

Approach of Stellenbosch University in promoting aquaculture education in Africa

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South Africa

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Stellenbosch University





Stellenbosch University



Founded in 1916

11 x Faculties:

- Science
- AgriSciences
- Engineering
- Business Administration

Ranking:

- Global (THE) ≥ 300
- BRICKS ≥ 20
- Africa 1st

- Undergraduate 18 700
- Post graduate students 9 600
 - MSc 4 735
 - PhD 1 331
- Academic staff 1 329
 - PhD qualified (76%) 1 003
- PG student per Ac/staff 1.36
- Publication per Ac/staff 2.32



Faculty of AgriSciences



Programmes

- Animal Production
- Agriculture Economics
- Conservation Ecology
- Crop Production
- Food Science
- Forestry & Wood Science
- Viticulture & Oenology



Aquaculture Education in South Africa

Number of Universities:

22

Aquaculture:

- Undergraduate (Major, x1)
- Post Graduate (x3)

Stellenbosch

Rhodes University

University of Limpopo

Stellenbosch

Other institutions:

None

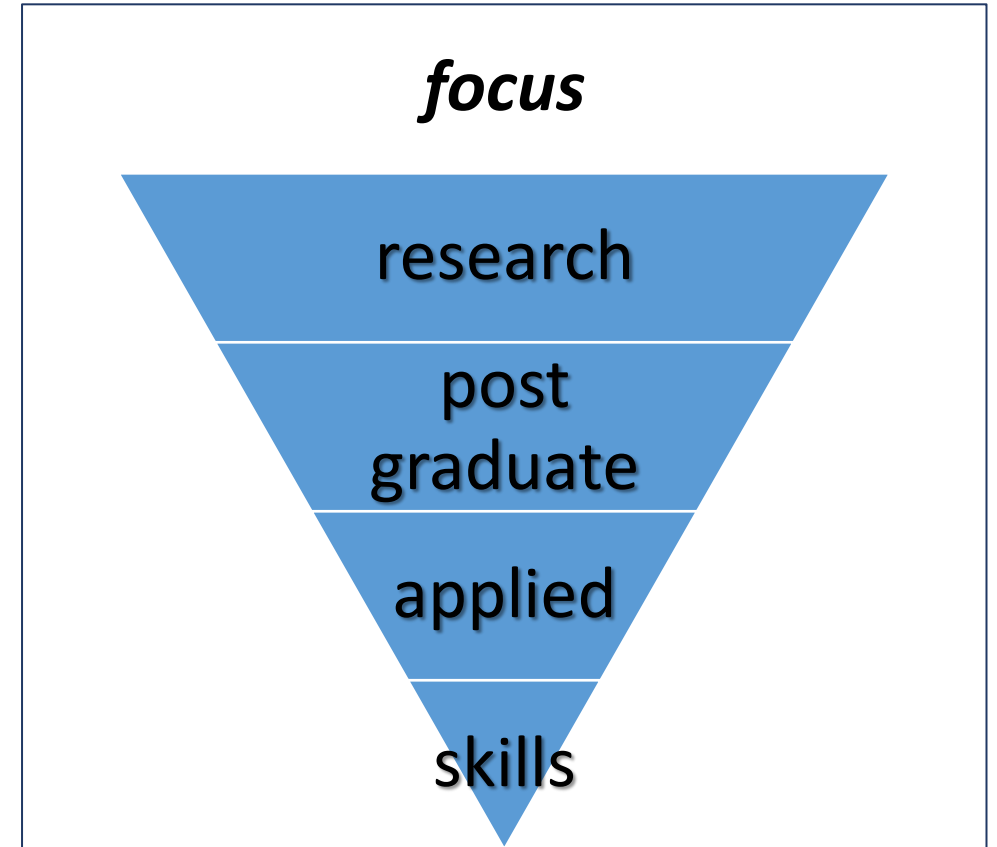
SADEC:

None?

