



NAME: Turner, Matthew Douglas
STUDENT NR: XXX-XX-XXXX/810942670
PRINT DATE: 05/23/2025

BIRTHDATE : 03/04/XXXX

Issued To: DOCUMENTID: 005594374
matthew turner

Requested By: Matthew Douglas Turner

Degrees, Certificates and Licensure

Doctor of Philosophy AUG 20, 2015
CU Boulder
Coll Engineering & AppSci GRAD
Major : Mechanical Engineering
Aerosol Health Impact Source Attribution Studies with the CMAQ Adjoint
Air Quality Model

Other Institutions Attended:

HIGHER EDUC. College of The Canyons
INSTITUTIONS: Valencia CA
06/00 - 08/05
Drexel University
DEGREE: BAC 06/2009
DEGREE: MAS 06/2009
Philadelphia PA
09/04 - 06/09

Transfer, Test and/or Study Abroad Credit Applied:

DREXEL UNIVERSITY
Philadelphia PA

GRAD SEM TRANSFER CREDIT 22.0

COURSE TITLE	CRSE NR	UNITS	GRADE	PNTS
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Fall 2009 UC Boulder				
Coll Engineering & AppSci GRAD				
Intro to Fluid Dynamics	MCEN 5021	3.0	A-	11.10
Graduate Seminar	MCEN 5027	1.0	P	0.00
Special Topics	MCEN 5208	1.0	A	4.00
Intro to Research				
Special Topics	MCEN 6228	3.0	A	12.00
Aerosols				
ATT	8.0	EARNED	8.0	GPAHRS 7.0 GPAPTS 27.10 GPA 3.871

COURSE TITLE	CRSE NR	UNITS	GRADE	PNTS
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Spring 2010 UC Boulder				
Coll Engineering & AppSci GRAD				
Thermodynamics	MCEN 5022	3.0	A	12.00
Graduate Seminar	MCEN 5027	1.0	P	0.00
Special Topics	MCEN 5208	2.0	A	8.00
Intro To Research				
Special Topics	MCEN 5228	3.0	A-	11.10
Tpc-Inverse Methods				
ATT	9.0	EARNED	9.0	GPAHRS 8.0 GPAPTS 31.10 GPA 3.888

Fall 2010 CU Boulder				
Coll Engineering & AppSci GRAD				
Intro Atmosphrc Dynamics	ATOC 5050	3.0	NC	0.00
Graduate Seminar	MCEN 5027	1.0	P	0.00
Doctor's Thesis	MCEN 8999	1.0	A	4.00
ATT	2.0	EARNED	2.0	GPAHRS 1.0 GPAPTS 4.00 GPA 4.000

Spring 2011 CU Boulder				
Coll Engineering & AppSci GRAD				
Graduate Seminar	MCEN 5027	1.0	P	0.00
Doctor's Thesis	MCEN 8999	9.0	A	36.00
ATT	10.0	EARNED	10.0	GPAHRS 9.0 GPAPTS 36.00 GPA 4.000

Fall 2011 CU Boulder				
Coll Engineering & AppSci GRAD				
Doctor's Thesis	MCEN 8999	5.0	A	20.00
ATT	5.0	EARNED	5.0	GPAHRS 5.0 GPAPTS 20.00 GPA 4.000

Spring 2012 CU Boulder				
Coll Engineering & AppSci GRAD				
Doctor's Thesis	MCEN 8999	5.0	A	20.00
ATT	5.0	EARNED	5.0	GPAHRS 5.0 GPAPTS 20.00 GPA 4.000

Fall 2012 CU Boulder				
Coll Engineering & AppSci GRAD				
Doctor's Thesis	MCEN 8999	5.0	A	20.00
ATT	5.0	EARNED	5.0	GPAHRS 5.0 GPAPTS 20.00 GPA 4.000

Spring 2013 CU Boulder				
Coll Engineering & AppSci GRAD				
Doctor's Thesis	MCEN 8999	5.0	A	20.00
ATT	5.0	EARNED	5.0	GPAHRS 5.0 GPAPTS 20.00 GPA 4.000



