

How to Authenticate This Official PDF Transcript

This official PDF transcript has been transmitted electronically to the recipient, and is intended solely for use by that recipient. It is not permissible to replicate this document or forward it to any person or organization other than the identified recipient. Release of this record or disclosure of its contents to any third party without written consent of the record owner is prohibited.

This official transcript has been digitally signed and therefore contains special characteristics. This document will reveal a digital certificate that has been applied to the transcript, and for optimal results, we recommend that this document is viewed with the latest version of Adobe® Acrobat or Adobe® Reader. This digital certificate will appear in a pop-up screen or status bar on the document, display a blue ribbon, and declare that the document was certified by Parchment, with a valid certificate issued by GlobalSign CA for Adobe®. This document certification can be validated by clicking on the Signature Properties of the document.



The Blue Ribbon Symbol: The blue ribbon is your assurance that the digital certificate is valid, the document is authentic, and the contents of the transcript have not been altered.



Invalid: If the transcript does not display a valid certification and signature message, reject this transcript immediately. An invalid digital certificate display means either the digital signature is not authentic, or the document has been altered. The digital signature can also be revoked by the transcript office if there is cause, and digital signatures can expire. A document with an invalid digital signature display should be rejected.



Author Unknown: Lastly, one other possible message, Author Unknown, can have two possible meanings: The certificate is a self-signed certificate or has been issued by an unknown or untrusted certificate authority and therefore has not been trusted, or the revocation check could not complete. If you receive this message make sure you are properly connected to the internet. If you have a connection and you still cannot validate the digital certificate on-line, reject this document.

The current version of Adobe® Reader is free of charge, and available for immediate download at <http://www.adobe.com>.

ABOUT PARCHMENT: Parchment is an academic credential management company, specializing in delivery of official electronic credentials. As a trusted intermediary, all documents delivered via Parchment are verified and secure.

Learn more about Parchment at www.parchment.com



Huizar, Francisco J
Student ID: XXXXX7929

Birth Date: 11-24-XXXX

Date Issued: 27-AUG-2021
Page: 1

Issued To: Francisco Huizar
Parchment DocumentID: 35940192
fhuizar@nd.edu

Course Level: Graduate
Program: PHD - Bioengineering
College: College of Engineering
Major: Bioengineering

					UND SEMESTER TOTALS				OVERALL TOTALS				
CRSE	ID	COURSE TITLE	CRS HRS	GRD	QPTS	ATTEMP HRS	EARNED HRS	GPA HRS	GPA	ATTEMP HRS	EARNED HRS	GPA HRS	GPA
UNIVERSITY OF NOTRE DAME CREDIT:													
Fall Semester 2018													
College of Engineering													
ACMS	60786	Applied Linear Models	3.000	A	12.000								
AME	50571	Biomaterials	3.000	A	12.000								
BIOS	60318	Introduction to Biocomputing	3.000	A	12.000								
BIOS	60531	Molecular Biology I	3.000	B	9.000								
BIOS	62318	Intro to Biocomputing Tutorial	0.000	S	0.000								
CBE	63001	Graduate Seminar	1.000	S	0.000								
Good Standing			Total		45.000	13.000	13.000	12.000	3.750	13.000	13.000	12.000	3.750
Spring Semester 2019													
College of Engineering													
ACMS	60801	Statistical Inference	3.000	A-	11.001								
AME	60770	Stem Cell Engineering	3.000	A	12.000								
BIOS	60532	Molecular Biology II	2.000	A	8.000								
BIOS	67525	Medical Sciences Colloquium	1.000	A	4.000								
CBE	63001	Graduate Seminar	1.000	S	0.000								
-			Total		35.001	10.000	10.000	9.000	3.889	23.000	23.000	21.000	3.810
Summer Session 2019													
College of Engineering													
ACMS	60849	Intermediate Probability	3.000	B+	9.999								

