# Course Guidance and Course Planning

**PROGRAM SURVEYS AND IN PROCESS TRACKING** 



# Six Factors of Student Success

Source: Student Support Redefined

# Student Perspective

- Directed: Students have a goal and know how to achieve it
- Focused: Students stay on track, keeping their eyes on the prize
- Nurtured: Students feel somebody wants and helps them to succeed
- Engaged: Students actively participate in class and extracurricular activities
- 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: Uni								
DIES 100	Introduction to Diesel Technology	2						
DIES 101	Heavy Duty Truck, Advanced							
	Transportation, Equipment Prevent	ive						
	Maintenance and Inspections	2						
DIES 102	Heavy Duty Truck and Heavy							
	Equipment Heating and Air							
	Conditioning	2						
<b>DIES 105</b>	Measuring Tools and Applied							
	Mathematics	2						
DIES 123	Diesel Engines C	2 3 3 3 5 3 3 3 3						
DIES 138	Electrical Systems	3						
DIES 144	Electronics for Diesel Technology	3						
DIES 155	Air Brake Systems	3						
DIES 170	Truck Drive Axles and Specification	s 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\*

~				Mobile Hy	/draulics	s Technician*		
	urses:		its	Courses:		Units		
		ntroduction to Diesel Technology	2					
		Nissal Eval Inisation Systems	n l			to Diesel Technology 2		
DI		cate of Achievement:			easuring to athematics	ols and Applied		
	Diese	Technology				ificate of Performan		
	Engine	Overhaul, Caterpillar		DIES 200 IVI		k Transmissions and		<b>*</b>
	Lingine	overnau, caterpinar			Iruc	k fransmissions and	Clutches	5
	Courses	Required for the Major:	Units	Performance	e: Cours	es:	U	nits
	DIES 100	Introduction to Diesel Technolog	y 2	nent Powert	rai DIES 1	00 Introduction to Diesel Te	chnology	2
	DIES 105	Measuring Tools & Applied			DIES 1	05 Measuring Tools & Appli	ed	
		Mathematics	2			Mathematics		2
1	DIES 122	Diesel Engines B	7	ction to Diesel Tec		60 Heavy Duty Manual Tran	smissions	3
	DIES 123	Diesel Engines C	2	ing Tools and Appl	lied DIES 1	65 Truck Automatic Transm	issions	3
	DIES 135	Applied Failure Analysis	3	natics	DIES 1	75 Truck Chassis R&R		3
<u> </u>	DIES 137	Diesel Fuel Injection Systems	2	Final Drives and St	eer		Total Units =	= 13
]		Total Un		S		-		
D	IES 105	measuring loois & Applied		carriage	Cortific	ate of Performance:		
_		Mathematics	2 avy	/ Equipment Transı	_			
D	IES 180	Steering, Suspension and Driveline				Equipment Electrica	11	
-		Systems	3		System	S*		
		Total Unit	ts = 7		Courses:		Units	
					DIES 100	Introduction to Diesel Technol	ology 2	
	Certif	icate of Performance:			DIES 138	Electrical Systems	3	
	Truck	Air Brake Systems*			DIES 144	Electronics for Diesel Techno	logy 3	
	Courses	•	Unite			Tot	al Units = 8	

**Certificate of Performance:** 

Mobile Uvdraulice Technician\*

Courses:		Units
DIES 100	Introduction to Diesel Technology	2
DIES 105	Measuring Tools & Applied	
	Mathematics	2
DIES 155	Air Brake Systems	3
	Total Un	its = 7



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.



Course DIES 90	Units 1	1	2	3	4	5	6	7	8	9	10	n	12	13	14	15	16	17	18
DIES 100	2	×//	×//	×//	×//	×//	×//	×//	x//	1/1	×//	×/ !	×//	×//	×//	×//	×//	×//	×//
DIES 101	2																_	x//	×//
DIES 102	2	EN LE	Res and	ALEANER !!	The second	N ET	HAVEED	in State	17.5°	Contraction of the	「主法」「		WERE REAL		(45) <sup>1</sup>	partition (1)		×//	×//
<b>DIES 105</b>	2		x//		x//	×//	x//	x//	x//	×//	x//	x/ !	×//	×//	x//	×//	x//	x//	×//
DIES 121	7	ALL AN	NEW SAL	日本語れ	a nation	No. No.	Seast of	11 - Store	The lot of	37 (484	AST OF	1243-11	E Rain	×//			x//	2 of 3*	2 of 3
<b>DIES 122</b>	7											x/ !			x//			2 of 3*	2 of 3
DIES 123	2	Second a		Take In-	Series Salari	SHOTHER.	Louisver .	Millia State	15州北京	121-457	So the of	×/!	x//	x//	the second	Street L	的修算的	×//	×//
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#### Certificates of Performance

- Fuel Injection Systems
- 2 Steering, Suspension, and Drivelines
- 3 Truck & Equipment Electrical Systems
- 4 Truck Air Brake Systems
- 5 Truck Drive Axles
- Truck Transmissions and Clutches 6
- Heavy Equipment Undercarriage Systems 7
- 8 Mobile Hydraulics Technician
- 9 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) 10
- Engine Overhaul Caterpillar 11
- Engine Overhaul Cummins 12
- 13 Engine Overhaul Detroit Diesel

- Engine Repair Caterpillar 14
- 15 Engine Repair Cummins
- 16 Engine Repair Detroit Diesel
- 17 Heavy Duty Transportation Technology, HDTT \*\*\* 18
  - Heavy Equipment Technology, HET \*\*\*

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DIES 126	4										1 of 3*								
DIES 128	4										1 of 3*								
<b>DIES 131</b>	4										x//								
DIES 135	3										x//	×//	x//	x//	x//	×//	x//		
<b>DIES 137</b>	2	x//									x//	x//	x//	x//	x//	x//	x//		
DIES 137A	2																		
<b>DIES 138</b>	3			×//							x//				x//	x//	x//	x//	x//
DIES 144	3	×//		×//							x//				x//	x//	x//	×//	x//
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# D.

