Degree and Study Plan

College: Science
Department: Statistics
Cohort: 2018-2020
Degree: Bachelor of Science
Major: Statistics
Specialization: -

Summary of Credits:	
University Requirements (UR)	**6**
Foundation Program	NC[+]
Arabic	2
State and People	2
Oman & Islamic Civilization or Islamic Culture	2
University Electives (UE)	**6**
See List A	
College Requirements (CR)	**3**
See list B	
College Electives (CE)	**16**
See list C	
Departmental Requirements (DR)	**16**
See list D	
Departmental Electives (DE)	**9**
See list E	
Major Requirements (AR)	**39**
See list F	
Major Electives (AE)	**27**
See list G	
Specialization Requirements (SR)	
See list H	
Specialization Electives (SE)	
See list I	
Minor Requirements (IR)	
See list J	[++]
Minor Electives (IE)	
See list K	
TOTAL	**122**

[+] Not credited.

[++] Minor is optional: total credits to earn a Minor are 18, with no more than 8 credits counting towards the Major degree may count towards a Minor.

For reference contact Dr. **:** Moh'd Alodat   Ext. 1433

HoD: Dr. **:** Moh'd Alodat   Date: May 29, 2023

Dean's Office: Dr. Talal Al Hosni   Date: 26/6/2023

Admission and Registration: Date:

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Department of Statistics Degree Plan for
Cohort 2018-2020

Categories	CR
University Requirements (UR)	6
University Electives (UE)	6
College Requirement (CR)	3
College Electives (CE)	16
Departmental Requirements (DR)	16
Departmental Electives (DE)	9
Major Requirements (AR)	39
Major Electives (AE)	27
TOTAL	**122**

	Course Code	Course Title	Cr.	Pre-Requisite/Co-Requisite*	Cat.
Semester 1 Fall	ARAB1060	Arabic	2		UR
	SOCY1005	State and People	2		UR
	LANC2058	Communication in Science	3	FPEL0560 or FPEL0600 or FPEL0601 or FPEL0602 or FPEL0603 or FPEL0604	CR
	MATH2107	Calculus 1	4	FPEL0560 or FPEL0600 or FPEL0601 or FPEL0602 or FPEL0603 or FPEL0604 and (FPMT0105 or FPMT0108 or FPMT0109)	CE
	STAT2101	Introduction to Statistics	4	FPEL0560 or FPEL0600 or FPEL0601 or FPEL0602 or FPEL0603 or FPEL0604 and (FPMT0105 or FPMT0108 or FPMT0109)	CE
	Total		15		

	Course Code	Course Title	Cr.	Pre-Requisite/Co-Requisite*	Cat.
Semester 2 Spring	HIST1010 or ISLAM1010	Oman & Islamic Civilization or Islamic Culture	2		UR
	COMP2101	Introduction to Computer Science	4	FPEL0560 or FPEL0600 or FPEL0601 or FPEL0602 or FPEL0603 or FPEL0604 and (FPCS0101 or FPCS0102)	CE
	MATH2108	Calculus II	3	MATH2107	DR
	MATH2350	Foundations of Mathematics	3	MATH2107	DR
	STAT2102	Introduction to Probability	3	STAT2101, MATH2108*	DR
	Total		15		

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	Course Code	Course Title	Cr.	Pre-Requisite/Co-Requisite*	Cat.
Semester 3 Fall	MATH2202	Linear Algebra I	3	FPMT0105/0108/0109&FPEL 0601 /0602/0603	DR
	COMP2202	Fundamentals of Object Oriented Programming	3	COMP2101	AR
	STAT3334	Introduction to Inference	3	STAT2102 & LANC2058	AR
		College Elective	4		CE
		University Elective	2		UE
		Total	**15**		

Semester 4 Spring	MATH3110	Calculus III	4	MATH2108 & LANC2058	DR
	STAT3335	Introduction to Sampling	3	STAT2102 and LANC2058	AR
	STAT3338	Statistical Methods	3	STAT3334 & LANC2058	AR
	STAT3336	Computational Techniques in Statistics	3	STAT2102, COMP2202 & LANC2058	AR
		Major Elective	3		AE
		Total	**16**		

