



The Edna Bailey Sussman Fund

EDNA BAILEY SUSSMAN FUND

Applicant's name: Thomas Mann

Date: January 27, 2020

Address: 1211 Madison St
Syracuse, NY 13210

Graduate program and degree sought: Forest Resources Management, M.S.

Telephone number: (502) 410-9245

Faculty Sponsor: Dr. Ruth D. Yanai

Email: thmann@esf.edu

Internship organization and address:

US Forest Service Northern Research Station
271 Mast Road
Durham, NH 03801

Internship objectives:

I will collect soil samples from forest stands that have received nine years of annual nitrogen and phosphorus additions. I will then analyze their soil organic matter content for its mass and chemical composition to contribute to our understanding of nutrient controls on the decomposition of organic matter and carbon sequestration in soils.

Period of work: 1 June 2020 through 7 August 2020 (14 weeks)

Salary provided by organization: None

Amount requested from Sussman Fund: \$7,350.00

14 weeks x 35 hours per week x \$15 per hour = \$7,350.00

Faculty Sponsor

(Signature)

Applicant

(Signature)

Student Proposal

Over the last 150 years, the global carbon cycle has been violently disrupted by the anthropogenic enhancement of atmospheric carbon dioxide concentrations. Vast reserves of carbon that for millennia had been stored belowground as fossil fuels have been released to the atmosphere, altering not only the quantity of carbon moving through Earth systems but also the delicate equilibrium of carbon distribution across global pools. Because carbon is a fundamental element of all life on Earth, a powerful driver of global climate, and a key component in biogeochemical processes, it is critically important that the scientific community have a thorough understanding of the mechanisms that control carbon movement through natural systems.

As decaying organic matter is broken down into progressively smaller components, those smaller particles are better able to form aggregates with mineral soil, protecting them—and the carbon they contain—from rapid decomposition. This fraction of soil organic matter bound to mineral aggregates can persist in soils for hundreds of years, effectively increasing the quantity of carbon they sequester. However, as nitrogen is added to natural systems through the combustion of fossil fuels, plants incorporate more nitrogen in leaf tissue, ultimately increasing the nitrogen content of decaying organic matter. Could such changes to the chemistry of natural systems affect the rate at which soil organic matter aggregates to mineral soil? Would changes to that rate alter the long-term carbon-sequestration capacity of soils?

With funding from the Edna Bailey Sussman Foundation, I propose to analyze the chemical content of soil organic matter in three forest sites in New Hampshire that have received annual nitrogen and phosphorus additions since 2011. Using the density fractionation method, each sample will be divided into three fractions, each bound more tightly to mineral soil and better protected from decomposition than the last. Those fractions will then be analyzed (1) to measure whether nitrogen and phosphorus additions have affected the chemistry of soil organic matter; (2) to determine whether nutrient additions alter the quantity of soil organic matter in each fraction; and, if those changes are too small to detect, (3) to determine the minimum detectable difference for a sample of this size. This analysis will help to integrate our understanding of the carbon and nitrogen cycles and will improve the scientific community's ability to account for carbon on a global scale.

My internship will be supervised by Dr. John Campbell, a US Forest Service researcher who uses experimentation and modeling to explore how environmental changes affect the biogeochemistry of forest ecosystems. Dr. Campbell will offer guidance in soil sampling, chemical analysis, and model parameterization, and I will meet with him regularly throughout data collection and analysis. Data from this project will be used in my MS thesis, which will involve the parameterization of two soil chemistry models to develop projections for the long-term effect of nutrient additions on the chemistry of soil organic matter. I will acknowledge the Edna Bailey Sussman Foundation in presentations and publications produced through this project, including publications of my master's thesis.

Word count: 500

Letter from Internship Sponsor

Date: January 27, 2020

Dear Edna Bailey Sussman Foundation,

I am writing in strong support of the work proposed by Thomas Mann to evaluate how additions of nitrogen and phosphorus in forest ecosystems may affect carbon storage in soils. Thomas will measure the carbon bound on mineral soil at three sites in New Hampshire to determine susceptibility to decomposition. This research will address important questions about how human activities have influenced the long-term carbon sequestration capacity of soils.

