

Feasibility of a Language Intelligence Major

at a Science and Technology University: A Case Study from China

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INTRODUCTION

In China, demand is growing for professionals who combine linguistic expertise with computational skills. Yet traditional language programs at science and technology universities often lack such integration.

Objective: Explore feasibility of Language Intelligence major integrating linguistics, AI engineering, domain applications.

METHODS

Method	Data Source	Analytical Focus
Policy Analysis	6 nat. policy docs (2018-2025)	AI-edu integration
Market Demand	2024 industry reports	NLP role growth, skill shortages
Case Study	HEU English AI Pilot Program	curriculum, expert & student feedback

✓ **Policy context (real data):** 2020 targets: core AI >¥150B; translation accuracy >85%; speech recognition >96%; "AI+X" model.

KEYWORDS: Language Intelligence major | Science and Technology University | Curriculum design | China

RESULTS

📌 Finding 1: Policy Support vs. Gaps

✓ Policy advocates "AI+X" ✗ Lacks math, programming, computational linguistics

📈 Finding 2: Market Demand

- NLP positions #1 in AI role growth (2024)
- Severe hybrid-skill shortages

🏠 Finding 3: HEU Case Program

- Compresses traditional courses + adds math/programming + specialized courses (Corpus, NLP fundamentals)
- Tripartite curriculum: Linguistic Theory | AI Engineering | Domain Knowledge

"Precisely positioned at the interdisciplinary frontier — a model that bridges humanities and engineering."

— External Expert Evaluation Panel

"Data mining and language intelligence training build core competencies."

— Student Feedback

CONCLUSIONS

✓ **Language Intelligence major is promising.**

Proposed model – Tripartite curriculum:

- Linguistic theory & cognitive modeling
- AI engineering (foundational methods, algorithms)
- Domain knowledge (terminology, localization, ethics)

Limitations: Pilot program operated only one year; exploratory. Longitudinal research needed.