



# International Credential Evaluation: Why it matters and its role in the data ecosystem?

PESC Fall 2018 Data Summit

17-19 October

San Francisco

Margit A. Schatzman





# Educational Credential Evaluators, Inc.

We serve... people who have completed part or all of their education outside of the United States so that their educational qualifications are properly recognized

They use our reports to...

- gain admission to US colleges and universities
- obtain professional licensure from state and national licensing boards
- get jobs that require a specific level of education or degree



# Osmania University



Faculty of Engineering

Roll No 0392-727

MEDIUM: English

This is to certify that

son/daughter of

admitted to the Degree of

Bachelor of Engineering

Spl. Mechanical  
Production Engineering

of this University, he/she having passed the Examination

in June 1995 in First Division with Distinction

Given under the seal of the University

Hyderabad

Dated 5 FEB 1997

Vice-Chancellor

Verified by  
Educational Credential Evaluators, Inc.



**OSMANIA UNIVERSITY**  
MEMORANDUM OF MARKS  
BACHELOR OF ENGINEERING

MINIMUM PASS MARKS

THEORY 40%

NO. 838

PRACTICAL 50%

DATED 22/05/93  
B.E. II/IV I SEMESTER  
MARCH 1993

SESSIONALS (COMBINED) 50%

EXAMINATION

ROLL NO. \_\_\_\_\_ NAME \_\_\_\_\_

SL. NO.	SUBJECT	THEORY OR PRACTICALS		SESSIONALS CLASS TESTS	
		MAXIMUM MARKS	MARKS SECURED	MAXIMUM MARKS	MARKS SECURED
1	MATHEMATICS - III	70	41	30	30
2	STRENGTH OF MATERIALS	70	32	30	29
3	MATERIAL SCIENCE	70	46	30	25
4	ELECT. TECHNOLOGY	70	AB	30	24
5	ENGG. ECONOMICS & ACCOUNTANCY	70	AB	30	27
6	FLUID MECHANICS	70	AB	30	25
7	MACHINE DRAWING	50	26	25	25
8	STRENGTH OF MATERIALS PR.	50	34	25	23
9	ELECT. TECHNOLOGY PR.	50	28	25	23
	= =	= =	= =	= =	= =
	= =	= =	= =	= =	= =
	= =	= =	= =	= =	= =

COMBINED AGGREGATE OF SESSIONALS/PRACTICALS

255 231

COMBINED AGGREGATE OF THE EXAMINATION & SESSIONALS

825 438

AGGREGATE MARKS SECURED IN WORDS \* FOUR\*THREE\*EIGHT\*

Verified by Educational Credential Evaluators, Inc.

RESULT

FAILED  
FAILED IN 4 5 6

*Blundo*

PERSON IN CHARGE

SUPERINTENDENT

CONTROLLER OF EXAMINATIONS



# 学士学位证书

(普通高等教育本科毕业生)

学生 [redacted]，[redacted] 年  
五月生。自一九八九年九月至一九九四年  
六月在 广州 医学院  
临床 医学 专业  
完成了五年制本科学习计划，业已毕业。  
经审核符合《中华人民共和国学位条例》  
的规定，授予 医学学士学位。

广州医学院

学位评定委员会主席

钟南山

一九九四年七月 日

证书编号：

5572



# What is credential evaluation?

- practice of applying comparative education and credential evaluation principles to understand and evaluate the level, quality, and quantity of education represented by an educational credential obtained in another country



# Sample Subject Analysis Evaluation Report

## SUBJECT ANALYSIS EVALUATION REPORT

Name: [REDACTED] Reference: [REDACTED]/JAT  
 Date of Birth: 22 December 1975  
 Purpose: Further Education Date: 12 October 2007

**U.S. Equivalence:** Bachelor's degree in Medical Technology

**Grade Average:** 1.95

**Credential:** Bachelor of Science in Medical Technology

**Institution:** Manila Central University

**Country:** Philippines

**Date:** 1996

**Comments:** Admission to this program is based on an educational credential that is the equivalent of a high school diploma in the United States.