Semester 5 Fall	STAT4432	Regression Analysis	3	MATH2202, STAT3334	AR
	STAT4433	Design and Analysis of Experiments I	3	STAT3338	AR
		Departmental Elective	3		DE
		Major Elective	3		AE
		Major Elective	3		AE
		Total	**15**		

Semester 6 Spring	STAT4434	Non-Parametric Statistics	3	STAT3334	AR
		Departmental Elective	3		DE
		Major Elective	3		AE
		Major Elective	3		AE
		University Electives (2)	4		UE
		Total	**16**		

Semester 7 Fall	STAT5521	Categorical Data Analysis	3	STAT3338	AR
	STAT5537	Multivariate Techniques	3	STAT3334, MATH2202, MATH3110	AR
	STAT5501	Project in Statistics I	2	STAT 4432, STAT 4433	AR
		Departmental Elective	3		DE
		Major Elective	3		AE
		Total	**14**		

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	Course Code	Course Title	Cr.	Pre-Requisite/Co-Requisite*	Cat.
Semester 8 Spring	STAT5536	Time Series Analysis	**3**	STAT 4432	AR
	STAT5502	Project in Statistics II	**4**	STAT 4432, STAT4433	AR
		Major Elective	**3**		AE
		Major Elective	**3**		AE
		Major Elective	**3**		AE
	Total		**16**		

Department of Statistics – Statistics Degree Plan: Cohort   2018-2020
UNIVERSITY REQUIREMENTS (UR) (6 CREDITS)

Course code	Course Title	Cr	Prerequisites /Co-Requisite*
ARAB1060	Arabic	2	
HIST1010 or ISLM1010	Oman & Islamic Civilization or Islamic Culture	2	
SOCY1005	State and People	2	

LIST A: UNIVERSITY ELECTIVES (UE) (6 Credits)

See SQU Deanship of Admission and Registration website for the list of University Electives
https://sis.squ.edu.om/sis/webreg/3s/electiveTimeTable.jsp

LIST B: COLLEGE REQUIREMENTS (CR) (3 Credits)

Course Code	Course Title	Credits	Pre-Requisite / Co-Req. *
LANC2058[†]	Communication in Science	**3**	FPEL0560 or FPEL0600 or FPEL0601 or FPEL0602 or FPEL0603 or FPEL0604

[†]LANC2058 is a pre-requisite for all 3000-level College of Science courses.

LIST C: COLLEGE ELECTIVES (CE) (16 Credits)

Course Code	Course Title	Credits	Pre-Requisite / Co-Req. *
BIOL2101	General Biology I	4	FPEL0560 or FPEL0600 or FPEL601 or FPEL602 or FPEL0603 or FPEL0604
CHEM2101	General Chemistry I	4	FPEL0560 or FPEL0600 or FPEL601 or FPEL602 or FPEL0603 or FPEL0604 and (FPMT0105 or FPMT0108 or FPMT0109)
COMP2101[++]	Introduction to Computer Science	4	FPEL0560 or FPEL0600 or FPEL601 or FPEL602 or FPEL0603 or FPEL0604 and (FPCS0101/FPCS0102)
ERSC2101	Introduction to Geology I	4	FPEL0560 or FPEL0600 or FPEL601 or FPEL602 or FPEL0603 or FPEL0604

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Course Code	Course Title	Credits	Pre-Requisite / Co-req.
MATH2107[+]	Calculus I	4	FPEL0560 or FPEL0600 or FPEL601 or FPEL602 or FPEL0603 or FPEL0604 and (FPMT0105 or FPMT0108 or FPMT0109)
PHYS2101	General Physics I	4	FPEL0560 or FPEL0600 or FPEL601 or FPEL602 or FPEL0603 or FPEL0604 and (FPMT0105 or FPMT0108 or FPMT0109)
STAT2101[+]	Introduction to Statistics	4	FPEL0560 or FPEL0600 or FPEL601 or FPEL602 or FPEL0603 or FPEL0604 and (FPMT0105 or FPMT0108 or FPMT0109)

