

### Program Planner

### Master of Science Plan II – Comprehensive Exam

This checklist is a planning tool. Please consult with your advisor to track academic progress. Students must maintain a minimum 3.0 GPA and enroll in at least 12 units per quarter.

### COURSE REQUIREMENTS – Standard Track – 44 UNITS

#### CORE COURSES – 32 units

Course	Title	Units	Term Taken
STA 135	Multivariate Data Analysis	4 units	_____
STA 200A	Introduction to Probability	4 units	_____
STA 200B	Intro to Mathematical Statistics	4 units	_____
STA 200C	Intro to Mathematical Statistics	4 units	_____
STA 206	Statistical Methods for Research	4 units	_____
STA 207	Statistical Methods for Research	4 units	_____
STA 208	Statistical Methods in Machine Learning	4 units	_____

#### ONE of the following courses:

STA 242	Intro to Statistical Programming	4 units	_____
STA 243	Computational Statistics	4 units	_____

**TOTAL CORE UNITS:** \_\_\_\_\_

*The following courses can be used as substitutes: For students who entered the Statistics MS program as PhD students, successful completion of STA 232A, B, C substitutes for STA 206, 207, 208*

#### ELECTIVE COURSES – 12 units

At least three courses, with at least one course at graduate level, selected from this list:

Course	Title	Units	Term Taken
STA 137	Applied Time Series Analysis	4 units	_____
STA 138	Analysis of Categorical Data	4 units	_____
STA 141B or 220	Data & Web Technologies for Data Analysis	4 units	_____
STA 141C or 221	Big Data & High Perf Stat Computing	4 units	_____
STA 142	Reliability	4 units	_____
STA 144	Sampling Theory of Surveys	4 units	_____
STA 145	Bayesian Statistical Inference	4 units	_____
STA 260	Statistical Practice & Data Analysis	3 units	_____

*or any 4-unit letter-grade graduate level course in Statistics. With the permission of a graduate advisor, an internship coupled with STA 299 can substitute for an elective.*

**TOTAL ELECTIVE UNITS:** \_\_\_\_\_

Report any approved course substitutions to your Program Coordinator for your file.

Updated April 2021

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### COURSE REQUIREMENTS – Data Science Track – 48 UNITS

#### CORE COURSES – 36 units

Course	Title	Units	Term Taken
STA 135	Multivariate Data Analysis	4 units	_____
STA 141A	Fundamentals of Stat Data Science	4 units	_____
STA 200A	Introduction to Probability	4 units	_____
STA 200B	Intro to Mathematical Statistics	4 units	_____
STA 206	Statistical Methods for Research	4 units	_____
STA 207	Statistical Methods for Research	4 units	_____
STA 208	Statistical Methods in Machine Learning	4 units	_____
STA 209	Optimization for Big Data Analytics	4 units	_____
<b>ONE of the following courses:</b>			
STA 242	Intro to Statistical Programming	4 units	_____
STA 243	Computational Statistics	4 units	_____

*The following courses can be used as substitutes: For students who entered the Statistics MS program as PhD students, successful completion of STA 232A, B, C substitutes for STA 206, 207, 208*

**TOTAL CORE UNITS:** \_\_\_\_\_

#### ELECTIVE COURSES – 12 units

At least one course from the following:

Course	Title	Units	Term Taken
STA 137	Applied Time Series Analysis	4 units	_____
STA 138	Analysis of Categorical Data	4 units	_____
STA 141B or 220	Data & Web Technologies for Data Analysis	4 units	_____
STA 141C or 221	Big Data & High Perf Stat Computing	4 units	_____
STA 144	Sampling Theory of Surveys	4 units	_____
STA 145	Bayesian Statistical Inference	4 units	_____
STA 260	Statistical Practice & Data Analysis	3 units	_____

*A third 4-unit elective course taken from Mathematics, Statistics, Computer Science, or related disciplines (with Graduate Advisor approval)*

At least one course from the following:

ECS 122 A or B	Algorithm Design & Analysis	4 units	_____
ECS 165 A or B	Database Systems	4 units	_____
ECS 170	Artificial Intelligence	4 units	_____
ECS 171	Machine Learning	4 units	_____
ECS 289G	Special Topics in Computer Science	4 units	_____

**TOTAL ELECTIVE UNITS:** \_\_\_\_\_

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#### MS Comprehensive Exam

Every M.S. student needs to pass a comprehensive exam, to continue in the program. The M.S. Comprehensive Examination is a written examination. The examination may include the use of statistical software and may be offered in a computer lab. The examination is taken at the end of the Winter quarter (during Spring Break) upon completion of STA 206 and STA 207. If a student does not attempt the examination upon completion of those courses, and does not receive prior approval from the exam committee, it will be counted as not passing the comprehensive exam.

More information can be found on the Statistics website

#### Advancement to Candidacy

Plan II M.S. Candidates must file an [advancement to M.S. candidacy \(Plan II\) form](#) prior to completion of the program. Candidates must have taken at least half of the required coursework for their degree requirements (18 units). Contact your Program Coordinator for details.

#### Typical Programs:

For a well-prepared student it is possible to complete the core course requirements by the end of the first year. Students may take longer if they take required electives in the fourth or fifth quarter.

Typical program:	
<b>Year 1</b>	<b>Year 2</b>
<b>Fall</b>	<b>Fall</b>
STA 206 (4)	Elective (4)
STA 200A (4)	Elective (4)
Elective (4)	Elective or 299 + internship (4)
<b>Winter</b>	
STA 207 (4)	
STA 200B (4)	
STA 135 (4)	
<i>M.S. Comp Exam &amp; Advance to Candidacy</i>	
<b>Spring</b>	
STA 200C (4)	
STA 208 (4)	
STA 242/243 (4)	

Typical program for a student requiring two full years:		<i>Consult with your faculty advisor to develop a plan based on your experience</i>
<b>Year 1</b>	<b>Year 2</b>	
<b>Fall</b>	<b>Fall</b>	
STA 106	STA 206	
STA 131A	STA 200A	
STA 141A/Elective	Elective	
<b>Winter</b>	<b>Winter</b>	
STA 108	STA 207	
STA 135	STA 200B	
STA 131B	Elective	
<b>Spring</b>	<i>M.S. Comp Exam &amp; Advance to Candidacy</i>	
STA 131C	<b>Spring</b>	
Elective	STA 208	
Elective	STA 242/243	
	STA 200C	

Report any approved course substitutions to your Program Coordinator for your file.

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