The academic work completed in this program can be converted to U.S. credits and grades as follows:

Courses	U.S. Credits	U.S. Grades
<b>1992-93, First Semester:</b>		
English: Communication Skills I (1)	1.75	C
Rizal's Life & Works	1.75	D
College Algebra	1.75	D
General & Inorganic Chemistry (3)	3.00	C
General Zoology (3)	3.00	D
Pilipino: Communication Arts	1.75	C
Social Arts I	0.50	C
Physical Education I (2)	1.25	A
Military Science I	1.00	C
<b>1992-93, Second Semester:</b>		
English: Communication Skills II (1)	1.75	C
Comparative Anatomy (3)	3.00	D
Trigonometry	1.75	D
Qualitative Chemistry (3)	3.00	D
General Botany (3)	3.00	C
Pilipino: Philippine Literature	1.75	C
Social Arts II	0.50	B



**Educational Credential Evaluators, Inc. (ECE)** is a private, non-profit organization. We are a charter member of the National Association of Credential Evaluation Services (NACES), an organization that establishes standards for private credential evaluation services.

Our evaluation reports identify the U.S. equivalents of foreign educational credentials. Evaluation reports are prepared by our qualified professional staff, supported by a library of more than 25,000 publications dealing with international and comparative education and more than 300,000 sample educational credentials.

Our evaluation reports are statements solely of educational equivalence. ECE does not make judgments regarding an individual's eligibility for professional licensure, certification, or registration in the United States.

**Unless otherwise noted, we only list work that was completed at the equivalent of a regionally accredited post-secondary institution in the United States.** Regional academic accreditation is the process by which a post-secondary institution in the United States (university, college, or community college) receives official degree-granting recognition that merits reciprocal recognition of degrees, degree programs, and individual courses by other educational institutions, governmental agencies, and employers. This function is fulfilled in most other countries by official degree-granting recognition awarded by a ministry of education.

**We report the quantity of academic work completed in another country as semester hours of credit.** In the United States, one year of full-time academic work represents a total of 30 to 32 semester hours of credit. Because each U.S. university and college is autonomous, each one will accept only those credits which meet its degree requirements. Therefore, the number of credits accepted for transfer may be lower than the number of credits listed on a Course-By-Course, Subject Analysis, or Catalog Match evaluation report.

**Grades (marks)** are converted to the A,B,C,D,F grading scale used in the United States. Plus (+) and minus (-) grading symbols are not used because they denote a level of grading precision that is not possible to meet when one grading system is converted to another.

**Course Content Symbol and Numbering Key**

**Effective 2001:**

**Footnote Description:**

- |   |                                    |
|---|------------------------------------|
| (1) English as a foreign language       | (20) Includes teaching methodology |
| (2) Not based on U.S. law               | (21) Transfer credit granted       |
| (3) Includes lab                        | (22) Nursing units                 |
| (4) Upper level course                  | (34) Lower level course            |
| (5) English composition                 | (35) Upper level/graduate level    |
| (6) English literature                  |                                    |
| (7) Activities course                   |                                    |
| (8) Physiology                          |                                    |
| (9) Nursing theory                      |                                    |
| (10) Macroeconomics                     |                                    |
| (11) Anatomy                            |                                    |
| (12) Work duplicated                    |                                    |
| (13) Microeconomics                     |                                    |
| (14) Engineering technology             |                                    |
| (15) Clinical practice                  |                                    |
| (16) Microbiology                       |                                    |
| (17) Theory and clinical practice       |                                    |
| (18) Life span developmental psychology |                                    |
| (19) Statistics                         |                                    |

**1980-2001:**

- |   |                      |
|---|----------------------|
| ▲ Macroeconomics  | ▼ Microeconomics     |
| ✓ Activities course   | ○ Work duplicated    |
| ■ Upper level course  | ▶ Nursing theory     |
| → Clinical practice   | § Anatomy            |
| ▲ Physiology  | # Microbiology       |
| ☆ English Composition                                       | ⊙ English Literature |
| ★ English as a Foreign Language                             |                      |
| ✱ Engineering Technology                                    |                      |
| ↔ Theory and clinical practice                              |                      |
| ⊗ Includes laboratory component                             |                      |
| ◆ Emphasis on the law of the country in which it is studied |                      |

*Additional symbols and descriptions may appear on the reverse, as appropriate (and may replace this general key).*

**Grade Averages**

Grade averages are calculated by dividing the total number of grade points earned by the total number of credits attempted. Grade average calculation does not include grades of: in progress (IP), incomplete (I), pass (P), satisfactory (S), withdrawn (W), or exempt (Ex).

