

## COURSE DETAIL

### SPECIAL TOPICS IN DATA SCIENCE: PROMPT ENGINEERING: ART AND SCIENCE FOR INTERACTIONS WITH LARGE LANGUAGE MODEL (LLM)

**Country**

Korea, South

**Host Institution**

Seoul National University

**Program(s)**

Seoul National University

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Computer Science

**UCEAP Course Number**

161

**UCEAP Course Suffix****UCEAP Official Title**

SPECIAL TOPICS IN DATA SCIENCE: PROMPT ENGINEERING: ART AND SCIENCE FOR INTERACTIONS WITH LARGE LANGUAGE MODEL (LLM)

**UCEAP Transcript Title**

PROMPT ENGINEERING

**UCEAP Quarter Units**

4.50

**UCEAP Semester Units**

3.00

**Course Description**

This special topics data sciences course covers up-to-date research trends in prompt engineering and prompt engineering interactions with large scale language modeling. The course examines how prompt engineering significantly impacts the effectiveness of LLM-based applications and interactions with generative AI.

Academic researchers, industry vendors, and practitioners have proposed many practical techniques and guidelines for building LLMs or applications on LLMs. In this course, students review concepts and techniques that can be used to guide the model in how to behave in a way that is aligned with users' preferences or perform a specific task.

Topics include basic concepts of LLMs, Foundation model vs custom model, Fine tuning vs prompt tuning, Methods of prompt engineering, Agentic workflow, Integrating local preparatory knowledge bases, and more.

**Language(s) of Instruction**

English

**Host Institution Course Number**

M3239.002300

**Host Institution Course Title**

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**Host Institution Campus****Host Institution Faculty****Host Institution Degree****Host Institution Department**

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