Background to Aquaculture Education in SA

History

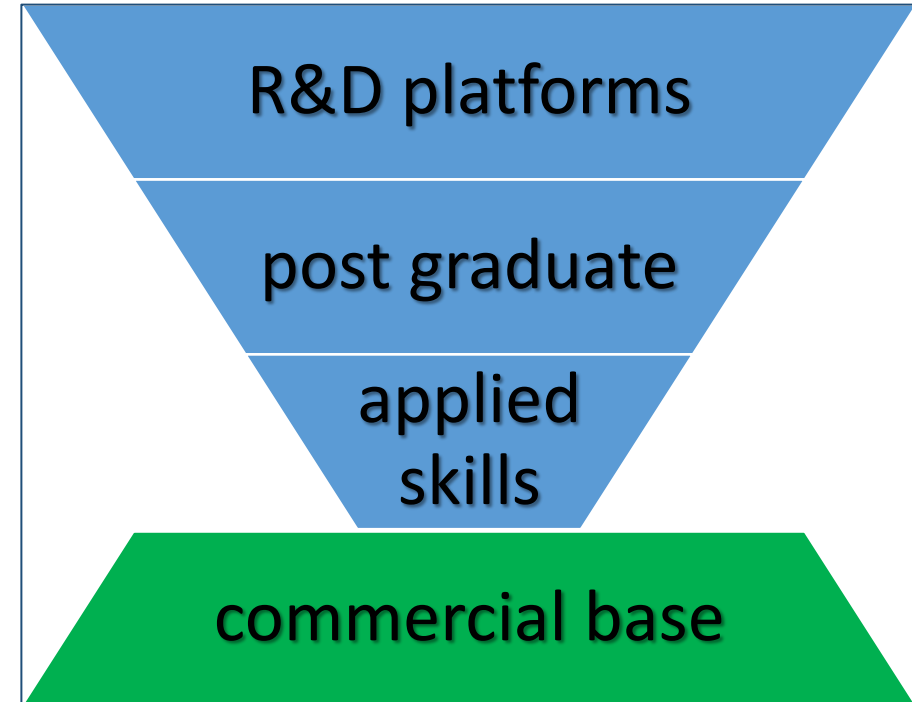
- Young industry
- 1980's
- University based R&D
- Research led
- Entrepreneurial approach
- Limited government involvement
- Small scale enterprises



Background to Aquaculture Education in SA

History

- 1990's
- Established R&D platforms
- Large commercial enterprises
- Market orientated
- Value chain approach
- Lack of human resources



Aquaculture Education at SU

- **Multi level:**

- Short courses
- Certificate (1 year)*
- BSc Agric (4 year)
- Post graduate diploma*
- Masters
- PhD

- **Across Disciplines/Value Chain**

- **Major:** Physiology
Ecology
Nutrition
Husbandry
Health management
Post harvest
- **Minor:** Economics
Management
Conservation
Animal science

