

Academic Requirements - Plants

- **B.Sc. degree** or equivalent from a recognized university in the field of **agriculture, plant sciences, crop sciences, plant production, plant protection, agronomy, horticulture**, etc.
- Knowledge of **undergraduate level biochemistry**.
- Scientific background relevant to the selected study program.
- **GPA of 80 or above (B- on the letter scale)**.
- High level of proficiency in all English skills, documented by one of the following:
 - ◆ At least **89 on the TOEFL** internet-based test
 - ◆ At least **6.0 on the IELTS**
 - ◆ Documentation of previous **academic studies conducted in English**.
 - ◆ Exemption of **English learning from an approved Israeli institution of higher education**.
- **3 letters of recommendation**; at least one must be academic.
- **Relevant experience** is recommended but not mandatory.

2020-21 Plant Sciences Curriculum

Semester A

- Plant Biochemistry
- Biotechnology for Agricultural Crops
- Introduction to Molecular Biology
- Contemporary Approaches to Plant Physiology
- Biotechnology for Agricultural Crops
- Practical Workshop in Crop Management (two semesters)
- Basic Irrigation Systems
- Experimental Design and Statistical Analyses + Practice
- Mineral Nutrition of Higher Plants
- Integrated Pest Management
- Scientific Writing and Presentation
- Research Methods (three semesters)

Semester B

- Biological Control of Agricultural Pests
- Weed Management
- Principles of Plant Breeding
- Current Greenhouse Crop Production
- Post-Harvest Biology and Technology
- Advances in Vegetable Production
- Environmental Microbiology
- Seed Production
- DNA Markers for Genetic Analysis and Breeding
- Reproductive Biology of Fruit Crops
- Crop Physiology and Production

Semester C

- Research Exercise
- Oral Seminars