

Course Subject Title(授業題目)

Crop Production Science

Credits (Units)(単位数)

1

Class Work Type(授業種別)

Lecture

Year of commencement(履修開始年次)

1st year

Semester(履修期間)

Spring term

Day/Period(時間割)

Wednesday/2nd

Professor (Lecturer or Instructor)(担当教員名)

TOYOTA Masanori

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Keyword for the subject(キーワード)

Ecophysiology, Food crop, Developmental morphology, Yield determination

Content and Objectives(授業テーマと目的)

(Content)

This course provides a historical trend of crop yields and reviews ecophysiological factors responsible for increasing yield potential during the last century. Approaches for analyzing yield determination are illustrated: 1) ecophysiological viewpoint that deals with the dry matter production and its partitioning, and 2) morphological viewpoint that deals with the formation of yield components. The fundamental ecophysiological process and mechanisms associated with the yield determination, and its environmental responses are discussed. The possibility and strategies for further improvement of crop yield potential will be explored.

(Objectives)

To provide the students with knowledge of ecophysiological processes and mechanisms that associated with the yield determination of major crops. The students will possess a basis for explore the possibility and strategies for further improvement of crop yield potential.

Teaching Materials(教科書・参考書)

Computer projector/Printed synopsis

Evaluation of Results(成績評価の方法)

Report and Attendance