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Recipient: Student:

NOAH ZWEBEN Noah Jacob Zweben

noahzweben@gmail.com njz2104@columbia.edu

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COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK

NAME: Noah Jacob Zweben

SSN#: XXX-XX-1123

SCHOOL: FU FOUNDATN SCHL OF ENGINEERING & APPLIED SCIENCE: UGRAD

DEGREE(S) AWARDED:

DATE AWARDED:

Bachelor of Science

May 17, 2017

MAJOR: COMPUTER SCIENCE HONORS: SUMMA CUM LAUDE

VALEDICTORIAN

		OURSE UMBER	TITLE	POINTS	GRADE		SUBJE(OURSE JMBER	TITLE	POINTS	GRADE	
							医多克克						
			Fall 2013							Spring 2015			
CHEM	С	1403	GENERAL CHEMISTRY I-LECTURES	3.50	A+		APMA	E	2101	INTRO TO APPLIED MATHEMATICS	3.00	A+	
CHEM	С	1405	GENERAL CHEMISTRY I - REC	0.00			COCI	C	1102	CONTEMP WESTRN CIVILIZATION II	4.00	A+	
ENGL	C	1010	UNIVERSITY WRITING	3.00	A		DNCE	BC	2252	AFRICAN DANCE I	1.00	A	
MATH	V	1102	CALCULUS II	3.00	A+		ECON	W	1105	PRINCIPLES OF ECONOMICS	4.00	A+	
MECE			MECH ENGI:MICROMACH/JUMBO JETS	3.00	A+		ECON			PRINCIPLES OF ECONOMICS-DISC	0.00		
PHYS	С	1401	INTRO TO MECHANICS & THERMO	3.00	A+		ENME			MECHANICS I	4.00		
					GPA	4.266	MECE	E	3408	COMPUTER GRAPHICS & DESIGN	3.00		ne e
												GPA	4.312
HONORS	6: D	EAN'S	LIST				HONORS	S: DI	EAN'S	LIST			
							MANAGEMENT.	Marina					
			Spring 2014										
			Intelligence of the second				CALLED .			Fall 2015			
ELEN	E	1201	INTRO-ELECTRICAL ENGINEERING	3.50	A+		0.50						
ENGI	E	1006	INTRO TO COMP FOR ENG/APP SCI	3.00	A+		COMS	W	1004	INTRO-COMPUT SCI/PROGRAM-JAVA	3.00	A+	
ENGI	E	1102	THE ART OF ENGINEERING	4.00	A		COMS	W	3134	DATA STRUCTURES IN JAVA	3.00	A+	
MATH	V	1201	CALCULUS III	3.00	A+		COMS	W	3203	INTRO-COMBINATORICS/GRAPH THRY	3.00	A+	
PHYS	С	1402	INTRO TO ELEC/MAGNETSM & OPTCS	3.00	A		CSEE	W	3827	FUNDAMENTALS OF COMPUTER SYSTS	3.00	A+	
					GPA	4.190	HUMA	W	1123	MASTERPIECES OF WESTERN MUSIC	3.00	A+	
													4.330
												GPA	4.330
HONORS	5: D	EAN'S	LIST									GPA	4.330
HONORS	6: D	EAN'S	LIST				HONORS	S: DI	EAN'S	LIST		GPA	4.330
HONORS	5: D	EAN'S					HONORS	S: DI	EAN'S	LIST		GPA	4.330
HONORS	5: D	EAN'S	LIST Fall 2014				HONORS	S: DI	EAN'S			GPA	4.330
			Fall 2014	4.00	A		HONORS	S: DI	EAN'S	LIST Spring 2016		GPA	4.550
HONORS COCI ELEN	С	1101	Fall 2014 CONTEMP WESTERN CIVILIZATION I		A A+		HONORS				0.00	GPA	4.330
COCI	C E	1101 3081	Fall 2014		A+			E	0004	Spring 2016	0.00		4.330
COCI ELEN	C E E	1101 3081 3201	Fall 2014 CONTEMP WESTERN CIVILIZATION I CIRCUIT ANALYSIS LABORATORY	1.00	A+ A+		COMS	E W	0004 3157	Spring 2016 APPLICATIONS-TRACK		A+	4.330
COCI ELEN ELEN	C E E V	1101 3081 3201 1202	Fall 2014 CONTEMP WESTERN CIVILIZATION I CIRCUIT ANALYSIS LABORATORY CIRCUIT ANALYSIS	1.00 3.50	A+ A+		COMS	E W W	0004 3157 3261	Spring 2016 APPLICATIONS-TRACK ADVANCED PROGRAMMING	4.00	A+ A	4.330
COCI ELEN ELEN MATH	C E E V C	1101 3081 3201 1202 1001	Fall 2014 CONTEMP WESTERN CIVILIZATION I CIRCUIT ANALYSIS LABORATORY CIRCUIT ANALYSIS CALCULUS IV	1.00 3.50 3.00	A+ A+ A+	2	COMS COMS COMS	E W W	0004 3157 3261 4160	Spring 2016 APPLICATIONS-TRACK ADVANCED PROGRAMMING COMPUTER SCIENCE THEORY	4.00	A+ A A+	4.330
