



CASE WESTERN RESERVE
UNIVERSITY EST. 1826

think beyond the possible™

Office of the University Registrar
10900 Euclid Ave
Yost Hall, Room 110
Cleveland, OH 44106-7042

12-Jul-2012

Page 1

Statement of Authenticity

This document was requested, following all applicable state and federal laws, and is the official transcript of the student identified below. The document has been transmitted electronically to the recipient identified below and is only intended for that recipient. If you are not the intended recipient, please notify the University Registrar's Office at 216-368-4310. It is not permissible to replicate this document or forward it to any person or organization other than the identified recipient.

If this document has been issued by Case Western Reserve University and no change(s) have been made, the recipient will view a "Certification Valid" message confirming the digital signature from the University that authorized the release of this document. If "Certification Valid" was not displayed, the following document has either been altered or not issued by Case Western Reserve University. The electronic signature at the bottom of this page provides the credentials for the issuing authority.

Recipient:

Ronald Grimm

grimm@caltech.edu

Student:

Ronald Lionel Grimm

jlbibc@mac.com

A copy of the current transcript key is included with this document and previous transcript keys are available at: <http://www.case.edu/registrar/grades.html>



CASE WESTERN RESERVE
UNIVERSITY EST. 1826

think beyond the possible™

Office of the University Registrar
10900 Euclid Ave
Yost Hall, Room 110
Cleveland, OH 44106-7042
PHONE: 216-368-4310
registrar@case.edu
<http://www.case.edu/registrar>

How to Authenticate This Official Transcript From the Case Western Reserve University

This official transcript has been transmitted electronically to the recipient, and is intended solely for use by that recipient. If you are not the intended recipient, please notify the University Registrar's Office at Case Western Reserve University. 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. If this document has been issued by Case Western Reserve University, and this document is viewed using Adobe® Acrobat version 6.0 or greater, or Adobe® Reader version 6.04 or greater, it will reveal a digital certificate that has been applied to the transcript. 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 Case Western Reserve University with a valid certificate issued by GeoTrust CA for Adobe®. This document certification can be validated by clicking on the Signature Properties of the document.



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



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.



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 transcript key and guide to transcript evaluation is the last page of this document.

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

If you require further information regarding the authenticity of this transcript, you may email or call the University Registrar's Office at Case Western Reserve University at registrar@case.edu or 216-368-4310.

CASE WESTERN RESERVE UNIVERSITY

OFFICE OF THE REGISTRAR • CLEVELAND, OHIO 44106-7042 • registrar@cwru.edu

Student ID: 3155353
 SSN: XXX-XX-6520
 Student Name: Ronald L Grimm

Official Transcript

Page 1 of 3
 07/12/2012
 DOCID:1614682

Degrees Awarded

Degree: BACHELOR OF SCIENCE
 Confer Date: 05/16/1999

Degree Honors: MAGNA CUM LAUDE
 Plan: CHEMISTRY

Academic Program History

Program: MATHEMATICS - (Minor)
 - BACHELOR OF SCIENCE

COMPLETED SECOND MINOR IN COMPUTER SCIENCE

Beginning of Undergraduate Record

		Fall 1995			
<u>Course</u>	<u>Description</u>	<u>Attempted</u>	<u>Grade</u>		
CHEM 105	PRINCIPLES OF CHEMISTRY I	3.00	A		
CMPS 131	ELEMENTARY COMPUTER PROG	3.00	B		
MATH 123	CALCULUS I	4.00	B		
PHED 028	SQUASH (2ND HALF)	0.00	P		
PHED 031	TENNIS (1ST HALF)	0.00	P		
PHYS 121	GENERAL PHYSICS I. MECHANICS	4.00	B		
PSCL 101	GENERAL PSYCHOLOGY I	3.00	B		
Term GPA: 3.180		<u>Attempted</u>	<u>Earned</u>	<u>Averaged</u>	<u>Points</u>
Term Totals		17.00	17.00	17.00	54.000


		Spring 1996			
<u>Course</u>	<u>Description</u>	<u>Attempted</u>	<u>Grade</u>		
CHEM 106	PRINCIPLES OF CHEMISTRY II	3.00	A		
CHEM 113	PRIN OF CHEMISTRY LAB	2.00	A		
ENGL 150	EXPOSITORY WRITING	3.00	B		
MATH 124	CALCULUS II	4.00	B		
PHED 026	RACQUETBALL (1ST HALF)	0.00	P		
PHED 026	RACQUETBALL (2ND HALF)	0.00	P		
PHYS 122	GENERAL PHYSICS II. ELEC & MAG	4.00	A		
DEAN'S HIGH HONORS	05/14/96				
Term GPA: 3.560		<u>Attempted</u>	<u>Earned</u>	<u>Averaged</u>	<u>Points</u>
Term Totals		16.00	16.00	16.00	57.000