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COURSE TITLE				CRSE NR		UNITS	GRADE	PNTS
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-----				Fall 2013 CU Boulder		-----		
Coll Engineering & AppSci GRAD				Mechanical Engineering				
Doctor's Thesis				MCEN 8999		10.0	A	40.00
ATT	10.0	EARNED	10.0	GPAHRS	10.0	GPAPTS	40.00	GPA 4.000
-----				Spring 2014 CU Boulder		-----		
Coll Engineering & AppSci GRAD				Mechanical Engineering				
Doctor's Thesis				MCEN 8999		3.0	A	12.00
ATT	3.0	EARNED	3.0	GPAHRS	3.0	GPAPTS	12.00	GPA 4.000
-----				Fall 2014 CU Boulder		-----		
Coll Engineering & AppSci GRAD				Mechanical Engineering				
Doctor's Thesis				MCEN 8999		10.0	A	40.00
ATT	10.0	EARNED	10.0	GPAHRS	10.0	GPAPTS	40.00	GPA 4.000
-----				Spring 2015 CU Boulder		-----		
Coll Engineering & AppSci GRAD				Mechanical Engineering				
Doctor's Thesis				MCEN 8999		7.0	A	28.00
ATT	7.0	EARNED	7.0	GPAHRS	7.0	GPAPTS	28.00	GPA 4.000
-----				Summer 2015 CU Boulder		-----		
Coll Engineering & AppSci GRAD				Mechanical Engineering				
Doctor's Thesis				MCEN 8999		5.0	A	20.00
ATT	5.0	EARNED	5.0	GPAHRS	5.0	GPAPTS	20.00	GPA 4.000
=====								
CUMULATIVE CREDITS :								
		TR	CU	TOT		QUAL	QUAL	GPA
		UNITS	UNITS	UNITS		UNITS	PTS	
GRAD		22.0	84.0	106.0		80.0	318.20	3.978
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***** END OF ACADEMIC RECORD ****								

Disclosure of the information contained in this transcript may not be made to another party without prior written consent of the student whose name appears herein. This transcript may be used solely by the individual or institution to which it was originally released, and only for the purpose for which the disclosure was made. These instructions are in accordance with the Family Educational Rights and Privacy Act of 1974.

Kristi Wold-McCormick
 Kristi Wold-McCormick, Ph.D., University Registrar
 University of Colorado, Boulder

UNIVERSITY OF COLORADO GUIDE TO TRANSCRIPT EVALUATION

CAMPUS LOCATIONS

University of Colorado Boulder
20 UCB
Boulder, CO 80309-0020
303-492-6970
transcriptinfo@colorado.edu

University of Colorado Denver
Campus Box 116
P.O. Box 173364
Denver, CO 80217
303-315-2600
transcripts@ucdenver.edu

University of Colorado Colorado Springs
1420 Austin Bluffs Parkway
Colorado Springs, CO 80918-3733
719-255-3361
registrar@uccs.edu

University of Colorado Anschutz Medical Campus
13120 E 19th Avenue
Campus Box A054
Aurora, CO 80045
303-724-8000
registrar@cuanschutz.edu

The University of Colorado at Denver and the Health Sciences Center were consolidated into a single institution, University of Colorado at Denver and Health Sciences Center (UCDHSC) on July 1, 2004, and renamed to University of Colorado Denver (CU Denver) on October 29, 2007. The institution's campuses are now known as the University of Colorado Denver and the University of Colorado Anschutz Medical Campus.

ACCREDITATION

The University of Colorado is accredited by the Higher Learning Commission (hlcommission.org), an institutional accreditor recognized by the U.S. Department of Education.

ISSUING CAMPUS FOR TRANSCRIPTS

Each campus has the authority to produce and issue a complete transcript that contains all courses attempted at all University of Colorado campuses, including their Continuing Education/Extended Studies Divisions. Official transcripts include the complete undergraduate, graduate, professional and non-degree academic record of all credit-based courses taken at all campus locations or divisions of the University of Colorado. Students may request a career-based transcript that produces a partial record. Questions concerning the issuance or authenticity of this transcript should be directed to the issuing campus. Questions concerning courses, grades, degrees, or other academic information on the transcript should be directed to the campus the student attended.

STUDENT PRIVACY/RELEASE OF INFORMATION

In accordance with the Family Educational Rights and Privacy Act of 1974, this transcript is provided upon the condition that the receiver or those acting on behalf of the receiver do not disclose or provide access to the information contained in it to any other party without explicit consent of the student.

TRANSCRIPT FORMAT

The academic record of a student enrolled both before and after 1988 may be composed of two separately formatted transcripts. If "SEPARATE RECORD OF PRIOR WORK ATTACHED" appears at the beginning of a transcript, both transcript formats must be present for the transcript to be complete.

TRANSCRIPT AUTHENTICITY

Electronic PDF transcripts bear the Adobe® Blue Ribbon certification and a GeoTrust CA electronic certificate.

TRANSCRIPT NOTATIONS

Effective Fall 1995, Dean's List notations appear at the end of each term earned. Students are considered to be in good standing with the university and eligible to re-enroll unless stated otherwise on the transcript. Students who have been expelled or who have active non-academic suspensions from a CU campus have transcript notations that may indicate the general type of sanction, the effective date and duration of the separation/exclusion, and the issuing department. For more information, contact the appropriate department on the issuing campus.

