

El número de página corresponde a la página del texto en el ordenador, no a la página real del texto porque la portada no está numerada, por tanto en la página del texto sería un número de página menos.

(Page 11)

Graph 1. Structure and distribution of credits in the Pharmacy curricula in Spain.

Credits

University

FCS (free curricular structure)

Optional

Obligatory

Core

(Page 12)

Graph 2. Themed areas proposed by the Consultative Committee for the Training of Pharmacists (1994)

THEMED AREAS

AREA 1 CHEMISTRY

AREA II PHYSICS & MATHEMATICS

AREA III BIOLOGY

AREA IV PHARMACY & TECHNOLOGY

AREA V MEDICINE & PHARMACOLOGY

AREA VI LEGISLATION & SOCIAL PHARMACY

(Page 43)

Figure 1

1st cycle

1st year *Concours*

Two months period in RP

2nd year

2nd cycle

3rd year FCB + optional UV or certificate MSBM

4th year FCB + optional UV or certificate MSBM

3 rd cycle	6 th year	<i>Concours</i>
DEA if MSBM acquired	6 months of teaching	Residency
DESS DU	6 months of work experience	Beginning of the 6 th year
+ 2 to 4 years University	Essay about work experience	4 years residency
Doctorate	State	DES
5 th year		Dissertation, Thesis
Hospital – University	Beginning of the 5 th year	

(Page 56)

Graph 5

PRE-REGISTERED STUDENTS BY 1ST AND 2ND OPTION

Faculty of Pharmacy

(Page 58)

Está debajo de la Table 20:

Level of satisfaction of pre-registered students= $\frac{1^{\text{st}} \text{ Option Admitted Students}}{1^{\text{st}} \text{ Option Pre-registered Students}}$

Option Pre-registered Students

Level of satisfaction of admitted students= $\frac{1^{\text{st}} \text{ Option Admitted Students}}{\text{Total Admitted Students}}$

Admitted Students

(Page 62)

Graph 9

Autonomous Health Authority

Director SCS

Technical Cabinet

Inspection and evaluation

Accreditation and Conc

General Secretariat

Occupational Safety

IP Pharmacy

General Management (GM): Public Health

Environmental Department

Food Safety Department

Epidemiology

Pharmaceutical Office

General Management (GM) Economic Resources

General Management (GM) Human Resources

General Management (GM) Clinical Planning

Primary Health Care

Specialized Care

CENTRAL BODIES

DISTRICT BODIES

DISTRICT HEALTH AUTHORITY

PRIMARY HEALTH CARE

HOSPITAL MANAGEMENT

(Page 67)

Graph 11:

CIVIL SERVICE POSTS

European Union

Central Government

Autonomous State Government

Local Government

Teaching

Diplomatic corps

Armed Forces

Inspectorate

Research

(Page 77)

TABLE 31

PROFESSIONAL ACTIVITIES OF AEFI MEMBERS

Registration

Technical Manager

Quality Control

Production

Technical Management
Quality Certification
Research
Marketing
Clinical Trials/Pharmacovigilance
Galenic Development
Medical Department
Management
Documentation
Institutional Relations
Business Development

Departments of the Industry

University
Advisers
Administration
Retail Pharmacy
Professional Associations
Others
Other activities
Without specifying department
Retired Pensioners
No employment data available
Pensioners/without employment data
Total
Others:
Foundations
Hospital Pharmacy
Engineering
Maintenance
Biotechnology
Planning
Assistants
Etc.

Graph 12 Employment activities of AEFI members

Professional Activities Of Members

Departments of the Industry

Other activities

Pensioners/without employment data

Departments of the Industry

Registration

Technical Manager

Quality Control

Production

Technical Management

Quality certification

Research

Marketing

Clinical Trials/Pharmacovigilance

Galenic Development

Medical Department

Management

Documentation

Institutional Relations

Business Development

Other Activities

University

Advisers

Administration

Retail Pharmacy

Professional Associations

Others

(Page 80)

Graph 13: **(dentro del histograma)**

RP: Retail Pharmacy;

HP: Hospital Pharmacy;

I+Dist.: Industry and Distribution;

CL & PH: Clinical Laboratories and Public Health

Others

TABLE 45

PROFESSIONAL PROFILE. TRANSVERSAL AREAS OF COMPETENCE
(GENERAL)

IMPORTANCE LEVEL

INSTRUMENTAL AREAS OF COMPETENCE

Capability of applying knowledge in practice

Problem solving

Decision making

Information management skills

Research skills

Basic knowledge of the profession

Oral and written communication skills in the mother tongue

Capability of organizing and planning

Computing skills related to the field of study

Capability to analyse and synthesize

Knowledge of a second language

CF: Community Pharmacy (151); HP: Hospital Pharmacy; ID: Industry and
Distribution; ACAD: Lecturers; Weighted Mean (151 CF+16HP+31ID and 198

TABLE 46

PROFESSIONAL PROFILE. TRANSVERSAL AREAS OF COMPETENCE
(GENERAL)

IMPORTANCE LEVEL

PERSONAL AREAS OF COMPETENCE

Ethical commitment

Teamwork

Capability of communicating with people who are not experts

Critical reasoning

Capability of working in an interdisciplinary team

Interpersonal skills

Appreciation of diversity and multiculturality

Ability to work in an international context

CF: Community Pharmacy (151); HP: Hospital Pharmacy; ID: Industry and
Distribution; ACAD: Lecturers; Weighted Mean (151 CF+16HP+31ID and 198