		Fall 1996			
<u>Course</u>	<u>Description</u>	<u>Attempted</u>	<u>Grade</u>		
CHEM 321	LAB METHODS & TECHNIQUES I	3.00	B		
CHEM 323	ORGANIC CHEMISTRY I	3.00	A		
ECON 103	PRIN OF MACROECONOMICS	3.00	B		
MATH 223	CALC FOR SCIENCE & ENGR III	3.00	A		
PHYS 221	GENERAL PHYSICS III. MODERN	3.00	B		

Recipient:

Ronald Grimm

This official transcript is printed on light blue security paper and does not require a raised seal. The registrar's signature must appear below. See reverse side for transcript key and authenticity confirmation information.

 *Amy Hammett*
 Amy Hammett
 University Registrar

THIS DOCUMENT NOT VALID WITHOUT BLUE RIBBON DIGITAL CERTIFICATE

BLUE RIBBON CERTIFICATE SHOULD REMAIN VISIBLE AS DOCUMENT SCROLLS

CASE WESTERN RESERVE UNIVERSITY

OFFICE OF THE REGISTRAR • CLEVELAND, OHIO 44106-7042 • registrar@cwru.edu

Student ID: 3155353
 SSN: XXX-XX-6520
 Student Name: Ronald L Grimm

Official Transcript

Page 2 of 3
 07/12/2012
 DOCID:1614682

DEAN'S HONOR LIST 12/24/96

Term GPA:	3.400	Term Totals	<u>Attempted</u> 15.00	<u>Earned</u> 15.00	<u>Averaged</u> 15.00	<u>Points</u> 51.000
-----------	-------	-------------	---------------------------	------------------------	--------------------------	-------------------------

Spring 1997

<u>Course</u>	<u>Description</u>	<u>Attempted</u>	<u>Grade</u>
CHEM 322	LAB METHODS & TECHNIQUES II	3.00	A
CHEM 324	ORGANIC CHEMISTRY II	3.00	A
ECON 102	PRIN OF MICROECONOMICS	3.00	A
HSTY 113	INTRO TO MODERN WORLD HIST	3.00	B
MATH 224	ELEM DIFFERENTIAL EQUATIONS	3.00	A

DEAN'S HIGH HONORS 05/13/97

Term GPA:	3.800	Term Totals	<u>Attempted</u> 15.00	<u>Earned</u> 15.00	<u>Averaged</u> 15.00	<u>Points</u> 57.000
-----------	-------	-------------	---------------------------	------------------------	--------------------------	-------------------------

Summer 1997

<u>Course</u>	<u>Description</u>	<u>Attempted</u>	<u>Grade</u>
MUSC 221	INTR TO MUSIC:LISTENING EXP I	3.00	A
MUSC 222	INTR TO MUSIC:LISTENING EXP II	3.00	A

Term GPA:	4.000	Term Totals	<u>Attempted</u> 6.00	<u>Earned</u> 6.00	<u>Averaged</u> 6.00	<u>Points</u> 24.000
-----------	-------	-------------	--------------------------	-----------------------	-------------------------	-------------------------

Fall 1997

<u>Course</u>	<u>Description</u>	<u>Attempted</u>	<u>Grade</u>
CHEM 311	INORGANIC CHEMISTRY	3.00	B
CHEM 330	COMPUTER TECHN IN CHEM LAB	2.00	A
CHEM 335	PHYSICAL CHEMISTRY I	3.00	A
CHEM 397	RESEARCH FOR UNDERGRADUATES	1.00	A
CLSC 201	THE ANCIENT WORLD	3.00	A
LITR 291	MASTERPIECES OF MODERN FICTION	3.00	C

DEAN'S HONOR LIST 12/23/97

Term GPA:	3.400	Term Totals	<u>Attempted</u> 15.00	<u>Earned</u> 15.00	<u>Averaged</u> 15.00	<u>Points</u> 51.000
-----------	-------	-------------	---------------------------	------------------------	--------------------------	-------------------------

