

Control : 424530

Record of: Alexander Robert Hagen

Current Name:

Date Issued: 14-AUG-2017

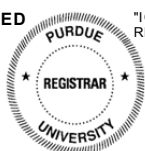
Level: Graduate

Issued To: Alex Hagen - RE USAJobs
ahagen@purdue.edu

| | | | | | SUBJ NO. | COURSE TITLE | CRED GRD | PTS R |
|---|--|--|--|--|------------------------------------|---|----------|--------|
| Course Level: Graduate | | | | | Institution Information continued: | | | |
| Current Program | | | | | Term: | Spring 2013 | | |
| Doctor of Philosophy | | | | | GRAD 68900 | CSE Seminar | 0.00 S | 0.00 I |
| Program : Nuclear Engr-PHD | | | | | NUCL 57000 | Fuzzy Approach Engr | 3.00 A | 12.00 |
| College : Graduate School | | | | | NUCL 61200 | Appl Reactor Analysis | 3.00 A+ | 12.00 |
| Campus : West Lafayette | | | | | NUCL 69600 | Nuclear Engr Sem | 0.00 S | 0.00 I |
| Major : Nuclear Engineering | | | | | NUCL 69800 | Research MS Thesis | 6.00 S | 0.00 I |
| Degree Awarded MS in Nuclear Engineering 08-AUG-2014 | | | | | Term: | Ehrs: 12.00 GPA-Hrs: 6.00 QPts: 24.00 GPA: 4.00 | | |
| Primary Degree | | | | | Continued Good Standing | | | |
| Program : Nuclear Engr-MS-NE | | | | | Term: | Fall 2013 | | |
| College : Graduate School | | | | | CS 50100 | Computing For Sci And Engrng | 3.00 B+ | 9.90 |
| Campus : West Lafayette | | | | | CS 53000 | Intro Scient Visualiz | 3.00 A+ | 12.00 |
| Major : Nuclear Engineering | | | | | NUCL 57500 | Neural Computing Engr | 3.00 A+ | 12.00 |
| Maj/Concentration : Computational Engineering | | | | | NUCL 69600 | Nuclear Engr Sem | 0.00 S | 0.00 I |
| Secondary | | | | | Term: | Ehrs: 9.00 GPA-Hrs: 9.00 QPts: 33.90 GPA: 3.77 | | |
| Program : Nuclear Engr-MS-NE | | | | | Continued Good Standing | | | |
| College : Graduate School | | | | | Term: | Spring 2014 | | |
| Campus : West Lafayette | | | | | NUCL 51100 | Reactor Thry & Kinetic | 3.00 B+ | 9.90 |
| Major : Nuclear Engineering | | | | | NUCL 69600 | Nuclear Engr Sem | 0.00 S | 0.00 I |
| Maj/Concentration : Computational Engineering | | | | | NUCL 69800 | Research MS Thesis | 9.00 S | 0.00 I |
| Master's Thesis | | | | | Term: | Ehrs: 12.00 GPA-Hrs: 3.00 QPts: 9.90 GPA: 3.30 | | |
| MULTIPHYSICS MODELING IN OPTIMIZATION OF ACOUSTICALLY | | | | | Continued Good Standing | | | |
| TENSIONED METASTABLE FLUID NEUTRON DETECTORS | | | | | Term: | Summer 2014 | | |
| SUBJ NO. | | | | | NUCL 69800 | Research MS Thesis | 3.00 S | 0.00 I |
| COURSE TITLE | | | | | Term: | Ehrs: 3.00 GPA-Hrs: 0.00 QPts: 0.00 GPA: 0.00 | | |
| CRED GRD | | | | | Term: | Fall 2014 | | |
| PTS R | | | | | GRAD 68900 | CSE Seminar | 0.00 S | 0.00 I |
| INSTITUTION CREDIT: | | | | | NUCL 69600 | Nuclear Engr Sem | 0.00 S | 0.00 I |
| Term: | | | | | NUCL 69900 | Research PhD Thesis | 5.00 S | 0.00 I |
| Fall 2012 | | | | | ***** CONTINUED ON PAGE 2 ***** | | | |
| GRAD 68900 | | | | | | | | |
| CSE Seminar | | | | | | | | |
| 0.00 S | | | | | | | | |
| 0.00 I | | | | | | | | |
| ME 58100 | | | | | | | | |
| Num Mthds Mech Engr | | | | | | | | |
| 3.00 B+ | | | | | | | | |
| 9.90 | | | | | | | | |
| NUCL 52000 | | | | | | | | |
| Radiation Effects | | | | | | | | |
| 3.00 A | | | | | | | | |
| 12.00 | | | | | | | | |
| NUCL 55100 | | | | | | | | |
| Energy Transfer | | | | | | | | |
| 3.00 B | | | | | | | | |
| 9.00 | | | | | | | | |
| NUCL 59700 | | | | | | | | |
| Ski Engr/Nuc Engr Lit | | | | | | | | |
| 3.00 A | | | | | | | | |
| 12.00 | | | | | | | | |
| NUCL 69600 | | | | | | | | |
| Nuclear Engr Sem | | | | | | | | |
| 0.00 S | | | | | | | | |
| 0.00 I | | | | | | | | |
| NUCL 69800 | | | | | | | | |
| Research MS Thesis | | | | | | | | |
| 6.00 S | | | | | | | | |
| 0.00 I | | | | | | | | |
| Term: | | | | | | | | |
| Ehrs: 18.00 GPA-Hrs: 12.00 QPts: 42.90 GPA: 3.58 | | | | | | | | |
| Continued Good Standing | | | | | | | | |
| ***** CONTINUED ON NEXT COLUMN ***** | | | | | | | | |

