

QUO VADIS, PHILIPPINE HIGHER EDUCATION IN AGRICULTURE?

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Functions of Education?

LEVEL	PURPOSE?
Kindergarten	To control temper tantrums
Elementary	To take on adult responsibilities
Secondary	To be productive member of community
Undergrad.	To become professional
Master's	To become effective & efficient manager and decision maker
Doctorate	To generate new knowledge
Post-Doc	To reconsider new knowledge you generated

REAL FUNCTIONS OF HIGHER EDUCATION

PROVIDE ACADEMIC LEADERSHIP

- Highly trained faculty
- Sophisticated original research rigorously reviewed & published in international journals
- Quality graduate education
- Selective undergraduate education

PROVIDE PROFESSIONAL DEVELOPMENT

Prepare individual for specific job market that requires advanced, extensive formal education.

PROVIDE TECHNOLOGICAL TRAINING AND DEVELOPMENT

Today's professionals working in today's work environment must have technological skills (theory and practice) to perform well.

PROVIDE GENERAL EDUCATION

General education trains individual to perform professionally under various and changing work environments.

TRENDS IN HIGHER EDUCATION

CHANGING DEMOGRAPHICS

YEAR	CHARACTERISTICS OF STUDENTRY
1970	48% late 20s & older 40% Ethnic minorities
1977	60% Ethnic minorities
1980	63% late 20s & older
1986	30% women sector

Implications of Changing Demographics

Higher Education Institutions need to provide more opportunities for life-long learning.

SHIFTING STUDENT SUPPORT SERVICES

Adult learners are more sophisticated, more choosy, more demanding, more experienced.

Need for: more effective and efficient support services.

TREND TOWARD COLLABORATIVE ARRANGEMENTS

- **Consortium Arrangements**
- **Vocational Certification Programs**
- **Transnational Education**

FUNDING SHIFT (Public to Private)

- Increasing Student Population
- Decreasing public funding

LEARNING PARADIGM SHIFT

Teachers becoming facilitators of learning;

Students taking responsibility for their own learning.

IMPLICATIONS

HEIs must provide opportunities and facilities for:

Teachers to improve skills as facilitators of learning;

Students to learn on their own.

GENERAL STATE OF HIGHER EDUCATION IN AGRICULTURE IN THE PHILIPPINES

Degree Programs in Agriculture

9.9% (170/1,800) of HEIs offering degree programs in agriculture.

HEIs Offering Undergraduate Programs

B/BS Ag Tech	87 (51.2)	BS Ag Econ	8 (4.7)
BS Agriculture	80 (47.1)	BS Ag Ext	5 (2.9)
BS Ag Educ	43 (25.3)	BS An Sci	3 (1.8)
BS Ag Eng'g	38 (22.4)	BS Ag Chem	3 (1.8)
BS AgriBusiness	31 (18.2)	BS Agronomy	2 (1.2)
BS Home Tech	24 (14.1)	BS Ag Dev't.	2 (1.2)
BS Food Tech	18 (10.6)	BS Tech & Hort Mgt	1 (0.6)
BS AnHusb/Tech	10 (5.9)	BS Agroforestry	1 (0.6)

Graduate Program (Master's)

MS, Agriculture	15 (8.8)	MS Agroforestry	2 (1.2)
MS/MA Ag Ed	10 (5.9)	MA Teaching Ag	2 (1.2)
MS Ag Ext	7 (4.1)	MS Horticulture	2 (1.2)
MS Agronomy	5 (2.9)	MS Agribusiness	2 (1.2)
MS AnSci/Husb	5 (2.9)	MA Ag Econ	2 (1.2)
MS Crop Science	4 (2.4)	M Ag Dev't.	2 (1.2)
M Ag Tech Ed	3 (1.8)	M Agriculture	2 (1.2)
MS Ag Eng'g	3 (1.8)	MS Farming Syst	1 (0.6)
		MS Ag Mgt	1 (0.6)

Graduate Program (PhD)

PhD, Agric/Agric'l Science	5 (2.9)
PhD, Ag Educ/Extension	3 (1.8)
PhD, Agroforestry	1 (0.6)
PhD, Ag Engineering	1 (0.6)

QUICK OBSERVATIONS

- **Some vague titles/nomenclature**
- **Too many specific titles with related content**
- **Most programs not common to most HEIs**

ISSUE:

What are the scientific, disciplinary, philosophical, and practical considerations for the varied curricular nomenclature?

GENERAL ISSUES IN PHILIPPINE HIGHER EDUCATION IN AGRICULTURE

UNDERGRADUATE CURRICULAR PROGRAMS

- **Agriculture is integrative science**
- **Courses should be multi-disciplinary**

GOAL OF UNDERGRADUATE CURRICULUM

To train generalists in agriculture, not specialists in specific disciplines.

ISSUES ON GRADUATE CURRICULA

MASTER OF SCIENCE Programs

Are graduates knowledgeable about what exactly science is?

DOCTOR OF PHILOSOPHY Programs

Are graduates familiar with the philosophy of science?

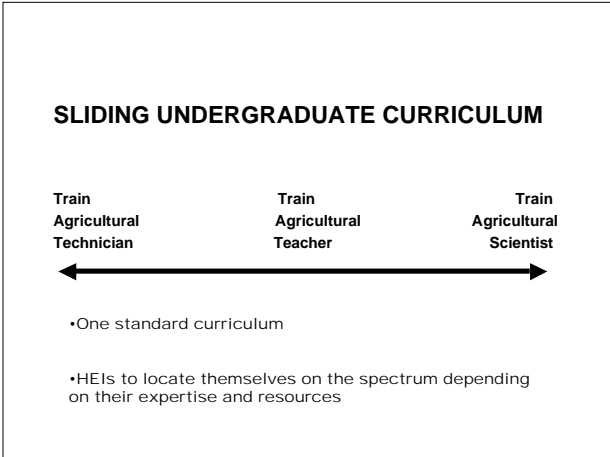
DELIVERY SYSTEM FOR INSTRUCTION

- Full F2F classroom mode
- Full distance learning mode

- **Podcasting** audio broadcasting using Apple's iPod technology
- **Vodcasting** video-on-demand plus podcsting

**TOWARDS BLENDED STRATEGY
OF LEARNING**

**DIRECTIONS FOR PHILIPPINE HIGHER
EDUCATION IN AGRICULTURE**



GE at the Graduate Level

Level	Course Required of All
Master's	Sociology of Science or Sociology of Knowledge
Doctorate	above-mentioned course/s AND Philosophy of Science

TOWARD BLENDED DELIVERY OF INSTRUCTION

IMPLICATIONS

- Wider access to upgraded library holdings
- Access to the Internet on campus
- 24/7 access to expertise (faculty), at least electronically
- Opportunities to apply knowledge newly learned
- F2F or virtual intellectual interaction at any time

CONCLUDING STATEMENTS

- We have a vague idea about what's going on in higher education in agriculture in the country.
- We need to understand how Filipinos perceive higher education in agriculture.
- **Trend and Public Perception Study of Philippine Higher Education in Agriculture**

Thank You