CONTINUED ON PAGE 2

CONTINUED ON PAGE 2

Huizar, Francisco J
Student ID: XXXXX7929

Birth Date: 11-24-XXXX

CRSE	ID	COURSE TITLE	CRS HRS	GRD	QPTS	UND ATTEMP HRS	SEMESTER EARNED HRS	TOTALS GPA HRS	GPA	UND ATTEMP HRS	OVERALL EARNED HRS	TOTALS GPA HRS	GPA
University of Notre Dame Information continued:													
Total					9.999	3.000	3.000	3.000	3.333	26.000	26.000	24.000	3.750
Fall Semester 2019													
College of Engineering													
ACMS	60640	Intro Mathematical Biology	3.000	A-	11.001								
ACMS	60885	Applied Bayesian Statistics	3.000	A	12.000								
CBE	63001	Graduate Seminar	1.000	S	0.000								
EE	60632	Intro Systems Biology	4.000	A	16.000								
Total					39.001	11.000	11.000	10.000	3.900	37.000	37.000	34.000	3.794
Spring Semester 2020													
During the Spring 2020 semester, a global health emergency required significant changes to coursework. Unusual enrollment patterns and grades reflect the tumult of the time.													
College of Engineering													
ACMS	60883	Applied Generalized Linear Models	3.000	A	12.000								
CBE	63001	Graduate Seminar	1.000	S	0.000								
CBE	68901	Research and Dissertation	8.000	S	0.000								
Total					12.000	12.000	12.000	3.000	4.000	49.000	49.000	37.000	3.811
Summer Session 2020													
College of Engineering													
ACMS	64051	DO System and Technology: R	2.000	A	8.000								
ACMS	64052	DO System and Technology: Python	2.000	A	8.000								
Total					16.000	4.000	4.000	4.000	4.000	53.000	53.000	41.000	3.829
Fall Semester 2020													
College of Engineering													
AME	70779	Stat Comp Methods for Sci & Eg	4.000	A	16.000								
CBE	63001	Graduate Seminar	1.000	S	0.000								
CBE	68901	Research and Dissertation	4.000	S	0.000								
Total					16.000	9.000	9.000	4.000	4.000	62.000	62.000	45.000	3.844
Spring Semester 2021													
College of Engineering													

CONTINUED ON PAGE 3

Huizar, Francisco J
Student ID: XXXXX7929

Birth Date: 11-24-XXXX

CRSE	ID	COURSE TITLE	CRS HRS	GRD	QPTS	UND SEMESTER TOTALS				OVERALL TOTALS			
						ATTEMP HRS	EARNED HRS	GPA HRS	GPA	ATTEMP HRS	EARNED HRS	GPA HRS	GPA
University of Notre Dame Information continued:													
AME	70790	Adv.Topics Mach. Learn	4.000	A-	14.668								
CBE	60499	Nonlinear and Stochastic Optimization	3.000	B	9.000								
CBE	63001	Graduate Seminar	1.000	S	0.000								
CBE	68901	Research and Dissertation	1.000	S	0.000								
-		Total			23.668	9.000	9.000	7.000	3.381	71.000	71.000	52.000	3.782

Fall Semester 2021
IN PROGRESS WORK
CBE 63001 M Graduate Seminar 1.000 IN PROGRESS
CBE 68901 M Research and Dissertation 9.000 IN PROGRESS
In Progress Credits 10.000
***** TRANSCRIPT TOTALS *****
NOTRE DAME EhRs: 71.000 QPts: 196.669
GPA-Hrs: 52.000 GPA: 3.782

TRANSFER EhRs: 0.000 QPts: 0.000
GPA-Hrs: 0.000 GPA: 0.000

OVERALL EhRs: 71.000 QPts: 196.669
GPA-Hrs: 52.000 GPA: 3.782
***** END OF TRANSCRIPT *****

CAMPUS CODES

All courses taught at an off campus location will have a campus code listed before the course title.

The most frequently used codes are:

AF	Angers, France
DC	Washington, DC
FA	Fremantle, Australia
IA	Innsbruck, Austria
IR	Dublin, Ireland
LA	London, England (Fall/Spring)
LE	London, England (Law-JD)
LG	London, England (Summer EG)
LS	London, England (Summer AL)
PA	Perth, Australia
PM	Puebla, Mexico
RE	Rome, Italy
RI	Rome, Italy (Architecture)
SC	Santiago, Chile
SP	Toledo, Spain

For a complete list of codes, please see the following website:
<http://registrar.nd.edu/pdf/campuscodes.pdf>

GRADING SYSTEM - SEMESTER CALENDAR

Previous grading systems as well as complete explanations are available at the following website:

<http://registrar.nd.edu/students/gradefinal.php>

August 1988 - Present

Letter Grade	Point Value	Legend
A	4	
A-	3.667	
B+	3.333	
B	3	
B-	2.667	
C+	2.333	
C	2	Lowest passing grade for graduate students.
C-	1.667	
D	1	Lowest passing grade for undergraduate students.
F	0	Failure
F*	0	No final grade reported for an individual student (Registrar assigned).
X	0	Given with the approval of the student's dean in extenuating circumstances beyond the control of the student. It reverts to "F" if not changed within 30 days after the beginning of the next semester in which the student is enrolled.