The proposed project is part of a larger study called the Multiple Element Limitation in Northern Hardwood Ecosystems (MELNHE) project that is funded through the National Science Foundation. The overarching goal of the larger project is to understand nitrogen and phosphorus acquisition and limitation through a series of nutrient manipulations in northern hardwood forests. The additional work by Thomas would leverage and complement the on-going research in the larger project, in that it would help us understand impacts on carbon cycling that are caused by human-induced changes in nitrogen and phosphorus cycling.

I will gladly serve as the Internship Sponsor for Thomas. I will supervise Thomas and mentor him during all phases of the project. The work will be performed at three sites in the White Mountain National Forest in New Hampshire, two of which are experimental forests that are operated by my work unit at the US Forest Service. The proposed internship will take place from May through August 2020. This internship will result in a research paper, led by Thomas, that will be submitted for publication in a peer reviewed journal.

Please do not hesitate to contact me if you have any questions.

Sincerely,



John L. Campbell, Ph.D.
Research Ecologist



Letter from the Student's Faculty Advisor



January 27, 2020

To the Edna Bailey Sussman Foundation (c/o The Graduate School)

I am writing in support of Thomas Mann's application for a Sussman Internship with Dr. John Campbell of the Northern Research Station of the USDA Forest Service. The internship will start on June 1, 2020, and run through August 7, 2020.

Thomas is interested in soil organic matter, and this project will allow him to conduct research that will contribute to his MS thesis. The project will take place in a long-term nitrogen and phosphorus addition experiment that is located on US Forest Service property, including two Experimental Forests that are run by the Northern Research Station. One of these is the Hubbard Brook Experimental Forest, which has been a focus of John Campbell's research career. John's understanding of the study system will provide valuable context for Thomas's work. The project is exciting because it relates to changes in global carbon storage as well as contributing a mechanistic understanding of the importance of mineral-associated organic matter to nutrient cycling in forests.

I hope that this important project will merit selection by the Sussman Foundation. Please contact me if I can be of any further assistance in this matter.

Sincerely,

A handwritten signature in black ink, appearing to read "Ruth D. Yanai", with a stylized flourish at the end.

Ruth D. Yanai

Professor

SUNY College of Environmental Science and Forestry

210 Marshall Hall, 1 Forestry Drive, Syracuse, NY 13210

office: 1-315 470-6955 mobile: 1-315 345-7412 e-mail: rdyanai@syr.edu

<http://www.esf.edu/faculty/yanai>

Graduate Transcript

State University of New York College of Environmental Science and Forestry

State University of New York
 College of Environmental Science and Forestry
 1 Forestry Drive
 Syracuse, New York 13210

Student: Mann, Thomas Alexander
 I.D. No: XXX-XX-8535

Basis for Admission:
 Bachelor of Arts - Univ Notre Dame
 Bachelor of Arts - Univ Notre Dame

Record of Attendance:
 08/26/19 - Entered in MS program
Program: Forest Resources Management
Area of Study: Ecology and Ecosystems

Course Number and Title	Credit Hours	Grade	Grade Pts		
----- Fall Semester 2019 -----					
CIE 657 BIOGEOCHEMISTRY	3.0	A	12.00		
APM 625 SAMPLING METHODS	3.0	A	12.00		
EFB 530 PLANT PHYSIOLOGY	3.0	A	12.00		
FOR 557 FUNDAMENTALS OF GIS	3.0	SAU	0.00		
FOR 796 REDD+ CARBON ACCOUNTING	2.0	A	8.00		
FOR 797 RATES OF UNCERTAINTY REPO	1.0	A	4.00		
	Hours Carried	Hours Passed	Grade Points	GPA Hrs	Grd Pt Avg
Sem	15.0	12.0	48.00	12.00	4.000
Cum	15.0	12.0	48.00	12.00	4.000

----- Spring Semester 2020 -----					
APM 620 ANALYSIS OF VARIANCE	3.0		0.00		
FOR 635 FOR SOILS/THEIR ANALYSES	3.0		0.00		
FOR 659 ADVANCED GIS	3.0		0.00		
FOR 694 WRITING/SCIENTIFIC PUBS	3.0		0.00		
	Hours Carried	Hours Passed	Grade Points	GPA Hrs	Grd Pt Avg
Sem	12.0	0.0	0.00	0.00	0.000
Cum	27.0	12.0	48.00	12.00	4.000

