

*Murray Hallam's*  
**Aquaponics Design Course**

[aquaponicsdesigncourse.com](http://aquaponicsdesigncourse.com)



**6th October - 1st December 2019**

The Complete Eight Week Online Course in designing, managing  
and maintaining your own Aquaponics System.

[www.aquaponicsdesigncourse.com](http://www.aquaponicsdesigncourse.com)

# Welcome to the Aquaponics Course

Welcome to the Aquaponics Design Course. This course is one of a kind, being taught by Murray Hallam, a veteran in the Aquaponics industry. Murray has been building, researching and teaching Aquaponics for over 10 years. He has taught Aquaponics to hundreds of students all over the world and is regarded as a premier teacher. His Aquaponics Master Classes are much in demand.

We invite you to join this new extended 8 week Online course and benefit from Murray's years of experience and research in developing Aquaponics systems that really work.

From the comfort of your lounge room at a time convenient to you, the course will roll out over successive weeks, 8 modules of video lessons. You can start watching as soon as you enroll. Join classmates in discussing lessons and Murray will be on hand to

answer all your questions. If you have been watching the free videos on [murrayhallam.com](http://murrayhallam.com) you will know what an effective teacher Murray is.

Murray's mission is for students to not just study Aquaponics but to act on their knowledge. Many students have taken the course and gone on to great success. Some have secured the health of their family others have prosperous new businesses.

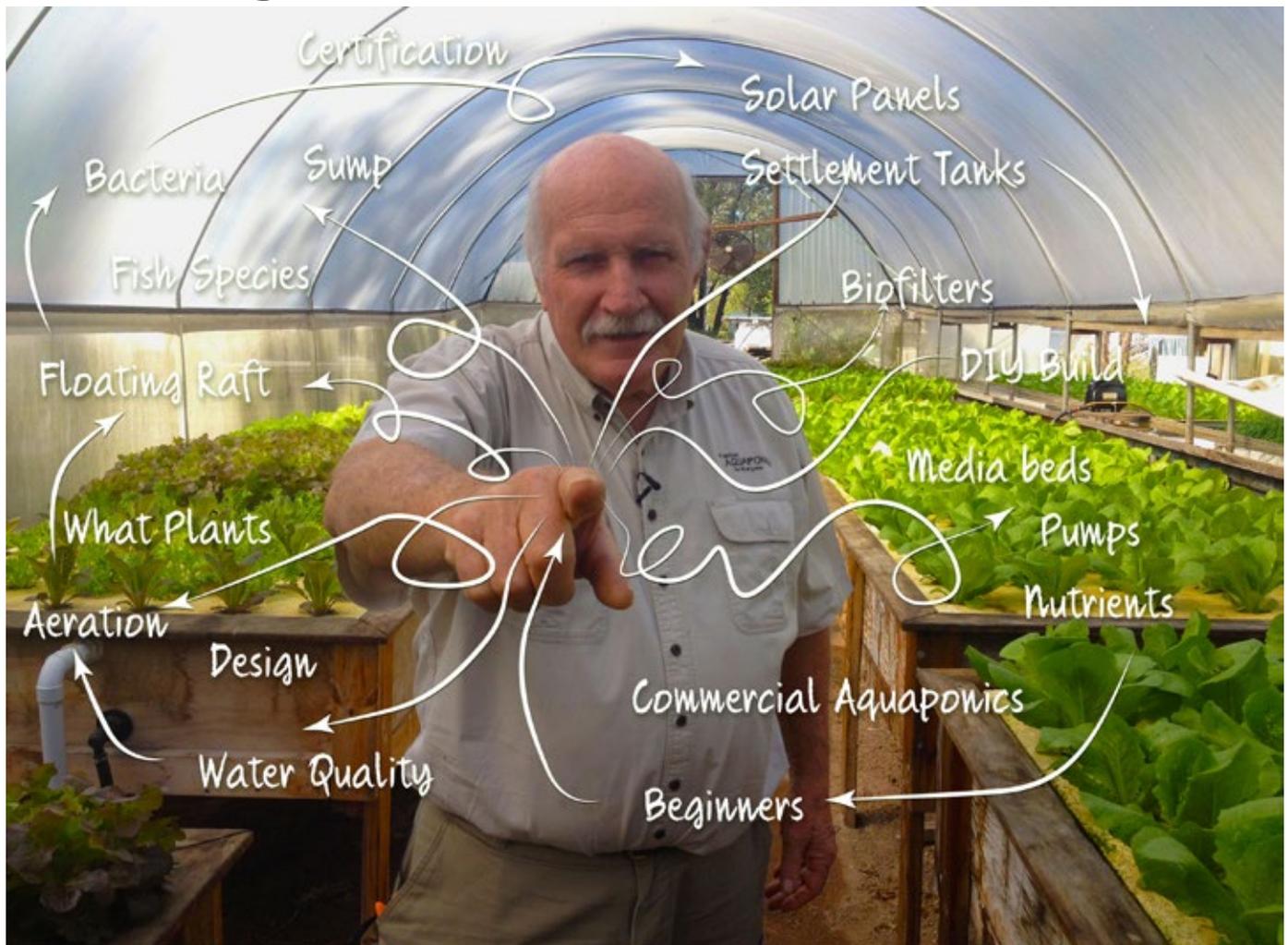
Growing pure food, and growing food locally is Murray's passion and he hopes it is yours too. We invite you to take this learning journey together and become part of Murray's world wide Aquaponics family.

**Registrations open 6th Oct. 2019**

**The course officially starts on the 6th Oct. to 1st Dec.2019**

**You will have access to course materials for 1 Year**

## The Magic starts with You!



# I'm a complete beginner. Is this course for me?

The Aquaponics Design Course caters for all skill levels. From an absolute beginner to someone who has been operating their own system for a while and are ready to scale up.

Murray has had people enroll who had just discovered Aquaponics and then wanted to develop a large commercial system. His 4-day Master Class course allowed many students to have the skill-set and confidence to head in that direction.

People of all ages have taken Murray's courses successfully. Schools are developing Aquaponics as part of their curriculum. Some mid-career people see it as an opportunity to start a new business and some people just want to learn how to grow their own healthy fish and vegetables easily.

No prerequisite qualifications are necessary. You will be taken through a progression of learning from the basics, right through to advanced training.

# Course Requirements

A broadband Internet connection for video streaming is essential. The videos are not available for download. However, the beauty of Online training is that you can watch the videos repeatedly.

You will need about 3 hours per week to participate in the lessons, but that is anytime you choose, day or night. The course can be watched on your desktop, tablet or mobile device.

