

# COURSE DETAIL

## INTRODUCTION TO DATA MINING

**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**

155

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

INTRODUCTION TO DATA MINING

**UCEAP Transcript Title**

INTRO DATA MINING

**UCEAP Quarter Units**

4.50

**UCEAP Semester Units**

3.00

## **Course Description**

This course covers important algorithms and theories for data mining. Data mining refers to theories and techniques for finding useful patterns from massive amounts of data. Data mining has been used in high impact applications including web analysis, recommendation system, fraud detection, cyber security, etc.

Main topics include finding similar items, mining frequent patterns, link analysis, link prediction, recommendation system, data stream mining, clustering, graph mining, time series prediction, and outlier detection.

**Prerequisite:** Students should have an undergraduate-level knowledge on the following topics: Algorithms, Basic probability, Programming, Linear Algebra

The course will provide some background but will be fast paced.

### **Language(s) of Instruction**

English

### **Host Institution Course Number**

M1522.001400

### **Host Institution Course Title**

INTRODUCTION TO DATA MINING

### **Host Institution Course Details**

<https://datalab.snu.ac.kr>

### **Host Institution Campus**

### **Host Institution Faculty**

### **Host Institution Degree**

### **Host Institution Department**

### **Course Last Reviewed**

2025-2026

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