

Requirements for the B.Sc. degree in "Statistics & Operations Research"

| Course # | Course Name | Course # | Course Name | |
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| | 1. University Requirements (24 Credits) | | | |
| | A. Compulsory (15 Credits) | | | |
| 101 | Arabic Language | 3 | | |
| 102 | History of Arabic and Islamic Civilization | 3 | | |
| 161 | English I ¹ | 3 | | |
| 162 | English II | 3 | | |
| | History of Kuwait ¹ | 3 | | |
| | B. Elective (9 Credits)² | | | |
| | The student selects 3 courses from | | | |
| 163 | English III | 3 | | |
| 173 | English | 3 | | |
| 103 | Government & Politics of Kuwait | 3 | | |
| 101 | Introduction to Sociology | 3 | | |
| | 101 Principles of Statistics¹ | 3 | | |
| 103 | Principles of Philosophy | 3 | | |
| 101 | Introduction to Psychology | 3 | | |
| 102 | Home Economics | 3 | | |
| 110 | Principals of Management for non-add Science | 3 | | |
| 101 | Philosophy of Science | 3 | | |
| 104 | Palestinian Problem | 3 | | |
| 101 | Scientific Research | 3 | | |
| 102 | Islamic Culture | 3 | | |
| 101 | Geography of Man & Environment | 3 | | |
| 173 | Man Anthropology | 3 | | |
| 106 | Programming ¹ | 3 | | |
| 190 | C. Arabic Language (For foreigners only) ³ | 9 | | |
| | 2. College Requirements (12 Credits) | | | |
| 101 | Calculus I ¹ | 3 | | |
| 102 | Calculus II | 3 | | |
| 111 | Linear Algebra | 3 | | |
| 211 | Calculus III | 3 | | |
| | 3. Department Requirements (60 Credits) | | | |
| | A. Compulsory (48 Credits) | | | |
| | 210 Introduction to Probability | 3 | | |
| | 240 Statistical Methods | 3 | | |
| | 250 Operations Research I | 3 | | |
| | 260 Statistical Computing I | 3 | | |
| | 310 Stochastic Processes I | 3 | | |
| | 321 Theory of Statistics I | 3 | | |
| | 341 Regression Analysis | 3 | | |
| | | | 342 Time Series and Forecasting | 3 |
| | | | 350 Operations Research II | 3 |
| | | | 351 Simulation I | 3 |
| | | | 421 Theory of Statistics II | 3 |
| | | | 441 Experimental Design | 3 |
| | | | 453 Linear Programming | 3 |
| | | | 456 Optimization | 3 |
| | | | 460 Case Studies in Operation Research | 3 |
| | | | 498 Research Project in OR | 3 |
| | | | B. Elective (12 Credits) | |
| | | | The student selects 6-9 credits from "Group I" and 3-6 credits from "Group II" for a total of 12 credits | |
| | | | Group I | |
| | | | 331 Quality Control | 3 |
| | | | 411 Decision Analysis | 3 |
| | | | 450 Queuing Systems | 3 |
| | | | 451 Networks | 3 |
| | | | 452 Reliability | 3 |
| | | | 454 Scheduling | 3 |
| | | | Group II | |
| | | | 340 Non-Parametric Methods | 3 |
| | | | 343 Survey Sampling | 3 |
| | | | 344 Survival Analysis | 3 |
| | | | 423 Multivariate Analysis | 3 |
| | | | 430 Econometrics | 3 |
| | | | 4. The Minor (24 Credits) | |
| | | | The student chooses a minor given in the university upon the approval of the department. | |
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| | | | 5. Free Elective (6 Credits) | |
| | | | Selected from any course in the university | |
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| | | | Total credits needed 126 credits | |

¹ Compulsory

² Any 100 level course from the Faculty of Science (other than the college requirements) can be considered in this group.

³ The student taking this course will be exempted from some University requirements taught in Arabic up to 9 credit hours.

Note: Math 115, Stat 102, Stat 201, Stat 202 and Stat 203 are not counted for Statistics & O.R. students.