Course at a Glance

Plan

The Course at a Glance provides a useful visual organization of the AP Statistics curricular components, including:

- Sequence of units, along with approximate weighting and suggested pacing.
 Please note, pacing is based on 45-minute class periods, meeting five days each week for a full academic year.
- Progression of topics within each unit
- Spiraling of the big ideas and course skills across units

Teach

SKILL CATEGORIES

Skill categories spiral throughout the course.



Assess

Assign the Personal Progress Checks—either as homework or in class—for each unit. Each Personal Progress Check contains formative multiplechoice and free-response questions. The feedback from the Personal Progress Checks shows students the areas where they need to focus.

UN	ПТ	Exj	ploring		
		On	e-Variable		
		Da	ta		
~14	-16	Class Periods	15–23% AP Exam Weighting		
VAR	1.1	Introd	lucing Statistics:		
		What	Can We Learn		
		from 1	Data?		
VAR	1.2	The L	anguage of		
2		Variation: Variables			
UNC	1.3	Repre	senting a		
2		with 7	l'ables		
UNC	1.4	Repre	senting a		
2		with (Graphs		
UNC	1.5	Repre	senting a		
2		with (Graphs		
			-		
UNC	1.6	Descr	ibing the bution of a		
2		Quan	titative Variable		
		~			
2	1.7	a Oua	ntitative Variable		
4					
UNC	1.8	Graph	lical		
2		Repre	sentations of		
		Sumn	ary Statistics		
UNC	1.9	Comp	aring		
2		Distri	butions of a		
		Quan			
VAR	1.10	The N	ormal		
2		Distri	bution		

~1	0–1	1 Class Periods	5–7% AP Exam Weighting
VAR 1	2.1	Introdu Are Var	cing Statistics: iables Related?
UNC 2	2.2	Represe Categor	enting Two ical Variables
UNC 2	2.3	Statistic Categor	cs for Two ical Variables
UNC DAT 2	2.4	Represe Relation Two Qu Variable	enting the aship Between aantitative es
DAT 2 4	2.5	Correla	tion
DAT 2	2.6	Linear I Models	Regression
DAT 2	2.7	Residua	lls
DAT 2 4	2.8	Least S Regress	quares sion
DAT 2	2.9	Analyzi from Lii	ng Departures nearity

Personal Progress Check 1

Multiple-choice: ~35 questions Free-response: 2 questions • Exploring Data

Exploring Data

Personal Progress Check 2

Multiple-choice: ~35 questions Free-response: 2 questions • Exploring Data

Investigative Task

Collecting Data				
~9-	-10 Class Periods	12-15% AP Exam Weighting		
VAR 1	3.1 Intro Do th Colle	ducing Statistics: ne Data We ected Tell the Truth?		
DAT 1 4	3.2 Intro Plan	duction to ning a Study		
DAT	3.3 Rano	lom Sampling and		
1	Data	Collection		
DAT	3.4 Poter	ntial Problems		
1	with	Sampling		
VAR	3.5 Intro	duction to		
1	Expe	erimental Design		
VAR	3.6 Selec	cting an		
1	Expe	erimental Design		
VAR	3.7 Infer	rence and		
4	Expe	eriments		



Sampling Distributions					
~10)-12 Class Periods 7-12% AP Exam Weighting				
VAR 1	5.1 Introducing Statistics: Why Is My Sample Not Like Yours?				
VAR 3	5.2 The Normal Distribution, Revisited				
UNC 3	5.3 The Central Limit Theorem				
UNC 4 3	5.4 Biased and Unbiased Point Estimates				
VAR 3 4	5.5 Sampling Distributions for Sample Proportions				
UNC 3 4	5.6 Sampling Distributions for Differences in Sample Proportions				
UNC 3 4	5.7 Sampling Distributions for Sample Means				
UNC 3 4	5.8 Sampling Distributions for Differences in Sample Means				