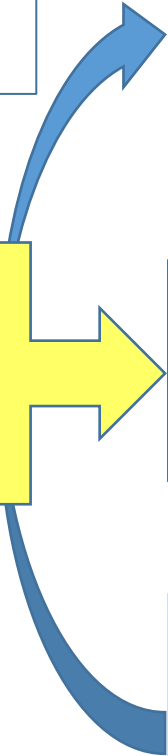
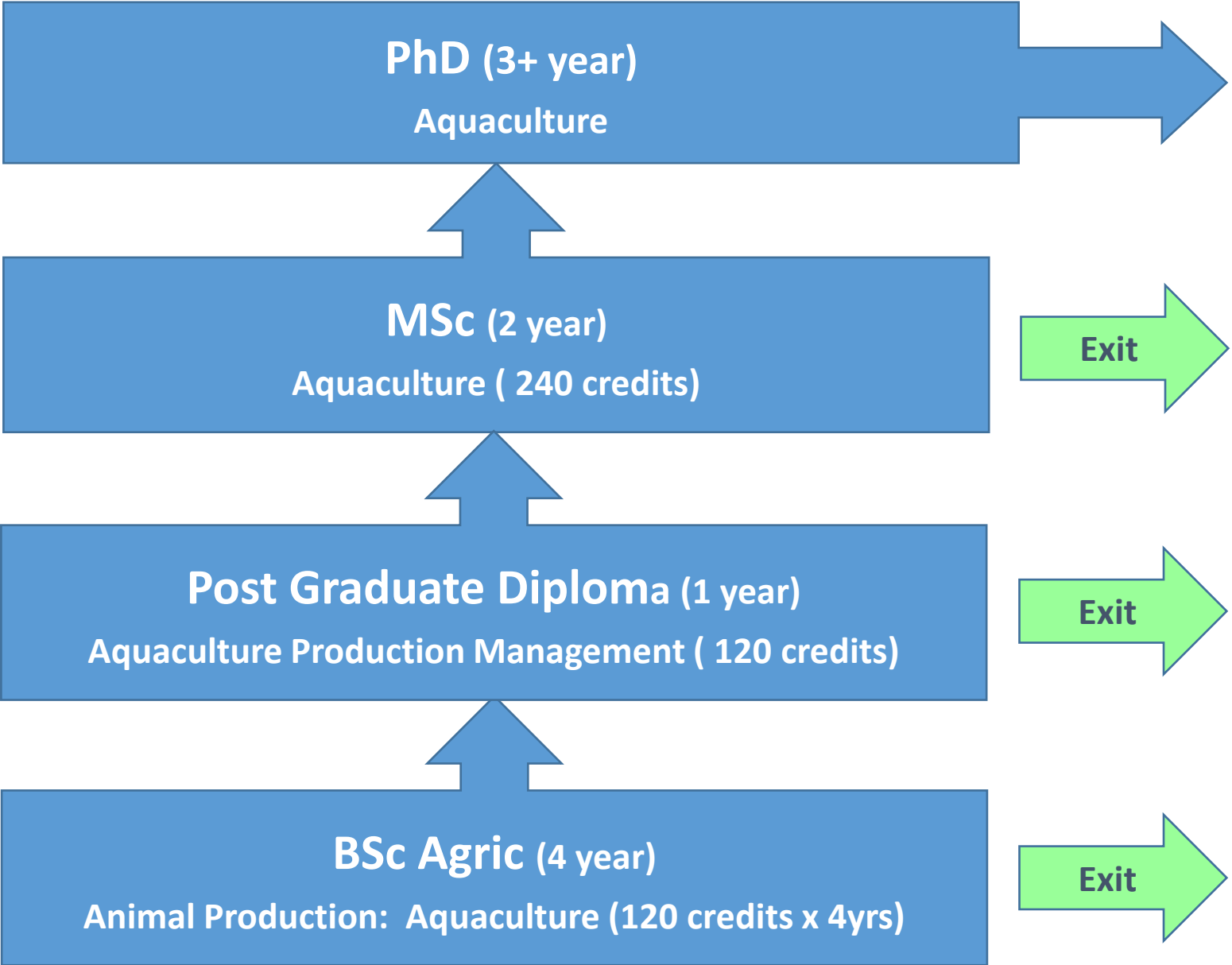
* Distance learning option

