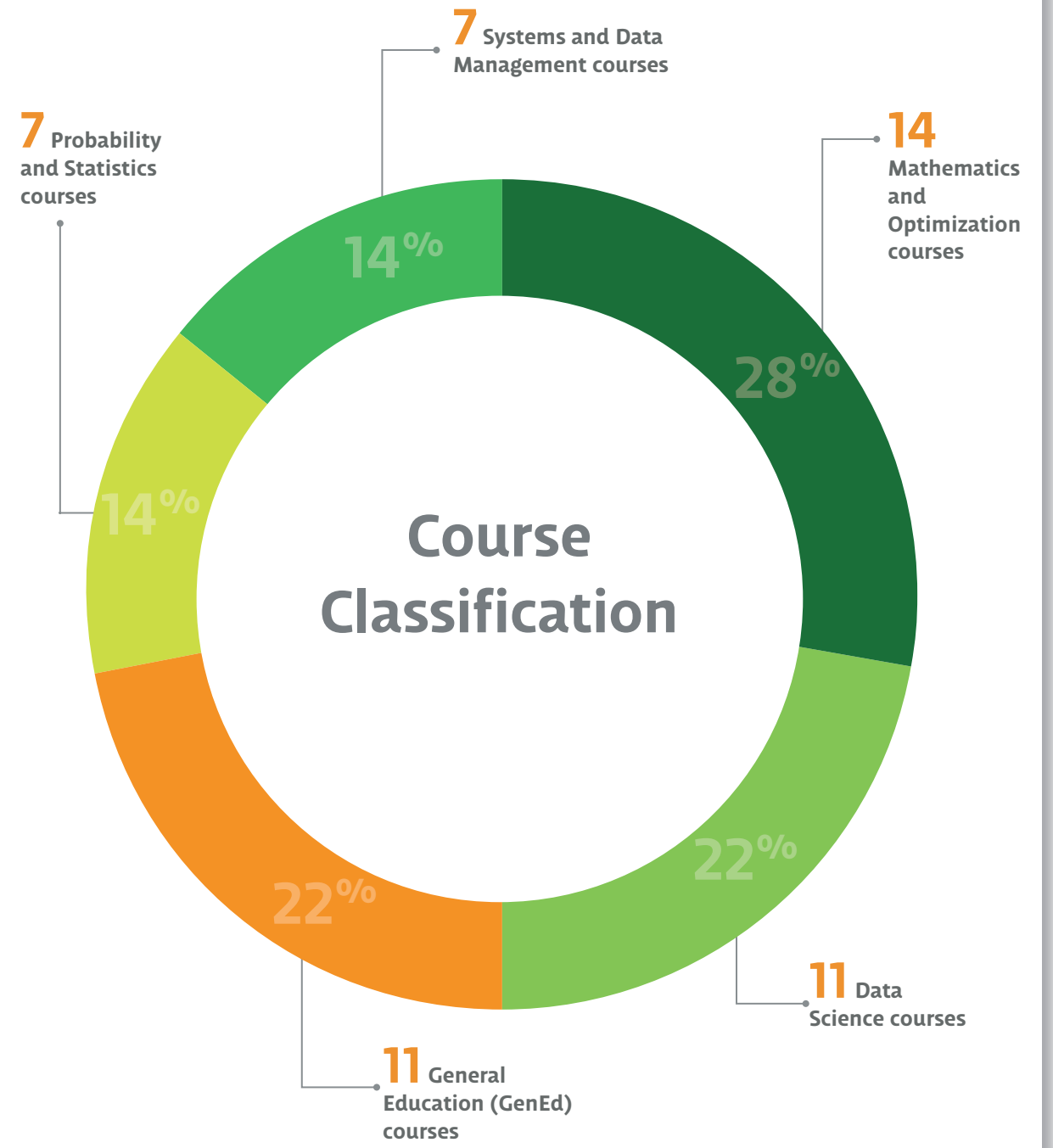# Bachelor of Data Science

Universidad de las Américas Puebla
8 terms - 50 courses - 300 credits (units)