COCI ELEN ELEN MATH PHED	C E E V C	1101 3081 3201 1202 1001 1403	Fall 2014 CONTEMP WESTERN CIVILIZATION I CIRCUIT ANALYSIS LABORATORY CIRCUIT ANALYSIS CALCULUS IV PHYSICAL EDUCATION ACTIVITIES	1.00 3.50 3.00 1.00 3.00	A+ A+ A+ P	2	COMS COMS COMS	E W W	0004 3157 3261 4160 2253	Spring 2016 APPLICATIONS-TRACK ADVANCED PROGRAMMING COMPUTER SCIENCE THEORY COMPUTER GRAPHICS	4.00 3.00 3.00	A+ A A+	4.330
COCI ELEN ELEN MATH PHED PHYS	C E E V C	1101 3081 3201 1202 1001 1403	Fall 2014 CONTEMP WESTERN CIVILIZATION I CIRCUIT ANALYSIS LABORATORY CIRCUIT ANALYSIS CALCULUS IV PHYSICAL EDUCATION ACTIVITIES INTRO-CLASSCL & QUANTUM WAVES	1.00 3.50 3.00 1.00 3.00	A+ A+ A+ P A- A	4.084	COMS COMS COMS COMS DNCE POLS	E W W BC	0004 3157 3261 4160 2253 3100	Spring 2016 APPLICATIONS-TRACK ADVANCED PROGRAMMING COMPUTER SCIENCE THEORY COMPUTER GRAPHICS AFRICAN DANCE II	4.00 3.00 3.00 0.00	A+ A A+ A	4.330
COCI ELEN ELEN MATH PHED PHYS	C E E V C	1101 3081 3201 1202 1001 1403	Fall 2014 CONTEMP WESTERN CIVILIZATION I CIRCUIT ANALYSIS LABORATORY CIRCUIT ANALYSIS CALCULUS IV PHYSICAL EDUCATION ACTIVITIES INTRO-CLASSCL & QUANTUM WAVES	1.00 3.50 3.00 1.00 3.00	A+ A+ A+ P A- A	4.084	COMS COMS COMS COMS DNCE POLS	E W W BC	0004 3157 3261 4160 2253 3100	Spring 2016 APPLICATIONS-TRACK ADVANCED PROGRAMMING COMPUTER SCIENCE THEORY COMPUTER GRAPHICS AFRICAN DANCE II JUSTICE	4.00 3.00 3.00 0.00 3.00	A+ A A+ A P	4.070
COCI ELEN ELEN MATH PHED PHYS	C E E V C C	1101 3081 3201 1202 1001 1403 1493	Fall 2014 CONTEMP WESTERN CIVILIZATION I CIRCUIT ANALYSIS LABORATORY CIRCUIT ANALYSIS CALCULUS IV PHYSICAL EDUCATION ACTIVITIES INTRO-CLASSCL & QUANTUM WAVES INTRO TO EXPERIMENTAL PHYS-LAB	1.00 3.50 3.00 1.00 3.00	A+ A+ A+ P A- A	4.084	COMS COMS COMS COMS DNCE POLS	E W W BC	0004 3157 3261 4160 2253 3100	Spring 2016 APPLICATIONS-TRACK ADVANCED PROGRAMMING COMPUTER SCIENCE THEORY COMPUTER GRAPHICS AFRICAN DANCE II JUSTICE	4.00 3.00 3.00 0.00 3.00	A+ A A+ A P	
COCI ELEN ELEN MATH PHED PHYS PHYS	C E E V C C	1101 3081 3201 1202 1001 1403 1493	Fall 2014 CONTEMP WESTERN CIVILIZATION I CIRCUIT ANALYSIS LABORATORY CIRCUIT ANALYSIS CALCULUS IV PHYSICAL EDUCATION ACTIVITIES INTRO-CLASSCL & QUANTUM WAVES INTRO TO EXPERIMENTAL PHYS-LAB	1.00 3.50 3.00 1.00 3.00	A+ A+ A+ P A- A	4.084	COMS COMS COMS COMS DNCE POLS	E W W BC	0004 3157 3261 4160 2253 3100	Spring 2016 APPLICATIONS-TRACK ADVANCED PROGRAMMING COMPUTER SCIENCE THEORY COMPUTER GRAPHICS AFRICAN DANCE II JUSTICE INTRO PROBABILITY/STATISTICS	4.00 3.00 3.00 0.00 3.00	A+ A A+ A P	
COCI ELEN ELEN MATH PHED PHYS PHYS	C E E V C C	1101 3081 3201 1202 1001 1403 1493	Fall 2014 CONTEMP WESTERN CIVILIZATION I CIRCUIT ANALYSIS LABORATORY CIRCUIT ANALYSIS CALCULUS IV PHYSICAL EDUCATION ACTIVITIES INTRO-CLASSCL & QUANTUM WAVES INTRO TO EXPERIMENTAL PHYS-LAB	1.00 3.50 3.00 1.00 3.00	A+ A+ A+ P A- A	4.084	COMS COMS COMS COMS DNCE POLS	E W W BC	0004 3157 3261 4160 2253 3100	Spring 2016 APPLICATIONS-TRACK ADVANCED PROGRAMMING COMPUTER SCIENCE THEORY COMPUTER GRAPHICS AFRICAN DANCE II JUSTICE	4.00 3.00 3.00 0.00 3.00	A+ A A+ A P	