I	0	Incomplete (reserved for advanced students in advanced studies courses only). It is a temporary and unacceptable grade indicating a failure to complete work in a course. The course work must be completed and the "I" changed according to the appropriate Academic Code.
U		Unsatisfactory work (courses without semester credit hours, as well as research courses, departmental seminars or colloquia or directed studies; workshops; field education and skill courses).

Grades which are not Included in the Computation of the Average

S	Satisfactory work (courses without semester credit hours, as well as research courses, departmental seminars or colloquia or directed studies; workshops; field education and skill courses).
V	Auditor (Graduate students only).
W	Discontinued with permission. To secure a "W" the student must have the authorization of the dean.
P	Pass in a course taken on a pass-fail basis.
NR	Not reported. Final grade(s) not reported by the instructor due to extenuating circumstances.
NC	No credit in a course taken on a pass-no credit basis.

For current and historical grade point averages by class, as well as additional information regarding prior grading policies and current distribution ranges, see: <http://registrar.nd.edu/students/gradefinal.php>

THE LAW SCHOOL GRADING SYSTEM

The current grading system for the law school is as follows: A (4.000), A- (3.667), B+ (3.333), B (3.000), B- (2.667), C+ (2.333), C (2.000), C- (1.667), D (1.000), F or U (0.000).

Effective academic year 2011-2012, the law school implemented a grade normalization policy, with mandatory mean ranges (for any course with 10 or more students) and mandatory distribution ranges (for any course with 25 or more students). For Legal Writing (I & II) only, the mean requirement will apply but the distribution requirement will not apply. The mean ranges are as follows: for all first-year courses (except for the first-year elective, which is treated as an upper-level course), the mean is 3.25 to 3.30; for large upper-level courses (25 or more students), the mean is 3.25 to 3.35; for small upper-level courses (10-24 students), the mean is 3.15 to 3.45.

For current and historical grade point averages by class, as well as additional information regarding prior grading policies and current distribution ranges, see: <http://registrar.nd.edu/students/gradefinal.php>

TRANSCRIPT NOT OFFICIAL IF WHITE SIGNATURE AND BLUE SEAL ARE DISTORTED



CHUCK HURLEY, UNIVERSITY REGISTRAR

In accordance with USC 438 (6) (4) (8) (The Family Educational Rights and Privacy Act of 1974) you are hereby notified that this information is provided upon the condition that you, your agents or employees, will not permit any other party access to this record without the written consent of the student. Alteration of this transcript may be a criminal offense.

COURSE NUMBERING SYSTEM

Previous course numbering systems (prior to Summer 2005) are available at the following website:

http://registrar.nd.edu/faculty/course_numbering.php

Beginning in Summer 2005, all courses offered are five numeric digits long (e.g. ENGL 43715).

The first digit of the course number indicates the level of the course.

ENGL 0 X - XXX	= Pre-College course
ENGL 1 X - XXX	= Freshman Level course
ENGL 2 X - XXX	= Sophomore Level course
ENGL 3 X - XXX	= Junior Level course
ENGL 4 X - XXX	= Senior Level course
ENGL 5 X - XXX	= 5th Year Senior / Advanced Undergraduate Course
ENGL 6 X - XXX	= 1st Year Graduate Level Course
ENGL 7 X - XXX	= 2nd Year Graduate Level Course (MBA / LAW)
ENGL 8 X - XXX	= 3rd Year Graduate Level Course (MBA / LAW)
ENGL 9 X - XXX	= Upper Level Graduate Level Course

TO TEST FOR AUTHENTICITY: This transcript was delivered through Parchment, Inc. The original transcript is in electronic PDF form. The authenticity of the PDF document may be validated. Please see the attached cover letter for more information. A printed copy cannot be validated.

The document cannot be released to a third party without the written consent of the student. This is in accordance with the Family Educational Rights and Privacy Act of 1974. ALTERATION OF THIS DOCUMENT MAY BE A CRIMINAL OFFENSE!