61	0.00	3.92	4.13	0.00	3.34	
	Ratio	**0.00**	**10.38**	**14.32**	**0.00**	**7.55**	**9.05**	**0.00**	**11.50**	**12.43**	**0.00**	**14.14**	

5.4 Curriculum Currency

All of our core courses are current, (except those going inactive or currently being revised to 100 level courses) and our SLOs have been written. Our SLOs are posted on the web.
One must be careful reading the following course currency listing data. Most courses have multiple versions listed, but only the most recent should be referenced. Also, several courses are only proposed.

DisciplineNbr	VersionNbr	TermCourseLastTaught	DateLastReview	CourseStatus	ApprovalStatus	CreditByExam
AUTO 108	3	Fall 2014	4/20/2009	Changed Course	Approved	no
AUTO 109	5	Summer 2009	9/20/2010	Changed Course	Approved	no
AUTO 125	2	Fall 2014	9/20/2010	Changed Course	Approved	no
AUTO 153	1		12/8/2014	New Course (First Version)	Approved	no
AUTO 156	1		12/8/2014	New Course (First Version)	Approved	no
AUTO 190.1	2	Fall 2011	3/28/2011	Changed Course	Approved	no
AUTO 192	2	Fall 2007	9/27/2010	Changed Course	Approved	no
AUTO 194	1	Fall 2014	10/11/2010	New Course (First Version)	Approved	no
AUTO 195	1		9/20/2010	New Course (First Version)	Approved	no
AUTO 196	1		5/7/2012	New Course (First Version)	Approved	no
AUTO 51	6	Fall 2014	9/20/2010	Changed Course	Approved	no
AUTO 52	5	Fall 2014	9/20/2010	Changed Course	Approved	no
AUTO 53	6	Fall 2014	2/7/2011	Changed Course	Approved	no
AUTO 54	6	Fall 2014	2/1/2010	Changed Course	Approved	no
AUTO 56	6	Fall 2014	5/12/2008	Changed Course	Approved	no
AUTO 80	1	Fall 2014	1/27/2014	New Course (First Version)	Approved	yes
AUTO 98	5	Spring 2014	1/23/2012	Changed Course	Approved	no
AUTO 99	4	Fall 2014	5/11/2009	Changed Course	Approved	no
AUTO190.1L	2	Spring 2011	9/27/2010	Changed Course	Approved	no

5.5 Successful Program Completion

We always encourage our students to earn an Associate's Degree with a major in Automotive Technology, but if they do not, or can not, accomplish the AA degree we advise them to complete the Automotive program to earn a full Automotive Certificate. In either case we hand out the proper forms near semester end, and explain to them the reasons that they should apply for their certificates, such as improving their employment opportunities.

We award between 8 and 30 full Automotive certificates a year. This number would improve if A & R automatically awarded them, because many students do not complete the paperwork needed to receive their certificates. Our full Automotive certificate numbers have dropped since we started issuing specialty area certificates. We encourage all students to pursue an A.S. or a full Automotive certificate, and to apply for their ASE and Smog licenses.

Latest certificate data:

Cert Code	TOP	Description	Prog Awrd	2002 2003	2003 2004	2004 2005	2005 2006	2006 2007	2007 2008	2008 2009	2009 2010	2010 2011	2011 2012	2012 2013	2013 2014	20 20
1039	094800	Automotive Technology	A	0	0	0	0	1	5	5	4	1	4	5	7	1
3032	094800	Automotive Technology	T	12	38	13	16	14	9	6	4	6	6	8	4	1
3298	094800	Automotive Technology: Brakes, Steering and	E	2	1	0	14	12	7	26	58	47	50	53	56	4
3299	094800	Automotive Technology: Engine Repair Special	E	2	0	1	5	18	14	15	52	65	61	47	61	2
3300	094800	Automotive Technology: Transmission Speciali	E	2	0	1	5	21	15	20	31	39	38	39	27	1
3301	094800	Automotive Technology: Tune-Up and Electroni	E	0	0	0	0	2	4	5	5	8	2	6	4	1
5054	094800	Automotive Technology: Electric and Electron	O	2	0	0	42	49	36	15	51	66	52	48	45	2

5055	094800	Automotive Technology: Heating and Air Condi	O	0	0	0	0	15	13	6	0	34	0	48	58	3

5.6 Student Success

Our retention rates have been climbing due to the competitive job market which has made additional skill training an edge in getting hired.

Automotive Technology - FY 2022-23 (plus current FY Summer and Fall)

5.6a Retention The percentage of students receiving a grade of A,B,C,D,CR, or I in each Discipline (duplicated headcount).