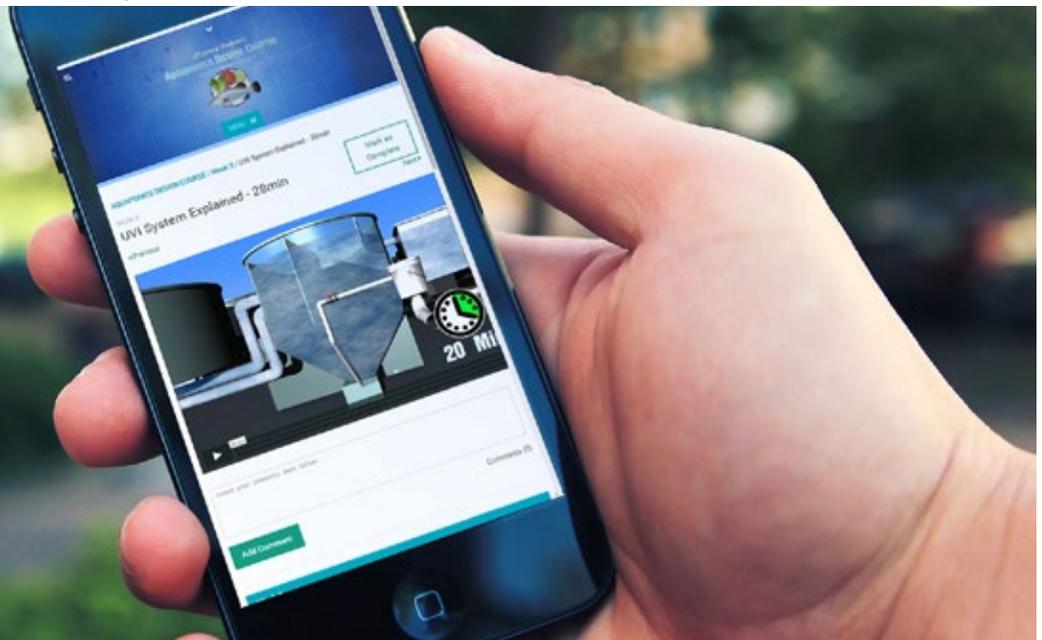
The other essential component is enthusiasm and a willingness to learn!

The course is presented using VIMEO\*. If you can watch vimeo on your browser, you can watch and participate in the course.

*\*Some countries such as Indonesia have blocked Vimeo. Please check the link to see if you can watch vimeo formatted videos. <https://vimeo.com/home>*

## Watch it anywhere!

### Over 200 engaging lessons that teach you aquaponics from beginner to advanced!



**Need Help? Have a Question? Contact Support at:**  
[support@aquaponicsdesigncourse.net](mailto:support@aquaponicsdesigncourse.net)



Thank you, Murray and Lee, for the great learning journey. It has been an amazing learning for me. It really leaves me thinking how I could do more for healthy eating and how I could share the knowledge with people around me. - Seok Ngo Ang

# The Many Benefits Of Aquaponics



**90% less water**



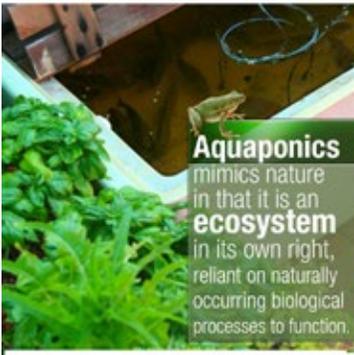
**pure food**



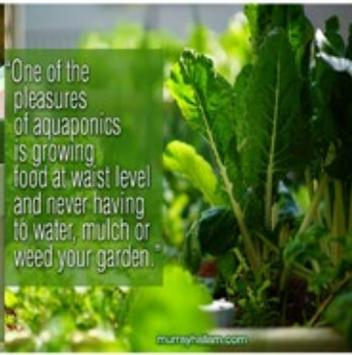
**natural predators**



**vertical space**



**an ecosystem**



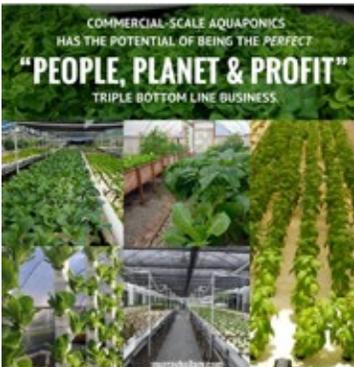
**no bending**



**more productive**



**diversity**



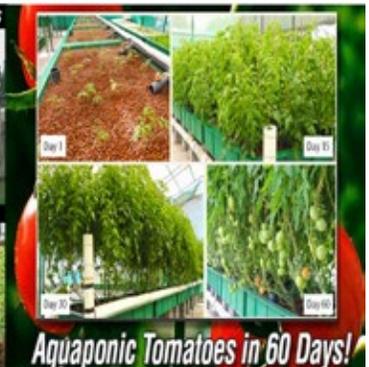
**sustainable**



**fish and plants**



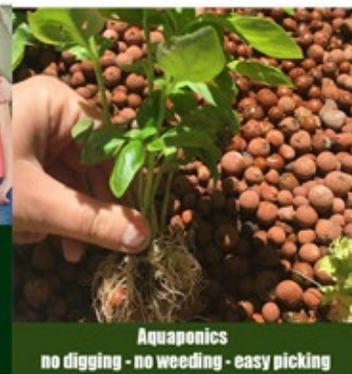
**grow anywhere**



**rapid growth**



**small spaces**



**no weeds**



**no synthetic chemicals**



**natural fertilisers**

# I want to run a small farm system and sell to my community



Aquaponics is an ideal system to fill the demand of growing numbers of consumers who want pure, fresh locally grown food. Food miles can be few and a diverse number of products can be grown.

Chefs are continually on the look-out for niche ingredients and seasonal produce with exceptional quality. Forming a relationship with local restaurateurs is something Aquaponic entrepreneurs are doing successfully.

Farmers' markets are booming and offer producers the chance to benefit from higher profits, by removing the middleman and selling food directly to consumers.

The rising interest in organic food and its health, ethical and environmental benefits, has added to the popularity of farmers' markets.

Aquaponics farming avoids pesticides and synthetic fertilizers and attracts higher prices for produce.

People want to know where their food comes from and connect with the grower. Box systems or CSAs where people subscribe to weekly deliveries of produce is another way Aquaponics growers market into their communities.

# Designing a Commercial Aquaponics System

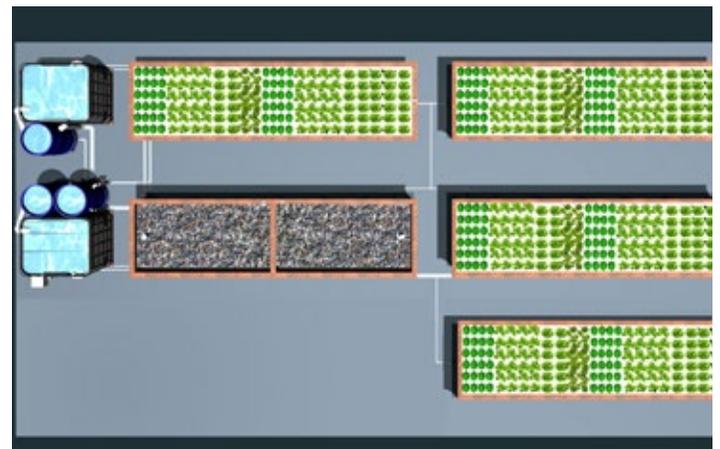
Aquaponics is scalable. You can start off with a small farm system and scale up as resources and markets develop.