[+]MATH2107 and STAT2101 are important pre-requisite courses for Statistics departmental requirements. [++]COMP2101 is a required course for Statistics degrees. Credits taken in excess of 16 can be counted as Major Electives (List G)

LIST D: DEPARTMENTAL REQUIREMENTS (DR) (16 Credits)

Course Code	Course Title	Credits	Pre-Requisite / Co-req. *
MATH2108	Calculus II	3	MATH2107
MATH2202	Linear Algebra I	3	FPEL0560 or FPEL0600 or FPEL0603 or FPEL0604 and FPMT0105 or FPMT0108 or FPMT0109
MATH2350	Foundations of Mathematics	3	MATH2107
MATH3110	Calculus III	4	MATH2108 & LANC2058
STAT2102	Introduction to Probability	3	STAT2101 MATH2108*

LIST E: DEPARTMENTAL ELECTIVES (DE) (9 Credits)

Course Code	Course Title	Credits	Pre-Requisite / Co-req. *
STAT3331	Operations Research I	3	MATH2108 & STAT2101 & LANC2058
STAT3337	Introduction to Actuarial Science I	3	STAT2102 & LANC2058
STAT4422	Demographic and Health Care Statistics	3	STAT3334
STAT4436	Survey Design	3	STAT3335
STAT4533	Quality Assurance and Reliability	3	STAT2102
STAT4534	Simulation	3	STAT3336
	Total	9	

Credits taken in excess of 9 can be counted as Major Electives (List G)

LIST F: MAJOR REQUIREMENTS (AR) (39 Credits)

Course Code	Course Title	Credits	Pre-Requisite / Co-req. *
COMP2202	Fundamentals of Object Oriented Programming	3	COMP2101
STAT3334	Introduction to Inference	3	STAT2102& LANC2058
STAT3335	Introduction to Sampling	3	STA2102& LANC2058

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STAT3336	Computational Techniques	3	STAT2102+ COMP2202 & LANC2058
STAT3338	Statistical Methods	3	STAT3334& LANC2058
STAT4432	Regression Analysis	3	MATH2202+ STAT3334
STAT4433	Design and Analysis of Experiments I	3	STAT3338
STAT4434	Non-parametric Statistics	3	STAT3334
STAT5521	Categorical Data Analysis	3	STAT3338
STAT5536	Time Series Analysis	3	STAT4432
STAT5537	Multivariate Techniques	3	MATH2202+ MATH3110+ STAT3334
STAT5501	Project in Statistics I	2	STAT 4432, STAT 4433
STAT5502	Project in Statistics II	4	STAT 4432, STAT 4433
Total		**39**	

LIST G. MAJOR ELECTIVES (AR) (27 Credits)

"All College of Science courses not used for required courses (Lists A, B, C, D, E, F, G, H, I, J, and K) can be taken as major electives".
Refer to the Major Electives page on the College Website:
https://www.squ.edu.om/science/Academic-Programs/Undergraduate-Programs/Major-Electives

MINORS AVAILABLE TO Statistics MAJORS

LISTS J and K: MINOR REQUIREMENTS and ELECTIVES (18 Credits)

Refer to the Minor list on the College Website to see the available minors and their requirements:
https://www.squ.edu.om/science/Academic-Programs/Undergraduate-Programs

* Students are required to complete 18 Credits in the minor courses to qualify for a minor.
* Courses counting towards an approved Minor may substitute courses listed as Major Electives (List G) but no more than 8 credits counting towards the Major degree (lists C, D, E, F) may count towards a Minor.
* Students should take a minor different than their major.

For reference contact: Dr. Moh'd AlOdat   Ext. 1433

Approved by Dean of Science: Date: 26/6/2023

Office of Admissions & Registration:

Confirmed:

Last updated 14/2/2019