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Susan Elaine Dorsher

MIT ID: 976 997 022 Birthdate: 03-JUL-1982

Admitted as a Regular Student for Fall Term 2000-2001  
from TECHNICAL HIGH SCHOOL  
ST CLOUD, MN

Subject	Subject Name	Lvl	Cred	Grade
FALL TERM 2000-2001 FRESHMAN				
3.091	Intro to Solid-State Chemistry	U	12	P
3.986	Human Past: Intro Archaeology	U	12	P
8.01	Physics I	U	12	S
8.02	Physics II	U	12	P&
8.022	Physics II	U	12	P
12.000	Solving Complex Problems	U	9	P
18.01	Calculus	U	12	S
18.02	Calculus	U	12	S
18.03	Differential Equations	U	12	S
18.700	Linear Algebra	U	12	P
SP.211	ESG:Experimental St Grp	U	1	P
GEN.APCR	AP Elective Credit	U	36	S
***				
SPRING TERM 2000-2001 FRESHMAN				
6.001	Struct & Interp:Computer Progs	U	15	P
8.03	Physics III	U	12	P
18.100B	Analysis I	U	12	P
SP.212	ESG:Experimental St Grp	U	1	P
SP.293	ESG:Special Topics	U	6	P
21L.004	Major Poets	U	12	P
***				
FALL TERM 2001-2002 COURSE: 8 SOPHOMORE				
8.033	Spec Relativity & Classic Mech	U	12	A
8.04	Quantum Physics I	U	12	A
8.224	Explor Black Hole:Gen Rel Astr	U	12	A
9.00	Introduction to Psychology	U	12	A
***				
SPRING TERM 2001-2002 COURSE: 8 SOPHOMORE				
4.301	Introduction to Visual Arts	U	12	A
8.044	Statistical Physics I	U	12	A
8.286	The Early Universe	U	12	A
8.URN	Undergraduate Research	U	1	URN
18.04	Complex Variables with Appl	U	12	B
***				
FALL TERM 2002-2003 COURSE: 8 JUNIOR				
7.012	Introductory Biology	U	12	A
8.05	Quantum Physics II	U	12	A
8.13	Experimental Physics I	U	18	B
***				

-- Continued in Next Column --

Subject	Subject Name	Lvl	Cred	Grade
SPRING TERM 2002-2003 COURSE: 8 JUNIOR				
4.367	Studio Seminar in Public Art	U	12	A
8.06	Quantum Physics III	U	12	B
8.14	Experimental Physics II	U	18	C
8.URN	Undergraduate Research	U	1	URN
***				
FALL TERM 2003-2004 COURSE: 8 SENIOR				
4.101	Experienc Architectural Design	U	12	P
4.605	Intro to Hist & Theory of Arch	U	12	A
8.07	Electromagnetism II	U	12	B
SP.764	Practical Electronics	U	6	A
***				
SPRING TERM 2003-2004 COURSE: 8 SENIOR				
4.322	Introduction to Sculpture	U	12	B
8.962	General Relativity	U	12	B
8.THU	Thesis	U	12	A
21A.231	Gender, Sexuality, & Society	U	12	A
***				

\*\*\*\*\*  
04-JUN-2004 Awarded the Degree of Bachelor of Science in  
Physics  
\*\*\*\*\*  
Undergraduate Cumulative GPA: 4.6 (on a 5.0 scale)  
\*\*\*\*\*  
-- END OF RECORD --  
-- No Entries Valid Below This Line --

OFFICIAL TRANSCRIPT:  
Order #: AVOW:2199417

ISSUED 21-JAN-2013  
Page 1 of 1

Issued to  
Susan Dorsher

Mary R. Callahan, Registrar

*Mary R. Callahan*

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to other parties without prior written consent of the student.

### Authentication of Transcript

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### Academic Terms, Student Classification, and Courses

MIT's academic calendar has fifteen-week Fall and Spring Terms including exams, a ten-week Summer Term, and a four-week January Term.

**Classification:** Undergraduate students (Freshman, Sophomore, Junior, Senior) and Graduate students are matriculated in MIT degree programs; Special students, Exchange students, and Cross-registered students are not. Non-resident graduate students are working on doctoral thesis away from MIT.

**Course:** The student's Course (degree program) begins with a department or program code as listed below, followed by an option within the department. Undergraduate program options can indicate specialty area. Option codes used in graduate programs starting in Fall 1994 include: M, P, or A, Master's; D, Doctoral; CT, Transportation; RE, Real Estate Development; W, Joint with Woods Hole Oceanographic Institution. Freshmen are not permitted to register in a department. Transfer students generally enter as Sophomores.

### Subject, Level, and Credit

**Subject:** Consists of a department or program code (see list below) followed by a period and a number. **Level (Lvl):** Subjects included in undergraduate cumulative record: **U.** Subjects included in graduate cumulative record: subject approved for (higher) graduate degree credit: **H;** other subject accepted for graduate degree credit: **G;** subject in graduate program but not accepted for graduate degree credit: **N.** **Credit:** A credit unit represents one hour of class (lecture/recitation), laboratory/design/fieldwork, or preparation per week for fourteen weeks. Three MIT credit units = one Semester Hour.