***** End of MS Transcript *****

Print Date: 1/27/2020

Page 1 of 1

AN OFFICIAL SIGNATURE IS WHITE WITH A GREEN BACKGROUND REJECT DOCUMENT IF SIGNATURE BELOW IS ALTERED

This officially sealed and signed transcript is printed on green SCRIP-SAFE® security paper with the name of the college printed in white type across the face of the document. A raised seal is not required. When photocopied the word COPY should appear. A BLACK ON WHITE OR A COLOR COPY SHOULD NOT BE ACCEPTED.

Leslie A Rutkowski

Leslie A Rutkowski, Registrar

Official
 Academic
 Transcript



OFFICE OF THE REGISTRAR
SUNY College of Environmental Science and Forestry
Syracuse, New York 13210
315-470-6655

NAME

This institution was known as the "New York State College of Forestry at Syracuse University" until May 24, 1972 at which time it was changed to its present form.

OFFICIAL TRANSCRIPTS

Transcripts of credits earned at the College of Environmental Science and Forestry are prepared by this Office in accordance with the policies of the American Association of Collegiate Registrars and Admissions Officers. Transcripts are sent only upon the written request or consent of the student. Where SUNY-ESF transcripts show only credit hours earned at other institutions, the official transcript from these institutions have become a part of the student's permanent record in the office. SUNY-ESF does not make copies of other institutions' transcripts. It is necessary to obtain such transcripts directly from the institutions concerned. Official transcripts are imprinted with the seal of the College and the signature of the Registrar. A raised seal is not required.

CONDITIONS OF RELEASE OF INFORMATION

This transcript has been forwarded to you at the request of the student with the understanding that it will not be released to other parties. The Family Educational Rights and Privacy Act of 1974 prohibits release of this information without the student's written consent. Please return this material to us if you are unable to comply with this condition of release.

THE CREDIT UNIT

The unit of credit at the SUNY-ESF is the semester hour represents one class period of fifty-five (55) minutes in length each week for fifteen weeks, or the equivalent. Laboratory or field courses require two or three class periods per week minimum for each hour of credit.

THE GRADING SYSTEM

The following grading system went into effect in September 1978.

DEFINITIONS OF GRADES USED AND GRADE POINT INFORMATION

GRADE	GRADE POINTS/ CREDIT HOURS	DEFINITION
A =	4	= Excellent
A- =	3.7	=
B+ =	3.3	=
B =	3	= Good
B- =	2.7	=
C+ =	2.3	=
C =	2	= Average
C- =	1.7	=
D =	1	= Minimum Passing
F =	0	= Failing

GRADE

DEFINITION

I	=	Work Incomplete
P	=	Passed
S	=	Satisfactory
U	=	Unsatisfactory
WP	=	Withdrew Passing
WF	=	Withdrew Failing
W	=	Withdrew
SAU	=	Satisfactory Audit
UAU	=	Unsatisfactory Audit
V	=	Variable length course. Grade not yet due. Work satisfactory to date.

Any course taken at SUNY-ESF may be repeated. Any course taken at Syracuse University in which a grade of F was assigned may be repeated. Upon successful completion of the repeated course, the grade earned will be included in the semester and cumulative grade point averages, but the original grade in that course will revert to a grade of R (course that was repeated) on the transcript and will not be included in the current cumulative grade point average. The original grade received in the course will be shown in parentheses following the R [e.g. R (C)]. The cumulative grade point average will reflect the grade for the second time the course was taken if the course was repeated once. Grades for all subsequent times that the course is taken will be included in calculations of grade point average. Semester and cumulative grade point averages will be calculated in accordance with SUNY and college policies. The course's credits can count only once toward degree requirements. The "R" grade may be applied to replace initial course grades higher than "F" only if the initial course was taken in the Fall 2009 semester or later.

A course graded R is excluded from GPA calculations.

Prior to the Fall Semester 1978, pluses and minuses were not used.

GRADE POINT AVERAGE

Grade point averages are calculated by taking the number of grade points earned and dividing by the number of credits carried toward GPA. Grades of I are not calculated in the grade point average until one year after the end of the course at which time they are calculated as F's.

