

# Course Syllabus for DS730: Big Data - High-Performance Computing

**NOTE:** This syllabus document contains the basic information of this course. The most current syllabus is available in the full course.

## Course Description

This course teaches you how to process large datasets efficiently. You will be introduced to non-relational databases. You will learn algorithms that allow for the distributed processing of large data sets across clusters.

**Course Objectives** By the end of this course, you will be able to:

- Implement algorithms that allow for the distributed processing of large data sets across computing clusters.
- Create parallel algorithms that can process large datasets.
- Process large datasets efficiently.

## Grading Policy

Your mastery of course content is assessed using a variety of methods:

Activity	Percentage of Grade
Activities	30%
Projects	70%
Total	100%

Final grades are assigned using the following scale:

---

**A 90-100%**

---

**B 80-89%**

---

**C 70-79%**

---

**D 60-69%**

---

**F At or below 59%**