Spring 1998

<u>Course</u>	<u>Description</u>	<u>Attempted</u>	<u>Grade</u>
APMU 383B	JAZZ ENSEMBLE II	1.00	A
CHEM 312	INORGANIC CHEMISTRY	3.00	B
CHEM 331	LAB METHODS & TECHN III	3.00	A
CHEM 336	PHYSICAL CHEMISTRY II	3.00	A
MATH 201	INTRO TO LINEAR ALGEBRA	3.00	A
MATH 345	INTRO TO APPLIED MATHEMATICS	3.00	A

DEAN'S HIGH HONORS 05/12/98

Term GPA:	3.810	Term Totals	<u>Attempted</u> 16.00	<u>Earned</u> 16.00	<u>Averaged</u> 16.00	<u>Points</u> 61.000
-----------	-------	-------------	---------------------------	------------------------	--------------------------	-------------------------

Recipient:

Ronald Grimm

This official transcript is printed on light blue security paper and does not require a raised seal. The registrar's signature must appear below. See reverse side for transcript key and authenticity confirmation information.



Amy Hammett
 Amy Hammett
 University Registrar

THIS DOCUMENT NOT VALID WITHOUT BLUE RIBBON DIGITAL CERTIFICATE

BLUE RIBBON CERTIFICATE SHOULD REMAIN VISIBLE AS DOCUMENT SCROLLS

CASE WESTERN RESERVE UNIVERSITY

OFFICE OF THE REGISTRAR • CLEVELAND, OHIO 44106-7042 • registrar@cwru.edu

Student ID: 3155353
 SSN: XXX-XX-6520
 Student Name: Ronald L Grimm

Official Transcript

Page 3 of 3
 07/12/2012
 DOCID:1614682

Fall 1998

<u>Course</u>	<u>Description</u>	<u>Attempted</u>	<u>Grade</u>
APMU 383B	JAZZ ENSEMBLE II	1.00	A
APMU 383D	SPARTAN MARCHING BAND	1.00	A
CHEM 397	RESEARCH FOR UNDERGRADUATES	3.00	A
CHEM 446	QUANTUM MECHANICS I	3.00	B
ECES 251	NUMERICAL METHODS I	3.00	A
ECES 333	INTRO TO DATA STRUCTURES	4.00	A
MATH 380	INTRODUCTION TO PROBABILITY	3.00	A

DEAN'S HIGH HONORS 12/22/98

			<u>Attempted</u>	<u>Earned</u>	<u>Averaged</u>	<u>Points</u>
Term GPA:	3.830	Term Totals	18.00	18.00	18.00	69.000

Spring 1999

<u>Course</u>	<u>Description</u>	<u>Attempted</u>	<u>Grade</u>
APMU 383B	JAZZ ENSEMBLE II	1.00	A
CHEM 332	LAB METHODS & TECHNIQUES IV	3.00	B
CHEM 397	RESEARCH FOR UNDERGRADUATES	3.00	A
CHEM 450	MOLECULAR SPECTROSCOPY	3.00	B
ECES 375	AUTONOMOUS ROBOTICS	3.00	A
OPRE 348	PERSONAL INVESTMENT STRATEGIES	3.00	A

			<u>Attempted</u>	<u>Earned</u>	<u>Averaged</u>	<u>Points</u>
Term GPA:	3.630	Term Totals	16.00	16.00	16.00	58.000

<u>Career Totals</u>			<u>Attempted</u>	<u>Earned</u>	<u>Averaged</u>	<u>Points</u>
Cum GPA:	3.600	Cum Totals	134.00	134.00	134.00	482.000

Total Credits Earned: 134.00

End of Undergraduate Record
 End of Transcript

Recipient:

Ronald Grimm

This official transcript is printed on light blue security paper and does not require a raised seal. The registrar's signature must appear below. See reverse side for transcript key and authenticity confirmation information.



Amy Hammett
 Amy Hammett
 University Registrar

THIS DOCUMENT NOT VALID WITHOUT BLUE RIBBON DIGITAL CERTIFICATE

BLUE RIBBON CERTIFICATE SHOULD REMAIN VISIBLE AS DOCUMENT SCROLLS



TRANSCRIPT KEY

ACCREDITATION

Case Western Reserve University is accredited by the Higher Learning Commission of the North Central Association of Colleges and Schools. In addition, many of its programs are accredited by nationally recognized individual accrediting associations.

RELEASE OF INFORMATION

This educational record is subject to the Family Educational Rights and Privacy Act of 1974, as amended. It is released on the condition that the recipient will not permit any other party to have access to such information without the written consent of the student.

