

Minor Title	Minor in Plant Science
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Offered to students admitted to Year 1 in	<b>2012</b>
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**Objectives:**

The Plant Science minor is offered to students who are fascinated by the diversity and beauty of plants and the molecular mechanisms underlying their growth and development. Knowledge in plant science is essential for tackling daily-life issues such as the production of high-quality food, utilization of plant products as biofuels and extraction of beneficial phytochemicals. Recent advances in plant genetic engineering have also allowed scientists to manipulate plant growth and development for nutritional and environmental benefits. This minor aims to provide broad training in the biology of plants from the molecular to the organism level as well as the agricultural and nutritional applications of plants and plant-derived products.

**Learning Outcomes:**

Students should be able to:

- appreciate plants as an important part in our culture and their functions and roles in food, nutrition, and environment;  
(by means of coursework, laboratory-based, and tutorial class and project-based learning in the curriculum)
- understand and describe the fundamental concepts of plant evolution, anatomy, biochemistry, physiology and biotechnology;  
(by means of coursework, laboratory-based, and tutorial class and project-based learning in the curriculum)
- acquire necessary academic and practical skills for careers in government agencies, secondary school teaching and postgraduate research in different disciplines of plant science.  
(by means of coursework, laboratory-based, and tutorial class and project-based learning in the curriculum)

**Impermissible Combination:**

NIL

**Required courses (36 credits)****1. Introductory level courses (12 credits)**

At least 12 credits selected from the following courses:

- BIOL1110 From molecules to cells (6)
- BIOL2103 Biological sciences laboratory course (6)
- BIOL2304 Evolutionary diversity (6)

**2. Advanced level courses (24 credits)**

At least 24 credits selected from the following courses:

- BIOL3107 Plant physiology (6)
- BIOL3111 Economic botany (6)
- BIOL3210 Grain production and utilization (6)
- BIOL3314 Plant structure and evolution (6)
- BIOL4209 Functional foods (6)
- BIOL4411 Plant and food biotechnology (6)

**Notes:**

- A course may appear as required course in two or more Science majors/minors. Each course can only be considered to satisfy the requirement of one major or one minor, even if that appears in the curriculum of two majors/minors. Students have to select another course to replace the course in the second major/minor.
- Courses at the advanced level are subject to change.

**Remarks:**

Important! Ultimate responsibility rests with students to ensure that the required pre-requisites and co-requisite of selected courses are fulfilled. Students must take and pass all required courses in the selected primary science major in order to satisfy the degree graduation requirements.