



Course Guidance and Course Planning

PROGRAM SURVEYS AND IN PROCESS TRACKING





Six Factors of Student Success

Source: Student Support Redefined

Student Perspective

- 1. Directed:** Students have a goal and know how to achieve it
- 2. Focused:** Students stay on track, keeping their eyes on the prize
- 3. Nurtured:** Students feel somebody wants and helps them to succeed
- 4. Engaged:** Students actively participate in class and extracurricular activities
- 5. Connected:** Students feel like they are part of the college community
- 6. Valued:** Students' skills, talents, abilities, and experiences are recognized; they have opportunities to contribute on campus and feel their contributions are appreciated



Associate of Science Degree: Diesel Technology

Heavy Duty Transportation Technology (HDTT) (Day Program)

Courses Required for the Major:		Units
DIES 100	Introduction to Diesel Technology	2
DIES 101	Heavy Duty Truck, Advanced Transportation, Equipment Preventive Maintenance and Inspections	2
DIES 102	Heavy Duty Truck and Heavy Equipment Heating and Air Conditioning	2
DIES 105	Measuring Tools and Applied Mathematics	2
DIES 123	Diesel Engines C	2
DIES 138	Electrical Systems	3
DIES 144	Electronics for Diesel Technology	3
DIES 155	Air Brake Systems	3
DIES 170	Truck Drive Axles and Specifications	3
DIES 175	Truck Chassis R&R	3
DIES 180	Steering, Suspension, and Driveline Systems	3
DIES 200	Mobile Hydraulic Systems	3

Select two courses from:

DIES 121	Diesel Engines A or	
DIES 122	Diesel Engines B or	
DIES 124	Diesel Engines D	7

Select one course from:

DIES 160	Heavy Duty Manual Transmissions or	
DIES 165	Truck Automatic Transmissions	3

Total Units = 48

Certificate of Performance: Diesel Fuel Injection Systems*

Courses: **Units**

DIES 100	Introduction to Diesel Technology	2
DIES 137	Diesel Fuel Injection Systems	2

Certificate of Achievement: Diesel Technology

Engine Overhaul, Caterpillar

Courses Required for the Major: **Units**

DIES 100	Introduction to Diesel Technology	2
DIES 105	Measuring Tools & Applied Mathematics	2
DIES 122	Diesel Engines B	7
DIES 123	Diesel Engines C	2
DIES 135	Applied Failure Analysis	3
DIES 137	Diesel Fuel Injection Systems	2

Total Units = 18

DIES 105	Measuring Tools & Applied Mathematics	2
DIES 180	Steering, Suspension and Driveline Systems	3

Total Units = 7

Certificate of Performance: Truck Air Brake Systems*

Courses: **Units**

DIES 100	Introduction to Diesel Technology	2
DIES 105	Measuring Tools & Applied Mathematics	2
DIES 155	Air Brake Systems	3

Total Units = 7

Certificate of Performance: Mobile Hydraulics Technician*

Courses: **Units**

DIES 100	Introduction to Diesel Technology	2
DIES 105	Measuring Tools and Applied Mathematics	2

DIES 200 Mobile

Performance: Truck Powertrain

Introduction to Diesel Techn
ing Tools and Applied
natics
Final Drives and Steer

s

uer Carriage
avy Equipment Transi

Certificate of Performance: Truck Transmissions and Clutches*

Courses: **Units**

DIES 100	Introduction to Diesel Technology	2
DIES 105	Measuring Tools & Applied Mathematics	2
DIES 160	Heavy Duty Manual Transmissions	3
DIES 165	Truck Automatic Transmissions	3
DIES 175	Truck Chassis R&R	3


Total Units = 13

Certificate of Performance: Truck & Equipment Electrical Systems*

Courses: **Units**

DIES 100	Introduction to Diesel Technology	2
DIES 138	Electrical Systems	3
DIES 144	Electronics for Diesel Technology	3

Total Units = 8



What if there was a spreadsheet that could document student progress through the degree and certificate pathway?

A document that students could highlight to track their progress with an end goal in sight.