### Explanation of Grades since 1980

<b>A</b>	Exceptionally good performance, demonstrating a superior understanding of the subject matter, a foundation of extensive knowledge, and a skillful use of concepts and/or materials.
<b>B</b>	Good performance, demonstrating capacity to use the appropriate concepts, a good understanding of the subject matter, and an ability to handle the problems and materials encountered in the subject.
<b>C</b>	Adequate performance, demonstrating an adequate understanding of the subject matter, an ability to handle relatively simple problems, and adequate preparation for moving on to more advanced work in the field.
<b>D</b>	Minimally acceptable performance, demonstrating at least partial familiarity with the subject matter and some capacity to deal with relatively simple problems, but also demonstrating deficiencies serious enough to make it inadvisable to proceed further in the field without additional work.
<b>F</b>	Failed.
<b>J,U</b>	<b>J</b> Satisfactory progress that term. <b>U</b> Progress not satisfactory that term. Final grade in same subject in a later term also covers this term (e.g., J/B or U/A).
<b>P</b>	Prior to Fall 1990: reflects performance at any of the levels A, B, C, or D. Fall 1990 through Summer 1992: for first-year undergraduates reflects performance at any of the levels A, B, or C; for other than freshmen reflects performance at any of the levels A, B, C, or D. Fall 1992 and after: reflects performance at any of the levels A, B, or C, with students graded on a P/D/F basis.
<b>I</b>	Incomplete. When work completed, final grade follows I (e.g., I/B).
<b>O</b>	Absent from the final examination, did not turn in the final paper or project, and/or was absent during the last two weeks of the term. Equivalent to a grade of F.
<b>OX</b>	Absence satisfactorily explained and excused. When work is completed final grade replaces the OX.
<b>SA</b>	Satisfactorily completed doctoral thesis.
<b>S</b>	Credit awarded for work done elsewhere.
<b>URN</b>	Subject in Undergraduate Research Opportunities Program taken for pay or as a volunteer rather than academic credit (the one unit shown does not count for degree credit).
<b>VIS</b>	Research subject taken as a non-degree visiting student.
<b>&amp;</b>	Grade ending in & indicates Advanced Standing Exam (not included in GPA).
<b>#</b>	Grade ending in # indicates ROTC (not included in degree credit; not included in GPA after Summer 1994).
<b>MG</b>	Indicates grade not submitted by instructor.
<b>IP</b>	Indicates subject "in progress" in current term.
<b>PE</b>	Reflects performance at any of the levels A, B, or C, under an emergency closure.
<b>IE</b>	Incomplete. Indicates a portion of the subject requirements has not been fulfilled, due to a major disruption of academic activities. When work completed, final grade follows (e.g., IE/B).

### Freshman Grading

Prior to Fall 1990: Freshmen graded on P/F basis with F grade not recorded on transcript. Fall 1990 to Summer 2002: Freshmen graded on P/D/F basis with non-passing D and F grades not recorded on transcript. Fall 2002 and after: Freshmen graded in their second semester on A/B/C/D/F basis with non-passing D and F grades not recorded on transcript.

### Cumulative Grade Point Averages

Calculated on a 5.0 scale with A = 5, B = 4, C = 3, D = 2, F and O = 0. P, PE, SA, S, URN, MG, and IP, as well as non-passing grades in Freshman year, not included in GPA. J, U, I, IE, and OX grades not included in GPA until completed. Undergraduate Cumulative GPA includes subjects at Level U and Graduate Cumulative GPA includes subjects at Level H, G, and N, and up to a maximum of 24 units of thesis.

### Department and Program Codes since 1980

<b>1</b>	Civil and Environmental Engineering (Civil Engineering prior to Fall 1992)
<b>2</b>	Mechanical Engineering
<b>3</b>	Materials Science and Engineering
<b>4</b>	Architecture
<b>5</b>	Chemistry
<b>6</b>	Electrical Engineering and Computer Science
<b>7</b>	Biology
<b>8</b>	Physics
<b>9</b>	Brain and Cognitive Sciences (Psychology prior to Fall 1986)
<b>10</b>	Chemical Engineering
<b>11</b>	Urban Studies and Planning
<b>12</b>	Earth, Atmospheric, and Planetary Sciences (Earth and Planetary Sciences prior to Fall 1984)
<b>13</b>	Ocean Engineering (through Spring 2007)
<b>14</b>	Economics
<b>15</b>	Management
<b>16</b>	Aeronautics and Astronautics
<b>17</b>	Political Science
<b>18</b>	Mathematics
<b>19</b>	Meteorology and Physical Oceanography (through Summer 1983) (Meteorology through Summer 1980)
<b>20</b>	Biological Engineering (from Fall 2006) (Applied Biological Sciences through Summer 2003) (Nutrition and Food Science prior to Fall 1985)
<b>21</b>	Humanities
<b>21A</b>	Anthropology (Anthropology/Archaeology from Summer 1989 through Summer 1996)
<b>21F</b>	Foreign Languages and Literatures (from Summer 1989)
<b>21H</b>	History (from Summer 1989)
<b>21L</b>	Literature (from Summer 1989)
<b>21M</b>	Music and Theater Arts (from Summer 1989)
<b>21W</b>	Writing and Humanistic Studies (Writing from Summer 1989 through Summer 1991)
<b>22</b>	Nuclear Science and Engineering (Nuclear Engineering through Spring 2005)
<b>24</b>	Linguistics and Philosophy
<b>25</b>	Interdisciplinary Science (to Spring 1983)
<b>BE</b>	Biological Engineering (through Summer 2006) ( <b>BEH</b> Bioengineering and Environmental Health from Fall 1998 through Summer 2002; <b>TOX</b> Toxicology from Spring 1989 through Summer 1998)
<b>CDO</b>	Computation for Design and Optimization (from Fall 2005)
<b>CMS</b>	Comparative Media Studies (from Fall 1999)
<b>CSB</b>	Computational and Systems Biology (from Fall 2004)
<b>ESD</b>	Engineering Systems Division (from Summer 1999)
<b>HPM</b>	Health Policy and Management (1983-1990)
<b>HST</b>	Harvard-MIT Division of Health Sciences and Technology
<b>MAS</b>	Media Arts and Sciences (from Spring 1993)
<b>OR</b>	Operations Research
<b>PEP</b>	Professional Education Programs ( <b>ASP</b> Advanced Study Program through Summer 2006; <b>CAES</b> Center for Advanced Educational Services from Spring 1996 through Summer 2003; <b>EN</b> Center for Advanced Engineering Study prior to 1995)
<b>RED</b>	Real Estate Development (from Fall 2008)
<b>SDM</b>	System Design and Management (from Summer 1997)
<b>STS</b>	Science, Technology, and Society (from Fall 1980)
<b>TPP</b>	Technology and Policy Program
<b>UND</b>	Undesignated Sophomore (not yet declared Course)

Used for subjects only: **SEM** Undergraduate Seminar; **CTS** Center for Transportation Studies; **SP** Special Programs; **AS/MS/NS** ROTC; **SRE** Division for Study and Research in Education; **EC** Edgerton Center; **WGS** Women's & Gender Studies. Subjects taken under a Cross-registration arrangement begin with the following school codes: **BU** Boston U; **HA** Harvard U; **MC** Mass College of Art and Design; **SM** School of Museum of Fine Arts; **TU** Tufts U; **W** Wellesley College.