RAISED SEAL NOT REQUIRED

This official transcript does not require a raised seal.



"I CERTIFY THAT THIS IS A CORRECT TRANSCRIPT OF THE RECORD OF THE ABOVE STUDENT."

Jerry B...

UNIVERSITY REGISTRAR

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PURDUE UNIVERSITY
Office of the Registrar
610 Purdue Mall, West Lafayette, IN 47907-2040
Tel: (765) 494-6165 FAX: (765) 494-0570
KEY TO TRANSCRIPT OF ACADEMIC RECORDS

ACADEMIC CALENDAR

The Purdue University calendar is based on the semester system. A standard semester contains approximately 16 weeks of instruction, including final examinations. Summer sessions vary in number, length and format at the various campus locations.

ACCREDITATION

Purdue University is accredited by the North Central Association of Colleges and Secondary Schools, and by NCATE. Accreditation covers all courses and programs offered at all campuses of Purdue University. In addition, various schools within the University hold accreditation from their professional accrediting associations.

CAMPUS LOCATIONS

WEST LAFAYETTE (PWL) (Main Campus), West Lafayette, IN 47907, (765) 494-6165
IUUPU-FORT WAYNE (PFW) (Joint Campus with Indiana University), Fort Wayne, IN 46805 (260) 481-6815
IUUPU-INDIANAPOLIS (PIU) (Joint Campus with Indiana University), Indianapolis, IN 46202 (317) 274-1501
NORTHWEST-HAMMOND (PUC), Hammond, IN 46323, (219) 989-2210
NORTHWEST-WESTVILLE (PNC), Westville, IN 46391, (219) 785-5299
POLYTECHNIC STATEWIDE (TSW) (Various locations), administered through West Lafayette's Purdue Polytechnic Institute
PURDUE DIGITAL EDUCATION (PEC) (Various locations), administered through West Lafayette

COURSE NUMBERING SYSTEM

Prior to September 1953, courses designated by letter rather than number (e.g., English A) were non-credit. Courses numbered 1 through 99 were primarily for undergraduate credit. Courses numbered 100 through 199 enrolled advanced undergraduate and some graduate students. Courses numbered 200 through 299 were for graduate students. Between September 1953 and Summer 2008, the following numbering system was used: 001-049, Precollege and deficiency courses; 050-099, Nondegree courses (e.g., agriculture short courses); 100-299, Lower-division courses normally scheduled for freshmen and sophomores; 300-499, Upper-division courses normally scheduled for juniors and seniors; 500-599, Dual-level courses that may be scheduled by juniors, seniors and graduate students for graduate credit; 600-699, Graduate-level courses. In certain circumstances, an undergraduate student may take a 600-level course. In Fall 2008, course numbers were converted to five digits, and professional-level course numbers (80000 to 89999) were added.