Included in the grade average calculation:

Grade	Points	Other Grades
A	4	P = Pass on a pass/fail basis
B	3	S = Satisfactory completion of academic work where actual grades were not reported or where grade was "S" on a satisfactory/unsatisfactory basis
C	2	
D	1	
F	0	

Two grades separated by "/" indicate grades corresponding to the first and second parts of a two-part course.

**Types of Evaluation Reports**

**General reports** identify each educational credential and give the U.S. equivalent.

**Course-By-Course reports** identify each educational credential, give the U.S. equivalent, and provide credit and grade equivalents for each subject studied, but do not include specific information on course content.

**Subject Analysis reports** identify each educational credential, give the U.S. equivalent, provide credit and grade equivalents for each subject studied, and include specific information needed by the referring agency or university.

**Catalog Match reports** identify each educational credential, give the U.S. equivalent, provide credit and grade equivalents for each subject studied, and match each subject to the corresponding course number of the referring university.

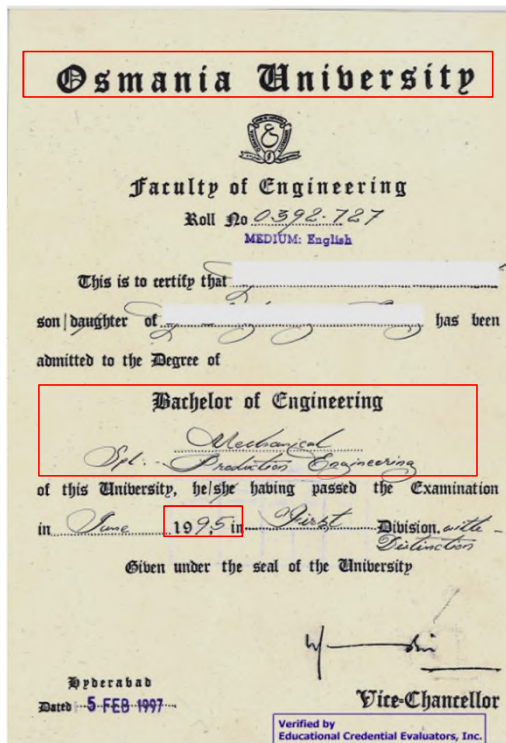
**Health Professions Licensure reports** identify each educational credential, give the U.S. equivalent, provide credit and grade equivalents for each subject studied, and include specific information needed by the referring licensing agency.

**To order additional copies of this report,** send us the name and complete mailing address of each person to whom you want a copy of the report sent, and enclose the copy fee: \$30 for the first copy, \$10 for each additional copy requested at the same time.

**If you have questions concerning this evaluation report,** please contact us by mail. If the report was prepared more than six months prior to the date you send your questions to us, they must be sent with a re-activation fee of \$60. Send correspondence to the attention of the Credentials Evaluator at:

ECE P.O. Box 514070, Milwaukee, Wisconsin 53203-3470 U.S.A.  
Fax: 414-289-3411 E-mail: Eval@ECE.org

**Please note your ECE reference number in all correspondence.**



CK OF THIS DOCUMENT CONTAINS THEIMC

2. **U.S. Equivalence:** Bachelor's degree in Mechanical Engineering with an emphasis on Production Engineering

**Grade Average:** 3.62 (Comprehensive); 3.75 (Best Result)

**Comprehensive Grade Average** includes all qualitative grades received (A, B, C, D and F).

**Best Result Grade Average** includes qualitative grades received (A, B, C, D and F), but excludes those for repeated subjects with identical or lower grades.