COCI ELEN ELEN MATH PHED PHYS PHYS	C E E V C C	1101 3081 3201 1202 1001 1403 1493	Fall 2014 CONTEMP WESTERN CIVILIZATION I CIRCUIT ANALYSIS LABORATORY CIRCUIT ANALYSIS CALCULUS IV PHYSICAL EDUCATION ACTIVITIES INTRO-CLASSCL & QUANTUM WAVES INTRO TO EXPERIMENTAL PHYS-LAB	1.00 3.50 3.00 1.00 3.00	A+ A+ A+ P A- A	4.084	COMS COMS COMS COMS DNCE POLS SIEO	E W W BC	0004 3157 3261 4160 2253 3100 3600	Spring 2016 APPLICATIONS-TRACK ADVANCED PROGRAMMING COMPUTER SCIENCE THEORY COMPUTER GRAPHICS AFRICAN DANCE II JUSTICE INTRO PROBABILITY/STATISTICS Fall 2016	4.00 3.00 3.00 0.00 3.00 4.00	A+ A A+ A P A- GPA	
COCI ELEN ELEN MATH PHED PHYS PHYS	C E E V C C	1101 3081 3201 1202 1001 1403 1493	Fall 2014 CONTEMP WESTERN CIVILIZATION I CIRCUIT ANALYSIS LABORATORY CIRCUIT ANALYSIS CALCULUS IV PHYSICAL EDUCATION ACTIVITIES INTRO-CLASSCL & QUANTUM WAVES INTRO TO EXPERIMENTAL PHYS-LAB	1.00 3.50 3.00 1.00 3.00	A+ A+ A+ P A- A	4.084	COMS COMS COMS COMS DNCE POLS	E W W W BC W	0004 3157 3261 4160 2253 3100 3600	Spring 2016 APPLICATIONS-TRACK ADVANCED PROGRAMMING COMPUTER SCIENCE THEORY COMPUTER GRAPHICS AFRICAN DANCE II JUSTICE INTRO PROBABILITY/STATISTICS Fall 2016 UNDERGRAD PROJECTS IN COMP SCI	4.00 3.00 3.00 0.00 3.00 4.00	A+ A A+ A P A- GPA	
COCI ELEN ELEN MATH PHED PHYS PHYS	C E E V C C	1101 3081 3201 1202 1001 1403 1493	Fall 2014 CONTEMP WESTERN CIVILIZATION I CIRCUIT ANALYSIS LABORATORY CIRCUIT ANALYSIS CALCULUS IV PHYSICAL EDUCATION ACTIVITIES INTRO-CLASSCL & QUANTUM WAVES INTRO TO EXPERIMENTAL PHYS-LAB	1.00 3.50 3.00 1.00 3.00	A+ A+ A+ P A- A	4.084	COMS COMS COMS COMS DNCE POLS SIEO	E W W W BC W W	0004 3157 3261 4160 2253 3100 3600	Spring 2016 APPLICATIONS-TRACK ADVANCED PROGRAMMING COMPUTER SCIENCE THEORY COMPUTER GRAPHICS AFRICAN DANCE II JUSTICE INTRO PROBABILITY/STATISTICS Fall 2016 UNDERGRAD PROJECTS IN COMP SCI COMPUTER VISION	4.00 3.00 3.00 0.00 3.00 4.00	A+ A A+ A P A- GPA	
COCI ELEN ELEN MATH PHED PHYS PHYS	C E E V C C	1101 3081 3201 1202 1001 1403 1493	Fall 2014 CONTEMP WESTERN CIVILIZATION I CIRCUIT ANALYSIS LABORATORY CIRCUIT ANALYSIS CALCULUS IV PHYSICAL EDUCATION ACTIVITIES INTRO-CLASSCL & QUANTUM WAVES INTRO TO EXPERIMENTAL PHYS-LAB	1.00 3.50 3.00 1.00 3.00	A+ A+ A+ P A- A	4.084	COMS COMS COMS DNCE POLS SIEO COMS COMS	E W W W BC W W	0004 3157 3261 4160 2253 3100 3600 3998 4731 4733	Spring 2016 APPLICATIONS-TRACK ADVANCED PROGRAMMING COMPUTER SCIENCE THEORY COMPUTER GRAPHICS AFRICAN DANCE II JUSTICE INTRO PROBABILITY/STATISTICS Fall 2016 UNDERGRAD PROJECTS IN COMP SCI	4.00 3.00 3.00 0.00 3.00 4.00	A+ A A+ A P A- GPA	
COCI ELEN ELEN MATH PHED PHYS PHYS	C E E V C C	1101 3081 3201 1202 1001 1403 1493	Fall 2014 CONTEMP WESTERN CIVILIZATION I CIRCUIT ANALYSIS LABORATORY CIRCUIT ANALYSIS CALCULUS IV PHYSICAL EDUCATION ACTIVITIES INTRO-CLASSCL & QUANTUM WAVES INTRO TO EXPERIMENTAL PHYS-LAB	1.00 3.50 3.00 1.00 3.00	A+ A+ A+ P A- A	4.084	COMS COMS COMS DNCE POLS SIEO COMS COMS COMS	E W W W BC W W	0004 3157 3261 4160 2253 3100 3600 3998 4731 4733 6998	Spring 2016 APPLICATIONS-TRACK ADVANCED PROGRAMMING COMPUTER SCIENCE THEORY COMPUTER GRAPHICS AFRICAN DANCE II JUSTICE INTRO PROBABILITY/STATISTICS Fall 2016 UNDERGRAD PROJECTS IN COMP SCI COMPUTER VISION COMPUTATNL ASPECTS OF ROBOTICS	4.00 3.00 3.00 0.00 3.00 4.00	A+ A A+ A P A- GPA A A+ A+	

