



## Program Structure

### Doctor of Philosophy Program in Statistics

#### 1. Program Structure

Items	Type 1.1 (Credits)	Type 2.1 (Credits)
1. Course Work	-	12
1.1 Required Courses	-	9
1.2 Elective Courses	-	3
2. Thesis	48	36
3. Required Non-Credits Courses	4	4
<b>Total Credits</b>	<b>48</b>	<b>48</b>

#### 2. Course work

##### 2.1 Type 1.1

<b>(1) Thesis</b>	<b>Total</b>	<b>48</b> Credits
255690 Dissertation 1, Type 1.1		6 Credits
255691 Dissertation 2, Type 1.1		6 Credits
255692 Dissertation 3, Type 1.1		9 Credits
255693 Dissertation 4, Type 1.1		9 Credits
255694 Dissertation 5, Type 1.1		9 Credits
255695 Dissertation 6, Type 1.1		9 Credits
<b>(2) Required non-credit courses</b>	<b>No less than</b>	<b>4</b> Credits
255681 Research Synthesis in Advanced Statistics		1(0-2-1)
255682 Seminar 1		1(0-2-1)
255683 Seminar 2		1(0-2-1)
255684 Seminar 3		1(0-2-1)

## 2.2 Type 2.1

<b>(1) Course work</b>	<b>No less than</b>	<b>12 Credits</b>
(1.1) Required courses	Total	9 Credits

255611	Advanced Probability Theory	3(2-2-5)
255612	Advanced Inferential Statistics	3(2-2-5)
255613	Theory of Linear Models	3(2-2-5)

(1.2) Elective course	No less than	3 Credits
-----------------------	--------------	-----------

Allow students to choose the following courses for no less than 3 credits

255614	Advanced Stochastic Processes	3(2-2-5)
255621	Advanced Sampling Techniques	3(2-2-5)
255622	Advanced Experimental Designs	3(2-2-5)
255623	Response Surface Methodology	3(2-2-5)
255624	Spatial Statistics	3(2-2-5)
255631	Multivariate Analysis Techniques	3(2-2-5)
255632	Advanced Categorical Data Analysis	3(2-2-5)
255633	Bayesian Statistical Inference	3(2-2-5)
255635	Decision Theory	3(2-2-5)
255641	Time Series Analysis and Forecasting	3(2-2-5)
255651	Simulation and Monte Carlo Methods	3(2-2-5)
255652	Advanced Statistical Learning	3(2-2-5)
255653	Advanced Big Data Analytics	3(2-2-5)
255661	Medical Statistics	3(2-2-5)
255662	Survival Analysis Techniques	3(2-2-5)
255671	Special Problems in Advanced Statistics	3(2-2-5)

<b>(2)</b>	<b>Thesis</b>		<b>Total</b>	<b>36</b>	Credits
	255790	Dissertation 1, Type 2.1		3	Credits
	255791	Dissertation 2, Type 2.1		6	Credits
	255792	Dissertation 3, Type 2.1		9	Credits
	255793	Dissertation 4, Type 2.1		9	Credits
	255794	Dissertation 5, Type 2.1		9	Credits
<b>(3)</b>	<b>Required non-credit courses</b>		<b>No less than</b>	<b>4</b>	Credits
	255681	Research Synthesis in Advanced Statistics		1(0-2-1)	
	255682	Seminar 1		1(0-2-1)	
	255683	Seminar 2		1(0-2-1)	
	255684	Seminar 3		1(0-2-1)	

Students may be considered to register for more extra courses, this will be considered and approved by thesis supervisor or by committee team of Doctor of Philosophy Program in Statistics

### 3. Study plan

#### 3.1 Type 1.1

##### First year

##### First semester

255690	Dissertation 1, Type 1.1	6 Credits
255681	Research Synthesis in Advanced Statistics (Non-credit)	1(0-2-1)
	Total	6 Credits

##### First year

##### Second semester

255691	Dissertation 2, Type 1.1	6 Credits
255682	Seminar 1 (Non-credit)	1(0-2-1)
	Total	6 Credits

##### Second year

##### First semester

255692	Dissertation 3, Type 1.1	9 Credits
255683	Seminar 2 (Non-credit)	1(0-2-1)
	Total	9 Credits

##### Second year

##### Second semester

255693	Dissertation 4, Type 1.1	9 Credits
255684	Seminar 3 (Non-credit)	1(0-2-1)
	Total	9 Credits

**Third year**

**First semester**

255694	Dissertation 5, Type 1.1	9 Credits
	Total	9 Credits

**Third year**

**Second semester**

255695	Dissertation 6, Type 1.1	9 Credits
	Total	9 Credits

**3.2 Type 2.1**

**First year**

**First semester**

255611	Advanced Probability Theory	3(2-2-5)
255613	Theory of Linear Models	3(2-2-5)
255681	Research Synthesis in Advanced Statistics (Non-credit)	1(0-2-1)
	Total	6 Credits

**First year**

**Second semester**

255612	Advanced Inferential Statistics	3(2-2-5)
2556xx	Elective Course	3(x-x-x)
255682	Seminar 1 (Non-credit)	1(0-2-1)
255790	Dissertation 1, Type 2.1	3 Credits
	Total	9 Credits

**Second year**

**First semester**

255683	Seminar 2 (Non-credit)		1(0-2-1)
255791	Dissertation 2, Type 2.1		6 Credits
		Total	6 Credits

**Second year**

**Second semester**

255684	Seminar 3 (Non-credit)		1(0-2-1)
255792	Dissertation 3, Type 2.1		9 Credits
		Total	9 Credits

**Third year**

**First semester**

255793	Dissertation 4, Type 2.1		9 Credits
		Total	9 Credits

**Third year**

**Second semester**

255794	Dissertation 5, Type 2.1		9 Credits
		Total	9 Credits