**Credential:** Bachelor of Engineering, Mechanical (Production) Engineering

**Institution:** Osmania University

**Country:** India

**Date:** 1995

**Comments:** The document submitted was issued in 1997.

AS A COLORED BACKGROUND - NOT A WHI



**OSMANIA UNIVERSITY**  
MEMORANDUM OF MARKS  
BACHELOR OF ENGINEERING

MINIMUM PASS MARKS

THEORY 40% NO. 838

PRACTICAL 50% DATED 22/05/93

SESSIONALS (COMBINED) 50% EXAMINATION B.E. II/IV I SEMESTER MARCH 1993

SL. NO.	SUBJECT	THEORY OR PRACTICALS		SESSIONALS CLASS TESTS	
		MAXIMUM MARKS	MARKS SECURED	MAXIMUM MARKS	MARKS SECURED
1	MATHEMATICS - III	70	41	30	30
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5	ENGG. ECONOMICS & ACCOUNTANCY	70	AB	30	27
6	FLUID MECHANICS	70	AB	30	25
7	MACHINE DRAWING	50	26	25	25
8	STRENGTH OF MATERIALS PR.	50	34	25	23
9	ELECT. TECHNOLOGY PR.	50	28	25	23
=	=	=	=	=	=
=	=	=	=	=	=
=	=	=	=	=	=
				255	231
COMBINED AGGREGATE OF THE EXAMINATION & SESSIONALS				825	438

COMBINED AGGREGATE OF SESSIONALS/PRACTICALS

COMBINED AGGREGATE OF THE EXAMINATION & SESSIONALS

AGGREGATE MARKS SECURED IN WORDS \* FOUR\*THREE\*EIGHT\*

Verified by Educational Credential Evaluators, Inc.

RESULT

PERSON IN CHARGE

Courses	U.S. Credits	U.S. Grades
Workshop	1.75	A
Computer Programming & Numerical Methods	2.25	A
Engineering Mechanics	2.25	A
Mathematics III	2.25	A
Strength of Materials	2.25	A
Material Science	2.25	A
Electronic Technology I	[1.50]	Absent
Electronic Technology II	0.75	A
Engineering Economics & Accountancy I	[1.50]	Absent
Engineering Economics & Accountancy II	0.75	A
Fluid Mechanics I	[1.50]	Absent
Fluid Mechanics II	0.75	A
Machine Drawing I	1.75	A
Strength of Materials Lab	1.75	A
Electronic Technology Lab	1.75	A



# 学士学位证书

(普通高等教育本科毕业生)

学生 [redacted] 年  
五月生。自 [redacted] 年六月在  
广州医学院  
临床医学专业  
完成了五年制本科学习计划，业已毕业。  
经审核符合《中华人民共和国学位条例》  
的规定，授予 [redacted] 医学学士学位。

广州医学院

学位评定委员会主席

杜南山

一九九四年七月 日

证书编号: 5572

**U.S. Equivalence:** Completion of five years of study in a medicine program

**Grade Average:** 3.00

**Credential:** Bachelor of Medicine [This is the first professional degree in medicine in China]

**Institution:** Guangzhou Medical College

**Country:** China

**Date:** 1994

**Comments:** Admission to this program is based on an educational credential that is the equivalent of a high school diploma in the United States.

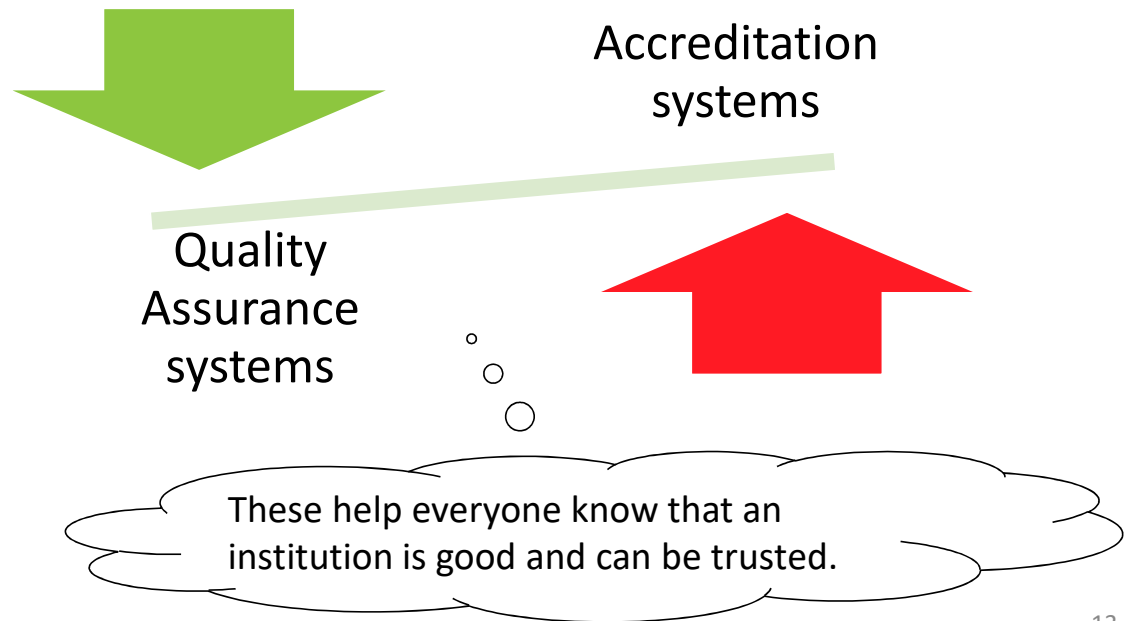
The academic work completed in this program can be converted to U.S. credits and grades as follows:

Courses	U.S. Credits	U.S. Grades
Physical Education	2.33	B
English (1)	4.67	D
Biology	2.00	B
Physics	4.00	C

# How does the global community know the quality of a university?

By quality, we mean...

- Legitimate
- Recognized
- Provides quality education
- Not a diploma mill





# How does a university administrator know the quality of a student who is applying?

By quality, we mean...

- Appropriately prepared to have a high likelihood of successfully completing a particular program of study.

Credential evaluation

- provides an assessment an international student's academic record
- helps the admissions staff determine if a student is a good candidate



# Key elements of the credential evaluation process



- Determine institutional recognition
- Determine whether the documents are authentic
- Determine whether credential represents successful completion of academic work
- Determine the overall equivalency
- Determine grade and credit weighting conversions



Five credential evaluation concepts that can be applied to university admissions decisions...



Admission requirements & level of education

Equivalency vs. competency

Credits & quantity of education completed

Terminology – Deciphering academic words

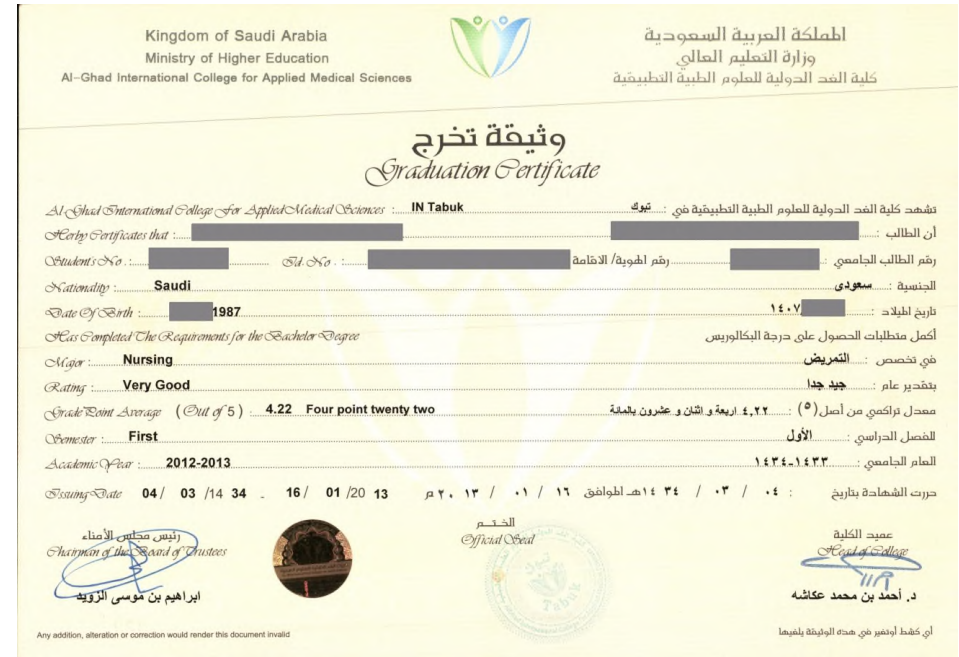
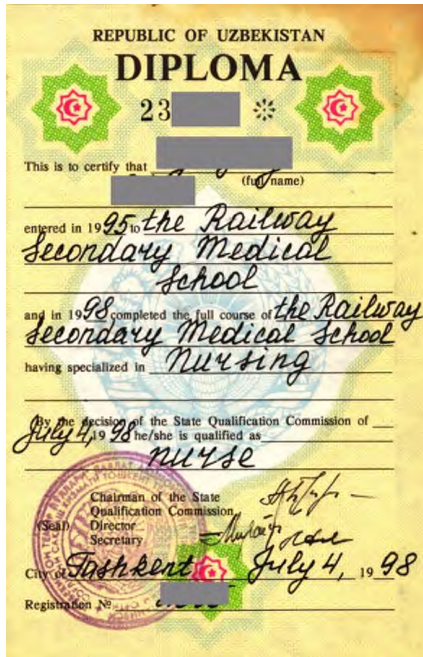
Beyond the degree-badges & new ways of learning