Santa Rosa Campus

Discipline	X2020	F2020	S2021	X2021	F2021	S2022	X2022	F2022	S2023	X2023	F2023	S2024
Automotive Technology	0.0%	68.5%	73.7%	0.0%	88.2%	90.9%	0.0%	82.1%	88.2%	0.0%	87.3%	

Petaluma Campus (Includes Rohnert Park and Sonoma)

Discipline	X2020	F2020	S2021	X2021	F2021	S2022	X2022	F2022	S2023	X2023	F2023	S2024
Automotive Technology	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	

Other Locations (Includes the PSTC, Windsor, and other loc ations)

Discipline	X2020	F2020	S2021	X2021	F2021	S2022	X2022	F2022	S2023	X2023	F2023	S2024
Automotive Technology	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	

ALL Locations (Combined totals from ALL locations in the District)

Discipline	X2020	F2020	S2021	X2021	F2021	S2022	X2022	F2022	S2023	X2023	F2023	S2024
Automotive Technology	0.0%	68.5%	73.7%	0.0%	88.2%	90.9%	0.0%	82.1%	88.2%	0.0%	87.3%	

Automotive Technology - FY 2022-23 (plus current FY Summer and Fall)

5.6b Successful Course Completion The percentage of students receiving a grade of A,B,C, or CR in each Discipline (duplicated headcount).

Santa Rosa Campus

Discipline	X2020	F2020	S2021	X2021	F2021	S2022	X2022	F2022	S2023	X2023	F2023	S2024
Automotive Technology	0.0%	67.6%	71.1%	0.0%	87.4%	82.6%	0.0%	77.9%	83.0%	0.0%	82.1%	

Petaluma Campus (Includes Rohnert Park and Sonoma)

Discipline	X2020	F2020	S2021	X2021	F2021	S2022	X2022	F2022	S2023	X2023	F2023	S2024
Automotive Technology	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	

Other Locations (Includes the PSTC, Windsor, and other loc ations)

Discipline	X2020	F2020	S2021	X2021	F2021	S2022	X2022	F2022	S2023	X2023	F2023	S2024
Automotive Technology	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	

ALL Locations (Combined totals from ALL locations in the District)

Discipline	X2020	F2020	S2021	X2021	F2021	S2022	X2022	F2022	S2023	X2023	F2023	S2024
Automotive Technology	0.0%	67.6%	71.1%	0.0%	87.4%	82.6%	0.0%	77.9%	83.0%	0.0%	82.1%	

Santa Rosa Junior College

Automotive Technology - FY 2022-23 (plus current FY Summer and Fall)

5.6c Grade Point Average The average GPA in each Discipline (UnitsTotal / GradePoints).

Santa Rosa Campus

Discipline	X2020	F2020	S2021	X2021	F2021	S2022	X2022	F2022	S2023	X2023	F2023	S2024
Automotive Technology	0.00	2.48	2.66	0.00	2.85	3.07	0.00	2.68	2.85	0.00	2.56	

Petaluma Campus (Includes Rohnert Park and Sonoma)

Discipline	X2020	F2020	S2021	X2021	F2021	S2022	X2022	F2022	S2023	X2023	F2023	S2024
Automotive Technology	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

Other Locations (Includes the PSTC, Windsor, and other locations)

Discipline	X2020	F2020	S2021	X2021	F2021	S2022	X2022	F2022	S2023	X2023	F2023	S2024
Automotive Technology	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

ALL Locations (Combined totals from ALL locations in the District)

Discipline	X2020	F2020	S2021	X2021	F2021	S2022	X2022	F2022	S2023	X2023	F2023	S2024
Automotive Technology	0.00	2.48	2.66	0.00	2.85	3.07	0.00	2.68	2.85	0.00	2.56	

5.7 Student Access

Our Automotive Department programs are very diverse ethnically, and closely reflect the area population.
Our trade education is attractive to non-academic college students, in that it offers good earning potential for those not inclined to pursue an academic degree program.
We are not balanced in male/female ratio to the local population. Our classes are approximately 95% male in composition. We probably never will be well balanced, but we do encourage every female student that enters our program. We have begun accelerated outreach to the local high schools, and we will include outreach to the nontraditional automotive student.
In the automotive department we consider nontraditional to be female.
Our age percentages are heavily biased to students who are thirty years of age or younger (78%), but we have students in the over sixty-one group also.

Please see the tables below for statistical data concerning the Automotive Department:

5.7a Students Served - by Ethnicity

The number of students in each Discipline at first census broken down by ethnicity (duplicated headcount).

