



Ramat Hanegev | Theoretical Studies| General Information:

All students have access to our LMS , A Moodle based remote learning system which includes:

1. Username and personal password for each student.
2. Access to content - presentations, submitting online tasks,
3. Chat groups/ discussion group for communicating with the lecturer..
4. Evaluation tools – tests, follow-ups, and reports.
5. Performance system and attendance monitoring.

*The system allows for a quick transition to remote learning when necessary, including recorded and/or online lessons.

Theoretical learning and evaluation :

In each course there is a final exam, and the possibility of a second date is given if necessary.

In the “Computer Applications” course, a complete presentation is reviewed and marked.

In the entrepreneurship course, a business plan is submitted – written with guidance of the teacher.

At the end of the academic year, the students submit a final research paper - the evaluation of the work is done by the professional advisor / lecturer.

At the end of the school year, students receive a graduation certificate and a grade sheet.



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Courses:

	BGU Credit program*	Standard program
orientation	8	8
entrepreneurship	24	16
Soil, water, and fertilizers	32	16
Plant physiology and biology	32	16
Israel	8	8
Computer skills and presentations	24	16
Poultry management	16	16
Aquaculture	16	16
Plant protection and Pesticides	32	16
Intro to plant genetics	16	16
Agricultural Finance	-	16
Organic Agriculture	32	24
Methods and standards in modern horticulture	16	24
Post-Harvest	16	16
Irrigation and New Technologies in Agriculture	16	24
Dairy farm management	16	24
Methodology (Final Project)	16	16



General Training

	Academic hours
Safety in agriculture/ Elisha Zurgil	3
Working in Heights/ Vladimir ofegenden	3
Regulations and Prevention of Sexual Harassment / Jessica Pearlman	2
Multicultural associations /Avital Sharon	2

Study Related Trips:

Ramat Negev Desert Agro-Research Center.

1. Technology aspects and irrigation systems.
2. Soil types
3. Experiments and crops

The Jacob Blaustein Institutes for Desert Research

1. Labs and research
2. Greenhouses and experiments

Local Dairy farm

Local organic farm



Syllabus Outline

Introduction to Israel

Iris Barazani | MSs Geography

1. Jewish History and Religion
2. The pioneers, the establishment of Israel and the Israeli-Palestinian Conflict
3. The Israeli Society
4. Israel landscapes, Types of tourism

Introduction to Israel

Boaz Dreyer, MSs Business

1. geography, demography and politics and religion
2. time of the patriarchs
3. Israel – history 1917 - today
4. conflicts

Organic Agriculture

Maya Toren Ms.c

1. Introduction to organic agriculture, Sustainable methods and other practices in organic agriculture.
2. Health and fertility of the soil.
3. Nutrition, compost, and waste recycling.
4. Plant protection, pest and weed management.
5. Organic livestock.
6. Organic agriculture through the economic lens, Industry and regulation.

Methods in modern horticulture

Anat Shahaf |B.Agr| shulabuli@gmail.com

1. Introduction to tomato. History, classification, morphology, The different cultivars – determinate vs indeterminate, different varieties, pollination, and tomato plant protection.
2. Controlled environment: Greenhouse, net house, open field, irrigation, fertilizers and soil preparation, soil types – Generally about undercover crops, with examples from tomato, pepper, cucumber, and strawberry.
3. Pepper (Capsicum) – The different ways of growing, structures (greenhouse, net house). A sample for a growing protocol from beginning to end. periods of the year, water, fertilizers, shade net, bees. Pepper Plant protection.
4. Strawberry – Tissue culture, new plants production, periods in the year, "Flying strawberry", irrigation, fertilizers, soil. Strawberry- plant-protection.
5. Field Trip

Soil, Water and Fertilizers

Natalie De Falco | Ph.D

1. Basic soil concepts: Soil definition- (Geologic definition, Component definition, Traditional definition)
2. Soil composition -Soil Organic matter, soil formation, Soil physical properties. Fertilization and plant mineral nutrition
3. Introductions to fertilization: Types of fertilizers, Plant mineral nutrition, Deficiencies of minerals in plants, Fertilizer calculations.
4. Compost- use and production, soil health, Soil salinity , Soil erosion, Soil acidity , Soil compaction, waterlogging.



