WEST CHESTER UNIVERSITY M.S. IN APPLIED STATISTICS

M.S. IN APPLIED STATISTICS

College of the Sciences and Mathematics

Curriculum

Code	Title	Credits
Required		
STA 503	Introduction to R	1
STA 505	Mathematical Statistics I	3-4
or STA 504	Mathematical Statistics I with Calculus	Review
STA 506	Mathematical Statistics II	3
STA 507	Introduction to Categorical Data Analysis	3
STA 511	Intro Stat Computing & Data Management	3
STA 512	Principles of Experimental Analysis	4
STA 513	Intermediate Linear Models	4
STA 514	Modern Experimental Design	3
Electives	•	
Select 9 credits from	the following list of electives:	9
STA 531	Topics In Applied Statistics	
STA 532	Survival Analysis	
STA 533	Longitudinal Data Analysis	
STA 534	Time Series	
STA 535	Multivariate Data Analysis	
STA 536	Data Mining	
STA 537	Advanced Statistical Programming Using SAS	
STA 538	Statistical Programming Using R	
STA 539	Applied Bayesian Methods	
STA 540	Statistical Consulting	
STA 541	Categorical Data Analysis II	
STA 542	Statistical Methods for Observational Studies	
STA 543	Statistical Methods in Business and Finance	
STA 544	Applied Marketing Analytics	
STA 545	Statistical Design and Analysis of Clinical Trials	
STA 546	Foundations of Bioinformatics	
STA 551	Foundations of Data Science	
STA 552	Applied Statistical Machine Learning	
STA 553	Data Visualization	
STA 601	Internship In Applied Statistics	
STA 609	Thesis I	
STA 610	Thesis II	
Total Minimum Credits Required		

Sample Course Plan

To track their individual degree progress, students are advised to access their Degree Progress Report (DPR) via my WCU and consult their Graduate Coordinator. For more information, visit wcupa.edu/DegreeProgressReport (http://wcupa.edu/DegreeProgressReport/).

The following is a sample suggested course sequence for this program; course offerings and availability are not guaranteed. Students should consult their academic advisor with any questions.

Non-Thesis Option

Course	Title	Credits
Year One	Title	Credits
Semester On		
STA 503	Introduction to R	1
STA 505	Mathematical Statistics I with	3-4
or STA 504	or Mathematical Statistics I with Calculus Review	
STA 511	Intro Stat Computing & Data Management	3
	Credits	7.0
C . 75		7-8
Semester Tw		
STA 506	Mathematical Statistics II	3
STA 512	Principles of Experimental Analysis	4
	Credits	7
Summer		
STA 601	Internship In Applied Statistics (Optional)	3
Elective (Opt	tional) 1	3
	Credits	6
Year Two		
Semester The	ree	
STA 507	Introduction to Categorical Data Analysis	3
STA 513	Intermediate Linear Models	4
	Credits	7
Semester For	ur	
STA 514	Modern Experimental Design	3
Elective (Optional)		3
	Credits	6
	Total Credits	33-34

Can take more than one elective (any STA course numbered STA 531 or above) each summer.

Thesis Option

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Course Year One	Title	Credits		
Semester On	ne			
STA 503	Introduction to R	1		
STA 505 or STA 504	Mathematical Statistics I or Mathematical Statistics I with Calculus Review	3-4		
STA 511	Intro Stat Computing & Data Management	3		
	Credits	7-8		
Semester Tw	70			
STA 506	Mathematical Statistics II	3		
STA 512	Principles of Experimental Analysis	4		
	Credits	7		
Summer				
STA 601	Internship In Applied Statistics (Optional)	3		
	Credits	3		
Year Two Semester The	ree			
STA 507	Introduction to Categorical Data Analysis	3		
STA 513	Intermediate Linear Models	4		

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	Credits	6
STA 610	Thesis II	3
STA 514	Modern Experimental Design	3
Semester F	our	
	Credits	10
STA 609	Thesis I	3