There is a marked difference in operating a system for profit as opposed to a home system, in terms of productivity and efficiency. When you are making a living, decisions are crucial. Murray will show you how to streamline your operation and calculate ratios and timings for optimum performance.

If you want to start a business using Aquaponics, Murray knows it doesn't start at the build. There are many factors to consider which he will outline and provide you in the course. You will receive the tools to make informed decisions about your business.

Murray will explain in depth the components and functions in his model for Commercial Aquaponics systems, which have been built in various configurations throughout the world. Graphics and animations allow you to see exactly how they work. Interviews with students who are successful in business will give you an insight into what is possible.

This course will teach you how to build a system for your situation which will reap you rewards.



Thank you for sharing your knowledge and would love to be able to spread the word and maybe hold seminars in Vic.! - Deborah Melinger

# 4 Aquaponics DIY Projects to get you started!



To get you started Murray will show you how to build **4-different home systems**. We have step by step instructions. You will learn what is required and exactly how to do it. Even if you've never held a hammer or operated a saw, Murray has designed a small aquaponics system that you can build anywhere in the world based on commonly accessible material. Why not start building one during the course and jump straight into it? Build your home system or make it a training system before you go on to bigger things.

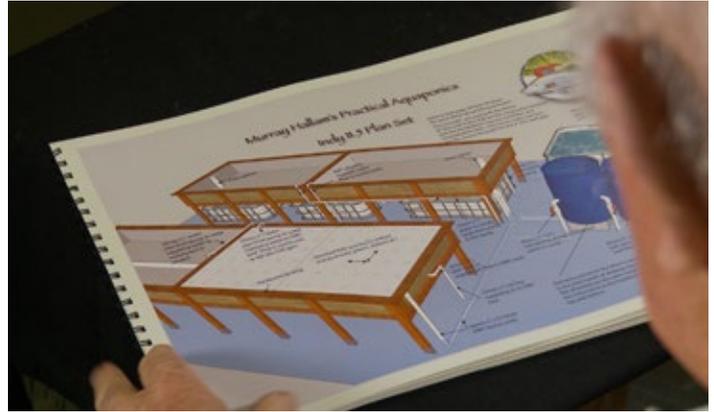


## Weekly Course PDF

At the beginning of each week, you will be given a chapter of notes you can download for each class module. These, you can print and compile into a handbook as a permanent reference.

You can also take the lists of requirements to the hardware shop, utilize the record sheets and have the facts at your fingertips. They will be a great support to your learning and you can add your own notes to them.

# Indy 11.5 Plan Set Free! Build your Dream System



The Indy 11.5 plan set is a popular plan for a large home system which contains all the elements of the bigger systems. Murray usually sells this plan for \$197 and is giving it to his students for free.

Build this robust and productive aquaponic system using this comprehensive plan set.

The Plan Set contains 16 full-colour A3 pages, plus over 40 pages of A4 building instructions, including a complete list of materials required.

Two different lay-outs are covered in the Plan Set - one with grow-beds side-by-side, for a wider space configuration, and another with beds in a straight line, for a longer, narrower spaces, such as down the side of a house.

This plan has all the elements of a commercial system and can be used as a basis for many larger designs.

### Worm Juice Analysis

Compost Worms love aquaponic media beds because of the heavily oxygenated water teaming with bacteria enables the plants to thrive and grow!

Healthy Bacteria	100,000 CFU/ml
Nitrogen(N)	64 mg/L
Phosphorus(P)	21 mg/L
Potassium(K)	940 mg/L
Sulphate	82 mg/L
Calcium	62 mg/L
Magnesium	150 mg/L
Sodium	120 mg/L
Copper	276 ug/L
Zinc	105 ug/L
Manganese	.26 mg/L
Iron	1.5 mg/L
Boron	.41 mg/L

## BONUS DVDS

## 7 Day Money Back Guarantee!



As a special bonus for being part of this course, you get free access to Murray's top 3 DVDs in streaming format. *Aquaponics Made Easy* explains the basics, *Aquaponics Secrets* takes you to the next level and *DIY Aquaponics* teaches you how to make a kit system. These videos are yours to enjoy, just for signing up to the course. Valued at AU\$120. Aquaponics has never been this much fun!

## Lesson Questions

Just like in a classroom, you are encouraged to ask questions after viewing each video lesson, so you can quickly build your knowledge base.

Each video varies from 5 min to 20 mins in duration. There are no boring white-board discussions in Murray's course. Each lesson is illustrated with video, animation or graphics to illustrate core concepts.

You are encouraged to ask as many questions as you like beneath each lesson. Murray will be on hand to clarify any aspect of the course.

You can post your suggestions or comments below each video and read other student responses as well.



We are so confident that you will be delighted with Murray Hallam's **Online Aquaponics Design Course** that we will offer you a full *7 day money back guarantee* if you find the course is not for you. Just email a support ticket advising our staff and we will refund you the full price. You get a full 100% refund with no questions asked. How good is that? *You have nothing to lose!*

## Weekly Conference Calls! Go ahead - ask your questions!



Enjoy weekly live calls with Murray Hallam. **Murray will be on hand to answer your class questions** in a live webinar and guide you over any design tips you need to know.

You'll be advised in our weekly newsletter the exact time the webinar will be held and if you miss out - don't worry, you'll still be able to gain access and watch a recorded version later at your convenience.



An excellent course. Dense and comprehensive, but delivered in an engaging and accessible way. Very good value! - Craig Thorburn

# BONUS! FREE FIBREGLASS TANK COURSE WORTH \$500

At completion of the Aquaponics Design Course you are automatically enrolled in our Fibreglass Tank manufacturing Course valued at USD \$500.

Fibreglass is one of the most inert and longlasting materials you can use to build your own dream aquaponics system.

Murray Hallam as a former boat-builder and fibreglass tank manufacturer, will show you all the tips of the trade, how to build the moulds, work with resins, solve problems, fix leaks and build your own tanks for use in your own aquaponics systems or to build aquaponics tanks for sale.

Well made fibreglass tanks will last for over 50 years. Unlike plastic tanks, they can be repaired if damaged.

You will no longer be limited to working with off the shelf international bulk containers or commercially available blue barrels when making your own systems.

Learn the details of making your own fish tanks, sump tanks, grow beds, header tank and swirl filters.

It's terrific value and a necessary skill for any budding aquaponics designer!