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Revised September 2011

Name : Susan E. Dorsher  
 Student ID: 04140900  
 Birth MO/DAY : 07/03/\*\*\*\*  
 Print Date: 1/21/2013  
 Page 1 of 1  
 STUOF-ISSUED TO STUDENT

*Brad A. Myers*  
 Brad A. Myers  
 University Registrar



SUSAN DORSHER  
 3152 BLACKHEATH DR  
 SAINT CLOUD, MN 56301-9602

Autumn 2005 Quarter

Program : Graduate Math & Physical Sci.  
 Plan : Astronomy Major

Course	Description	Attempted	Earned Grade	Points
ASTRON 693	Individual Studies	5.00	5.00 S	
ASTRON 801	Seminar 1	2.00	2.00 S	
ASTRON 810	Ordr Mag Astrophy	2.00	2.00 S	
ASTRON 822	Electromag Radiatn	3.00	3.00 A	12.000
PHYSICS 880.20	Special Topics	3.00	3.00 A	12.000
TERM GPA :	4.000	TERM TOTALS :	15.00	15.00 24.000
CUM GPA :	3.907	CUM TOTALS :	76.00	76.00 101.600

Winter 2006 Quarter

Program : Graduate Math & Physical Sci.  
 Plan : Astronomy Major

Course	Description	Attempted	Earned Grade	Points
ASTRON 693	Individual Studies	3.00	0.00 U	
ASTRON 802	Seminar 2	2.00	2.00 S	
ASTRON 810	Ordr Mag Astrophy	2.00	2.00 S	
ASTRON 831	Stellar Interiors	3.00	3.00 B	9.000
ASTRON 870	Stellar Systems	3.00	3.00 A-	11.100
PHYSICS 880.20	Special Topics	3.00	3.00 A-	11.100
TERM GPA :	3.466	TERM TOTALS :	16.00	13.00 31.200
CUM GPA :	3.794	CUM TOTALS :	92.00	89.00 132.800

Spring 2006 Quarter

Program : Graduate Math & Physical Sci.  
 Plan : Astronomy Major

Course	Description	Attempted	Earned Grade	Points
ASTRON 693	Individual Studies	10.00	10.00 S	
ASTRON 803	Seminar 3	2.00	2.00 S	
ASTRON 873	Cosmol&Struc Form	3.00	3.00 A	12.000
TERM GPA :	4.000	TERM TOTALS :	15.00	15.00 12.000
CUM GPA :	3.810	CUM TOTALS :	107.00	104.00 144.800
Graduate Career Totals				
CUM GPA :	3.810	CUM TOTALS :	107.00	104.00 144.800

----- End of Transcript -----

----- Institutions Attended -----

Mass Inst of Tech  
 2004-06-01 Bachelor Of Science  
 Saint Cloud State Univ  
 U of Minn Twin Cities

----- OSU Degrees -----

Degree : Master of Science  
 Confer Date : 2006-08-27  
 Plan : Astronomy

----- Beginning of Graduate Record -----

Autumn 2004 Quarter

Program : Graduate Math & Physical Sci.  
 Plan : Astronomy Major

Course	Description	Attempted	Earned Grade	Points
ASTRON 693	Individual Studies	3.00	3.00 S	
ASTRON 801	Seminar 1	2.00	2.00 S	
ASTRON 810	Ordr Mag Astrophy	2.00	2.00 S	
ASTRON 823	Astrophys Spectros	3.00	3.00 A-	11.100
ASTRON 830	Obs Prop Stars&Galx	5.00	5.00 A-	18.500
TERM GPA :	3.780	TERM TOTALS :	15.00	15.00 29.600
CUM GPA :	3.700	CUM TOTALS :	15.00	15.00 29.600

Winter 2005 Quarter

Program : Graduate Math & Physical Sci.  
 Plan : Astronomy Major

Course	Description	Attempted	Earned Grade	Points
ASTRON 693	Individual Studies	3.00	3.00 S	
ASTRON 802	Seminar 2	2.00	2.00 S	
ASTRON 810	Ordr Mag Astrophy	2.00	2.00 S	
ASTRON 825	radiativ Gas Dynam	3.00	3.00 A	12.000
ASTRON 869	Obs Cosmo&Act Galx	3.00	3.00 A	12.000
PHYSICS 880.20	Special Topics	3.00	3.00 A	12.000
TERM GPA :	4.000	TERM TOTALS :	16.00	16.00 36.000
CUM GPA :	3.858	CUM TOTALS :	31.00	31.00 65.600

Spring 2005 Quarter

Program : Graduate Math & Physical Sci.  
 Plan : Astronomy Major

Course	Description	Attempted	Earned Grade	Points
ASTRON 803	Seminar 3	2.00	2.00 S	
ASTRON 871	Interstellr Medium	3.00	3.00 A	12.000
ASTRON 999	Research	10.00	10.00 S	
TERM GPA :	4.000	TERM TOTALS :	15.00	15.00 12.000
CUM GPA :	3.880	CUM TOTALS :	46.00	46.00 77.600

Summer 2005 Quarter

Program : Graduate Math & Physical Sci.  
 Plan : Astronomy Major

Course	Description	Attempted	Earned Grade	Points
ASTRON 999	Research	15.00	15.00 S	
TERM GPA :	0.000	TERM TOTALS :	15.00	15.00 0.000
CUM GPA :	3.880	CUM TOTALS :	61.00	61.00 77.600

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THE OHIO STATE UNIVERSITY TRANSCRIPT

THE OHIO STATE UNIVERSITY TRANSCRIPT

**ST. CLOUD STATE**  
UNIVERSITY

Name: Dorsher, Susan Elaine SSN: xxx-xx-6437

Graduate Academic Record  
Date of Issue: 11/21/2013 Page: 1 of 1  
Student Campus ID: 00275893  
Student Number: 384-076

Subj Nbr	Title	Course Credit	Grade	Credit Earned	GPA	GPA Pts
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\*\*\*\* St. Cloud State University \*\*\*\*