# Admission requirements & level of education

help us understand the level of education completed

qualifications in the same field may be offered at different levels





# Equivalency vs. competency

- Credential evaluators may disagree on equivalencies, but does that affect competency?
- How do educators determine whether one's preparation satisfies their admission requirements?
- What is relevant?
  - general education?
  - profession-specific courses?
  - length of training?
  - internship experience?



# Credits & quantity of education completed

UNIVERSITY OF DURHAM  
ACADEMIC TRANSCRIPT

Name: [Redacted]

**Student Information:**  
 Date of Birth: [Redacted] 1955  
 College: Hatfield College  
 University ID Number: [Redacted]  
 HESA ID Number: [Redacted]  
 Date of Admission: 30 September 2013  
 Date of Leaving: 24 June 2016  
 Mode of Study: Full Time

**Programme Information:**  
 Award: Bachelor of Arts  
 Programme Title: English Literature  
 Programme Code: Q300  
 Programme Outcome: Class II Division 1 (Honours)  
 Date of Award: 30 June 2016  
 Min. Full-Time Duration: 3 year(s)

Module Code	Module Title	Module Level	Mark (%)	University Credits
<b>Academic Year 2013-2014</b>				
ENGL 1011	Introduction to Drama	1	69	20
ENGL 1021	The English Language and its History	1	56	20
ENGL 1051	The Age of Chivalry	1	57	20
ENGL 1061	Introduction to the Novel	1	62	20
ENGL 1071	Introduction to Poetry	1	69	20
HIST 1541	Modern Times: A Cultural History of Europe, c. 1880-1960	1	59	20
<b>Academic Year 2014-2015</b>				
ENGL 2011	Theory and Practice of Literary Criticism	2	64	20
ENGL 2171	Shakespeare On Film	2	62	20
ENGL 2121	Chaucer Level 2	2	61	20
ENGL 2131	American Fiction Level 2	2	61	20
ENGL 2591	Post-War Fiction and Poetry Level 2	2	62	20
ENGL 2731	The Campus Novel (Special Topic)	2	62	20
<b>Academic Year 2015-2016</b>				
ENGL 3021	Shakespeare	3	62	20
ENGL 3211	Fictions of Terrorism (Special Topic)	3	67	20
BUSI 2141	Entrepreneurship	3	58	20
ENGL 3162	40-credit dissertation in English	3	65	40
ENGL 3081	Literature of the Modern Period	2	64	20

Comments:

Student Registry  
The Palace Centre  
Durham University  
Stockton Road  
Durham DH1 1TA  
Tel: +44 191 334 6436  
E-Mail: student.registry@durham.ac.uk

NOT AN OFFICIAL TRANSCRIPT UNTIL THE UNIVERSITY STAMP AND SIGNATURE

OFFICIAL STAMP

This transcript does not show the outcomes of medical evidence which may assist the Board of Examiners about any mitigating circumstances or academic performance of the student, as judged by the Board of Examiners.

Different countries employ different systems of quantifying academic work completed

SUEZ CANAL UNIVERSITY  
Faculty of Engineering  
Statement

"This Certificate is issued to [Redacted] National ID: [Redacted] Egyptian Registration # of May, 2016 From Faculty of Engineering at Suez Canal University & Was awarded A. Honors Electrical Eng. (Communication & Electronics Systems) GPA/2.89 (General Approximation (B+)) "Very Good" With Percentage Of (78.17%) Total Hours (175) Points (104.8) 14/07/2019. University Council 25/07/2019.