THE COLLEGE CALENDAR

The College operates on the semester basis. The fall and spring semesters consist of fifteen weeks of instruction. The summer sessions are of various lengths and are offered at the several campuses of this institution.

TO TEST FOR AUTHENTICITY: Translucent globe icons *MUST* be visible from both sides when held toward a light source. The face of this transcript is printed on green SCRIP-SAFE® paper with the name of the institution appearing in white type over the face of the entire document.

COLLEGE OF ENVIRONMENTAL SCIENCE AND FORESTRY • COLLEGE OF ENVIRONMENTAL SCIENCE AND FORESTRY • COLLEGE OF ENVIRONMENTAL SCIENCE AND FORESTRY • COLLEGE OF ENVIRONMENTAL SCIENCE AND FORESTRY • COLLEGE OF ENVIRONMENTAL SCIENCE AND FORESTRY • COLLEGE OF ENVIRONMENTAL SCIENCE AND FORESTRY • COLLEGE OF ENVIRONMENTAL SCIENCE AND FORESTRY • COLLEGE OF ENVIRONMENTAL SCIENCE AND FORESTRY • COLLEGE OF ENVIRONMENTAL SCIENCE AND FORESTRY

ADDITIONAL TESTS: The word COPY appears as a latent image. When this paper is touched by fresh liquid bleach, an authentic document will stain brown. A black and white or color copy of this document is not an original and should not be accepted as an official institutional document. This 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. If you have any questions about this document, please contact our office at (315) 470-6655. **ALTERATION OF THIS DOCUMENT MAY BE A CRIMINAL OFFENSE!**

Undergraduate Transcripts

Post-baccalaureate studies at the University of Kentucky

January 27, 2020

RE: Sussman transcript Mann

Dear reviewer,

You will find transcripts from two undergraduate institutions included in this application. For that reason and because my academic history is somewhat unique, I thought I would include a brief explanation of that history here. After graduating from the University of Notre Dame, I taught middle and high school for three years but ultimately left the teaching profession to pursue a career in ecological research. In order to strengthen my application to graduate programs, I enrolled in courses and worked in research labs at the University of Kentucky for the fall 2018 semester. The unofficial transcript included in this application is for that semester, and an official transcript has been requested to be delivered to S. Scott Shannon. The order confirmation for that request is attached below. I have included my transcripts from the University of Notre Dame in this application as well. Please do let me know if you have any questions regarding my application, academic history, or these transcripts.

Sincerely,

Thomas Mann



Thomas Mann <ttomjr2@gmail.com>

Transcript Order #43630393: Order Confirmation

1 message

Do Not Reply <donotreply@studentclearinghouse.org>

Mon, Jan 27, 2020 at 10:33 PM

To: ttomjr2@gmail.com

This e-mail was sent from a notification-only address that cannot accept incoming e-mail. Please DO NOT reply to this message.

Was the ordering process easy? Share your experience using the Clearinghouse Transcript Ordering site and complete a short survey at <https://www.surveymonkey.com/r/8YH6J8M>

This is to confirm your transcript order. You can track your transcript order by entering the order number on this email and the email address you used to place the order on the following web page:

<https://tsorder.studentclearinghouse.org/TrackOrder>

YOUR ORDER DATE: 01/27/2020 10:30 PM ET
YOUR ORDER #: 43630393
YOUR SCHOOL: University of Kentucky (001989-00)

RECIPIENT: EDNA BAILEY SUSSMAN FOUNDATION
DELIVERY METHOD: Electronic PDF

IMPORTANT: Shortly after your request is processed by your school, your transcript recipient will be emailed a link to a secure Internet page where he or she can retrieve your official transcript. Upon that email notification, your credit card will be charged. The National Student Clearinghouse will guarantee that your recipient is notified that your transcript is ready for retrieval at the email address you provided when you placed the order; however, we cannot be responsible for whether or not your recipient retrieves or accepts the transcript. Because this is a new technology, we suggest that you contact your recipient and verify that he or she is willing to accept your transcript via this delivery method. The accuracy and correctness of the electronic transcript is solely the responsibility of your school.