Fall 2012

Graduate Special

STAT 517 Applied Prob/Simulation 3.00 A 3.00 3.00 12.00  
 GRAD Term Att: 3.00 Earn: 3.00 GPA Crs: 3.00 GPA Pts: 12.00 GPA: 4.00  
 \*\*\*\* Cum Att: 3.00 Earn: 3.00 GPA Crs: 3.00 GPA Pts: 12.00 GPA: 4.00

Summer 2013

PHYS 550 Intro to Fractional Calculus 1.00 A 1.00 1.00 4.00  
 PHYS 551 Appl in Fractional Calculus 1.00 A 1.00 1.00 4.00  
 GRAD Term Att: 2.00 Earn: 2.00 GPA Crs: 2.00 GPA Pts: 8.00 GPA: 4.00  
 \*\*\*\* Cum Att: 5.00 Earn: 5.00 GPA Crs: 5.00 GPA Pts: 20.00 GPA: 4.00

Career Graduate Summary - Semester Hours

Local: Att: 5.00 Earn: 5.00 GPA Crs: 5.00 GPA Pts: 20.00 GPA: 4.00  
 Total: Att: 5.00 Earn: 5.00 GPA Crs: 5.00 GPA Pts: 20.00 GPA: 4.00

\*\*\* END OF ACADEMIC TRANSCRIPT \*\*\*

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*Susan Dorsher*

# ST. CLOUD STATE UNIVERSITY

Name: Dorsher, Susan Elaine    SSN: xx-xx-6437

Undergraduate Academic Record  
Date of Issue: 11/21/2013    Page: 1 of 1  
Student Campus ID: 00275893  
Student Number: 384076

THE WORD VOID APPEARS WHEN PHOTOCOPIED

HERMOCHROMIC INK PATCH AND ARTIFICIAL WATERMARK ON BACK

Subj Nbr	Title	Course Credit	Grade	Credit Earned	GPA	GPA Pts
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\*\*\*\*\* St. Cloud State University \*\*\*\*\*

**Spring 1999**

Special  
 ASTR 107 Concepts Stars/Universe    3.00 A    3.00    3.00    12.00  
 PSY 282 Human Learning/Memory    3.00 W    0.00    0.00    0.00  
 UNGD Term Att:    6.00 Earn:    3.00 GPA Crs:    12.00 GPA Pts:    4.00  
 \*\*\*\*\* Cum Att:    6.00 Earn:    3.00 GPA Crs:    12.00 GPA Pts:    4.00

**Fall 1999**

FREN 201 Intermed French I    3.00 A    3.00    3.00    12.00  
 ASTR 311 Solar System Astronomy    3.00 A    3.00    3.00    12.00  
 PHYS 234 Classical Physics I    5.00 W    0.00    0.00    0.00  
 UNGD Term Att:    11.00 Earn:    6.00 GPA Crs:    24.00 GPA Pts:    4.00  
 \*\*\*\*\* Cum Att:    17.00 Earn:    9.00 GPA Crs:    36.00 GPA Pts:    4.00

**Spring 2000**

PHYS 235 Classical Physics II    5.00 A    5.00    5.00    20.00  
 FREN 202 Intermed French II    3.00 A    3.00    3.00    12.00  
 UNGD Term Att:    8.00 Earn:    8.00 GPA Crs:    32.00 GPA Pts:    4.00  
 \*\*\*\*\* Cum Att:    25.00 Earn:    17.00 GPA Crs:    68.00 GPA Pts:    4.00

**Summer 2012**

Graduate Special  
 CSCI 262 Programming in Java    2.00 A    2.00    2.00    8.00  
 UNGD Term Att:    2.00 Earn:    2.00 GPA Crs:    8.00 GPA Pts:    4.00  
 \*\*\*\*\* Cum Att:    27.00 Earn:    19.00 GPA Crs:    76.00 GPA Pts:    4.00

**Fall 2012**

ASTR 323 Observational Astronomy    3.00 A+    3.00    3.00    12.00  
 MATH 461 Modern Algebra I    4.00 A    4.00    4.00    16.00  
 UNGD Term Att:    7.00 Earn:    7.00 GPA Crs:    28.00 GPA Pts:    4.00  
 \*\*\*\*\* Cum Att:    34.00 Earn:    26.00 GPA Crs:    104.00 GPA Pts:    4.00

**Spring 2013**

ECE 221 Digital Logic Design    3.00 A+    3.00    3.00    12.00  
 MATH 499 Lie Groups/Rings/Other    2.00 A    2.00    2.00    8.00  
 UNGD Term Att:    5.00 Earn:    5.00 GPA Crs:    20.00 GPA Pts:    4.00  
 \*\*\*\*\* Cum Att:    39.00 Earn:    31.00 GPA Crs:    124.00 GPA Pts:    4.00

**Career Undergrad Summary - Semester Hours**

Local: Att: 39.00 Earn: 31.00 GPA Crs: 124.00 GPA Pts: 4.00  
 Total: Att: 39.00 Earn: 31.00 GPA Crs: 124.00 GPA Pts: 4.00

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*Susan Dorsher*



Name : Dorsher, Susan Elaine  
Student ID: 1823199  
Birthdate : 07-03

Print Date : 11-19-2013

**MOST RECENT PROGRAMS**

Campus : University of Minnesota, Twin Cities  
Program : University College  
Plan : Non Degree Non-Degree

Student also has transcripts from the University of Minnesota at levels:  
Graduate

----- Transfer Credits -----

Transfer Credit from CR BY ADV PLCONT-COL BOARD  
Semester Credits Transferred : 30.00

----- Beginning of Undergraduate Record -----

**Fall Quarter 1996**

University of Minnesota, Twin Cities  
University College  
Non Degree Non-Degree

COURSE	Description	Attempted	Earned Grade	Points
MATH 1711B	Honors Calculus I	4.00	4.00 A	16.000
TERM GPA :		4.000	TERM TOTALS :	4.00 4.00 16.000

**Spring Quarter 1997**

University of Minnesota, Twin Cities  
University College  
Non Degree Non-Degree