Preparatory level 2011/2012				First level 2012/2013			
Subjects	Sub-Hour	Points	Grade	Subjects	Sub-Hour	Points	Grade
<b>First Semester</b>				<b>First Semester</b>			
Mathematics (1)	3	8.1	B-	Mathematics (2)	3	9.9	B+
Mechanics (1)	3	3.9	D+	Physics (2)	3	8.1	B-
Physics (1)	4	8.8	D+	Electric Circuits (1)	3	6.8	C+
Engineering Chemistry	3	6.3	C-	Logic Circuits (1)	3	11.1	A-
History Of Engineering	2	2.6	D+	<b>Second Semester</b>			
Engineering Drawing	4	5.2	D+	Mathematics (4)	3	8.1	B-
<b>Second Semester</b>				Electrical Material	3	9	B
Technical English language	2	8.4	B-	Electric Circuits (2)	4	14.8	A-
Physics (2)	3	8.1	B-	Basics Of Energy Transformation	3	9.9	B+
Production Technology	4	8.2	D+	Civil Engineering	3	8.5	B-
Computer & Programming	2	3	D-	Human Rights	2	5.4	B-
Mathematics (2)	3	3.9	D+	<b>GPA (3.10) 53.10 (V.Good(B))</b>			
<b>GPA (1.88) 30 63.70 (PASS (D+))</b>				<b>Second level 2013/2014</b>			
<b>Third level 2014/2016</b>				<b>First Semester</b>			
Subjects	Sub-Hour	Points	Grade	Subjects	Sub-Hour	Points	Grade
<b>First Semester</b>				<b>First Semester</b>			
Computer & Programming	4	10.8	B-	Computer & Programming	4	10.8	B-
Mathematics (3)	3	9	B	Mathematics (3)	3	9	B
Electromagnetic Field	3	11.1	B+	Electronic Engineering	4	13.2	B+
Digital Signal Processing	3	9.9	B+	Electrical Measurements	3	12	A
Control Systems	3	9	B	Electrical Power (1)	3	6	C-
Communication Theory (1)	3	11.1	A-	Industrial Relations	2	4.6	C+
Integrated circuits (1)	3	8.1	B-	<b>Second Semester</b>			
Local Computer network	3	8	B	Mathematics (4)	3	11.1	A-
<b>Second Semester</b>				Control Systems	3	9.9	B+
Scientific Thinking	3	8	A	Electrical Power (2)	3	11.1	A-
Logic Circuits (2)	3	12	A	Electrical Power (3)	4	13.2	B+
Microwave Engineering	3	6.8	C+	Mechanics (2)	3	12	A
Electronic circuits (2)	3	9	B	Mechanics (3)	2	6	B-
Statistical Communication	3	6.8	C-	Statistical Communication	3	6.8	C-
Optical Electronics	3	11.1	A-	Engineering Electronics	2	6.8	B-
<b>Summer Semester</b>				<b>Summer Semester</b>			
Medical Electronics	3	11.1	A-	Medical Electronics	3	11.1	A-
<b>GPA (3.16) 39 123.1 (V.Good(B))</b>				<b>GPA (3.16) 39 123.1 (V.Good(B))</b>			
<b>Fourth level 2016/2016</b>				<b>Fourth level 2016/2016</b>			
Subjects	Sub-Hour	Points	Grade	Subjects	Sub-Hour	Points	Grade
<b>First Semester</b>				<b>First Semester</b>			
Microprocessor & Application	3	3	C-	Microprocessor & Application	3	3	C-
Communication Systems	3	3	C-	Communication Systems	3	3	C-
Communication Theory (2)	4	4	C-	Communication Theory (2)	4	4	C-
Communication Electronics	3	3	C-	Communication Electronics	3	3	C-
<b>Second Semester</b>				<b>Second Semester</b>			
Antenna & Propagation	4	9.2	C-	Antenna & Propagation	4	9.2	C-
Integrated circuits (2)	4	14.8	A-	Integrated circuits (2)	4	14.8	A-
Graduation Project	8	32	A	Graduation Project	8	32	A
<b>GPA (3.46) 29 100.40 (V.Good (B+))</b>				<b>GPA (3.46) 29 100.40 (V.Good (B+))</b>			

Graduate Affairs Student Affairs

A. K. El-Mahmoudi

Year 1 = 38 hours

Year 1 = 120 credits

# Who has completed more work in organic chemistry?



- Austria – 30 ECTS in organic chemistry
- Canada – 30 credits in organic chemistry
- France – 30 coefficients in organic chemistry
- India – 30 out of 300 in organic chemistry
- United States – 30 quarter credits in organic chemistry