**BONUS COURSE WORTH \$500 USD**

**Build your own Dream Aquaponics System using Fibreglass!**

[AquaponicsDesignCourse.com](http://AquaponicsDesignCourse.com)

Build your own fibreglass fish tanks, growbeds, header tanks, swirl filters, sumps and troughs

**Murray Hallam's FIBERGLASS TANK MANUFACTURING COURSE**

[AquaponicsDesignCourse.com](http://AquaponicsDesignCourse.com)

**Fibreglass Tank Course**

Build your own fish tanks, troughs, grow beds and swirl filters using fibreglass

[Start Course](#)

**Modules**

- Course Introduction**  
Welcome to the Fibreglass Tank Course. You'll learn from Murray Hallam how to make your own fibreglass tanks for fun or profit. It's all up to you. Please to go ahead.
- Repairing Fibreglass Tanks**  
Fibreglass is inert and repairable. Murray shows you how fibreglass tanks can be repaired and reused.
- Fibreglass over Timber**  
This is probably the simplest method most people use to build their tanks. Murray shows you how to build a durable and strong tank using fibreglass over timber.
- Replicating Tanks from an existing Model**  
If you have an existing model, Murray shows you how to replicate it. It's all up to you. Please to go ahead.
- Making a Fibreglass Mold**  
Once you decide to go into business, Murray shows you how to build a prototype and how to make a working mold. It's all up to you. Please to go ahead.
- Advanced Tips**

**Testimonial:**

"I loved it!! I have watched them already. I plan to build my own fish tank and the rest of the beds. I'm not planning to be a farmer but I want to set up a small aquaponics greenhouse for the family. I have ideas now on how to go about building my 10000 litre fish tank from fibreglass."

★★★★ **Robert B.** Western Australia  
Aquaponics Design Course Student 2018



# Course Curriculum

ENGAGEMENT - APPROX 3 HRS PER WEEK

The course material will be available for 12 months from the commencement date of the course.

## Week One

Introduction Week 1  
Chapter 1 Course Handbook pdf  
Aquaponics from Murray's Perspective - 21mins  
Aquaponics- the Basics - 22mins  
History of Aquaponics - 8mins  
Cycling the System - 11:20mins  
System Components - 3:45mins  
DWC - 5:50mins  
Media Beds - 15mins  
NFT - 4:15mins  
Water Flow Loops - 6:15mins  
Keep it Simple - 8:15mins  
AusyFish Interview - 22mins  
Bath Tub Build Instructions  
Week 1 Closing Words  
Quiz

## Week Two

Introduction Week 2  
Week 2 Course Handbook  
Hydroponics V Aquaponics - 6:45mins  
Decoupled Systems - 6:30mins  
Parameters - 8:35mins  
Water Testing - 17:20mins  
Why Does pH Trend Down - 10:50mins  
Additives for Adjusting pH - 14mins  
Water Source - 14:10mins  
Autosiphons - 13:40mins  
Calculating Flow Rates - 13mins  
Aeration and Filtration - 2:30min  
When To Add a Filter - 3:20mins  
Dissolved Oxygen - 6:30mins  
Back Up Systems - 13min  
Vertical Growing - 7 mins  
How to Build GroPocket Towers - 18mins  
Ausyfish Packing Fish for Sale - 8:40mins  
Week 2 Closing Words  
Quiz Week 2

## Week Three

Introduction Week 3  
Week 3 Course Handbook  
Plumbing Components - 22mins  
Reusing Plumbing Fittings - 3:10mins  
What is FloMedia ? 5:45mins  
FloMedia Walk Through - 10:45mins  
FloMedia Water Flow Gravity - 3mins  
FloMedia Timber Bed Construction - 8mins  
Folding the Liner - 5mins  
FloMedia Drilling Holes - 2:30mins  
FloMedia- Floating Rafts - 1:40mins  
FloMedia Polystyrene - 4mins  
FloMedia Maintenance - 1:30mins  
FloMedia Pest Control - 1:55mins  
Acclimatising Seed - 2:20mins  
Papaya Seed Saving 4 mins  
FloMedia Seed Saving - 4:50mins  
FloMedia Conclusion - 3:50mins  
Raising the Grow Beds 4:10mins  
Cleaning the Media Beds 6 mins  
Pine Combo Kit Build A - 12mins  
Pine Combo Kit Build B - 10:40mins  
Pine Combo Kit Build C - 15mins  
Pine Combo Kit Build D - Fish Tank 5:15mins  
AusyFish Netting and Sizing - 7:14 mins  
Week 3 Closing Words  
Week 3 Quiz



## Week Four

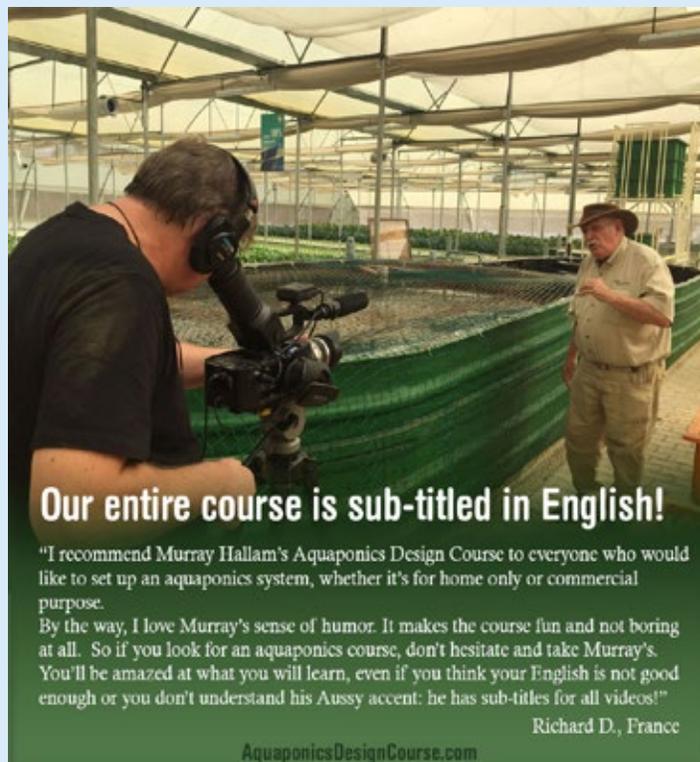
Introduction Week 4  
Week 4 Course Handbook  
Introduction to the Indy System - 3.20mins  
Indy 11.5 System Plans - 21.50mins  
Indy23 Overview -13.20mins  
Indy The Sumps - 3mins  
Indy Water Flow 1 - 3:45mins  
Indy Mineralisation - 11:20mins  
Settlement Tanks - 5.50mins  
Radial Flow Filter 1- 2:19mins  
Building a Wicking Bed- 18:30 mins  
Introduction to the Twindy - 9.50mins  
Twindy Owner Interview - 23.30mins  
Growing Seedlings - 14:30mins  
Building on a Slope Intro - 2:20mins  
Building on a Slope - Case Study - 15:30mins  
Building on a Slope Summary - 3:30min  
Week 4 Closing Words  
Quiz Week4

