

HYDRO

aka "Water"

1 What Is Hydroponics?

Growing plants without soil, using water enriched with balanced nutrients to support healthy growth.

2 What Can You Grow?

A variety of fruits and vegetables. Simple home systems can even use repurposed plastic water bottles.

PONICS

aka "Labour/Work"

3 Key Benefits

Uses less water, eliminates soil and weeds, delivers nutrients efficiently, and can support faster growth with fewer pesticides.

4 What Does It Require?

Initial investment, practical knowledge, daily monitoring, and specially formulated nutrients.
NB: Waterborne diseases can spread quickly in recirculating systems.

the GARD center X GLOBAL MINISTRIES The United Methodist Church

The relationship between GBGM and GARD Center illustrates how mission partnerships can translate into meaningful development opportunities.

Together in mission. Together in service. Together for sustainable development.

the GARD center

The Gilbert Agricultural & Rural Development Center (GARD Center) is a non-governmental organization registered under the Companies Act of 1995.
Established from a 1989 pilot project supported by the Canadian Government, the Methodist Church in the Caribbean and the Americas, and the Government of Antigua and Barbuda, the Center continues to expand its programs through strong partnerships, dedicated staff, and volunteers.

"This content has been produced with the financial assistance of GBGM. The contents are the sole responsibility of GARD Center and can under no circumstance be regarded as reflecting the position of the Sponsors."

www.gardc.org
admin@gardc.org gardc_anu (268) 463.4121

the GARD center

CULTIVATING A GREENER, MORE FOOD- SECURE FUTURE

GLOBAL MINISTRIES
The United Methodist Church

Strengthening food security through CSA training and sustainable herb and plant production at GARD Center.

Support for this project was provided by a grant from Global Ministries.

CLIMATE SMART AGRICULTURE *with* HYDROPONICS MANAGEMENT



COURSE CONTENT

This course covers climate-smart techniques for propagating and growing herbs and other plants, using GARD Center's upgraded nursery demonstration site to build practical skills and strengthen food security.

INTRO TO CLIMATE SMART AGRICULTURE



Tutor: Mr. Adrian Bowen

- ✓ Climate-Smart Agriculture
- ✓ Climate Causes
- ✓ Agricultural Impacts
- ✓ Food Security
- ✓ Adaptation Strategies
- ✓ Emissions Mitigation
- ✓ Sustainable Practices



BACKYARD GARDENING & CROP PRODUCTION



Tutor: Mr. Ayo Simon

- ✓ Seedling Production
- ✓ Plant Propagation
- ✓ Crop Management
- ✓ Irrigation Techniques
- ✓ Nursery Management



BUSINESS ENTERPRISE



Tutor: Ms. Jacqueline Yearwood

- ✓ Entrepreneurial Mindset
- ✓ Caribbean Entrepreneurship
- ✓ Business Planning
- ✓ Venture Creation
- ✓ Creative Innovation
- ✓ Costing & Pricing



Grow Your Vision. **Build** Your Business.

PEST MANAGEMENT



Tutor: Mrs. Oniecia Anthony Martin

- ✓ Pest Identification
- ✓ Integrated Management
- ✓ Control Methods
- ✓ Pest Monitoring
- ✓ Environmental Impacts
- ✓ Health Impacts
- ✓ Economic Thresholds
- ✓ Post-Harvest Protection

Great Management

Better Control



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Through this strategic partnership, GBGM has afforded the upgrade of the Center's Plant Nursery and has also supported the strengthening of food security through CSA training and sustainable herb and plant production at GARD Center

