Department of Mathematics & Statistics

17015B Mathematical Sciences – Domains/SLOs:	MAS 5107 Matrix Theory	STA 5326 Math Stat II	MAD 6405 Numerical Analysis	STA 6247 Design	STA 5207 Regression	MAP 6108 Math Modeling	MAA 5404 Analytic Functions	MAP 6106 Operations Research I	STA 6707 Multivariate	MAP 5345 Partial DE	MAT 6930/ STA 6930 Proseminar
Content											
1. Recognize and apply principles of abstract mathematics	X						X				
2. Describe and use principles of computational and applied mathematics			X			X					
3. Recognize and use principles of theoretical and applied statistics		X		X				X	X	X	
4. Identify career options related to training in math and statistics				X	X	X		X			
Critical Thinking											
1. Analyze the essentials of a problem logically and independently	X			X		X	X	X	X		
2. Choose and execute calculation and manipulation strategies that are relevant to mathematics with relatively little guidance	X	X	X		X	X		X			
3. Select and apply appropriate mathematical tools and techniques			X				X	X			
4. Solve mathematical problems	X	X	X	X	X	X	X	X	X	X	X
5. Use information technology appropriately to conduct research	X	X	X	X	X	X	X	X	X	X	X
6. Transfer knowledge from one context to another		X				X		X		X	X
Communication											
1. Write coherent and accurate reports of mathematical processes and problems						X		X			X
2. Deliver oral presentations that explain math concepts or defend mathematical arguments effectively and accurately			X		X	X					X
Integrity/Values											
1. Recognize ethical components in complex situations	X	X						X			
2. Analyze complex ethical situations and design appropriate solutions				X		X		X			X
Project Management											
1. Work toward solutions with persistence and relatively little guidance											X
2. Manage time and resources effectively			X			X					X
3. Collaborate with team members smoothly and effectively			X	X		X			X		
Teaching Skills											
1. Plan and execute math course activities appropriate for secondary and higher education settings											X
2. Manage classroom dynamics to promote student learning											X