This official transcript was produced on NOVEMBER 16, 2017.



SEAL OF COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK

Barry Kank

Barry S. Kane Associate Vice President and University Registrar

SCHOOL: FU FOUNDATN SCHL OF ENGINEERING & APPLIED SCIENCE:UGRAD

POINTS GRADE

Spring 2017

COMS W	3998	UNDERGRAD PROJECTS IN COMP SCI	2.00 A
COMS W	4115	PROGRAMMING LANG & TRANSLATORS	3.00 A+
COMS E	4156	ADVANCED SOFTWARE ENGINEERING	3.00 A+
COMS W	4172	3D UI AND AUGMENTED REALITY	3.00 A
HIST U	JN 2555	AMERICA IN DEPRESSION & WAR	4.00 A
HIST U	JN 2556	AMER IN DEPRESSION & WAR-DISC	0.00

GPA 4.132

HONORS: DEAN'S LIST

NAME: Noah Jacob Zweben SSN#: XXX-XX-1123 SUBJECT COURSE TITLE

NUMBER

REMARKS

Cumulative GPA: 4.186

WATOO TITLE

SEAL OF COLUMBIA UNIVERSITY

Barry Kan

Barry S. Kane Associate Vice President and University Registrar

FINAL

OFFICE OF THE UNIVERSITY REGISTRAR 1140 AMSTERDAM AVENUE 205 KENT HALL, MAIL CODE 9202 NEW YORK, NEW YORK 10027 (212) 854-4400



