

# Curriculum Map

Bachelor's Program

1st Year		2nd Year		3rd and 4th Year	
<b>Social Data Science</b>					
Introduction to the SDS 1, 2		Ethics and Legal Issues on SDS		PBL Research	
				Seminar	
<b>Social Science</b>					
<b>Business Administration and Economics</b>					
Introduction to - Business Management - Marketing - Accounting - Finance - Economics		Data Science and - Business Administration Strategy - Marketing - Finance - Micro Economics - Macro Economics		Analyzing business innovation - Data-driven Decision-making in Business Management - Technology Management - Marketing Science - Advanced Information System - Spatial and Realty Data Analysis - Financial Market Data Analysis	
<b>Law, Political Science and other social sciences</b>					
Introduction to - Law - Social Science - History		Data Science and - Administrative Law - Political Science - Psychology - International Politics		Solving social issues - Evidence-based Science and Technology Policy - Long-term Economic Statistics and Data Analysis on Japanese Economy - Quantitative Research Methods in Political Science - Medical Data Analysis - Data Analysis for Sustainable Development	
<b>Data Science</b>					
<b>Statistics</b>					
Linear Algebra 1, 2    Calculus 1, 2 Basic Statistics		Regression Analysis 1, 2    Mathematical Statistics Causal Inference                  Public Statistics		Multivariate Analysis                  Qualitative Data Analysis Nonparametric Analysis              Time-series Analysis	
<b>Information Science</b>					
Introduction to AI Computer Literacy		Practical Machine Learning 1, 2 Artificial Intelligence Bayesian Statistics 1		Cognitive Science                  Bayesian Statistics 2 Machine Learning Theory        Information and Cyber Security Natural Language Processing      Image Processing	
<b>Information Technology</b>					
Computer Programming Basics		Programming 1, 2    Data handling Algorithms              Data Visualization Database		Applied Artificial Intelligence	