ALL Locations (Combined totals from ALL locations in the District)

Automotive Technology	Ethnicity	2020-21	Percent	2021-22	Percent	2022-23	Percent	2023-24	Percent
	White	53	32.9%	51	20.4%	127	28.0%	120	30.2%
	Asian	1	0.6%	5	2.0%	8	1.8%	6	1.5%
	Black	5	3.1%	1	0.4%	12	2.6%	1	0.3%
	Hispanic	90	55.9%	178	71.2%	276	60.8%	233	58.5%
	Native American	1	0.6%	1	0.4%	3	0.7%	4	1.0%
	Pacific Islander	0	0.0%	1	0.4%	0	0.0%	0	0.0%
	Filipino	3	1.9%	1	0.4%	0	0.0%	2	0.5%
	Other Non-White	4	2.5%	5	2.0%	16	3.5%	13	3.3%
	Decline to state	4	2.5%	7	2.8%	12	2.6%	19	4.8%
	ALL Ethnicities	**161**	**100.0%**	**250**	**100.0%**	**454**	**100.0%**	**398**	**100.0%**

Santa Rosa Junior College - Program Unit Review

Automotive Technology - FY 2022-23 (plus current FY Summer and Fall)

5.7b Students Served - by Gender

The number of students in each Discipline at first census broken down by gender (duplicated headcount).

ALL Locations

(Combined totals from ALL locations in the District)

Automotive Technology	Gender	2020-21	Percent	2021-22	Percent	2022-23	Percent	2023-24	Percent
	Male	143	88.8%	223	89.2%	414	91.2%	362	91.0%
	Female	16	9.9%	26	10.4%	25	5.5%	28	7.0%
	Unknown	2	1.2%	1	0.4%	15	3.3%	8	2.0%
	ALL Genders	**161**	**100.0%**	**250**	**100.0%**	**454**	**100.0%**	**398**	**100.0%**

Automotive Technology - FY 2022-23 (plus current FY Summer and Fall)

5.7c Students Served - by Age The number of students in each Discipline at first census broken down by age (duplicated headcount).

ALL Locations (Combined totals from ALL locations in the District)

Automotive Technology	Age Range	2020-21	Percent	2021-22	Percent	2022-23	Percent	2
	0 thru 18	54	33.5%	66	26.4%	141	31.1%	
	19 and 20	50	31.1%	73	29.2%	143	31.5%	
	21 thru 25	34	21.1%	77	30.8%	105	23.1%	
	26 thru 30	11	6.8%	21	8.4%	23	5.1%	
	31 thru 35	2	1.2%	5	2.0%	12	2.6%	
	36 thru 40	1	0.6%	0	0.0%	4	0.9%	
	41 thru 45	2	1.2%	4	1.6%	7	1.5%	
	46 thru 50	3	1.9%	4	1.6%	9	2.0%	
	51 thru 60	3	1.9%	0	0.0%	5	1.1%	
	61 plus	1	0.6%	0	0.0%	5	1.1%	
	ALL Ages	**161**	**100.0%**	**250**	**100.0%**	**454**	**100.0%**	

5.8 Curriculum Offered Within Reasonable Time Frame

Our core progams are offered every semester, as are several automotive certificate electives. Several electives have been put into an alternating semester schedule due to reductions in FTEF.

Students seeking a certficate or degree in Automotive Technology can accomplish this within two years,
even with the recent scheduling cutbacks.

5.9a Curriculum Responsiveness

Our Automotive Department advisory committee has excellent attendance from industry. These members come from local dealerships, local independent repair shops, local body repair shops and automotive tool sales companies. Only one of these industry people also serves as a member of our adjunct faculty. We also have great attendance by SRJC faculty and staff, local high schools, and outside organizations of various kinds.
Our Automotive Department advisory committee reviewed our curriculum at its Spring 2014 meeting, and gave us feedback. As a result of the feedback we are working on obtaining better training vehicles and equipment to support our lab sections, and we are deactivating some

classes while adding to our Alternative Fuels program (hybrid vehicle training, first responder training). They also strongly voiced their opinion that we need to replace our wheel/tire and alignment equipment.

5.9b Alignment with High Schools (Tech-Prep ONLY)

We are deeply involved with local high schools and work extensively with the "Manager of School Initiatives and Career Pathway Development" and her department. We have been involved with 2+2 in past years, and now have developed a process that allows local high school auto instructors to administer the SRJC CBE (Credit By Exam) test for our Auto 100 Intro to Automotive Technology class. This allows high school students to enter our SRJC automotive program with advanced standing.
The Industrial Trade Technology courses currently offered through this high school CBE program are:

Auto 80...Intro to Automotive Technology
Det 80...Diesel Shop Practices
Det 81...Preventive Maintenance and Inspection

5.10 Alignment with Transfer Institutions (Transfer Majors ONLY)

The automotive program core courses are transferrable to California CSU schools but not UC schools.

5.11a Labor Market Demand (Occupational Programs ONLY)

Feedback from the Automotive Advisory Committee about business and labor expansion is strong.
Things in the auto service and sales sectors are also strong.
News from both automobile manufacturers and aftermarket service segments lament the shortage of qualified candidates to work in both technical and support staff positions.