TABLE 47

PROFESSIONAL PROFILE. TRANSVERSAL AREAS OF COMPETENCE

(GENERAL)

IMPORTANCE LEVEL

SYSTEMIC AREAS OF COMPETENCE

Learning capability

Concern for quality

Capability for adapting to new situations

Success motivation

Initiative and entrepreneurial spirit

Creativity

Independent learning

Leadership

Knowledge of other cultures and customs

CF: Community Pharmacy (151); HP: Hospital Pharmacy; ID: Industry and Distribution; ACAD: Lecturers; Weighted Mean (151 CF+16HP+31ID and 198

(Page 127)

Graph 22

Level; Importance

Applying in practice

Problem solving

Decision making

Research skills

Management capability

Basic knowledge

Oral communication

Organization capability

Computing skills

Capability to analyse

Knowledge of other language

Graph 23

Ethical commitment

Teamwork

Capability of communicating

Critical reasoning

Teamwork

Interpersonal skills

Diversity

International context

(Page 128)

Graph 24

Learning capability

Concern for quality

Adaptability

Success motivation

Entrepreneurial spirit

Creativity

Independent learning

Leadership

Other cultures

TABLE 49

PROFESSIONAL PROFILE. TRANSVERSAL AREAS OF COMPETENCE

(GENERAL)

IMPORTANCE LEVEL

INSTRUMENTAL AREAS OF COMPETENCE

Basic knowledge of the profession

Capability of applying knowledge in practice

Computing skills related to the field of study

Decision making

Problem solving

Information management skills

Capability of organizing and planning

Oral and written communication skills in the mother tongue

Capability to analyse and synthesize

Research skills

Knowledge of a second language

TABLE 50

PROFESSIONAL PROFILE. TRANSVERSAL AREAS OF COMPETENCE

(GENERAL)

IMPORTANCE LEVEL

PERSONAL AREAS OF COMPETENCE

Ethical commitment

Teamwork

Capability of communicating with people who are not experts

Interpersonal skills

Capable of criticism and self-criticism

Capability of working in an interdisciplinary team

Ability to work in an international context

Appreciation of diversity and multiculturality

TABLE 51

PROFESSIONAL PROFILE. TRANSVERSAL AREAS OF COMPETENCE

(GENERAL)

IMPORTANCE LEVEL

SYSTEMIC AREAS OF COMPETENCE

Learning capability

Concern for quality

Success motivation
Independent learning
Capability for adapting to new situations
Creativity
Knowledge of other cultures and customs
Leadership

(Page 152)

Table 55

University

Core subjects

Compulsory

Optional

FCS

Mean

Standard deviation

Percentage %

Graph 28

RAW DATA

USEFUL INFORMATION

KNOWLEDGE

Table 56

CLASSIFICATION IN THEMED AREAS OF THE SUBJECTS INCLUDED IN THE 1990
GUIDELINES

AREA I (Chemistry)	AREA II (Physics & Mathematics)	AREA III (Biology)	AREA IV (Pharmacy & Technology)	AREA V (Medicine & Pharmacology)	AREA VI (Legislation & Social Pharmacy)
-Physical Chemistry -Inorganic Ch -Organic Ch - Pharmaceutical Ch Analytical Techniques	-Applied Physics -Applied Mathematics	-Plant Biology and Pharmacognosy -Biochemistry -Microbiology -Parasitology	-Biopharmacy and Pharmacokinetics -Pharmaceutical Technology	Physiology/pathology -Morphology and function of the human body -Biological analysis and laboratory diagnosis -Pharmacology and clinical pharmacy -Immunology -Nutrition and food science -Toxicology	-Management and Planning -Legislation and Ethics -Public Health*

Table 57

THEORY

AREA I

- Physical Chemistry
- Inorganic Chemistry
- Organic Chemistry
- Pharmaceutical Chemistry
- Analytical Techniques

AREA II

- Applied Physics and Physical Chemistry
- Applied Mathematics

AREA III

- Plant Biology and Pharmacognosy
- Biochemistry
- Microbiology
- Parasitology

AREA IV

- Biopharmacy and Pharmacokinetics
- Pharmaceutical Technology

AREA V

- Morphology and function of the human body
- Physiopathology
- Pharmacology and clinical pharmacy
- Toxicology
- Nutrition and food science
- Immunology
- Biological analysis and laboratory diagnosis

AREA VI

- Management and Planning
- Legislation and Ethics
- Public Health

(PAGE 155)

TABLE 58

PRACTICAL (**todo lo demás es como la tabla 57**)

TABLE 59

TOTAL (**todo lo demás es como la tabla 57**)

(PAGE 158)

TABLE 60

MEAN VALUE

THEORETICAL

PRACTICAL

TOTAL

TOTAL (to two decimal points)

(todo lo demás es como la tabla 57)

(Page 164)

TABLE 58

PROPOSAL FOR 75% COMMON TRAINING CONTENT (CORE)

AREA

SUBJECT

ECTS

% IN SPAIN

% IN EUROPE

Chemistry

Mathematics / Physics

Biology

Pharmacy / Technology

Medicine / Pharmacology

Legislation / Social Pharmacy

TABLE 59

DISTRIBUTION OF THE SUBJECTS INTO AREAS

AREA	SUBJECT	PERCENTAGE	COUNTRY
	Chemical Sciences		Ireland-Germany
	Mathematics / Physics		United Kingdom
	Biological Sciences		Holland-Spain
	Pharmacy and Technology		France-Greece
	Medicine and Pharmacology		France-Italy-Holland
	Legislation and Social Pharmacy		