CREDIT TYPES

Regular Credit - All Purdue University credit is reported in terms of semester hours, whether earned during a 16-week semester or a summer session.

GRADING SYSTEMS

Effective Fall 2008, all grades were converted to the 4.0 scale as a result of the implementation of the Banner student system. Prior to Summer 1993, the University was on a 6.0 scale. For information about previous grading scales, see the Office of the Registrar Web site: www.purdue.edu/Registrar

The following shows the points assigned to each grade:

| Grade | Points | Definition |
|-------|--------|------------------------------|
| A+/A | 4 | Highest Passing Grade |
| A- | 3.7 | |
| B+ | 3.3 | |
| B | 3 | |
| B- | 2.7 | |
| C+ | 2.3 | |
| C | 2 | |
| C- | 1.7 | |
| D+ | 1.3 | |
| D | 1 | |
| D- | 0.7 | Lowest Passing Grade |
| E | 0 | Conditional Failure |
| F | 0 | Failure |
| IF | 0 | Unremoved Incomplete-Failing |

The following grades are not included in the computation of scholastic indexes:

Regular Grade Option

I - Incomplete
O - Incomplete (obsolete eff. Summer 1977)
IX - Permanent Incomplete
R - Deferred Grade (PIU)
WF - Withdrew Failing

Pass/Not-Pass Option

P - Passing, equivalent to "C-" or higher ("C" or higher prior to Fall 2008)
N - Not Passing
PI - Incomplete
PO - Incomplete (obsolete effective Summer 1977)
IN - Unremoved Incomplete - Not Passing
WN - Withdrew Not Passing

Zero-Credit Courses (including thesis credits prior to Fall 2008)

S - Satisfactory
U - Unsatisfactory
SI - Incomplete
IU - Unremoved Incomplete - Unsatisfactory
WU - Withdrew Unsatisfactory

Other Grades

W - Withdrew
AU - Audit (effective Fall 2008)
DC - Departmental Credit
EX - Exempt
NC - Visitor, no credit (obsolete effective Fall 2008)
NG - Non-Graded (effective Fall 2008)
NS - Not Submitted (effective Fall 2008)
CR - Transfer Credit (prior to Fall 2008) Directed Credit (effective Fall 2008)
TR - Transfer Credit (effective Fall 2008)
TX - Transfer Credit* (effective Fall 2013)
V - Visitor (obsolete effective Summer 1963)

INSTITUTIONAL GPAs

TERM GPA - Based upon all courses in which the student was enrolled that session and for which grade points were earned. Is listed at the end of each semester.
LEVEL GPA - Overall grade point average that is listed at the end of each level, Undergraduate, Professional and Graduate.
EARNED HRS - A sum of all courses of which a D- or better was obtained. This includes P, S, CR and TR.

ABBREVIATIONS AND SYMBOLS (Effective Fall 2008)

EHRS - Credit hours earned.
GPA- Hrs - Quality hours earned (all hours carrying grade points).
Qpts - Quality points earned.
GPA - Grade point average (computed by dividing quality points by GPA-Hrs).
E - Indicates that the course is excluded from earned hours and GPA.
I - Indicates that the course is included in earned hours and GPA; corresponds to a previously E (excluded) course.

SPECIAL CREDIT NOTATIONS

Students may be awarded credit at Purdue University by means other than regular enrollment in and completion of a course. Beginning January 1979, this "directed credit" is noted on the academic record as follows:
BY EXAM - Awarded on the basis of achievement in a Purdue departmental proficiency examination.
CEEB AP - Awarded on the basis of achievement in College Entrance Examination Board Advance Placement tests.
CLEP CR - Awarded on the basis of achievement in the College Level Examination Program.
CR ESTB - Awarded on the basis of CEEB Math Achievement Test score or Purdue Composite score.
DEPT CR - Awarded on the basis of substantially equivalent experience, successful completion of a more advanced course, etc.
Prior to January 1979, all BY EXAM (for new students), CEEB AP, CR ESTB and CLEP CR credit was combined into the single notation CR ESTB.