In the North Bay area, College of Marin offers automotive classes and further north, Mendocino College offers an automotive program.

This is the 2008-2018 nine Bay Area county statistical projection found on the EDD website:

2008-2018 Occupational Employment Projections
Napa Metropolitan Statistical Area
(Napa County)

SOC Code	Occupational Title	Annual Average Employment		Employment Change		Average Annual Job Openings		
		2008	2018	Numerical [1]	Percent	New Jobs [2]	Replace-ment Needs [3]	Total Job [4]
49-3023	Automotive Service Technicians and Mechanics	290	330	40	13.8	5	6	1

2008-2018 Occupational Employment Projections
San Francisco-San Mateo-Redwood City Metropolitan Division
(Marin, San Francisco, and San Mateo Counties)

SOC Code	Occupational Title	Annual Average Employment		Employment Change		Average Annual Job Openings		
		2008	2018	Numerical [1]	Percent	New Jobs [2]	Replace-ment Needs [3]	Total Job [4]
49-3011	Aircraft Mechanics and Service Technicians	2,280	2,140	-140	-6.1	0	44	4

2008-2018 Occupational Employment Projections
Santa Rosa-Petaluma Metropolitan Statistical Area
(Sonoma County)

SOC Code	Occupational Title	Annual Average Employment		Employment Change		Average Annual Job Openings		
		2008	2018	Numerical [1]	Percent	New Jobs [2]	Replace-ment Needs [3]	Total Job [4]
49-3023	Automotive Service Technicians and Mechanics	1,200	1,240	40	3.3	3	23	2

2008-2018 Occupational Employment Projections
Oakland-Fremont-Hayward Metropolitan Division
(Alameda and Contra Costa Counties)

SOC Code	Occupational Title	Annual Average Employment		Employment Change		Average Annual Job Openings		
		2008	2018	Numerical [1]	Percent	New Jobs [2]	Replace-ment Needs [3]	Total Job [4]
49-3021	Automotive Body and Related Repairers	1,070	980	-90	-8.4	0	28	

2008-2018 Occupational Employment Projections
San Jose-Sunnyvale-Santa Clara Metropolitan Statistical Area
(Santa Clara and San Benito Counties)

SOC Code	Occupational Title	Annual Average Employment		Employment Change		Average Annual Job Openings		
		2008	2018	Numerical [1]	Percent	New Jobs [2]	Replace-ment Needs [3]	Total Job [4]
49-3011	Aircraft Mechanics and Service Technicians	390	400	10	2.6	1	8	

5.11b Academic Standards

The Automotive program discusses academic standards at our department meetings. We have recently been dealing with content standards while reviewing course outlines to establish SLOs. Employers expect that our students meet some type of industry performance standard, and we discuss these standards with our advisory committee. Often we use the ability to pass national, independent, industry accepted skill level tests as a standard. We also use acceptable work skill demonstrations as a standard.

6.1 Progress and Accomplishments Since Last Program/Unit Review

Rank	Location	SP	M	Goal	Objective	Time Frame	Progress to Date
0001	Santa Rosa	02	01	Maitain NATEF (now ASEEF) Certification for the Automotive program	1. Complete self evaluation 2. Implement necessary changes 3. Have an official inspection team visit and evaluate our program	Recert due: 2021.	1500 - 2000 man hours $1000 - $5000 in funds
0002	Santa Rosa	01	01	Replace outdated & worn auto shop equipment with new.	Replace listed equipment and tools (available in I&TT office)	summer 2020	$200,000.00
0003	Santa Rosa	02	01	Certify automotive instructors to certify students in the theory and use of Snap-On scantools, torque measuring tools, multimeters, and precision measuring tools. Certification to be issued by NC3, a national organization.	Take advantage of online "Train the Trainer" courses being offered by NC3.	summer 2020	$10,000

6.2b PRPP Editor Feedback - Optional

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6.3a Annual Unit Plan

Rank	Location	SP	M	Goal	Objective	Time Frame	Resources Required
0001	Santa Rosa	02	01	Maitain NATEF (now ASEEF) Certification for the Automotive program	1. Complete self evaluation 2. Implement necessary changes 3. Have an official inspection team visit and evaluate our program	Recert due: 2021.	1500 - 2000 man hours $1000 - $5000 in funds
0002	Santa Rosa	01	01	Replace outdated & worn auto shop equipment with new.	Replace listed equipment and tools (available in I&TT office)	summer 2020	$200,000.00
0003	Santa Rosa	02	01	Certify automotive instructors to certify students in the theory and use of Snap-On scantools, torque measuring tools, multimeters, and precision measuring tools. Certification to be issued by NC3, a national organization.	Take advantage of online "Train the Trainer" courses being offered by NC3.	summer 2020	$10,000