Personal Progress Check 3

Multiple-choice: ~20 questions Free-response: 2 questions

- Exploring Data and Collecting Data
- Collecting Data

Personal Progress Check 4

Multiple-choice: ~45 questions Free-response: 2 questions

- Probability
- Investigative Task

Personal Progress Check 5

Multiple-choice: ~35 questions Free-response: 2 questions

- Probability and Sampling Distributions
- Investigative Task

1 1 1 1 1 1 1 1 1 1						
~16	-18	Class Periods	12–15% AP Exam Weighting			
VAR 1	6.1	Introd Why H	lucing Statistics: Be Normal?			
UNC +	6.2	Constructing a Confidence Interval for a Population Proportion				
UNC 4	6.3	Justifying a Claim Based on a Confidence Interval for a Population Proportion				
VAR 1 4	6.4	Setting Up a Test for a Population Proportion				
VAR DAT 3 4	6.5	Interp p-Valu	oreting les			
DAT 4	6.6	Concl Popul	uding a Test for a ation Proportion			
UNC +	6.7	Potential Errors When Performing Tests				
UNC +	6.8	Confid for the Two F	dence Intervals e Difference of Proportions			
UNC 4	6.9	Justify Claim Confid for a I Popul	ying a I Based on a dence Interval Difference of ation Proportions			
VAR 1 4	6.10	Settin the Di Popul	g Up a Test for ifference of Two ation Proportions			
VAR DAT 3 4	6.11	Carry Test fo of Tw Propo	ing Out a or the Difference o Population ortions			

7 Inference for Quantitative Data: Means						
~14	-16	Class Periods	10–18% AP Exam Weighting			
VAR 1	7.1	Introducing Statistics: Should I Worry About Error?				
VAR UNC +	7.2	Constructing a Confidence Interval for a Population Mean				
UNC 4	7.3	Justifying a Claim About a Population Mean Based on a Confidence Interval				
VAR 1 4	7.4	Setting Up a Test for a Population Mean				
VAR DAT 3 4	7.5	Carrying Out a Test for a Population Mean				
UNC +	7.6	Confidence Intervals for the Difference of Two Means				
UNC 4	7.7	Justif About Two M Confie	iying a Claim t the Difference of Means Based on a dence Interval			
VAR 1 4	7.8	Settin the Di Popul	ng Up a Test for ifference of Two lation Means			
VAR DAT 3 4	7.9	Carry the Di Popul	ring Out a Test for ifference of Two lation Means			
	7.10	Skills Imple Comn Infere	Focus: Selecting, ementing, and nunicating ence Procedures			

UNIT 8	Inference for Categorical Data Chi-Square
~10-1	1 Class Periods 2–5% AP Exam Weighting
VAR 8.1	Introducing Statistics: Are My Results Unexpected?
VAR 8.2	2 Setting Up a Chi-Square Goodness of Fit Test
VAR 8.3 DAT 3 4	Carrying Out a Chi-Square Test for Goodness of Fit
VAR 8.4	Expected Counts in Two-Way Tables
VAR 8.5 1 4	Setting Up a Chi-Square Test for Homogeneity or Independence
VAR 8.6 DAT 3 4	Carrying Out a Chi-Square Test for Homogeneity or Independence
8.7	Skills Focus: Selecting an Appropriate Inference Procedure for Categorical Data

Personal Progress Check 6

Multiple-choice: ~55 questions Free-response: 2 questions

- Inference
- Investigative Task

Personal Progress Check 7

Multiple-choice: ~50 questions Free-response: 2 questions
Inference and Collecting Data

- Investigative Task

Personal Progress Check 8

Multiple-choice: ~30 questions Free-response: 2 questions • Inference

Inference and Exploring Data/ Collecting Data

9 Inference for Quantitative Data: Slopes					
~7	7-8	Class Periods	2-!	AP Exam Weighting	J
VAR 1	9.1	Introd Do Th	lucing tose P	Statistics oints Alig	s: n?
UNC +	9.2	Confi for the Regre	dence e Slop ssion	Intervals e of a Model	
UNC 4	9.3	Justif About of a R Mode Confi	ying a t the S egress l Base dence	Claim Clope sion d on a Interval	
VAR 1 4	9.4	Settin for the Regre	ig Up a e Slop ession	a Test e of a Model	
VAR DAT 3 4	9.5	Carry for the Regre	ing O e Slop ession	ut a Test e of a Model	
	9.6	Skills an Ap Infere	Focus propr ence P	s: Selectir iate rocedure	ıg

Personal Progress Check 9

Multiple-choice: ~25 questions Free-response: 1 question • Inference and Exploring Data