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5. soil water, Water retention forces , Soil moisture content . Water flow in soils.
6. Lab: Soil-water demonstrations

Entrepreneurship

Boaz Dreyer, MSc Business

1. The entrepreneur, the business idea, and the family business
2. The business plan and the market
3. An introduction to the farming business
4. First steps in marketing
5. preparing an individual business plan

Advanced computer skills

Jessica Pearlman, B.A | jessica@mop-rng.org.il

1. Introduction and Basics.
2. Internet
3. Search engines-improve searching skills and Social Networks
4. Microsoft Office: Word Processing Basic:
5. Microsoft Office: Power point:
6. Microsoft Office: Excel
7. Writing a CV.

Plant Breeding-Introduction to Genetics

Avner Levy, Ph.D.

1. Introduction to genetics
2. Plant genetics
3. Molecular biology and genetic engineering

Agriculture connecting people



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Safety in agriculture

Elisha Zurgil, MSc Agronomy

1. Occupational safety and health at farm
2. Personal safety equipment and behavior
3. O.S.H institute Israel
4. Workers of greenhouses and farms – common accidents
5. Unique hazards for non-Hebrew speaking agriculture workers
6. Law aspects and insurance
7. Machines
8. Chemical safety
9. Transportation and loading safety
10. Fire and electric safety
11. Signs of safety , accident report

Plant protection

Mihal Blaschkauer| Ph.D. candidate, Ben- Gurion University

1. Introduction to plant protection
2. Abiotic and biotic factors effect on plants
3. Integrated pest management
4. Introduction to entomology
5. Bacterial plant diseases
6. plant viruses
7. Diagnosis
8. Trip to BGU lab

Post-Harvest

Maya Toren, MSc Agronomy

1. Introduction, Aging and abscission
2. pathology after harvest
3. Storage and Cooling Methods, Softening and temperature
4. postharvest of fresh vegetable and fruits
5. postharvest technologies



Poultry Management

Yogev Pieston | PhD Poultry Science

1. introduction to poultry management, poultry breeds / breeding layer flocks
2. pullet /layers management: biosecurity / the importance of house layout/the causes for cannibalism/ beak trimming / lighting management
3. brooding management: the critical period/ the first 48 hours/ building
4. performance/environmental factors to consider when brooding chicks/ thermoneutral zone

Agricultural Accounting for beginners

Becky Vider | certified tax consultant

OR: Agricultural Finance Boaz Dreyer, MSs Business

1. Introduction, Income , Expenses
2. Gross Profit, Net Profit, exercise
3. Profit and Loss statement, Depreciation.

Aquaculture

Evyatar Snir | MSc Life Sciences | snirevy@yahoo.com

1. Fish Farming Methods
2. Water Quality in Earthen Ponds
3. Fish feeding, Economy of Fish farming, RAS systems
4. Lab-Water Quality

New technologies in Agriculture

Or Shemer | MSc Agronomy

1. Introduction, Controlled environment
2. The Irrigation system
3. Monitoring
4. Building irrigation systems,

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Plant physiology

Mihal Blaschkauer | Ph.D. candidate, Ben- Gurion University

1. Plant's structure and transpiration.
2. Photosynthesis, The processes of photosynthesis
3. Respirations and energy transfer.
4. Photo-morphogenesis .
5. Mineral uptake and deficiency signs.
6. Plant hormones and signal transduction.
7. Plant stress Focus on abiotic stress, defense mechanism.
8. Introduction for urban agriculture and agroforestry practices.

Dairy farm management

Einat Shavit, Doctor of Veterinary Medicine | sheepngoatclinic@gmail.com

1. Introduction: breeds, anatomy, pregnancy.
2. main illnesses in dairy: cause, management and detection, symptoms, treatment, and prevention
3. milk and products: composition, quality, Automation, Processing, pasteurization, artificial insemination in cows
4. Goats: breeds-Dairy and meat, nutrition, diseases.

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***Plantation practices**

Elisha Zurgil, MSc Agronomy

1. Introduction.
Site Preparation-Practices and
Material. Inputs , Labor,
Equipment.
2. Planting.
Training during the first three
years.
3. Fertilizing and Irrigation.
Pollination.
Pest Management.
4. considering an organic
plantation.
Harvest preparations and
marketing