Course	Description	Attempted	Earned Grade	Points
MATH 1721B	Honors Calculus II	4.00	4.00 A	16.000
TERM GPA :		4.000	TERM TOTALS :	4.00 4.00 16.000

**Fall Quarter 1997**

University of Minnesota, Twin Cities  
University College  
Non Degree Non-Degree

Course	Description	Attempted	Earned Grade	Points
MATH 1731B	Honors Calculus 3	4.00	4.00 A	16.000
TERM GPA :		4.000	TERM TOTALS :	4.00 4.00 16.000

**Winter Quarter 1998**

University of Minnesota, Twin Cities  
University College  
Non Degree Non-Degree

Course	Description	Attempted	Earned Grade	Points
MATH 3511B	Hon:Linear Analy I	5.00	5.00 A	20.000
TERM GPA :		4.000	TERM TOTALS :	5.00 5.00 20.000

**Fall Quarter 1998**

University of Minnesota, Twin Cities  
University College  
Non Degree Non-Degree

Course	Description	Attempted	Earned Grade	Points
MATH 5900	Tutorial:Adv Math	4.00	4.00 B+	13.332
TERM GPA :		3.333	TERM TOTALS :	4.00 4.00 13.332

**Winter Quarter 1999**

University of Minnesota, Twin Cities  
University College  
Non Degree Non-Degree

Course	Description	Attempted	Earned Grade	Points
MATH 5900	Tutorial:Adv Math	4.00	4.00 A	16.000
TERM GPA :		4.000	TERM TOTALS :	4.00 4.00 16.000

Effective Fall 1999 the University of Minnesota converted to semesters

**Fall Semester 1999**

University of Minnesota, Twin Cities  
University College  
Non Degree Non-Degree

Course	Description	Attempted	Earned Grade	Points
MATH 2473	Calculus III	5.00	5.00 A	20.000
TERM GPA :		4.000	TERM TOTALS :	5.00 5.00 20.000

**University of Minnesota Summary Information**

**Undergraduate Career Totals**

	Attempted	Earned	Points
CUM GPA :	3.918	CUM TOTALS :	21.67 21.67 84.899
GPA UNITS :	21.670	CUM TOTALS :	51.67

\*\*\*\*\* End of Transcript \*\*\*\*\*

Page 1 of 1

Susan Dorsher

Susan Van Voorhis, Registrar  
University of Minnesota, Twin Cities

Name : Dorsher, Susan Elaine  
Student ID: 1823199  
Birthdate : 07-03

Print Date : 11-19-2013

**MOST RECENT PROGRAMS**

Campus : University of Minnesota, Twin Cities  
Program : College of Sci & Engineering  
Plan : Physics M S Major  
Degree Sought : Master of Science  
Advisor : Kapusta, Joseph I

Student also has transcripts from the University of Minnesota at levels:  
Undergraduate

----- University of Minnesota Degrees and Certificates Awarded -----

Degree : Master of Science  
Confer Date : 07-31-2013  
Acad Program : College of Sci & Engineering  
Plan : Physics M S

----- Beginning of Graduate Record -----

**Fall Semester 2006**  
University of Minnesota, Twin Cities  
Graduate School  
Physics Ph D Major

Course	Description	Attempted	Earned Grade	Points
PHYS 5001	Quantum Mech I	4.00	4.00 A	16.000
PHYS 5011	Classical Phys I	4.00	4.00 B+	13.332
PHYS 5072	Best Practices in Phys Teach.	1.00	1.00 S	
PHYS 5980	Research Seminar	1.00	1.00 S	
TERM GPA :		3.667	TERM TOTALS :	10.00 10.00 29.332

**Spring Semester 2007**  
University of Minnesota, Twin Cities  
Graduate School  
Physics Ph D Major

Course	Description	Attempted	Earned Grade	Points
PHYS 4511	Intro Nuc and Part Phys	3.00	3.00 A	12.000
PHYS 5002	Quantum Mech II	4.00	4.00 B+	13.332
PHYS 5012	Classical Phys II		0.00 W	
TERM GPA :		3.619	TERM TOTALS :	7.00 7.00 25.332

**Fall Semester 2007**  
University of Minnesota, Twin Cities  
Graduate School  
Physics Ph D Major

Course	Description	Attempted	Earned Grade	Points
PHYS 4201	Stat Therm Phys	3.00	3.00 A	12.000
PHYS 8001	Adv Quant Mech	3.00	3.00 B+	9.999
PHYS 8900	Elem Particle Sem	1.00	1.00 S	
PHYS 8901	Elem Part Phys I	3.00	3.00 B+	9.999
TERM GPA :		3.555	TERM TOTALS :	10.00 10.00 31.998

**Spring Semester 2008**  
University of Minnesota, Twin Cities  
Graduate School  
Physics Ph D Major

Course	Description	Attempted	Earned Grade	Points
PHYS 5012	Classical Phys II	4.00	4.00 A	16.000
PHYS 8011	Quant Field Thy I	3.00	3.00 A-	11.001
PHYS 8900	Elem Particle Sem	1.00	1.00 S	
PHYS 8902	Elem Part Phys II		0.00 W	
TERM GPA :		3.857	TERM TOTALS :	8.00 8.00 27.001

**Fall Semester 2008**  
University of Minnesota, Twin Cities  
Graduate School  
Physics Ph D Major

Course	Description	Attempted	Earned Grade	Points
PHYS 5041	Nath Meth Phys	4.00	4.00 A	16.000
PHYS 5201	Thermal and Stat Phys	3.00	3.00 B	9.000
PHYS 8012	Quant Field Thy II	3.00	3.00 A	12.000
TERM GPA :		3.700	TERM TOTALS :	10.00 10.00 37.000

**Spring Semester 2009**  
University of Minnesota, Twin Cities  
Graduate School  
Physics Ph D Major  
Supporting Program Minor

Course	Description	Attempted	Earned Grade	Points
PHYS 5994	Directed Research	3.00	3.00 S	
PHYS 8200	Cos/High En Astro Seminar	1.00	1.00 S	
PHYS 8501	Gen Rel Cosmol I	3.00	3.00 A	12.000
TERM GPA :		4.000	TERM TOTALS :	7.00 7.00 12.000