TOTAL FEES FOR THIS ORDER: \$12.50
Your credit card will not be charged until the transcript(s) are sent.

Questions? Go to <https://mystudentcenter.org/transcripts/>

National Student Clearinghouse
www.studentclearinghouse.org

Name: Mann, Jr., Thomas Alexander
Student SSN: *****8535
Student Number: 10561435
Print Date: 12/30/2018 Page Number: 1 of 1

UNOFFICIAL TRANSCRIPT

To order an official transcript, go to:
myUK > myRecords > Official Transcripts

To view this information online, go to:
myUK > Degree Planning and Registration
> Menu > Academic History



Requested by: Thomas Alexander Mann, Jr.

Undergraduate Academic Record

SCHOOLS ATTENDED

Secondary Schools:
Saint Xavier High School

2018 Fall Semester

Program:
College of Arts & Sciences
Non-Degree

Major: Non-Degree

<u>CRS NUM</u>	<u>COURSE TITLE</u>	<u>GRADE</u>	<u>HOURS</u>	<u>QPTS</u>
FOR 340	FOREST ECOLOGY	A	4.0	16.00
ENT 320	HORTICULTURAL ENTOMOLOGY	A	3.0	12.00
PPA 400G	PRINS OF PLANT PATHOLOGY	A	3.0	12.00
PLS 366	FUNDAMENTALS OF SOIL SCI	A	4.0	16.00
SAG 397	APPRENTICESHIP IN SUSTAINABLE AG	A	3.0	12.00

	<u>AHRS</u>	<u>EHRS</u>	<u>QHRS</u>	<u>QPTS</u>	<u>GPA</u>
Semester	17.0	17.0	17.0	68.00	4.000
Cumulative	17.0	17.0	17.0	68.00	4.000

Status Dean's List
Status Good Standing

*** End of Undergraduate Academic Record ***



Undergraduate Transcripts

Undergraduate Studies at the University of Notre Dame

Mann, Thomas A
 Student ID: XXXXX2437
 Soc Sec No: XXX-XX-8535
 Birth Date: 03-28-XXXX
 Issued To: Thomas Mann
 ttomjr2@gmail.com
 Student Email: ttomjr2@gmail.com

Date Issued: 02-JAN-2018
 Page: 1

Degree Awarded: Bachelor of Arts
 Date Conferred: May 18, 2014
 College: College of Arts and Letters

Course Level: Undergraduate
 Program: Bachelor of Arts
 College: College of Arts and Letters
 Major: Spanish
 Maj/Conc: Honors Track
 Major: Pre-Health Studies (Supp.)
 Sociology
 Minor: AL/SC Honors Program

CRSE ID	COURSE TITLE	CRS HRS	GRD	QPTS	UND SEMESTER TOTALS			OVERALL TOTALS				
					ATTEMP HRS	EARNED HRS	GPA	ATTEMP HRS	EARNED HRS	GPA	GPA	
TRANSFER CREDIT ACCEPTED BY THE UNIVERSITY:												
Fall 2010 College Board												
CHEM 10171	Intro to Chemical Principles	4.000										
FYC 13100	First-Year Composition	3.000										
HIST 10020	European History	3.000										
MATH 10550	Calculus I	4.000										
MATH 10560	Calculus II	4.000										
PHYS 10310	General Physics I	4.000										
PHYS 10320	General Physics II	4.000										
ROSP 20201	Intermediate Spanish I	3.000										
ROSP 20202	Intermediate Spanish II	3.000										
	Total Credits:	32.000										
UNIVERSITY OF NOTRE DAME CREDIT:												
Fall Semester 2010												
First Year of Studies												
ALHN 13950	Honors Seminar	3.000	B+	9.999								
CHEM 10171	Intro to Chemical Principles	4.000	A-	14.668								
MATH 20550	Calculus III	3.500	B+	11.666								
MUS 11300	Piano for Non-majors	1.000	S	0.000								
PE 10000	Physical Education	0.000	S	0.000								
PHIL 13195	Honors Philosophy Seminar	3.000	A-	11.001								
ROSP 27500	Aprch Hspnic Culture by Writng	3.000	A	12.000								
Good Standing	Total			59.334	17.500	17.500	16.500	3.596	49.500	49.500	16.500	3.596
Spring Semester 2011												
First Year of Studies												
ALHN 13951	Honors Seminar	3.000	A	12.000								

