

## Recommended COURSE SEQUENCING for PASS-Statistics for Environmental Science

Please use this document as a guide to help you determine a reasonable sequence for the courses you need to complete your PASS. Retain this document for planning, and use it as a checklist to keep track of your work. For the PASS-Statistics for Environmental Science, you must take the six (6) required courses and six (6) additional elective courses. Prior to taking courses in Group B, you must take the required courses in Group A. Before taking any courses in Group C, you must take any required courses in Group B, plus any Group B electives you may choose, and so on. Within a group, the order in which you take courses is not so important.

- **Impact and Risk Assessment Strand:** We recommend Introduction to Quantitative Risk Analysis and Bayesian Environmental Statistics (and, if you have not had Bayesian statistics previously, one or more of our sequence of Bayesian statistics courses), plus additional electives of your own choosing.
- **Ecological Studies Strand:** We recommend Sample Size and Power Determination and Ecological and Environmental Sampling, plus additional electives of your own choosing.

		Course Date			Course Date		
<b>GROUP A</b>							
<input type="checkbox"/>	<b>Regression Analysis</b>	<b>Required</b>	_____	<input type="checkbox"/>	Ecological and Environmental Sampling	Elective	_____
<input type="checkbox"/>	Introduction to Resampling Methods	Elective	_____	<input type="checkbox"/>	Intro to Bayesian Computing & Techniques	Elective	_____
<input type="checkbox"/>	Introduction to Statistical Modeling	Elective	_____	<input type="checkbox"/>	Spatial Analysis Techniques in R	Elective	_____
<b>GROUP B</b>							
<input type="checkbox"/>	<b>Matrix Algebra Review</b>	<b>Required</b>	_____	<input type="checkbox"/>	Multivariate Statistics	Elective	_____
<input type="checkbox"/>	Sample Size and Power Determination	Elective	_____	<input type="checkbox"/>	Bootstrap Methods	Elective	_____
<input type="checkbox"/>	Introduction to Quantitative Risk Analysis	Elective	_____	<input type="checkbox"/>	Generalized Linear Models	Elective	_____
<input type="checkbox"/>	Introduction to Bayesian Statistics	Elective	_____	<input type="checkbox"/>	Categorical Data – Applied Modeling	Elective	_____
<input type="checkbox"/>	Maximum Likelihood Estimation	Elective	_____	<b>GROUP D</b>			
<input type="checkbox"/>	Categorical Data Analysis	Elective	_____	<input type="checkbox"/>	<b>Cluster Analysis</b>	<b>Required</b>	_____
<b>GROUP C</b>							
<input type="checkbox"/>	<b>Logistic Regression</b>	<b>Required</b>	_____	<input type="checkbox"/>	Bayesian Regression Modeling via MCMC	Elective	_____
<input type="checkbox"/>	<b>Spatial Statistics with Geographic Info Systems</b>	<b>Required</b>	_____	<input type="checkbox"/>	Advanced Logistic Regression	Elective	_____
<input type="checkbox"/>	<b>Environmental Statistics</b>	<b>Required</b>	_____	<b>GROUP E</b>			
				<input type="checkbox"/>	Bayesian Environmental Statistics	Elective	_____

Be certain to check back at statistics.com for updates to your PASS. Required courses are fixed for each candidate at the time of enrollment in the program.

Updates will not affect your program requirements, but you may wish to take any new courses that are added.