Columbia College, Engineering and Applied Science, General Studies, Graduate School of Arts and Sciences, International and Public Affairs, Library Service, Human Nutrition, Nursing, Occupational Therapy, Physical Therapy, Professional Studies, Special Studies Program, Summer Session

A, B, C, D, F, (excellent, good, fair, poor, failing). NOTE: Plus and minus signs and the grades of P (pass) and HP (high pass) are used in some schools. The grade of D is not used in Graduate Nursing,

Occupational Therapy, and Physical Therapy.

American Language Program, Center for Psychoanalytic Training and Research, Journalism

P (pass), F (failing). Grades of A, B, C, D, P (pass), F (failing) — used for some offerings from the American Language Program Spring 2009 and thereafter.

HP (high pass), P (pass), LP (low pass), F (failing), and A, B, C, D, F — used June 1991 and thereafter P (pass), F (failing) — used prior to June 1991.

 $\frac{\text{Arts}}{\text{P (pass), LP (low pass), F (fail)}}. \text{ H (honors) used prior to June 2015}.$

Business

H (honors), HP (high pass), P1 (pass), LP (low pass), P (unweighted pass), F (failing); plus (+) and minus (-) used for H, HP and P1 grades Summer 2010 and thereafter.

College of Physicians and Surgeons H (honors), HP (high pass), P (pass), F (failing).

College of Dental Medicine

H (honors), P (pass), F (failing).

A through C [plus (+) and minus (-) with A and B only], CR (credit - equivalent to passing), F (failing) is used beginning with the class which entered Fall 1994. Some offerings are graded by HP (high pass), P (pass), LP (low pass), F (failing). W (withdrawn) signifies that the student was permitted to drop a course, for which he or she had been officially registered, after the close of the Law School's official Change of Program (add/drop) period. It carries no connotation of quality of student performance, nor is it considered in the calculation of academic honors. E (excellent), VG (very good), G (good), P (pass), U (unsatisfactory), CR (credit) used from 1970 through the class which entered in Fall 1993.

Any student in the Law School's Juris Doctor program may, at any time, request that he or she be graded on the basis of Credit-Fail. In such event, the student's performance in every offering is graded in accordance with the standards outlined in the school's bulletin; but recorded on the transcript as Credit-Fail. A student electing the Credit-Fail option may revoke it at any time prior to graduation and receive or request a copy of his or her transcript with grades recorded in accordance with the policy outlined in the school bulletin. In all cases, the transcript received or requested by the student shall show, on a cumulative basis, all of the grades of the student presented in single format—i.e., all grades shall be in accordance with those set forth in the school bulletin, or all grades shall be stated as Credit or Fail.

Public Health

A, B, C, D, F - used Summer 1985 and thereafter. H (honors), P (pass), F (failing) — used prior to Summer 1985.

Social Work
E (excellent), VG (very good), G (good), MP (minimum pass), F (failing).
A though C is used beginning with the class which entered Fall 1997. Plus signs used with B and C only, while minus signs are used with all letter grades. The grade of P (pass) is given only for select classes.

OTHER GRADES USED IN THE UNIVERSITY

AB = Excused absence from final examination.

AR = Administrative Referral awarded temporarily if a final grade cannot be determined without

AU = Audit (auditing division only).

CP = Credit Pending. Assigned in graduate courses which regularly involve research projects extending beyond the end of the term. Until such time as a passing or failing grade is assigned, satisfactory progress is implied.

F* = Course dropped unofficially

IN = Work Incomplete.

% of A

MU = Make-Up. Student has the privilege of taking a second final examination.

 ${\bf R}$ = For the Business School: Indicates satisfactory completion of courses taken as part of an exchange program and earns academic credit.

R = For Columbia College: The grade given for course taken for no academic credit, or notation given for internship.

R = For the Graduate School of Arts and Sciences: By prior agreement, only a portion of total course work completed. Program determines academic credit

R = For the School of International and Public Affairs: The grade given for a course taken for no academic credit.

UW = Unofficial Withdrawal.

UW = For the College of Physicians and Surgeons: Indicates significant attempted coursework which the student does not have the opportunity to complete as listed due to required repetition or withdrawal.