GRADE POINT AVERAGE (GPA)

Grades earned in repeated courses are included in the GPA and cumulative totals unless otherwise noted. The GPA is computed by dividing the total grade points by the total of credit hours in which grade points were recorded. Transfer credit is not included in the University of Colorado GPA. In Fall 2019, Boulder and Denver and in Fall 2020, Colorado Springs implemented varying grade replacement and forgiveness policies. From Fall 2001 to Summer 2010 Boulder had a different course repetition policy. See respective campus for policy details.

ACADEMIC CALENDAR

Beginning Fall 1951, all campuses are on a 16-week fall and spring semester system unless otherwise noted. Summer terms, Study Abroad Programs, and Independent Learning vary in length but are reported in semester hours. As of Fall 2010, all prior coursework taken on a quarter system calendar at the Health Sciences Center (now Anschutz Medical Campus) has been retroactively converted to a semester system calendar.

UNIT/CREDIT HOURS

While there can be some variation to this structure amongst the campuses and programs, in most cases, the unit or credit hour is the numeric measure of the instructional, research and/or other academic work over the length of a semester, and the value of a unit is calculated based upon standard semester credit hour formulas.

CUMULATIVE CREDITS

Before 1972, cumulative totals were total hours and credit points used for calculation of the GPA only. After 1988, cumulative credits include hours earned and GPA based on the level of the student (undergraduate, graduate, graduate non-degree and professional careers). A student's transcript may include credits in more than one career level.

GT PATHWAYS PROGRAM

The Colorado State Legislature approved a set of general education courses guaranteed to transfer between state institutions. These courses appear on the transcript with the notation of "GT" followed by two characters that identify the subject area. See <https://higher.ed.colorado.gov/academics/transfers/gtpathways/curriculum.html>.

RECIPROCAL AGREEMENT PROGRAM

Graduate credit taken through a reciprocal exchange agreement with another Colorado institution is indicated by a department listing of RCPR, RCSM, RCSU, and RUNC. Discontinued in Fall 2020.

COURSE DESCRIPTIONS

The four University of Colorado campuses do not share a common course catalog. Current catalogs and course descriptions may be found by accessing the home pages of each campus.

TRANSFER, STUDY ABROAD AND TEST CREDIT

Beginning 2016, accepted external credit is labeled "Transfer, Test and/or Study Abroad Credit Applied." Transfer credit converted from the prior student information system may appear as summary data on the transcript. This information is labeled "Advanced Standing."

For Study Abroad credit, beginning in 1988, a generic course number was used with the first digit of the course number followed by nines and an extension of SA. The first digit designated the level of the course. Although actual dates of enrollment may have varied, the courses were listed to coincide with the CU calendar. Effective Summer 2016, at the Boulder campus, Study Abroad courses appear as transfer credit earned under "Transfer, Test and/or Study Abroad Credit Applied" with a "See Study Abroad Credit" note in the semester the student studied abroad.

Test credit accepted, including International Baccalaureate (IB), College Level Examination Program (CLEP) and Advanced Placement (AP), reflects earned credit based on the equivalent course offered by the university. Effective Fall 2017, exam and equivalent course details, course number and title, are recorded on the transcript.

Credit earned through institutional course challenge exams is recorded as institutional credit in the term completed. CR is recorded to denote earned credit. The transcript reflects the name, catalog number and credits of the course(s) successfully challenged.

COURSE NUMBERING SYSTEM

Fall 1975 to Summer 1988, courses numbered 0-99 were remedial, 100-199 freshmen level, 200-299 sophomore level, 300-399 junior level, 400-499 senior level (open to graduates), 500-599 graduate level (open to qualified undergraduates), 600-699 graduate level, 700 master's thesis, and 800 doctoral dissertation.

From Fall 1975 to Summer 1988, only courses numbered 500 and above were offered for graduate credit. (Exception: Independent Study courses were numbered 900-929 for lower division, 930-949 for upper division, and 950-979 for graduate level.)

Beginning Summer 1988, the course numbering system changed from three digits to four digits for all campuses except Colorado Springs. Courses since Summer 1988 are numbered 1000-2999 for lower division; 3000-4999 for upper division; 5000-6999 for graduate, master's level or first and second year professional; and 7000-8999 for graduate, doctoral level or third and fourth year professional. As of Fall 2010, all campuses use the four-digit course numbering standard.