## Week Five

Week 5 Introduction  
Week 5 Course Handbook  
UVI System Explained - 28min  
Commercial Filters - 7.10mins  
Commercial - Farm Tour in Hong Kong - 13.10mins  
Commercial - Running A Hybrid System - 13:20mins  
Commercial Aeration System - 6:20mins  
Commercial Aquaponics Solving Problems - 3.30mins  
Common Problems -7:31  
Hoop Greenhouses - 8mins  
Passive Heating - 6:30 mins  
Fish Health Checklist - 9.50mins  
Salting New Fish - 4 mins  
Calming Fish with Cloves - 8.05 mins  
What to Feed Your Fish - Alternatives - 7mins  
Ausyfish Raring Fish in Ponds - 14.30mins  
Week 5 Closing Words  
Quiz Week 5

## Week Six

Introduction Week 6  
Week 6 Handbook  
1. Pumps -Water -11:45mins  
Going Solar- 6 mins  
2.Pumps-Solar - 2:40mins  
3. Pumps- Fail Points in 24V pumps - 6:40mins  
Solar The Battery Bank- 5:30mins  
Solar Conclusion - 1:25  
Fixing Nutrient Deficiencies - 6:10mins  
Plant Nutrient Deficiency -Blossom End Rot - 2:15mins  
An Example of Pythium - 4 mins  
Plant Nutrients 1 - 2mins  
Plant Nutrients 2 - 7mins  
Plant Nutrients 3 - 3.30mins  
Pollinating Tomatoes in Oman - 2.20mins  
Brix Testing Fruit  
Introduction to Pest Management - 6:50mins  
Pest Management 2 - 6mins  
Pest Management 3 -16mins  
Case Study Ili' Ili farms Hawaii 13:40mins  
Case Study Pedros Farm - 18:40mins  
Increasing Your Grow Bed Space - Glen Martinez 7:30mins  
Week 6 Closing Words  
Quiz Week 6



## Week Seven

Introduction to Week 7  
Week 7 Handbook  
Commercial Aquaponics Mega Farms - 3.20mins  
Fish Stocking Densities - 11mins  
Commercial Nutrient Density - 15:15mins  
Commercial Nutrient Density 2 - 7mins  
Horticultural Lighting - 8:40mins  
Growing Under Lights Case Study -13mins  
Growing Under Lights- Live Local Organics Oregon -7mins  
Commercial Aquaponics Farm Owner Interview - 9:30mins  
Interview With A Commercial Designer - 24:50mins  
Interview with Leon Yeo - 9:25mins  
Introduction to Oman System - 16 mins  
Oman Pilot System Explained - 11 mins  
Oman - Using a Civil Engineer - 6.20mins  
Deciding What to Grow  
Oman Farm Produce Success - 8.05 mins  
Week 7 Closing Words  
Quiz Week 7

## Week Eight

Week 8 Introduction  
Week 8 Handbook  
How Big Should My Farm Be? - 8:10mins  
Designing for Profit 1 - 25mins  
Designing for Profit 2 - 29.50mins  
Oman Farm Designer Interview  
Case Study Manna Farms Korea 1 -22mins  
Manna Farms Korea 2- 9:40mins  
Manna Farms Korea 3 - 6mins  
Manna Farms Korea 4 - 9:45mins  
Manna Farms Korea 5 - 9mins  
Manna Farms Korea 6 -11:55mins  
Introduction to Madhavi Farm, India-12mins  
Madhavi Farm Owner Interview - 16.20mins  
Designing Madhavi Farm - Interview Arvind 16:50mins  
Greenhouse Design and Filtration- India - 16mins  
Madhavi Farm - Filtration 10mins  
Madhavi Farms - Daily Checklists  
Madhavi Farm - Solar Power System - 5mins

## Week Eight Continued

Charging Microbial Diversity -11.30mins  
Business Plan Tool - Simple 2:15  
Business Plan - Detailed 5:30mins  
Mind Mapping - 6:25mins  
Design Exercise Criteria 15:50mins  
Closing Words from Murray  
Quiz Week 8  
Design Exercise Submission

## Bonus Videos

Aquaponics Made Easy 1hr 35mins  
Aquaponic Secrets 1hr 50mins  
Aquaponics the First 12 Months - 115mins  
IBC Build - 46mins  
Airlift Pumps with Glenn Martinez -17:35mins  
Airlift Pumps in Aquaponics-14:20mins  
Home Air Lift and Compost Chamber System - 9mins

## Murray's Shorts

Murray's Story  
Murray on 60minutes  
Aquaponics Health Benefits  
Growing Massive Papaya  
Feeding A Family of Four  
The Aquaponics Diet  
Design Case Study - Philippines Orphanage  
Easy and Simple Filtration  
Solving Plant Root Problems  
The Secret To Growing Bigger Lettuce  
Compost Tea Brewer in Your System  
Feeding Your Fish Land or Ocean Catch  
Heating Your Greenhouse Over Winter  
Finding An Alternative to Fish Pellets  
Keeping New Fish Healthy  
Powering Your System with Solar  
Growing Medicinal Herbs and Plants

## Bonus Course: Fibreglass Tank Making Course

# Assessment

When the course is completed and if you wish to be certified, you will be required to submit Online, a design for an Aquaponics system.

Murray will explain all the requirements in Week 8 of the course. By then you should feel very confident you can tackle any project big or small.

You will be required to submit a design with supporting documentation.

We want you to demonstrate that you have a full understanding of what is required to build a fully functional and profitable system.

You will have 30 days after the course has finished to complete and submit your design.

If your submission is successful and you have completed the course requirements, you will be awarded an Aquaponics Design Certificate.

Each certificate is hand signed and dated by Murray Hallam and will be awarded by the Aquaponics Institute of Australia.

The original certificate will be posted to your address any where in the world.

# Why makes this course so good?

Aquaponics is a new industry. We constantly revise our content and update our course material in every online course we run as new cutting edge knowledge and improved techniques are devised.

We have students do this same course from over 48 different countries and states around the world. Even Siberia and Alaska!

We pride ourselves in showing you real aquaponic farms around the world as case studies and we share the farm owner's techniques to get a better return on their investment.

Best of all, we visit our successful student farms, some over one acre in size and share their knowledge gained so you don't make the same mistakes.

We show you various methods people employ to boost your own aquaponics system whether you intend it to be a small home system or a large farm. The methods you will learn work for home or larger commercial systems.



# Course Graduates



Leon Yeo, who has completed Murray Hallam's Aquaponics course now has gone on to design and build three large commercial aquaponic farms in mainland China, Hong Kong and Taiwan.

These are large installations, with the Chinese greenhouse currently being built, is a massive one hectare plant. The other greenhouse in Hong Kong is smaller at about 2,200 square meters.

Leon as the CEO handles the marketing and operations of all facilities. Leon says the organic market is two or three times the price of conventional food so people see opportunity. "Supply always lags demand." "A lot of people are demanding organic food but right now the supply is not getting there. One of the reasons is that a lot of people are using conventional organic cultivation methods to grow vegetables and the supply is not satisfactory to meet the demand. The cost of production is high (for regular farming), therefore it cannot attract capital." He said.