Diesel Technology Courses Required for Degrees and Certificates

Course	Units	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
DIES 90	1																		
DIES 100	2	x//	x//	x//	x//	x//	x//	x//	x//	x//	x//	x//	x//	x//	x//	x//	x//	x//	x//
DIES 101	2																	x//	x//
DIES 102	2																	x//	x//
DIES 105	2		x//		x//	x//	x//	x//	x//	x//	x//	x//	x//	x//	x//	x//	x//	x//	x//
DIES 121	7													x//			x//	2 of 3*	2 of 3*
DIES 122	7											x//			x//			2 of 3*	2 of 3*
DIES 123	2											x//	x//	x//				x//	x//
DIES 124	7												x//			x//		2 of 3*	2 of 3*
DIES 125	4										1 of 3*								
DIES 126	4										1 of 3*								
DIES 128	4										1 of 3*								
DIES 131	4										x//								
DIES 135	3										x//	x//	x//	x//	x//	x//	x//		
DIES 137	2	x//									x//	x//	x//	x//	x//	x//	x//		
DIES 137A	2																		
DIES 138	3			x//							x//				x//	x//	x//	x//	x//
DIES 144	3	x//		x//							x//				x//	x//	x//	x//	x//
DIES 155	3				x//						x//							x//	
DIES 160	3						x//				1 of 2**							1 of 2**	x//
DIES 165	3						x//				1 of 2**							1 of 2**	
DIES 170	3					x//					x//							x//	
DIES 175	3						x//											x//	
DIES 180	3		x//															x//	
DIES 200	3							x//										x//	
DIES 210	3								x//										x//
DIES 220	3							x//		x//									x//
DIES 230	3									x//									x//
DIES 240	3																		x//
Units	xxxxx	7	7	8	7	7	13	7	7	13	32	18	18	18	19	19	19	48	48

Certificates of Performance

- Fuel Injection Systems
- Steering, Suspension, and Drivelines
- Truck & Equipment Electrical Systems
- Truck Air Brake Systems
- Truck Drive Axles
- Truck Transmissions and Clutches
- Heavy Equipment Undercarriage Systems
- Mobile Hydraulics Technician
- Heavy Equipment Powertrains

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***These Certificates of Achievement can become A.S. Degrees.

Certificates of Achievement

- Heavy Duty Diesel and Advanced Transportation Technology (HDDAT)
- Engine Overhaul Caterpillar
- Engine Overhaul Cummins
- Engine Overhaul Detroit Diesel
- Engine Repair Caterpillar
- Engine Repair Cummins
- Engine Repair Detroit Diesel
- Heavy Duty Transportation Technology, HDTT ***
- Heavy Equipment Technology, HET ***

Diesel Technology Courses Required for Degrees and Certificates

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DIES 90	1																		
DIES 100	2	x/ /	x/ /	x/ /	x/ /	x/ /	x/ /	x/ /	x/ /	x/ /	x/ /	x/ /	x/ /	x/ /	x/ /	x/ /	x/ /	x/ /	x/ /
DIES 101	2																	x/ /	x/ /
DIES 102	2																	x/ /	x/ /
DIES 105	2		x/ /		x/ /	x/ /	x/ /	x/ /	x/ /	x/ /	x/ /	x/ /	x/ /	x/ /	x/ /	x/ /	x/ /	x/ /	x/ /
DIES 121	7																		
DIES 122	7																		
DIES 123	2											x/ /						2 of 3*	2 of 3*
DIES 124	7											x/ /	x/ /	x/ /				x/ /	x/ /
DIES 125	4												x/ /					2 of 3*	2 of 3*
DIES 126	4										1 of 3*								
DIES 128	4										1 of 3*								
DIES 131	4																		
DIES 135	3										x/ /	x/ /	x/ /	x/ /	x/ /	x/ /	x/ /		
DIES 137	2	x/ /									x/ /	x/ /	x/ /	x/ /	x/ /	x/ /	x/ /		
DIES 137A	2																		
DIES 138	3			x/ /							x/ /				x/ /	x/ /	x/ /	x/ /	x/ /
DIES 144	3	x/ /		x/ /							x/ /				x/ /	x/ /	x/ /	x/ /	x/ /
DIES 155	3				x/ /						x/ /							x/ /	
DIES 160	3						x/ /				1 of 2**							1 of 2**	x/ /
DIES 165	3						x/ /				1 of 2**							1 of 2**	
DIES 170	3					x/ /					x/ /							x/ /	
DIES 175	3						x/ /											x/ /	
DIES 180	3		x/ /															x/ /	x/ /
DIES 200	3								x/ /									x/ /	x/ /
DIES 210	3									x/ /								x/ /	x/ /
DIES 220	3							x/ /										x/ /	x/ /
DIES 230	3									x/ /								x/ /	x/ /
DIES 240	3																		
Units	xxxxx	7	7	8	7	7	13	7	7	13	32	18	18	18	19	19	19	48	48