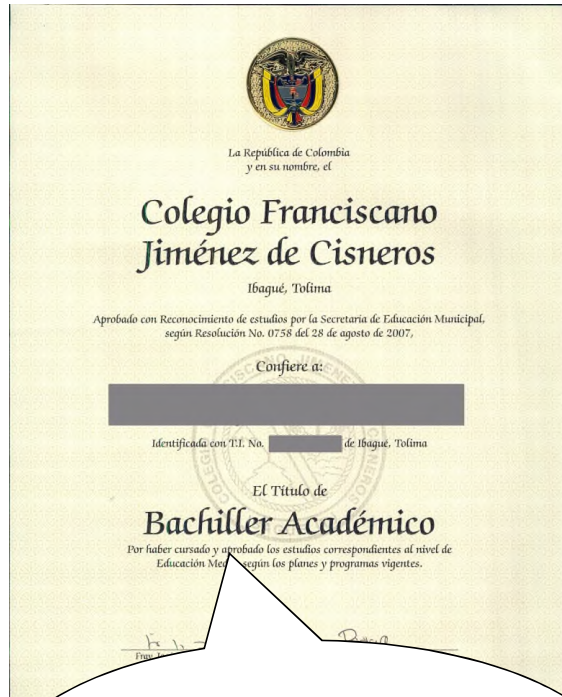


# Terminology – deciphering academic words

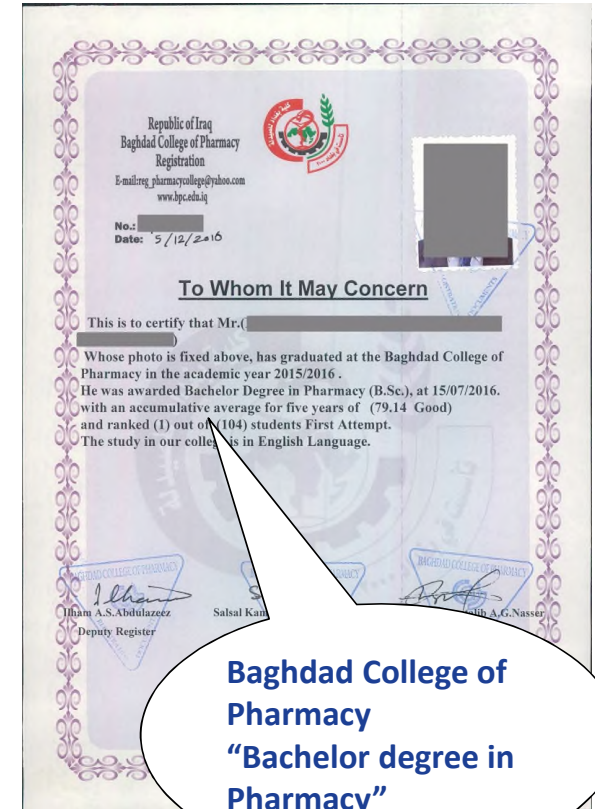
Does "college" or "bachelor" always mean the same thing?

If not, how do credential evaluators identify institution levels and types?

What about translations?



Jimenez de Cisneros Franciscan College "Academic Bachelor title"



Baghdad College of Pharmacy "Bachelor degree in Pharmacy"



# Beyond the degree - badges & new ways of learning





- Paper -> PDF -> Embedded Data - > Data
- Revenue streams
- Integrity of product
- Standards – PESC transcript -> evaluation

A decorative graphic at the bottom of the slide consists of a green wavy line above a dark blue horizontal bar. Four colored circles (red, blue, grey, orange) are positioned on the green line to the right of the text.

EMERGING TECHNOLOGIES – BUSINESS PRACTICES



- Authenticity
- Verification
- Timeliness
- Standardization - Geocode

EMERGING TECHNOLOGIES – PROFESSIONAL PROCESSES





- Mobility
- Refugees
- Fair Access

A decorative graphic at the bottom of the slide consists of a green wavy line above a solid blue horizontal bar. Four colored circles (red, blue, grey, orange) are positioned on the green line to the right of the blue bar.

EMERGING TECHNOLOGIES - STUDENTS



Credential evaluation – key to international student mobility

Standardization will open doors to emerging technologies

Higher education community responsible for ensuring access

SUMMARY



Questions...?

Margit A. Schatzman  
Educational Credential Evaluators, Inc.  
[margit@ece.org](mailto:margit@ece.org)