The main reasons he cited was the labor cost and the yield is not as high as conventional chemically based agriculture.

"Aquaponics does it better," he said, "because it uses less space, less labor and produces a lot of yield."

A lot of people are concerned about food safety problems and food purity issues of food grown in China. The rising middle class demand cleaner vegetables and are prepared to pay the higher prices that Aquaponics grown produce commands.

Leo says he sees great potential in aquaponics reaching a broader Chinese market at a price where everyone can afford to buy organic produce.



Highly enjoyed my stay, the workshop was informative, practical, stuff you don't get off the net, books, etc. - Bruce McConnell

# Course Graduates



Arvind Venkat, is the founder of WaterFarmers Aquaponics, a pioneering professional Aquaponic system design consulting group, which is dedicated to providing turnkey solutions for Aquaponics as a sustainable food production system around the world.

A graduate of Murray Hallam's aquaponics courses, Arvind has gone on to build commercial systems in Canada, India, Oman, Bahrain and Hong Kong. "We have about 12 farms so far," he said, "and we're planning our thirteenth now." "We've done hybrid

systems, media beds, floating raft, deep water culture, wicking beds and we're trying out verticals as well."

When asked about jobs in Aquaponics, Arvind says there is a strong future for good designers in Aquaponics. "It's not an easy lifestyle." He says, "There's a lot of traveling that goes with it. A lot of hard work and a lot of team work."

Arvind has about 12 people dispersed around the world that consult with his company designing Aquaponics systems. "Back home in Canada we have a group of four people."

"Together, we've managed to come up with this business model that can really cut it." He said. "I would encourage anyone that wants to take this on because we need more people who are designing good systems around the world."

"But I strongly, suggest that people first build their own farms, build their own systems first, develop themselves up in scale. Don't go out there and start developing a ten acre farm right off the back."

"We've built R & D systems and we've run them for four to six years before we've committed to anything commercial and we still R & D to get the answers into the future." He said.



# Course Graduates



MannaBox partners Taeyoung Jeon and CEO Aaron Park

Back in 2014, two young Korean students, Aaron Park an industrial design student and his friend and business partner Taeyoung Jeon attended one of Murray Hallam's Aquaponics courses held on his farm in Brisbane Australia. They had already experimented with Aquaponics in their parents basement but wanted to learn more.

In class they were both polite but very quiet asking only a few questions. Murray Hallam was worried that they did not sufficiently understand his Australian accent.

He needn't have worried because within three years, both partners had taken the Aquaponics concept and spread it over six large greenhouses in central Korea building a brand known as MannaBox CEA.

With an Internet user base of over 10,000 subscribers to their lettuce in a box system, they quickly established a turnover of over \$1.2 Million US dollars per

month! Growing over 40 different vegetables they quickly diversified into boutique pesto in a bottle sauce mixes, relishes as well as other ideas like packaging Kale for the home juicer market.

The company has grown and employs over 60 full time staff and have a modern dining kitchen that feeds all staff very healthy and nutritious meals.

Different greenhouses are used to grow different produce. They have a greenhouse that only grows Kale based on wicking beds fed by fish waste. There is also a special nursery seedling greenhouse. The partners are also looking at growing eels as an exotic delicacy for the Korean market rather than low end value fish.

Korea would not be without automated electrical innovations that keep the greenhouse at a stable temperature over winter when temperatures can plummet to minus 20 degrees centigrade. The glasshouse have a bevy of triple layered shade cloth that automatically traps heat in over winter as well as automatically venting the enclosure over summer. Ironically the large volume of water always in play helps keep the farm stable over the changing seasons.

Because South Korea imports close to 90% of it's food requirements, MannaBox have seen remarkable expansion in their company growth. So much so that young people from the cities have gone back to farming in the rural area of Lwol-Myeon where their aquaponics farms are now based.

CEO Aaron Park explained that its not unusual to see growth in demand of 19% each month.



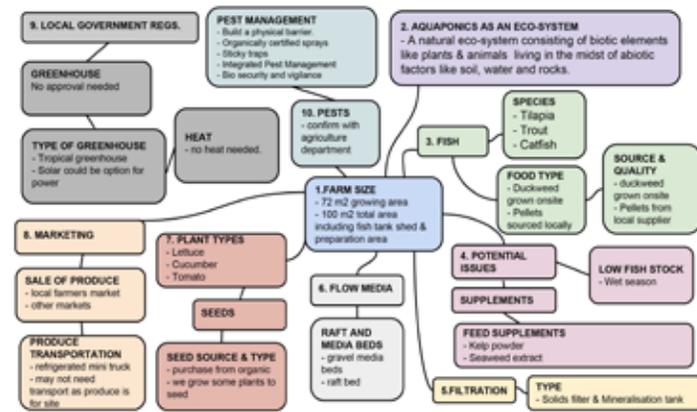
MannaBox staff with Murray Hallam

# Example of Student Designs

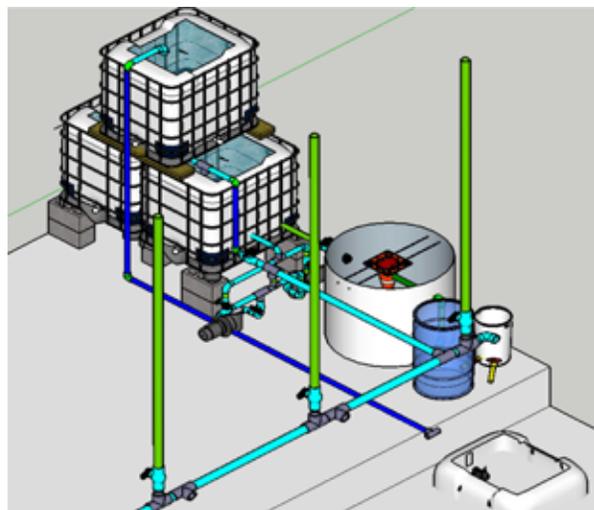
An Aquaponics Course is only as good as the students it produces. Here are some examples from our 2017 Online course student submissions.

Assessing designs is always a treat for Murray Hallam to ensure that students have understood the course and are confident in designing their own systems.