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- Heavy Equipment Powertrains

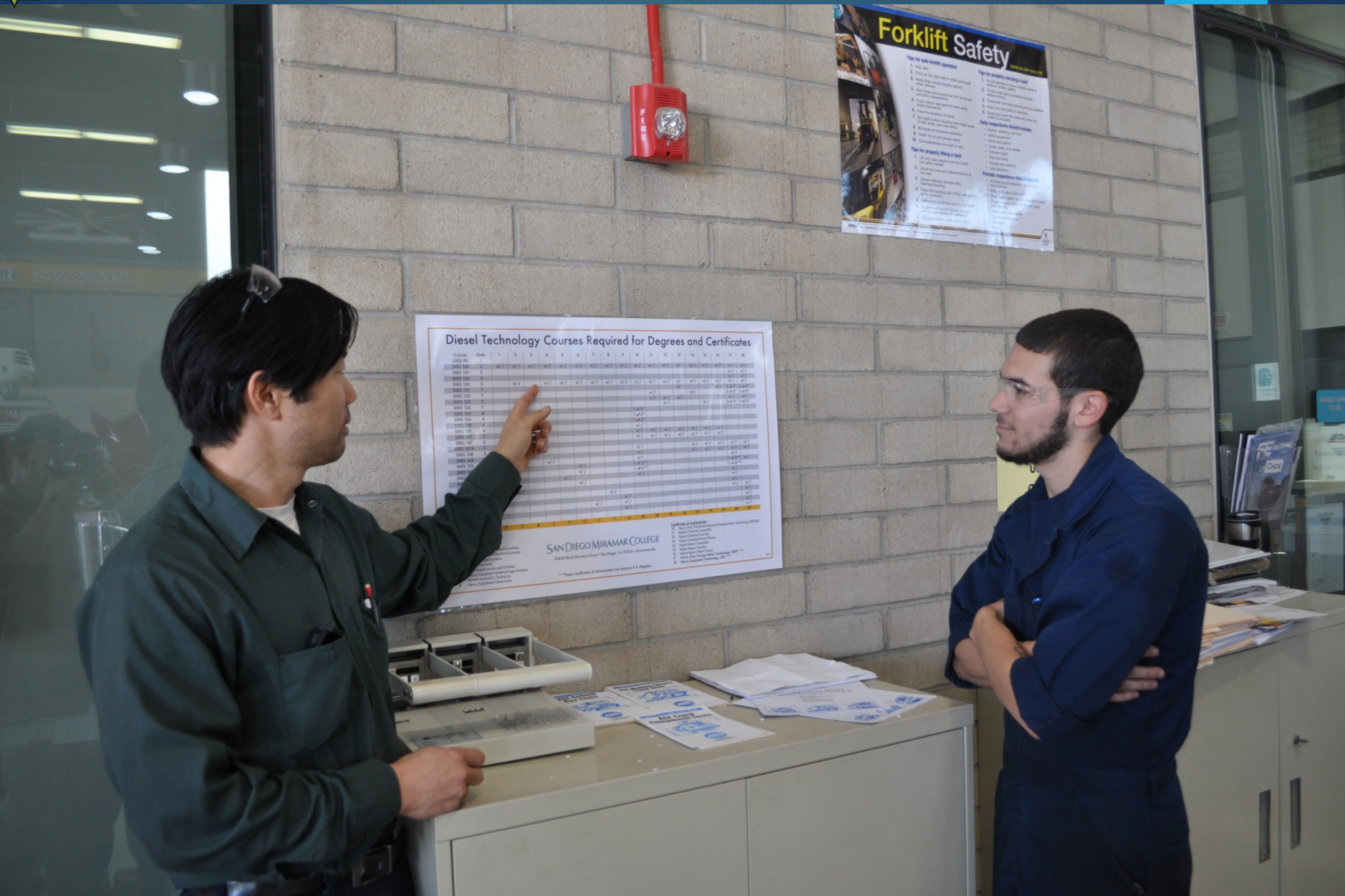
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DIES 101	2																	x//	x//
DIES 102	2																	x//	x//
DIES 105	2		x//		x//	x//	x//	x//	x//	x//	x//	x//	x//	x//	x//	x//	x//	x//	x//
DIES 121	7																	2 of 3*	2 of 3*
DIES 122	7																	2 of 3*	2 of 3*
DIES 123	2																	x//	x//
DIES 124	7																	2 of 3*	2 of 3*
DIES 125	4										1 of 3*								
DIES 126	4										1 of 3*								
DIES 128	4										1 of 3*								
DIES 131	4										x//								
DIES 135	3										x//	x//	x//	x//	x//	x//	x//		
DIES 137	2	x//									x//	x//	x//	x//	x//	x//	x//		
DIES 137A	2																		
DIES 138	3			x//							x//				x//	x//	x//	x//	x//
DIES 144	3	x//		x//							x//				x//	x//	x//	x//	x//
DIES 155	3				x//						x//							x//	
DIES 160	3						x//				1 of 2**							1 of 2**	x//
DIES 165	3						x//				1 of 2**							1 of 2**	
DIES 170	3					x//					x//							x//	
DIES 175	3						x//											x//	
DIES 180	3		x//															x//	
DIES 200	3								x//									x//	x//
DIES 210	3									x//									x//
DIES 220	3							x//		x//									x//
DIES 230	3									x//									x//
DIES 240	3																		x//
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Enrollment Strategies For All Students

