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## Advanced Plant Biochemistry - Course Syllabus

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**Course Number:** PS 302

**Course Title:** Advanced Plant Biochemistry

**Academic Semester:** Spring                      **Academic Year:** 2015/ 2016  
**Semester Start Date:** Jan 24, 2016              **Semester End Date:** May 19, 2016

**Class Schedule:** Sun and Tue at 14:30

**Classroom Number:**

**Instructor(s) Name(s):** Salim Al-Babili  
**Email:** salim.babili@kaust.edu.sa

**Office Location:** Building 2, Office: 3237

**Office Hours:**

**Teaching Assistant name:**

**Email:**

### COURSE DESCRIPTION FROM PROGRAM GUIDE

Besides the basic concepts of biochemistry, the integration into metabolic networks in plant physiology will be discussed with a special emphasis on adaptation processes.

### COMPREHENSIVE COURSE DESCRIPTION

The course provides an overview on the important metabolic pathways in plants. It also introduces the integration of metabolic networks in plant physiology, with special emphasis on adaptation processes.

### GOALS AND OBJECTIVES

The course aims at providing deep understanding of metabolic processes in plants and the role of different biosynthetic pathways in plant growth and development.

### REQUIRED KNOWLEDGE

Good knowledge in general biochemistry

## REFERENCE TEXTS

Reviews and primary literature will be assigned during the semester. For background on specific topics, the following plant biochemistry books are recommended.

Heldt H-W (2011) Plant Biochemistry. Fourth Edition. Elsevier Academic Press.

Buchanan, B., Gruissem, W., Jones, R. (2000) Biochemistry & Molecular Biology of Plants, John Wiley & Sons

## METHOD OF EVALUATION

Percentages %	Graded content
25% 25% 50%	Attendance Presentation Final Exam

## COURSE REQUIREMENTS

### Assignments

Assigned reading and paper presentation

### Course Policies

Attendance is mandatory

### Additional Information

## NOTE

The instructor reserves the right to make changes to this syllabus as necessary.