UDLAP®

First	Second	Third	Fourth	Fifth	Sixth	Seventh	Eighth
MAT1012 UNIVERSITY MATH [6]	**MAT1062** SUPERIOR ALGEBRA [6] < MAT1012	**LAT2012** STOCHASTIC MODELS I [6]	**LAT2062** STOCHASTIC MODELS II [6] < LAT2012	**LAT3022** STOCHASTIC MODELS III [6] < LAT2062	**LII2042** OPTIMIZATION THEORY AND TECHNIQUES [6]	**LDS1061** SELECT TOPICS 1 [6]	**LAT4052** ADVANCED OPTIMIZATION [6] < LII2042
LIS1012 ALGORITHMS AND PROGRAMMING [6]	**MAT1042** ANALYTIC GEOMETRY [6]	**LAT2022** MATRIX THEORY [6]	**MAT2042** MATHEMATICAL ANALYSIS I [6] < MAT2042	**MAT3012** MATHEMATICAL ANALYSIS II [6] < MAT2042	**LDS1041** TOPOLOGICAL DATA ANALYSIS [6] < MAT3012	**LDS1071** MACHINE LEARNING [6]	**LDS1111** SELECT TOPICS 2 [6]
	MAT1022 CALCULUS I [6] < MAT1012	**MAT2012** CALCULUS II [6] < MAT1022	**MAT2052** ORDINARY DIFFERENTIAL EQUATIONS [6] < MAT1022	**LAT3012** INFERENCE METHODS I [6] < LAT2012	**LAT3062** INFERENCE METHODS II [6] < LAT3012	**LDS1081** NEURAL NETWORKS [6]	**LDS1121** SELECT TOPICS 3 [6]
	LIS1022 OBJECT ORIENTED PROGRAMMING [6] < LIS1012	**LIS2032** DATA STRUCTURES [6] < LIS1022	**LIS2082** DATABASES [6]	**LFA3082** NUMERICAL ANALYSIS [6]	**LDS1051** PATTERN RECOGNITION [6]	**LDS1091** PROFESSIONAL PRACTICES 2 [6]	**LIS4102** CLOUD COMPUTING AND BIG DATA [6]
GENERAL STUDIES ELECTIVE IN ARTS [6]		**LDS1011** DISCRETE ANALYSIS [6]	**LIS2012** DISCRETE MATH [6]	**LDS1031** PROFESSIONAL PRACTICES 1 [6]	**LIS3082** ARTIFICIAL INTELLIGENCE [6]	**LDS1101** CONCURRENT COMPUTING [6]	**LDS1131** DATA VISUALIZATION [6]
GENERAL STUDIES ELECTIVE IN MATH [6]	**GENERAL STUDIES ELECTIVE IN BEHAVIORAL SCIENCES** [6]			**LDS1021** DATAMINING [6]	**LEC3092** ECONOMETRICS I [6] < LAT3012	**LEC4032** ECONOMETRICS II [6] < LEC3092	
INF0012 INFORMATION TECHNOLOGIES IN THE CONSTRUCTION OF KNOWLEDGE [6]	**ESP0012** ACADEMIC REASONING [6] < INF0012	**ESP0022** ACADEMIC WRITING [6] < ESP0012	**GENERAL STUDIES ELECTIVE IN HUMANITIES** [6]				
LEX0112 FOREIGN LANGUAGE I [6]	**LEX0122** FOREIGN LANGUAGE II [6] < LEX0112	**LEX0132** FOREIGN LANGUAGE III [6] < LEX0122	**GENERAL STUDIES ELECTIVE IN NATURAL SCIENCES** [6]				

[6] Course credits (units)
< Prerequisites

Bachelor of Data Science

Course Classification

- **14** Mathematics and Optimization courses — 28%
- **11** Data Science courses — 22%
- **7** Probability and Statistics courses — 14%
- **7** Systems and Data Management courses — 14%
- **11** General Education (GenEd) courses — 22%

Legend:
- Mathematics and Optimization
- Data Science
- Probability and Statistics
- Systems and Data Management
- General Education (GenEd)