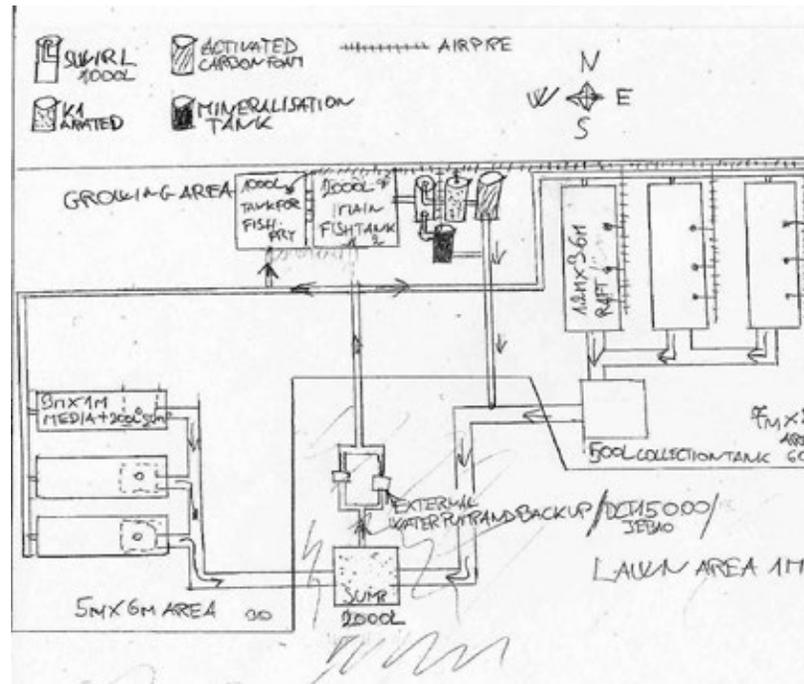
You don't have to be proficient in expensive CAD drawing or architectural visualization software. A simple pencil and paper sketch is sufficient for assessment that demonstrates your understanding of water flows and system design.



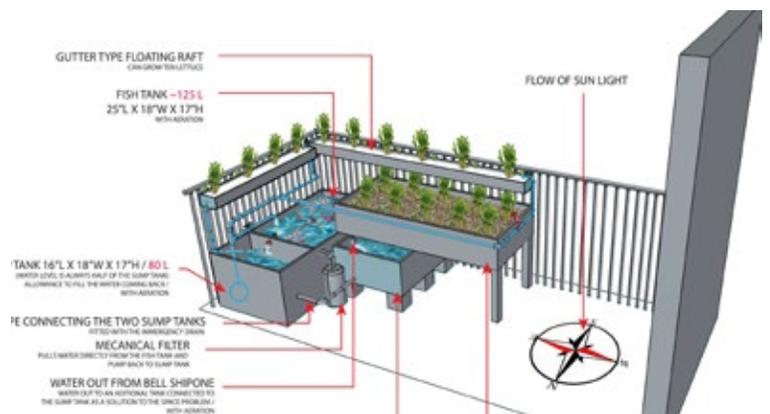
An initial student mind-map is designed to get your creative juices flowing.



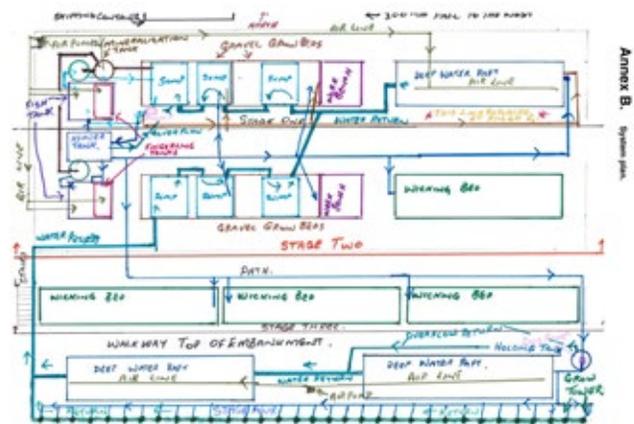
A student design using Google Sketch-Up software.



A student design pencil sketch for a large home system.



A student design for a Hong Kong Hi-Rise apartment.



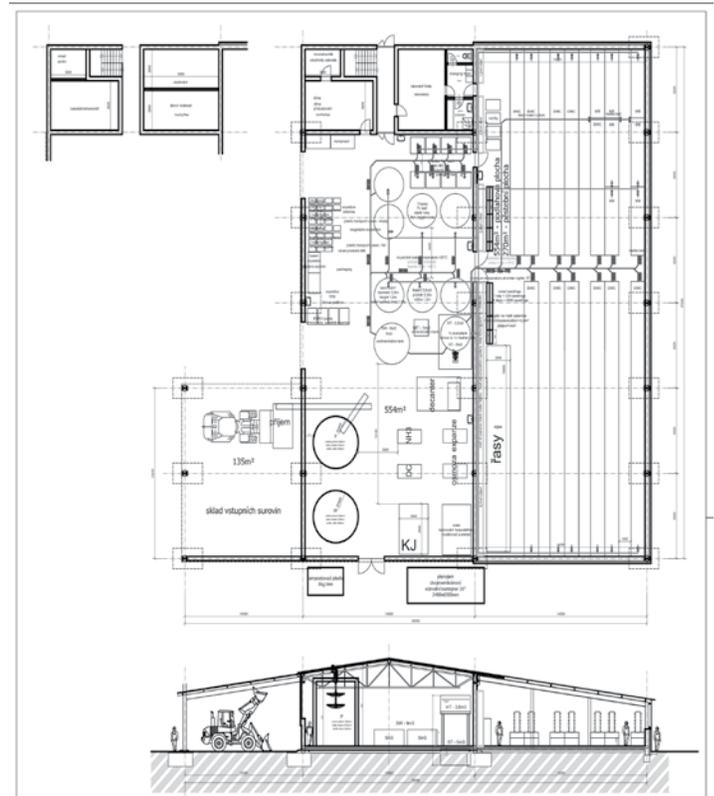
A more elaborate student design.

“As a professional educator (and head of evaluation and research for a 100-year-old non-profit education group in the US), I was quite impressed with Murray’s teaching style. His pacing, presentation and camera management was excellent and the length of his modules was perfect - especially for adult learners.

- Joe Thomas, Colorado USA

# Like our Facebook Page

Over 600,000 people like our Facebook Page! Like our page to stay up to date with the latest course developments and aquaponic activities around the world <https://www.facebook.com/AquaponicsDesign/>



An aquaponics student's design submission for a commercial aquaponics farm .

## Testimonials

We like to gauge feedback from all our students who complete the course and seek their evaluation.

"I have loved this course, the videos and the plans. I have learned everything I need to build and maintain any size system. It was great to be part of a large group of like minded students who I could communicate with and gain further insights from them."  
- Jeremy Hill, NSW, Australia

"I love this online course and I can highly recommend it. The course is easy and very intuitive."  
- Louis Freddy Carnel, Mauritius

"Do not let the price tag of this course intimidate you, it is worth every penny and more due to the quality and quantity of information and experience that is provided through the instruction. I have taken numerous online courses from a myriad of college, business and government sources, but none of them have matched up to the quality of this course."  
- James K. Mick, Iowa USA

"Every video and every element of this course opened my eyes to the Aquaponics system, I was excited before about getting serious about aquaponics but now I can't wait to build my systems at home and commercially. Fantastic course."  
- Mathew Peters, Australia

"As I beginner to aquaponics, I feel comfortable that I could easily go out and start building a home level system and grow into building larger systems in time. The Course gives you all the building blocks to keep you on the right path on building a successful aquaponics system without the trial and error that would come from just exploring the internet. Getting the correct information all in one place and seeing Murray's years of experience brings it all together for me."  
- Paul Saitta, Texas USA

