

COURSE DETAIL

NEURONAL DEVELOPMENT AND DISEASES

Country

Singapore

Host Institution

National University of Singapore

Program(s)

National University of Singapore

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Biological Sciences

UCEAP Course Number

160

UCEAP Course Suffix**UCEAP Official Title**

NEURONAL DEVELOPMENT AND DISEASES

UCEAP Transcript Title

NEURONAL DEV/DISEAS

UCEAP Quarter Units

6.00

UCEAP Semester Units

4.00

Course Description

This course focuses on key events that take place in different stages of vertebrate nervous system development including neural induction, neurogenesis, glial biology, neuronal growth and polarity, axonal guidance, synapse formation, and regeneration. Pathological states such as muscular dystrophy, spinal cord injury, Parkinson's disease, and other neurodegenerative diseases are examined, both in terms of understanding the deficits as well as examining potential solutions to improve the outcomes of these neuronal diseases. Latest findings are discussed, allowing students to learn the current state of research in developmental neurobiology. The course requires students to take prerequisites.

Language(s) of Instruction

English

Host Institution Course Number

LSM3216

Host Institution Course Title

NEURONAL DEVELOPMENT AND DISEASES

Host Institution Course Details

<https://nusmods.com/courses/LSM3216/neuronal-development-and-diseases>

Host Institution Campus

Host Institution Faculty

Yong Loo Lin School of Medicine

Host Institution Degree

Host Institution Department

Physiology

Course Last Reviewed

2025-2026

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