CONTINUED ON PAGE 2

From University of Notre Dame to Thomas Mann ttomjr2@gmail.com on 01/02/2018 11:33 AM TRAN000013468440

From University of Notre Dame to Thomas Mann ttomjr2@gmail.com on 01/02/2018 11:33 AM TRAN000013468440

Mann, Thomas A
 Student ID: XXXXX2437
 Soc Sec No: XXX-XX-8535
 Birth Date: 03-28-XXXX
 Issued To: Thomas Mann
 ttomjr2@gmail.com
 Student Email: ttomjr2@gmail.com

Date Issued: 02-JAN-2018
 Page: 2

From University of Notre Dame to Thomas Mann ttomjr2@gmail.com on 01/02/2018 11:33 AM TRAN000013468440

From University of Notre Dame to Thomas Mann ttomjr2@gmail.com on 01/02/2018 11:33 AM TRAN000013468440

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:														
ANTH 10195	Intro to Anthropology Honors	3.000	A-	11.001										
CHEM 10172	Organic Structure & Reactivity	4.000	B+	13.332										
IIPS 30101	Intro to Peace Studies	3.000	B+	9.999										
PE 10001	Physical Education	0.000	S	0.000										
ROSP 30310	Textual Analysis	3.000	A	12.000										
Good Standing		Total		58.332	16.000	16.000	16.000	3.646	65.500	65.500	32.500	3.620		
Fall Semester 2011														
College of Arts and Letters														
BIOS 20201	General Biology A	3.000	B	9.000										
BIOS 21201	General Biology A Laboratory	1.000	B+	3.333										
CHEM 20273	Organic Reactions & Applicatio	3.000	C+	6.999										
CHEM 21273	Reactions and Applications Lab	1.000	A-	3.667										
ROSP 30710	Survey of Spanish Literature I	3.000	A-	11.001										
SOC 20002	Understanding Societies	3.000	A-	11.001										
THEO 20002	Hnrs Fdt of Theo: Biblcl/Hist	3.000	A-	11.001										
THEO 33936	Smr Srv Lrn:Confrnt Soc Issues	3.000	S	0.000										
Good Standing		Total		56.002	20.000	20.000	17.000	3.294	85.500	85.500	49.500	3.508		
Spring Semester 2012														
College of Arts and Letters														
BIOS 20202	General Biology B	3.000	B	9.000										
BIOS 21202	General Biology B Laboratory	1.000	A-	3.667										
CHEM 20274	Chem across Periodic Table	3.000	B+	9.999										
CHEM 21274	Across the Periodic Table Lab	1.000	A-	3.667										
ROSP 30720	Survey of Spanish Lit. II	3.000	A	12.000										
SOC 23011	Selflessness and Selfishness	3.000	A	12.000										
SOC 30900	Foundations Sociological Thry	3.000	A	12.000										
Good Standing		Total		62.333	17.000	17.000	17.000	3.667	102.500	102.500	66.500	3.549		
Fall Semester 2012														
College of Arts and Letters														
AL 34721	PM Medical Internship	3.000	S	0.000										
BIOS 34556	PM Histology	3.000	A	12.000										
PHIL 24332	PM Mexican Philosophy I	3.000	A	12.000										
PHYS 34210	PM Physics I	4.000	A	16.000										
ROSP 34820	PM Survey of Span Amer Lit II	3.000	A	12.000										

CONTINUED ON PAGE 3

Mann, Thomas A
 Student ID: XXXXX2437
 Soc Sec No: XXX-XX-8535
 Birth Date: 03-28-XXXX
 Issued To: Thomas Mann
 ttomjr2@gmail.com
 Student Email: ttomjr2@gmail.com

Date Issued: 02-JAN-2018
 Page: 3

From University of Notre Dame to Thomas Mann ttomjr2@gmail.com on 01/02/2018 11:33 AM TRAN000013468440

From University of Notre Dame to Thomas Mann ttomjr2@gmail.com on 01/02/2018 11:33 AM TRAN000013468440

