

MASTER OF DATA SCIENCE IN ECONOMICS

**Singapore's first and only master's programme
blending Data Science and Economics**

— designed to meet the growing demand for data
scientists with advanced training and domain
knowledge in economics



PROGRAMME INFORMATION

Designed for both working professionals and fresh graduates, SMU's MDSE programme stands out for its unique curriculum, strong industry relevance, and emphasis on hands-on learning.

- Master the skills needed to import, wrangle, visualize, and model large-scale economic data
- Enhance your economic analysis with the combined power of AI, ML, and econometric tools

- Learn how to distinguish between explanatory and predictive models — and when to use each
- Develop the ability to effectively communicate your results to project stakeholders
- Gain proficiency in the most in-demand programming languages for data science
- Flexible study options:

Full-time	18 Months (with option to complete in 12 months)
Part-time	30 Months (with option to complete in 24 months)

The part-time mode of study of the MDSE programme is open to Singaporeans, Singapore Permanent Residents (PRs), and foreigners with a valid Employment or Dependant's Pass. International students will require student visas and are eligible only for the full-time mode of study. SMU will assist in the application of student passes for all full-time international students coming to SMU.

ADMISSION REQUIREMENTS

- A good undergraduate degree
- A good GMAT, GRE, or SMU Admission Test score
- A valid TOEFL or IELTS score if the medium of instruction for undergraduate studies was not English
- A personal statement and updated résumé
- Contact details of two referees
- Interviews may be required for shortlisted candidates

APPLICATION WINDOW

The Programme accepts applications on a rolling basis. Application opens from October to June (for August intake) and from June to November (for January intake)



1st IN ASIA
TOP 10 WORLDWIDE
in Econometric Research

Apply
now:



Join our
events:



<https://economics.smu.edu.sg>
mdse@smu.edu.sg

**SCHOOL OF
ECONOMICS**

CURRICULUM STRUCTURE

The MDSE programme offers a 15-CU curriculum that equips students with advanced, up-to-date knowledge and skills in Data Science for Economics.

Foundation (2 CUs)	Core (6 CUs)
<ul style="list-style-type: none"> • Probability for Data Science • Statistical Learning 	<ul style="list-style-type: none"> • Applied Causal Inference • Data Analytics for Economics • Databases for Economics • Machine Learning in Economics and Finance • Statistics for Data Science • Time Series Econometrics
Elective (3CUs)	Open (3 CUs)
<ul style="list-style-type: none"> • Advanced Machine Learning for Economics • Big Data Analytics for Economics • Cloud Computing for Economics • Complex Networks • High Frequency Trading • Multimodal Data Analytics for Economics • Panel Econometrics and Data Analysis • Spatial Econometrics and Data Analysis • Tech Economics • Topics in Data Science for Economics 	<ul style="list-style-type: none"> • 10-20 week internship (1–2 CUs) • Capstone project (1 CU) • Up to three pre-approved electives from other SMU Master's programmes
	Postgraduate Professional Development course (1 CU)
	<p>Select 4 workshop topics during your study period. Visit https://site.smu.edu.sg/smu-masters-pgpd for more details.</p>

The curriculum and courses are accurate at the time of publishing but are subject to change. Please refer to the MDSE website for the latest information.

GAIN HANDS-ON EXPERIENCE WITH



INDUSTRIES MDSE STUDENTS CAN WORK IN



Financial Services



Government



Technology



Healthcare



Consulting



Telecommunications

FEES & DISCOUNTS

Application	S\$100 (inclusive of GST)
Registration	S\$400 for Singaporeans and PRs
	S\$500 for International Applicants (inclusive of GST) Payable upon acceptance
Tuition	Refer to MDSE website

All fees are non-refundable and non-transferable. A deposit of S\$5,000 would be required upon acceptance of the offer into the programme. The remaining tuition fees would be billed thrice over the duration of the programme. The fees are due and payable within 30 days of the billing. The tuition fee does not include meals, air travel, travel insurance, living and accommodation expenses incurred for the overseas exchange. Singapore Management University reserves the right to alter tuition and other fees as deemed appropriate.

Starting January 2025, save up to 40% on tuition fees* in celebration of SMU's 25th anniversary. GST will still apply to the reduced tuition fee. Find out more at smu.sg/gacn (*T&Cs apply).

SCHOLARSHIPS & FINANCIAL ASSISTANCE

- MDSE Merit Scholarship
- MDSE Diversity Scholarship
- MDSE Industry Distinction Scholarship
- MDSE Women in Leadership Scholarship
- MDSE DSA Distinguished Alumni Scholarship
- SMU Masters ASEAN PG Scholarship (for ASEAN students only)

DISCOUNTS & SUBSIDIES

- SMU Alumni Discount
- SGP/SPR Discounts
- PGPP Corporate Discount
- Partner University Discount
- SkillsFuture Credit Scheme



Singapore Management University
 School of Economics
 Postgraduate Admissions
 90 Stamford Road, Singapore 178903