**Fall Semester 2009**  
University of Minnesota, Twin Cities  
Graduate School  
Physics Ph D Major  
Supporting Program Minor

Course	Description	Attempted	Earned Grade	Points
PHYS 8200	Cos/High En Astro Seminar	1.00	1.00 S	
PHYS 8502	Gen Rel Cosmol II	3.00	3.00 B	9.000
PHYS 8888	Thesis Credit:Doct*	10.00	10.00 NG	
TERM GPA :		3.000	TERM TOTALS :	14.00 14.00 9.000

**Spring Semester 2010**  
University of Minnesota, Twin Cities  
Graduate School  
Physics Ph D Major  
Supporting Program Minor

Course	Description	Attempted	Earned Grade	Points
PHYS 8888	Thesis Credit:Doct*	14.00	14.00 NG	

Susan Dorsher

Susan Van Voorhis, Registrar  
University of Minnesota, Twin Cities



Name : Dorsher, Susan Elaine  
Student ID: 1823199  
Birthdate : 07-03

TERM GPA : 0.000 TERM TOTALS : 14.00 14.00 0.000

Graduate Career Totals

Summer Semester 2010  
University of Minnesota, Twin Cities  
Graduate School  
Physics Ph D Major  
Supporting Program Minor

	Attempted	Earned	Points
CUM GPA :	3.652	CUM TOTALS :	83.00 83.00 171.663
GPA UNITS :	47.000	CUM TOTALS :	83.00

Course	Description	Attempted	Earned Grade	Points
PHYS 8444	FTE: Doctoral	1.00	1.00 NC	
TERM GPA :	0.000	TERM TOTALS :	1.00 1.00 0.000	

\*\*\*\*\* End of Transcript \*\*\*\*\*  
Page 2 of 2

Fall Semester 2010

University of Minnesota, Twin Cities  
Graduate School  
Physics Ph D Major  
Supporting Program Minor

Course	Description	Attempted	Earned Grade	Points
PHYS 8444	FTE: Doctoral	1.00	1.00 NC	
TERM GPA :	0.000	TERM TOTALS :	1.00 1.00 0.000	

Spring Semester 2011

University of Minnesota, Twin Cities  
Graduate School  
Physics Ph D Major  
Supporting Program Minor

Course	Description	Attempted	Earned Grade	Points
PHYS 8444	FTE: Doctoral	1.00	1.00 NC	
TERM GPA :	0.000	TERM TOTALS :	1.00 1.00 0.000	

Summer Semester 2011

University of Minnesota, Twin Cities  
Graduate School  
Physics Ph D Major  
Supporting Program Minor

Cancelled

Fall Semester 2011

University of Minnesota, Twin Cities  
College of Sci & Engineering  
Physics Ph D Major  
Supporting Program Minor

Cancelled

Summer Semester 2013

University of Minnesota, Twin Cities  
College of Sci & Engineering  
Physics M S Major

Course	Description	Attempted	Earned Grade	Points
CEAD 999	Graduate School Active Status		0.00 NC	
TERM GPA :	0.000	TERM TOTALS :	0.00 0.00 0.000	

University of Minnesota Summary Information

Susan Van Voorhis, Registrar  
University of Minnesota, Twin Cities

# Transcript key

## Academic calendar

The semester system started Fall 1999 for all University of Minnesota campuses. Prior to Fall 1999 the University used a quarter system with these exceptions: Law school started on semesters Fall 1981, and some College of Continuing Education courses were taught on a semester calendar but the credits reported as quarter credits.

## Accreditation

The University of Minnesota is accredited by the Higher Learning Commission of the North Central Association of Colleges and Schools.

## Course (class) numbering system (from Fall 1999)

- 0000 to 0999 remedial courses
- 1000 to 1999 primarily for undergraduates in first year
- 2000 to 2999 primarily for undergraduates in second year
- 3000 to 3999 primarily for undergraduates in third year
- 4000 to 4999 primarily for undergraduates in fourth year, may be applied to a Graduate School degree with approval by the student's major field and if taught by a member of the graduate faculty or an individual authorized by the program to teach at the graduate level
- 5000 to 5999 primarily for graduate students but third and fourth year undergraduates may enroll
- 6000 to 7999 for postbaccalaureate professional degree students
- 8000 to 9999 for graduate students

## Prior course numbering systems

- For Fall 1970 through Summer 1999 (course numbering prior to 1970 is noted in parentheses):
- 0000 to 0999 noncredit courses
- 1000 to 1999 (01 - 49) introductory courses primarily for freshmen and sophomores
- 3000 to 3999 (50 - 99) intermediate courses primarily for juniors and seniors
- 5000 to 5999 (100 - 199) advanced courses for juniors, seniors, and graduate students
- 8000 to 8999 (200 and higher) for graduate and professional school students

## Credit

- Starting Fall 1999 – units are semester credit
- Prior to Fall 1999 – units generally are quarter credit (see calendar for exceptions)
- Thesis credit – an asterisk (\*) will appear following the course title of courses numbered 8777, 8888, or 8999 if the degree award is shown
- An asterisk (\*) indicates graduate credit taken through College of Continuing Education (Continuing Education and Extension prior to Fall 1999)

## Grading policy (complete)

Available online at [policy.umn.edu/Polices/Education/Education/GRADINGTRANSCRIPTS.html](http://policy.umn.edu/Polices/Education/Education/GRADINGTRANSCRIPTS.html)

## Campus records office locations:

University of Minnesota, Crookston	University of Minnesota, Duluth	University of Minnesota, Morris	University of Minnesota, Twin Cities
9 Hill Hall Crookston, MN 55812-3011 218-331-8544 Dept of Educ. Inst. ed. 002388	184 Durand Administration Building Duluth, MN 55812-3011 218-726-8000 Dept of Educ. Inst. ed. 002388	333 Science Teaching & Student Services Morris, MN 56267-2132 320-589-6030 Dept of Educ. Inst. ed. 002389	333 Science Teaching & Student Services St. Paul, MN 55108 612-624-1111 Dept of Educ. Inst. ed. 303969

AUTHENTICITY TEST: When photocopied, a laser security statement containing the institutional name and the words COPY COPY COPY will appear on the face of the entire document. An authentic document will show if touched by fresh liquid bleach. A black and white or color copy of this document is not an original and should not be accepted as an official institutional document. ALTERATION OF THIS DOCUMENT MAY BE A CRIMINAL OFFENSE. This document may not be re-released by any 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 the appropriate campus records office (see above).