CALENDAR

The normal academic calendar is expressed in semester hours and consists of two semesters (Fall and Spring). There is also an optional summer term.

HISTORICAL GRADING SYSTEMS

Grading systems in use prior to Fall 2008 and other grading systems in use for Case Western Reserve University schools, colleges and predecessors are described further at <http://www.case.edu/registrar/grades.html>.

FIRST TIME FIRST YEAR UNDERGRADUATE STUDENTS

Effective Fall 1987, first time first year full-time undergraduate students are eligible during their first two semesters of enrollment to have courses with grades of F, NP or W suppressed from the transcript. Effective Fall 2006, only courses with a grade of W are eligible for transcript suppression.

ACADEMIC HONORS, ACADEMIC PROBATION, DISMISSAL/SEPARATION AND OTHER DESIGNATIONS

Each school within the University has specific academic policies for determining term honors, academic probation or academic dismissal/separation. Contact the University Registrar's office for further information.

TRANSCRIPT AUTHENTICITY

Official transcripts bear the printed University seal, the signature of the University Registrar and are printed on blue security paper.

GRADING SYSTEM

As of Fall 2008 the following grading system is in use:

Grade	Meaning	Quality Points	Notes
A	Excellent	4.000	
A-		3.666	1
B+		3.333	1
B	Good	3.000	
B-		2.666	1
C+		2.333	1
C	Fair	2.000	
C-		1.666	1
D+		1.333	2
D	Passing	1.000	3
D-		0.666	2
F	Failure	0.000	

OTHER GRADES

Grade	Meaning	Notes
AD	Successful audit	9
AE	Achieves or exceeds competencies	5
AP	Advanced placement	4
AS	Advanced subsidiary	4
COM	Commendable	5
CR	Earns credit, credit/no credit course	
H	Honors	6
I	Incomplete	
IB	International baccalaureate	4
M	Meets or exceeds expectations	5
NC	No credit, credit/no credit course	7
NG	Unsuccessful audit	9
NOG	Non-graded course	
NP	No pass	
P	Pass	
PR	Proficiency	
R	In progress or extends > one term	
RPT	Repeated course (until Summer 2006)	
S	Satisfactory	8
SA	Special audit or alumni/senior audit	9
TR	Transfer	4
U	Unsatisfactory	8
W	Withdrawal from the class	
WD	Withdrawal from all classes	
WF	Withdrawn under Acad Regs 5 & 6	7

Notes

- 1 - Schools of Applied Social Science, Dental Medicine, Law only
- 2 - Schools of Dental Medicine, Law only
- 3 - Not applicable for Schools of Applied Social Science, Nursing
- 4 - Test credit or transfer credit only
- 5 - School of Medicine only
- 6 - Schools of Law (LL.M.) and Medicine only
- 7 - School of Law only
- 8 - Master's/doctoral theses, EMBA seminar courses, Schools of Law, Medicine, School of Dental Medicine (M.S.D.) only
- 9 - Included in hours attempted, but not in hours earned or GPA

COURSE NUMBERING

100 - 199	Elementary Courses
200 - 299	Intermediate Courses
300 - 399	Advanced Undergraduate Courses
400 & up	Graduate Courses

The above numbering system does not apply to the schools of Dental Medicine, Law, Medicine (see below) and Nursing.

SCHOOL OF MEDICINE

GRADING SYSTEM

University Track: Core clerkship and clinical electives are graded H, COM, S or U. Electives in years I and II are graded Pass/No Pass. Preclinical courses are graded M or U though June 2009. Beginning July 2009 preclinical courses are graded AE or U.

College Track (Cleveland Clinic Lerner College of Medicine): All courses graded M or U through June 2009. Beginning July 2009 all courses graded AE or U. Competencies are used to assess performance and are described further at: http://www.case.edu/registrar/CCLCM_competencies.pdf

Note: Cumulative Grade Point Average (GPA) is not applicable to the School of Medicine.

COURSE NUMBERING

Series	Description
1000	1 st year level courses
2000	2 nd year level courses
3000	3 rd year level courses
4000	4 th year level courses
8000	Unlisted electives/Away elective
9000	Years I and II (preclinical, optional) electives
alpha suffix	Courses offered at area hospitals

QUESTIONS

Questions regarding transcripts may be directed to the University Registrar's Office, (216) 368-4310, registrar@case.edu. For more information, see <http://www.case.edu/registrar>.