TRANSFER CREDIT

Course credits accepted in transfer from other institutions are listed under the appropriate headings. For undergraduate students, the course numbers and titles reflect Purdue University equivalents, with the exception of Indiana University courses taken at the jointly-administered Purdue-Indiana University campuses in Indianapolis and Fort Wayne. With the exception of Indiana University credits at the jointly-administered campuses, credits earned in the Polytechnic Statewide program and credits earned in certain study-abroad programs, no grades are transferred and transfer credit hours are not reflected in the cumulative totals. Effective Fall 2008, the following are now included in transfer credit: College Level Exam Placement (CLEP), College Entrance Examination Board Advance Placement (CEEB AP), and International Baccalaureate (IB). *Transfer credit with grades of D+, D or D- will be applied towards the State Transfer General Education Core for all Indiana public institutions. This will be annotated with a grade of TX and cannot be used to fulfill institutional degree requirements. For details, see http://www.in.gov/che/files/STGEC_BW_Binder_Final_5.19.15.pdf.

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UNIVERSITY

ADDITIONAL TESTS: The institutional name and the word VOID appear on alternate rows 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

Control : 424530

Record of: Alexander Robert Hagen

Current Name:

Date Issued: 14-AUG-2017

Level: Graduate

| SUBJ NO. | COURSE TITLE | CRED GRD | PTS R | SUBJ NO. | COURSE TITLE | CRED GRD | PTS R |
|--------------------------------------|---|----------|--------|------------------------------------|--|----------|-------------|
| Institution Information continued: | | | | Institution Information continued: | | | |
| Term: | Ehrs: 5.00 GPA-Hrs: 0.00 QPts: 0.00 GPA: 0.00 | | | Term: | Ehrs: 6.00 GPA-Hrs: 0.00 QPts: 0.00 GPA: 0.00 | | |
| Continued Good Standing | | | | Continued Good Standing | | | |
| Term: | Spring 2015 | | | Term: | Fall 2016 | | |
| ME 68100 | Finite & Boundary Elmt | 3.00 B | 9.00 | AAE 55000 | Multidiscip Des Opt | 3.00 B | 9.00 |
| NUCL 55200 | Therm Hydr Reac Safety | 3.00 B | 9.00 | NUCL 69600 | Nuclear Engr Sem | 0.00 S | 0.00 I |
| NUCL 69600 | Nuclear Engr Sem | 0.00 S | 0.00 I | NUCL 69900 | Research PhD Thesis | 9.00 S | 0.00 I |
| NUCL 69900 | Research PhD Thesis | 6.00 S | 0.00 I | Term: | Ehrs: 12.00 GPA-Hrs: 3.00 QPts: 9.00 GPA: 3.00 | | |
| Term: | Ehrs: 12.00 GPA-Hrs: 6.00 QPts: 18.00 GPA: 3.00 | | | Continued Good Standing | | | |
| Continued Good Standing | | | | Term: | Spring 2017 | | |
| Term: | Summer 2015 | | | NUCL 56300 | Direct Energy Conver | 3.00 A | 12.00 |
| NUCL 69900 | Research PhD Thesis | 6.00 S | 0.00 I | NUCL 69600 | Nuclear Engr Sem | 0.00 S | 0.00 I |
| PHYS 34200 | Modern Physics | 3.00 W | 0.00 | NUCL 69900 | Research PhD Thesis | 6.00 S | 0.00 I |
| Term: | Ehrs: 6.00 GPA-Hrs: 0.00 QPts: 0.00 GPA: 0.00 | | | Term: | Ehrs: 9.00 GPA-Hrs: 3.00 QPts: 12.00 GPA: 4.00 | | |
| Continued Good Standing | | | | Continued Good Standing | | | |
| Term: | Fall 2015 | | | Term: | Summer 2017 | | |
| ME 51300 | Engineerng Acoustics | 3.00 B+ | 9.90 | NUCL 69900 | Research PhD Thesis | 8.00 S | 0.00 I |
| NUCL 69600 | Nuclear Engr Sem | 0.00 S | 0.00 I | Term: | Ehrs: 8.00 GPA-Hrs: 0.00 QPts: 0.00 GPA: 0.00 | | |
| PHYS 55600 | Intro Nuclear Physics | 3.00 A | 12.00 | ***** TRANSCRIPT TOTALS ***** | | | |
| Term: | Ehrs: 6.00 GPA-Hrs: 6.00 QPts: 21.90 GPA: 3.65 | | | Earned Hrs GPA Hrs Points GPA | | | |
| Continued Good Standing | | | | TOTAL INSTITUTION | 130.00 | 51.00 | 183.60 3.60 |
| Term: | Spring 2016 | | | TOTAL TRANSFER | 0.00 | 0.00 | 0.00 0.00 |
| NUCL 59700 | Intro To Computational Physics | 3.00 W | 0.00 | OVERALL | 130.00 | 51.00 | 183.60 3.60 |
| NUCL 69600 | Nuclear Engr Sem | 0.00 S | 0.00 I | ***** END OF TRANSCRIPT ***** | | | |
| NUCL 69700 | Intro To Computational Physics | 3.00 A | 12.00 | | | | |
| NUCL 69900 | Research PhD Thesis | 9.00 S | 0.00 I | | | | |
| Term: | Ehrs: 12.00 GPA-Hrs: 3.00 QPts: 12.00 GPA: 4.00 | | | | | | |
| Continued Good Standing | | | | | | | |
| Term: | Summer 2016 | | | | | | |
| NUCL 69900 | Research PhD Thesis | 6.00 S | 0.00 I | | | | |
| ***** CONTINUED ON NEXT COLUMN ***** | | | | | | | |