## Grading definitions

- A – achievement that is outstanding relative to the level necessary to meet course requirements
  - B – achievement that is significantly above the level necessary to meet course requirements
  - C – achievement that meets the course requirements in every respect
  - D – achievement that is worthy of credit even though it fails to meet fully the course requirements
  - E – achievement that is significantly greater than the level required to meet the basic course requirements but not judged to be outstanding
  - F (or N) – represents failure (or no credit) and signifies that the work was either (1) completed but at a level of achievement that is not worthy of credit or (2) was not completed and there was no agreement between the instructor and the student that the student would be awarded an I (see also I)
  - H – (Honors) used by Law School and Medical School only
  - I – (Incomplete) assigned at the discretion of the instructor when, due to extraordinary circumstances, e.g., hospitalization, a student is prevented from completing the work of the course on time. Requires a written agreement between instructor and student
  - K – assigned by an instructor to indicate the course is still in progress and that a grade cannot be assigned at the present time
  - NG – no grade required
  - O – represents outstanding achievement for Doctor of Medicine and Doctor of Veterinary Medicine programs
  - P – achievement designating passing work
  - Q – achievement designating passing work
  - R – a course related registration symbol
  - S – achievement that is satisfactory, which is equivalent to a C- or better for undergraduate students (C or better on the Duluth campus). Graduate and professional programs may establish higher standards for earning a grade of S.
  - T – test credit
  - V – registration as an auditor or visitor (a non-grade non-credit registration)
  - W – entered by the registrar's office when the student officially withdraws from a course after the second week
  - X – reported by the instructor for a student in a sequence course where the grade cannot be determined until the sequence is complete – the instructor is to submit a grade for each X when the sequence is complete
  - Y – assigned from Fall 1929 to Summer 1959 to indicate the student canceled while doing passing work
  - Z – assigned from Fall 1929 to Summer 1959 to indicate the student canceled while doing failing work
- On the Twin Cities campus from Fall 1972 through Summer 1977 and on the Morris campus from Fall 1972 through Summer 1985, the official University transcript included only positive academic achievements. Courses in which the student received a grade of N or a registration symbol of I or W did not appear on the transcript.

## Grade/Numeric Point Average formula

Effective Fall 1997, grade point values were standardized for the University. All units except Law use: 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+ = 1.333, D = 1.000, F = 0.000, I = 0.000, X = 0.000, Y = 0.000. Effective Fall 2004, the Twin Cities campus Law School uses University standard grading, with the addition of A+ = 4.333 and excluding D+. Before 1997, most units did not use +/- . But the Duluth campus and the School of Management used: A = 4.0, A- = 3.6, B+ = 3.3, B = 3.0, B- = 2.6, C+ = 2.3, C = 2.0, C- = 1.6, D+ = 1.3, D = 1.0, F = 0.0 and the Twin Cities General College used A = 4.0, A- = 3.6, B = 3.2, B- = 2.8, C+ = 2.4, C = 2.0, C- = 1.6, D = 1.2, D- = 0.8, F = 0.0

Prior to Fall 2004, the Twin Cities campus Law School used a numeric rather than a grade point average for the *juris doctor (J.D.)* degree program. Grades ranged from 4-16 points based on the following: 14-16: Excellent/Outstanding; 11-13: Substantially better than average; 8-10: Minimally acceptable; 5-7: Inadequate (credits count towards degree completion, and NPA); 4: Failing; 0: Non-performance. Classes for which a 0 grade was earned are not included in NPA calculation. Grades earned in the *L.L.M.* (Master of Laws) program were: A=4.00, B=3.00, C=2.00, D=1.00, F=0.00. No +/- distinctions are given.

## Symbols following course numbers

- C – certificate credit
- E – on Duluth campus, registration in Continuing Education, or on Twin Cities campus, an MBA course
- G – honors course for extra credit
- H – honors course
- J – evening MBA course for extra credit
- K – evening MBA course by independent study
- L – honors course by independent study
- M – extra credit by independent study
- Q – evening MBA extra credit by independent study
- R – honors extra credit by independent study
- S – semester registration (pre-1999)
- T – semester honors course (pre-1999)
- U – special term course taken for extra credit
- V – honors and writing intensive
- W – writing intensive
- X – extra credit
- Y – independent study
- Z – special term registration

## Additional notations

**Canceled** means that all course registration was canceled (i.e., dropped) before the end of the second week of the term.

**Degree with distinction** indicates graduation with high GPA; **degree with honors** (laude) indicates completion of honors program.

**Second Language Proficiency** means demonstrated intermediate proficiency in reading, writing, listening, and speaking.

**For more information, visit [www.umn.edu](http://www.umn.edu)**

University of Minnesota, Rochester	University of Minnesota, Rochester
111 South Broadway Rochester, MN 55904 507-258-4457 Dept of Educ. Inst. ed. 903969	The University of Minnesota, Wasca campus closed in 1992. For information on Wasca student transcripts, contact the St. Paul office

**LOUISIANA STATE UNIVERSITY  
COLLEGE RECORD**

SUSAN ELAINE DORSHER

ISSUED 11/21/2017 TO: STUDENT

DEGREES AWARDED:

06/2004 BS  
MASSACHUSETTS INSTITUTE OF TECHNOLOGY

08/2006 MS  
OHIO STATE UNIVERSITY

07/2013 MS  
UNIVERSITY OF MINNESOTA-TWIN CITIES-MINN

UNIVERSITY OF MINNESOTA-TWIN CITIES-MINN UG 1Q/1997-1S/1999  
ST CLOUD STATE UNIVERSITY UG 2S/1999-2S/2000  
MASSACHUSETTS INSTITUTE OF TECHNOLOGY UG 1T/2001-2T/2004  
UNDERGRADUATE TOTALS  
HC 69.67 HE 264.00 QP 276.89 GPA 3.974