#### Certificates of Performance

- Fuel Injection Systems
- Steering, Suspension, and Drivelines Truck & Equipment Electrical Systems

XXXXX

- Truck Air Brake Systems 1
- Truck Drive Axles 5
- Truck Transmissions and Clutches 6
- Heavy Equipment Undercarriage Systems 7

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- Mobile Hydraulics Technician 8
- Heavy Equipment Powertrains 9

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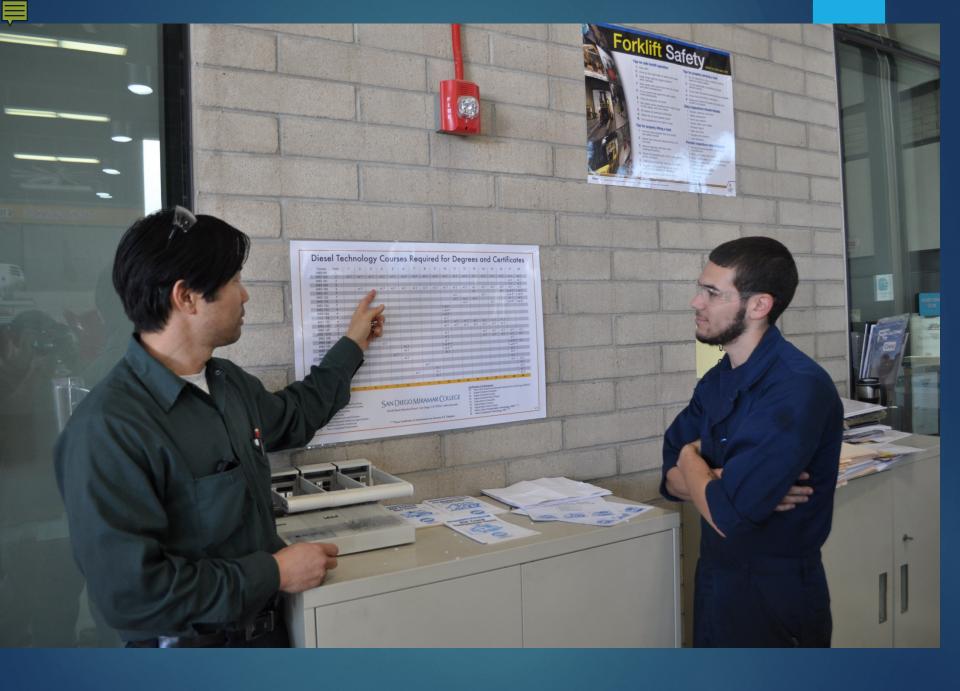
\*\*\*These Certificates of Achievement can become A.S. Degrees.

Certificates of Achievement 10 Heavy Duty Diesel and Advanced Transportation Technology (HDDAT) 11 Engine Overhaul Caterpillar

9/15

- 12 Engine Overhaul Cummins 13 Engine Overhaul Detroit Diesel 14 Engine Repair Caterpillar

- Engine Repair Commins
  Engine Repair Commins
  Engine Repair Commins
  Hoavy Duty Transportation Technology, HDTT \*\*\*
  Heavy Equipment Technology, HET \*\*\*



# Diesel Technology Courses Required for Degrees and Certificates

				57				/		1									$\checkmark$
Course	Units	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
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Units	XXXXX	7	7	8	7	7	13	7	7	13	32	18	18	18	19	19	19	48	48

#### Certificates of Performance

- 1 Fuel Injection Systems
- 2 Steering, Suspension, and Drivelines
- 3 Truck & Equipment Electrical Systems
- 4 Truck Air Brake Systems
- 5 Truck Drive Axles
- 6 Truck Transmissions and Clutches
- 7 Heavy Equipment Undercarriage Systems
- 8 Mobile Hydraulics Technician
- 9 Heavy Equipment Powertrains

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#### Certificates of Achievement

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- 11 Engine Overhaul Caterpillar
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- 14 Engine Repair Caterpillar
- 15 Engine Repair Cummins
- 16 Engine Repair Detroit Diesel
- 17 Heavy Duty Transportation Technology, HDTT \*\*\*
- 18 Heavy Equipment Technology, HET \*\*\*

# 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 9<sup>th</sup> 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 <u>successfully</u> 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 and you complete general? (sem/year)						
Are you trying to complete the program in 5 semesters?	Yes	N	lo			
Would you attend classes on Saturday?	Yes	lo				
Would you attend classes on Saturday Evening, 3:00 to 10:00?	Yes	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