"The Aquaponics Design Course is a very complete course for both beginners as for advanced aquaponic enthusiasts. Murray has a fun way of teaching and is very quick in answering every question you ask during the course. Beware: once you start this course you will become an aquaponic addict!"  
- Linda Grotenbreg, The Netherlands

"I have no hesitation in highly recommending this course to anyone who wishes to understand aquaponics, be it for home use or commercial. This course is of high value and the content first class and if like myself, you have had difficulty in attending a normal training session, then this is definitely the way to go."  
- Kevin Rice, Victoria Australia



By far the most professional and well- structured course I personally have ever done online. Not just about Aquaponics. Thankyou !!  
- Karel Jan Fourie, Malaysia (Sabah)

# Yes! Sign me up! I'm ready to Begin!

## Ready to Start?

Because this is an interactive course, we are only taking limited numbers of students. Students are taught by Murray Hallam in a **8-Week Aquaponics Design Course** that has a number of weekly video lessons that will teach you the basics of design, right up to mid-system and beyond to full dynamic commercial aquaponics systems.

## Is this an Evergreen Course?

No. You are encouraged to ask questions and interact with Murray Hallam after each video lesson. Common questions will be answered Online with weekly conference calls where questions can be answered in a live seminar.

## What is the price of the Course?

USD \$997. We accept Stripe and Paypal payment.

## When does the Course start?

Student registrations start on the 6th October. People will have a week to enrol but can immediately watch the first week's lessons. The course will officially start a week later and will end on 1st December 2019. You will have an additional 4 weeks to submit your design for certification by 1st January 2020. You will also have access to all course material for 1 year after the course starts.

## Where do I sign-up?

[www.aquaponicsdesigncourse.com](http://www.aquaponicsdesigncourse.com)

**Need Help? Contact our Support staff at:**

[support@aquaponicsdesigncourse.net](mailto:support@aquaponicsdesigncourse.net)

## Bank Information

We recommend you notify your bank that you are going to make a payment to the Aquaponics Design Course as we are located in Australia.

We use Stripe and Paypal to receive your payment, so your account details are always safe and secure.



## Murray Hallam's Aquaponics Design Course

✓ <b>8 x Week Aquaponics Design Course</b>	\$1495
Aquaponics for Beginners Mid System Design Commercial Aquaponics Design	
✓ <b>Aquaponics Triple Pack DVDs</b>	<del>\$120</del>
Aquaponics Made Easy Aquaponics Secrets DIY Aquaponics	
✓ <b>Bonus Fibreglass Tank Course</b>	<del>\$500</del>
✓ <b>Indy 11.5 Plan Set</b>	<del>\$197</del>
✓ <b>Weekly Course PDFs</b>	Included
✓ <b>Design Assessment Weekly Conference Calls</b>	Included
✓ <b>Certification</b>	Included
✓ <b>Commercial Aquaponics Financial Spreadsheets</b>	Included
✓ <b>Access to over 100 instructional video lessons</b>	Included

**USD \$997**

**Registration opens 6th Oct. 2019**

**course runs from 6th Oct. 2019 - 1st December 2019**

**You will have access to all Course materials for 1 year**

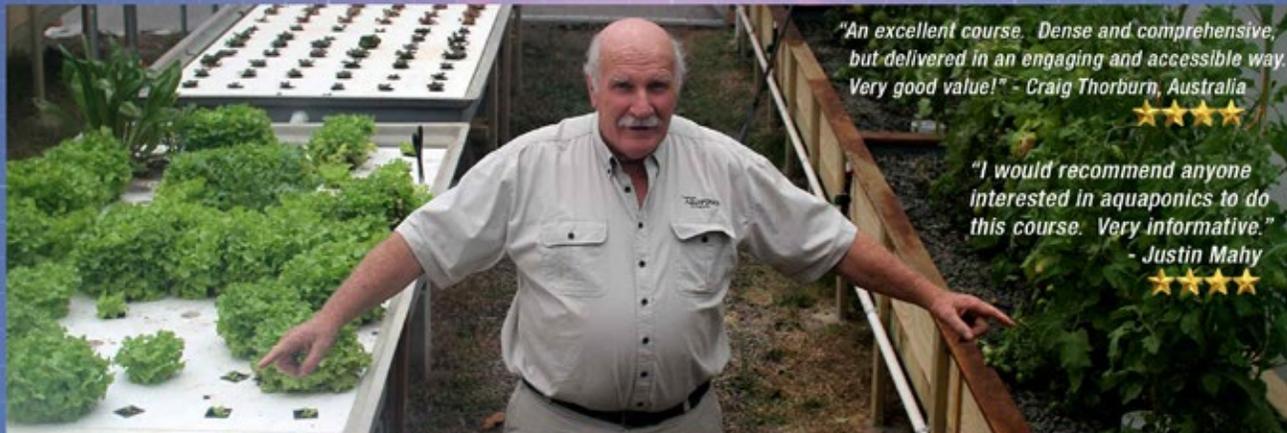


Murray is a fantastic teacher and world class expert who is unparalleled in his field. - JD Messinger. USA

"Thank you, Murray, for your selfless sharing of all things related to aquaponics. Keep up the great work!" - Han Ong, Singapore

# Learn Aquaponics

## 8-Week Online Course with Murray Hallam



"An excellent course. Dense and comprehensive, but delivered in an engaging and accessible way. Very good value!" - Craig Thorburn, Australia



"I would recommend anyone interested in aquaponics to do this course. Very informative." - Justin Mahy



## Home, Small Farm to Commercial Systems

- ✓ Aquaponics Basics
- ✓ Small System Design
- ✓ 8 Week Course
- ✓ Money Back Guarantee
- ✓ Small Farm Design
- ✓ Weekly Live Webinars
- ✓ Fish Management
- ✓ Plant Management
- ✓ Mid Systems For Profit
- ✓ Feeding a Family of Four
- ✓ Plumbing Parts Explained
- ✓ 4 Kits Plans you can Build
- ✓ Indy 11.5 Design
- ✓ FloMedia Design
- ✓ Solving Plant Deficiencies
- ✓ Dynamic Video Lessons
- ✓ Commercial Aquaponics
- ✓ Aquaponics Certification
- ✓ Case Studies
- ✓ Over 100 Video Lessons
- ✓ Flow Rate Calculators
- ✓ Weekly Course PDFs
- ✓ Design Assessment
- ✓ Bonus Fiberglass Course

Murray Hallam is the leader in Aquaponics education. He has conducted Aquaponics Design Courses right around the world. Now for the first time, he is Online in a special Aquaponics event to teach you how to design and build your own profitable system for home, community and commercial systems. Murray's students have gone on to build amazing Aquaponics systems in Hong Kong, Oman, China and Canada.

### 6th October - 1st December 2019

Murray Hallam's  
**Aquaponics Design Course**

[aquaponicsdesigncourse.com](http://aquaponicsdesigncourse.com)