GRADING SYSTEM

Standard Grades	Grade Points	Numeric Grades (Law)
A Superior/Excellent	4.0	93-99
A-	3.7	90-92
B+	3.3	86-89
B Good/Better than Average	3.0	83-85
B-	2.7	80-82
C+	2.3	76-79
C Competent/Average	2.0	73-75
C-	1.7	70-72
D+	1.3	66-69
D	1.0	63-65
D- Minimum Passing	0.7	60-62
F	0.0	50-59
***	Student is currently enrolled in the course or a final grade has not been submitted	
ALX	Accommodates conversion of pre-1988 statistics. Placeholder classes created with three-character grades that equate to students' pre-1988 GPA.	
CN	Conditional F until cleared (Discontinued Fall 1974)	
CR	Credit (Excluded from GPA)	
H	Honors/Highest Achievement (Specified courses at the Anschutz Medical Campus or for Honors Department courses on other campuses. Excluded from GPA)	
HP	High Pass (School of Medicine at the Anschutz Medical Campus. Excluded from GPA)	
I	Incomplete (Converted to F if not completed within one year. Effective Spring 2009); Law School converts to F if not completed in succeeding term (excludes summer).	
IC	Incomplete (Discontinued Fall 1974)	
IF	Incomplete (Converted to F if not completed within one year. Discontinued Fall 2008)	
IP	In Progress (Thesis/dissertation at the graduate level or other specified courses)	
IW	Incomplete (Converted to W if not completed within one year. Discontinued Fall 2008)	
NC	No Credit or Audit (Excluded from GPA and credit totals)	
NP	No Pass (Used with the P+/P/NP grading basis. Denver and Anschutz campuses, Spring and Summer 2020. Excluded from GPA)	
NR	Not Reported (Class grades were not submitted when final grades were processed)	
P	Passing (Under Pass/Fail option, undergraduate/graduate grades of D- and above convert to a P. P is equivalent to D+, D or D- beginning Spring 2020. See P+ below. Specified courses may also be graded on a Pass/Fail basis. Law School requires a grade of 72 or above to Pass. Excluded from GPA)	
P+	Pass (Under Pass/Fail option, undergraduate/graduate grades of C- and above converted to P+ beginning Spring 2020 to address non-standard grading during a global pandemic. Excluded from GPA)	
PR	Pass with Remediation (Anschutz Medical Campus. Excluded from GPA)	
S	Satisfactory (Course requirements satisfied or expectations met. Excluded from GPA)	
U	Unsatisfactory (Course requirements not satisfied or expectations not met. Excluded from GPA)	
W	Withdrew	
Y	Class grades not submitted by instructor (Discontinued 1988)	

CU DENVER

Beginning 1970, students enrolled at the CU Denver Downtown Campus have been able to cross register for courses at Metropolitan State University of Denver and Community College of Denver. These courses are identified on University of Colorado transcripts by notations of "MSC," "CCD," "4M," or "Course Offering of Metropolitan State Univ of Denv" in the course titles. Since Spring 1988, Metropolitan State University of Denver courses are not included in the University of Colorado grade point average, but are included in the hours earned at the University of Colorado. Students must transfer in any credit earned through the Community College of Denver, which will appear as transfer credit hours earned, and are not included in the University of Colorado grade point average. Questions regarding such listings should be referred to the CU Denver Registrar's Office.

LAW SCHOOL GRADING AND RANKING

Effective with students matriculating in Fall 2010 or later, by action of the faculty, the mandatory median grade in each Law School course is B+. From 1994 to 2010, the recommended median grade was 84 (B). Prior to 1994, the median grade was typically 78 (C+) in first-year courses, and 80 (B-) in large, upper-division courses, and higher than 80 in smaller courses. GPAs are calculated from letter grades using the conversion table. Prior to Fall 2010, numeric grades were used to calculate GPAs. Since Fall 2010, the Law School has used the Letter Points to calculate GPAs. Numeric GPAs were carried out to two decimal points and were not rounded up to the nearest whole number, i.e., 84.75 not 85. Good standing and eligibility to continue are based on the numeric GPAs. A 2.0 average is generally required to be in good standing and to graduate. Class ranking displays on Law career transcripts for students in the top third of the class based on grades. University of Colorado Law School: 401 UCB, Boulder, CO 80309, 303-492-8047 or www.colorado.edu/law/academics/rules-law-school.

ADDITIONAL INTERPRETATION OF TRANSCRIPTS OF PRE-1988 RECORDS

To the left of the course title is the code designating the CU campus attended:

- 1 – University of Colorado Boulder – "SAVE" indicates enrollment on Boulder Campus via Continuing Education registration
- 3 – University of Colorado Health Sciences Center (on quarter hours through Summer 1988)
- 4 – University of Colorado Denver
- 5 – University of Colorado Colorado Springs
- 9 – Division of Continuing Education
- W – Boulder Continuing Education
- X – Denver Continuing Education
- Y – Colorado Springs Continuing Education
- Z – Health Sciences Center Continuing Education