W = Withdrew from course

YC = Year Course. Assigned at the end of the first term of a year course. A single grade for the entire course is given upon completion of the second term. Until such time as a passing or failing grade is assigned, satisfactory progress is implied.

OTHER INFORMATION

All students who cross-register into other schools of the University are graded in the A, B, C, D, F grading system regardless of the grading system of their own school, except in the schools of Arts (prior to Spring 1993) and in Journalism (prior to Autumn 1992), in which the grades of P (pass) and F (failing) were assigned. Notations at the end of a term provide documentation of the type NOTE:

Effective fall 1996: Transcripts of Columbia College students show the percentage of grades in the A (A+, A, A-) range in all classes with at least 12 grades, the mark of R excluded. Calculations are taken at two points in time, three weeks after the last final examination of the term and three weeks after the last final of the next term. Once taken, the percentage is final even if grades change or if grades are submitted after the calculation. For additional information about the grading policy of the Faculty of Columbia College, consult the College Bulletin.

KEY TO COURSE LISTINGS

A course listing consists of an area, a capital letter(s) (denotes school bulletin) and the four digit course number (see below).

The capital letter indicates the University school, division, or affiliate offering the course.

School of Nursing

Α	Graduate School of Architecture, Planning, and	0	Other Universities or Affiliates/Auditing				
	Preservation	P	School of Public Health				
В	School of Business	Q	Computer Technology/Applications				
BC	Barnard College	R	School of the Arts				
С	Columbia College	S	Summer Session				
D	College of Dental Medicine	Ť	School of Social Work				
E	School of Engineering and Applied Science	TA-TZ	Teachers College				
F	School of General Studies	U	School of International and Public Affairs				
G	Graduate School of Arts and Sciences	V	Interschool Course				
Н	Reid Hall (Paris)	W	Interfaculty Course				
J	Graduate School of Journalism	Υ	Teachers College				
K	School of Library Services/Continuing	Z	American Language Program				
	Education (effective Fall 2002)						
L	School of Law						
M	College of Physicians and Surgeons, Institute of Human Nutrition, Program in Occupational	UNDER THE PROVISION OF THE FAMILY EDUCATION RIGHTS AND PRIVACY ACT OF 1974, THIS					
	Therapy, Program in Physical Therapy,	TRANSCRIPT MAY NOT BE RELEASED OR REVEALED					
	Psychoanalytical Training and Research		RD PARTY WITHOUT THE WRITTEN CONSENT				
	rsychoanalytical framing and Research	IOAIIII	ND FARTT WITHOUT THE WRITTEN CONSENT				

The first digit of the course number indicates the level of the course, as follows:

Course that cannot be credited toward any degree

Undergraduate course Undergraduate course, advanced

Graduate course open to qualified undergraduates

Graduate course open to qualified undergraduates

Graduate course

Graduate course Graduate course, advanced

Graduate research course or seminar

Note: Level Designations Prior to 1961:

1-99 Undergraduate courses 100-299 Lower division graduate courses 300-999 Upper division graduate courses

The term designations are as follows: X=Autumn Term, Y=Spring Term, S=Summer Term Notations at the end of a term provide documentation of the type of separation from the University.

THE ABOVE INFORMATION REFLECTS GRADING SYSTEMS IN USE SINCE SPRING 1982. THE CUMULATIVE INDEX, IF SHOWN, DOES NOT REFLECT COURSES TAKEN BEFORE SPRING OF 1982. ALL TRANSCRIPTS ISSUED FROM THIS OFFICE ARE OFFICIAL DOCUMENTS. TRANSCRIPTS ARE PRINTED ON TAMPER-PROOF PAPER, ELIMINATING THE NEED FOR SIGNATURES AND STAMPS ON THE BACK OF ENVELOPES. FOR CERTIFICATION PURPOSES, A REPRODUCED COPY OF THIS RECORD SHALL NOT BE VALID. THE HEAT-SENSITIVE STRIP, LOCATED ON THE BOTTOM EDGE OF THE FACE OF THE TRANSCRIPT, WILL CHANGE FROM BLUE TO CLEAR WHEN HEAT OR PRESSURE IS APPLIED. A BLUE SIGNATURE ALSO ACCOMPANIES THE UNIVERSITY SEAL ON THE FACE OF THE TRANSCRIPT

OF THE STUDENT.