

## NEW STATISTICS (STAT) BS PROGRAM\_2022

1st YEAR								
Semester 1	Prerequisite	ECTS Credits	Credits		Semester 2	Prerequisite	ECTS Credits	Credits
STAT 101 Intro to Statistics and Data Science I		8	(3-2)4		STAT 102 Intro to Statistics and Data Science II	STAT 101	8	(3-2)4
MATH 119		8	(4-2)5		MATH 120	MATH 119	8	(4-2)5
ENG 101		6	(4-0)4		ENG 102	ENG 101	6	(4-0)4
CEIT 101		4	(2-2)3		CENG 240		6	(2-2)3
STAT 112 Int. to Data Processing and Visualization		5	(3-2)4		BA 100		2	NC
					IS 100		3	NC
<b>TOTAL:</b>		<b>31</b>	<b>20</b>		<b>TOTAL:</b>		<b>33</b>	<b>16</b>

2nd YEAR								
Semester 3	Prerequisite	ECTS Credits	Credits		Semester 4	Prerequisite	ECTS Credits	Credits
STAT 203		8	(3-2)4		STAT 204	STAT 203, MATH 119	8	(3-2)4
STAT 291 Statistical Programming	CENG 230 or CENG240, STAT 102 or STAT 156	8	(3-2)4		STAT 295 Object Oriented Programming	CENG 240	8	(3-2)4
MATH 219	MATH 120	6	(4-0)4		STAT 250	STAT 102	6	(4-2)5
MATH 260		6	(3-0)3		MATH 250	MATH 120	6	(4-2)5
HIST 2201		3	NC		ENG 211	ENG 101 - ENG 102	5	(3-0)3
NDE		5	(3-0)3		HIST 2202	HIST 2201	3	NC
<b>TOTAL:</b>		<b>36</b>	<b>18</b>		<b>TOTAL:</b>		<b>36</b>	<b>21</b>

3rd YEAR								
Semester 5	Prerequisite	ECTS Credits	Credits		Semester 6	Prerequisite	ECTS Credits	Credits
STAT 363	MATH 260, STAT 102 or STAT 156	8	(3-2)4		STAT 364	STAT 363	8	(3-2)4
STAT 365	STAT 102 or STAT 156 or CD	8	(4-2)5		STAT 376	STAT 204, MATH 260	8	(4-2)5
STAT 303	STAT 204- MATH 120	8	(3-2)4		STAT 304	STAT 303	8	(3-2)4
STAT 311	STAT 291	5	(3-2)4		STAT 361	STAT 291	6	(3-2)4

Modern Database Systems							
TURK 303		3	NC	STAT 333 Data Structures and Algorithms	STAT 295	5	(3-2)4
				TURK 304		3	NC
<b>TOTAL:</b>		<b>32</b>	<b>17</b>	<b>TOTAL:</b>		<b>38</b>	<b>21</b>

**4th YEAR**

Semester 7	Prerequisite	ECTS Credits	Credits	Semester 8	Prerequisite	ECTS Credits	Credits
STAT 457	STAT 363 or CD	8	(3-2)4	STAT 433 Statistical Machine Learning	STAT 411	8	(3-2)4
STAT 467	MATH 260, STAT 102 or STAT 156	8	(4-2)5	STAT 401 Int. to. Big Data	STAT 291, STAT 311	8	(3-2)4
DE		8	(3-0)3	DE		8	(3-0)3
STAT 411 Statistical Data Mining	STAT 363, STAT 291	6	(3-2)4				
DE		8	(3-0)3				
<b>TOTAL:</b>		<b>38</b>	<b>19</b>	<b>TOTAL:</b>		<b>24</b>	<b>11</b>

**TOTAL CREDITS: 143**

**TOTAL ECTS CREDITS: 268**