ST CLOUD STATE UNIVERSITY PB 3S/2012-2S/2013  
POST BACCALAUREATE TOTALS  
HC 14.00 HE 14.00 QP 56.00 GPA 4.000

OHIO STATE UNIVERSITY GR 1Q/2005-2Q/2006  
UNIVERSITY OF MINNESOTA-TWIN CITIES-MINN GR 1S/2007-2S/2011  
ST CLOUD STATE UNIVERSITY GR 1S/2013-2S/2013  
GRADUATE TOTALS  
HC 77.08 HE 156.64 QP 287.22 GPA 3.726

DEPT	CRSE	GR	CARR	EARN	QPTS
LOUISIANA STATE UNIVERSITY	3RD SEM 2013-2014	GRAD 7 PPHYS			
	PHYS 9000	S	6.00		
	SEMESTER		6.00		
	LSU SYSTEM		6.00		
	CUMULATIVE		77.08	162.64	287.22 3.726

DEPT	CRSE	GR	CARR	EARN	QPTS
LOUISIANA STATE UNIVERSITY	1ST SEM 2014-2015	GRAD 7 PPHYS			
	ASTR 7777	A	1.00	1.00	4.00
	ASTR 7783	A	3.00	3.00	12.00
	PHYS 7336	A	3.00	3.00	12.00
	PHYS 7895	F		3.00	
	SEMESTER		7.00	10.00	28.00 4.000
	LSU SYSTEM		7.00	16.00	28.00 4.000
	CUMULATIVE		84.08	172.64	315.22 3.749

DEPT	CRSE	GR	CARR	EARN	QPTS
LOUISIANA STATE UNIVERSITY	2ND SEM 2014-2015	GRAD 7 PPHYS			
	PHYS 7225	A	3.00	3.00	12.00
	PHYS 7411	A	3.00	3.00	12.00
	PHYS 7777	A	1.00	1.00	4.00
	PHYS 7777	A	1.00	1.00	4.00
	PHYS 7857	P		1.00	
	PHYS 7895	P		3.00	
	SEMESTER		8.00	12.00	32.00 4.000
	LSU SYSTEM		15.00	28.00	60.00 4.000
	CUMULATIVE		92.08	184.64	347.22 3.770

DEPT	CRSE	GR	CARR	EARN	QPTS
LOUISIANA STATE UNIVERSITY	3RD SEM 2014-2015	GRAD 7 PPHYS			
	PHYS 9000	S		6.00	
	SEMESTER			6.00	
	LSU SYSTEM		15.00	34.00	60.00 4.000
	CUMULATIVE		92.08	190.64	347.22 3.770

DEPT	CRSE	GR	CARR	EARN	QPTS
LOUISIANA STATE UNIVERSITY	1ST SEM 2015-2016	GRAD 7 PPHYS			
	PHYS 7232	A-	3.00	3.00	11.10
	PHYS 7777	A	1.00	1.00	4.00
	PHYS 9000	S		6.00	
	SEMESTER		4.00	10.00	15.10 3.775
	LSU SYSTEM		19.00	44.00	75.10 3.952
	CUMULATIVE		96.08	200.64	362.32 3.771

**LOUISIANA STATE UNIVERSITY  
COLLEGE RECORD**

SUSAN ELAINE DORSHER

PAGE 2

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DEPT CRSE          GR   CARR   EARN   QPTS
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LOUISIANA STATE UNIVERSITY
2ND SEM 2015-2016  GRAD 7 PPHYS

PHYS 7412          A    3.00   3.00  12.00
PHYS 7777          A    1.00   1.00   4.00
PHYS 7895          P           3.00
PHYS 9000          S           3.00

          SEMESTER          4.00  10.00  16.00  4.000
          LSU SYSTEM          23.00  54.00  91.10  3.960
          CUMULATIVE          100.08 210.64 378.32 3.780
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LOUISIANA STATE UNIVERSITY
3RD SEM 2015-2016  GRAD 7 PPHYS

PHYS 9000          S           6.00

          SEMESTER          6.00
          LSU SYSTEM          23.00  60.00  91.10  3.960
          CUMULATIVE          100.08 216.64 378.32 3.780
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LOUISIANA STATE UNIVERSITY
1ST SEM 2016-2017  GRAD 7 PPHYS

PHYS 7777          A    1.00   1.00   4.00
PHYS 9000          S           8.00

          SEMESTER          1.00   9.00   4.00  4.000
          LSU SYSTEM          24.00  69.00  95.10  3.962
          CUMULATIVE          101.08 225.64 382.32 3.782
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LOUISIANA STATE UNIVERSITY
2ND SEM 2016-2017  GRAD 7 PPHYS

PHYS 7777          A    1.00   1.00   4.00
PHYS 9000          S           8.00

          SEMESTER          1.00   9.00   4.00  4.000
          LSU SYSTEM          25.00  78.00  99.10  3.964
          CUMULATIVE          102.08 234.64 386.32 3.784
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DEPT CRSE          GR   CARR   EARN   QPTS
-----
LOUISIANA STATE UNIVERSITY
3RD SEM 2016-2017  GRAD 7 PPHYS

PHYS 9000          S           6.00

          SEMESTER          6.00
          LSU SYSTEM          25.00  84.00  99.10  3.964
          CUMULATIVE          102.08 240.64 386.32 3.784
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LOUISIANA STATE UNIVERSITY
1ST SEM 2017-2018  GRAD 7 PPHYS

PHYS 7777          IP    1.00
PHYS 9000          IP    8.00

          CURRENTLY ENROLLED          9.00
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PENDING DEGREE PROGRAMS:

DEGREE SEQ NBR: 04  INACTIVE
          GRAD DOCTORAL  PPHYS
                                     3S/2014

DEGREE SEQ NBR: 05
          GRAD NON-THESIS SPHYS
                                     3S/2014
    
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APPROVED TO REC DEGREE CREDIT FOR PHYS 550, SUMMER 13  GRAD
ST CLOUD STATE TO BE APPLIED TOWARD SPHYS JM 11/13/17  GRAD
    
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10/02/2017  PASS FINAL EXAM
*****END OF ACADEMIC RECORD*****
    
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