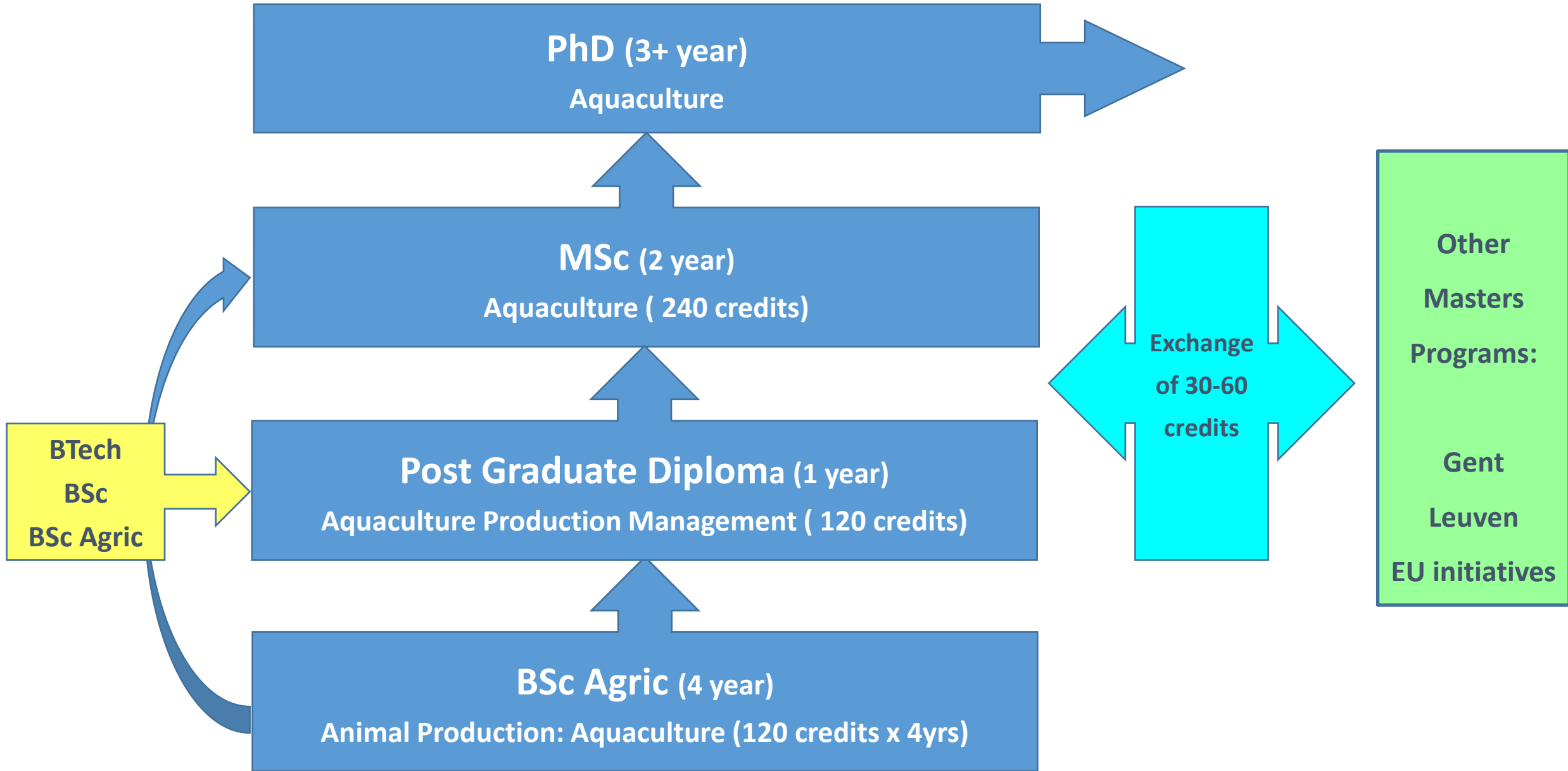
Aquaculture Education at SU

- **Student mobility/access:**
 - Backgrounds
 - Levels (B degrees)
 - Regional (SADEC)
 - International (African/Global)

1. BSc Aquaculture can promote directly into MSc-program
2. Diploma modules/credits can form part of MSc program
3. MSc options
 - Research = 240 credits
 - Taught = 120 – 180 cr

<ul style="list-style-type: none"> • No prior aquaculture • Other institutions • Other levels 	BTech
	BSc
	BSc Agric





Facilities: Welgevallen Recirculation Systems



Facilities: Jonkershoek Trout Research Station



Species

Freshwater

- Trout
- Catfish
- Tilapia
- Ornamental



Marine

- Oyster
- Mussels
- Abalone
- Kob
- Yellow Tail



Conclusion

- Focus on disciplines / value chain
- Multiple levels
- Distance learning
- Student mobility / access: African = 9 MSc + 6 PhD
- Outcome based:
 - Production
 - Management
 - Research
- Networks:
 - Africa
 - International
- Info: www.sun.ac.za/agric/aqua

PG Students in Aquaculture