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:														
THEO 24827 PM	Dialogue between SC & Religion	3.000	A	12.000										
	Good Standing													
	Dean's List													
	Total			64.000	19.000	19.000	16.000	4.000	121.500	121.500	82.500	3.636		
Spring Semester 2013														
College of Arts and Letters														
BIOS 30344	Vertebrate (Human) Physiology	3.000	B	9.000										
PHYS 30220	Physics II	4.000	B	12.000										
ROSP 30810	Survey of Spanish Amer Lit I	3.000	A	12.000										
ROSP 40530	Gender/Nat'l Iden Sp Cinema	3.000	A	12.000										
SOC 33001	Soc, Self, Cath Soc Trad	3.000	A	12.000										
SOC 46000	Directed Readings	3.000	A-	11.001										
	Good Standing													
	Dean's List													
	Total			68.001	19.000	19.000	19.000	3.579	140.500	140.500	101.500	3.626		
Fall Semester 2013														
College of Arts and Letters														
MUS 10161	The Soundtrack of History	3.000	A	12.000										
ROSP 63891	U.S. Latino/a Lit and Culture	3.000	A-	11.001										
SOC 30902	Methods Sociological Research	3.000	A	12.000										
SOC 30903	Stats Sociological Research	3.000	A	12.000										
SOC 33090	Proseminar	1.000	S	0.000										
SOC 48002	Doing Soc: Resrch Practi	3.000	B+	9.999										
THEO 33950	Soc Con Sem: Appalachia	1.000	S	0.000										
	Good Standing													
	Dean's List													
	Total			57.000	17.000	17.000	15.000	3.800	157.500	157.500	116.500	3.648		
Spring Semester 2014														
College of Arts and Letters														
ALHN 43951	Senior Moral Prob. Colloquium	1.000	S	0.000										
ROSP 40769	19th-Cent Wm Wrtrs in Lat-Am	3.000	A-	11.001										
ROSP 40976	Rio de la Plata	3.000	A	12.000										
ROSP 63010	Intro Thry Rsrch Hispanic Lit	3.000	A-	11.001										
SOC 43110	Sociolgy of Media, Tech, Socty	3.000	A	12.000										
SOC 48009	Senior Thesis Capstone Project	3.000	A	12.000										
	Good Standing													
	Dean's List													
	Total			58.002	16.000	16.000	15.000	3.867	173.500	173.500	131.500	3.673		

CONTINUED ON PAGE 4

Mann, Thomas A
Student ID: XXXXX2437
Soc Sec No: XXX-XX-8535
Birth Date: 03-28-XXXX
Issued To: Thomas Mann
 ttomjr2@gmail.com
Student Email: ttomjr2@gmail.com

Date Issued: 02-JAN-2018
Page: 4

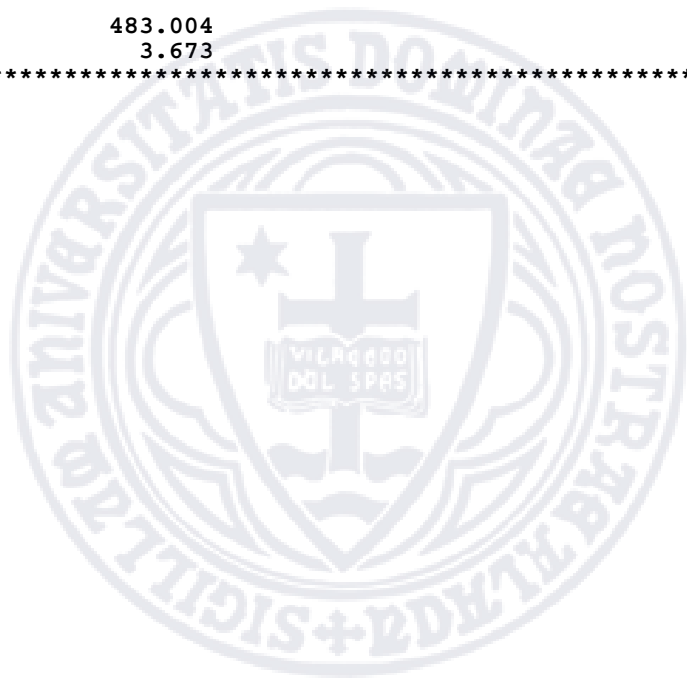
```

***** TRANSCRIPT TOTALS *****
NOTRE DAME      Ehrs:      141.500 QPts:      483.004
                 GPA-Hrs:    131.500 GPA:        3.673

TRANSFER        Ehrs:       32.000 QPts:         0.000
                 GPA-Hrs:     0.000 GPA:         0.000

OVERALL          Ehrs:      173.500 QPts:      483.004
                 GPA-Hrs:    131.500 GPA:        3.673
***** END OF TRANSCRIPT *****