- ▶ **Determining course offerings and times**
 - ▶ **Working Students**
 - ▶ **Apprenticeships- various work schedules**

Name: _____

Spring 2017 Enrollment Survey
(One survey per student please!)

The Aviation Department would like your input as we prepare the Spring 2017 semester schedule. To best select courses to be offered, we respectfully request completion of the following survey. Provide any comments you may have on the back.

Please place the completed survey in Professor Pink's mailbox, outside office F1-103B, no later than Friday, September 9, 2017. Surveys received after the 9th will not be included in the schedule development.

Below is a list of possible courses tentatively to be offered in the Fall 2016 schedule.

Place an "X" next to the class(es) you intend to take. Circle the "X" if the course(s) are the last ones needed for program completion in *Spring 2017*. Line out classes in which you are currently enrolled and the classes you have successfully completed. *Surveys that add up to more than 21.5 units will not be included in the tallies.* A minimum of 15 students will be required for a course to be offered.

Course	Title	Units
AVIM 103A/104A	Dope/Fabric Composites	3.0 / 1.5
AVIM 103B/104B	Sheet-metal and Welding	3.0 / 1.5
AVIM 103C/104C	Aircraft Hydraulic Systems	3.0 / 1.0
AVIM 103D/104D	Aircraft Landing Gear	3.0 / 1.0
AVIM 105A/106A	Cabin Atmosphere and Control	1.5 / 0.5
AVIM 105B/106B	Aircraft Assembly and Rigging	1.5 / 1.0
AVIM 107B/108B	Turbine Engines	3.0 / 1.0
AVIM 109A/110A	Airframe Electrical Systems	3.0 / 1.0
AVIM 109B/110B	Aircraft Ignition Systems	2.0 / .75
AVIM 109C/110C	Powerplant Electrical Systems	3.0 / 0.5
AVIM 109D	Fire Protection	1.0
AVIM 111C/112C	Reciprocating Engines I	3.0 / 2.0
AVIM 111D/112D	Reciprocating Engines II	3.0 / 1.0
AVIM 120/121A	DC Electrical	3.0 / 1.5
AVIM 241/242	Propellers	3.0 / 1.0
AVIM 249/250	Induction and Fuel Metering	3.0 / 1.0
AVIM 253/254	Lubrication, Cooling & Exhaust	3.0 / 1.0

What semester did you complete general? (sem/year)

Are you trying to complete the program in 5 semesters?	Yes	No
Would you attend classes on Saturday?	Yes	No
Would you attend classes on Saturday Evening, 3:00 to 10:00?	Yes	No
Would you attend classes on Sunday?	Yes	No
Would you attend classes in the summer?	Yes	No
When can you attend classes? (circle one)	Day only	Eve only Day or Eve

Student Success Framework for Long-Term Integrated Planning • Fall 2016 - Spring 2020