```



From University of Notre Dame to Thomas Mann ttomjr2@gmail.com on 01/02/2018 11:33 AM TRAN000013468440

From University of Notre Dame to Thomas Mann ttomjr2@gmail.com on 01/02/2018 11:33 AM TRAN000013468440

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.

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 the Credentials eScrip-Safe® Global Transcript Delivery Network. The original transcript is in electronic PDF form. The authenticity of the PDF document may be validated at escrip-safe.com by selecting the Document Validation link. A printed copy cannot be validated.

This 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!

Resume

Thomas Mann

· 2815 S Camden Ln, Crestwood, KY 40014

· 502-410-9245

· ttomjr2@gmail.com

EDUCATION

State University of New York College of Environmental Science and Forestry, Syracuse, NY

- *Master of Science*

Expected Spring 2021

Coursework: Biogeochemistry, plant physiology, sampling methods

University of Kentucky, Lexington, KY

- *Post-baccalaureate studies*

Fall 2018

Coursework: Forest ecology, fundamentals of soil science, horticultural entomology, principles of plant pathology, apprenticeship in sustainable agriculture

GPA: 4.00/4.00

University of Notre Dame, Notre Dame, IN

- *Master of Education*

July 2017

- *Master of Arts in Iberian and Latin American Studies*

May 2015

- *Bachelor of Arts*

May 2014

Majors: Spanish and sociology; Supplementary Major: Arts and Letters Pre-Health

GPA: 3.67/4.00

Minor: Glynn Family Honors Program

Relevant coursework: Biology, organic and inorganic chemistry, physics

RESEARCH

State University of New York College of Environmental Science and Forestry

Graduate Student

Multiple Element Limitation in Northern Hardwood Forests

- Conducting tree demography study assessing germination responses of sugar maple (*Acer saccharum*) and American beech (*Fagus grandifolia*) to nitrogen and phosphorus additions
- Analyzing nine years of data to test for a response of total leaf litter mass to annual nitrogen and phosphorus additions

Lab Assistant

University of Kentucky

Rhizosphere Science Lab

- Assisted in research of phosphorus cycling from soil organic matter
- Prepared soil gels for root imaging and process plant material to analyze phosphorus content
- Conducted Fourier-transform infrared spectroscopy to analyze CO₂ evolution from test soils

Independent

University of Notre Dame

Masters Exam – “Visions of the Divine: The Human and the Infinite in the Writings of Jorge Luis Borges”

- Researched juxtapositions of infinity and humanity in the author’s short stories
- Defended research before faculty panel

WORK EXPERIENCE

Field Research

State University of New York College of Environmental Science and Forestry

June 2019 – Aug 2019

Multiple Element Limitation in Northern Hardwood Forests – Field Crew Leader

- Guided undergraduate interns in data collection and analysis
- Scheduled and managed the routine upkeep of a long-term study

Soils

State University of New York College of Environmental Science and Forestry

Aug 2019 – Dec 2019

Introduction to Soils Teaching Assistant

- Instructed and evaluated lab activities for a section of 22 students

University of Kentucky Division of Regulatory Services

Feb 2019 – May 2019

Soils Laboratory Technician

- Analyze soil samples from across western Kentucky for pH and nutrient content

SKILLS AND HONORS

- Data wrangling and visualization using R; proficient in GIS applications using ArcMap
- Fluent in Spanish (12 years of formal study; 1 semester of study in Puebla, Mexico)
- Eagle Scout

REFERENCES

- Ruth Yanai – 315-470-6955 – rdyanai@esf.edu
Advisor at SUNY ESF

- Russell D. Briggs – 315-470-6989 – rdbriggs@esf.edu
Instructor of introduction to soils course at SUNY ESF