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|-------|--------|------------------------------|
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| B | 3 | |
| B- | 2.7 | |
| C+ | 2.3 | |
| C | 2 | |
| C- | 1.7 | |
| D+ | 1.3 | |
| D | 1 | |
| D- | 0.7 | Lowest Passing Grade |
| E | 0 | Conditional Failure |
| F | 0 | Failure |
| IF | 0 | Unremoved Incomplete-Failing |

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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 gold SCRIP-SAFE® paper with the name of the institution appearing in small gold print over the face of the entire document.

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UNIVERSITY

ADDITIONAL TESTS: The institutional name and the word VOID appear on alternate rows 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

Control : 424530

Record of: Alexander Robert Hagen

Current Name:

Date Issued: 14-AUG-2017

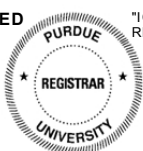
Level: Undergraduate

Issued To: Alex Hagen - RE USAJobs
ahagen@purdue.edu

| | | | | SUBJ NO. | COURSE TITLE | CRED GRD | PTS R |
|--|---|----------|-------|--------------------------------------|---|----------|-------|
| Course Level: Undergraduate | | | | Institution Information continued: | | | |
| Degree Awarded BS in Nuclear Engineering 05-MAY-2012 | | | | Term: | Summer 2009 | | |
| Primary Degree | | | | MA 26600 | Ordinary Differ Equatn | 3.00 B+ | 9.90 |
| Program : Nuclear Engr-BSE | | | | Term: Eh | Hrs: 3.00 GPA-Hrs: 3.00 QPts: 9.90 GPA: 3.30 | | |
| College : School of Nuclear Engineering | | | | Term: | Fall 2009 | | |
| Campus : West Lafayette | | | | CHM 11500 | General Chemistry | 4.00 CR | 0.00 |
| Major : Nuclear Engineering | | | | Credit by Exam | | | |
| SUBJ NO. | COURSE TITLE | CRED GRD | PTS R | MA 26500 | Linear Algebra | 3.00 B | 9.00 |
| TRANSFER CREDIT ACCEPTED BY THE INSTITUTION: | | | | ME 27000 | Basic Mechanics I | 3.00 B | 9.00 |
| AP Advance Placement - CEEB | | | | NUCL 20000 | Intro Nucl Engineering | 3.00 A+ | 12.00 |
| ENGL 10600 | First-Year Composition | 4.00 TR | | PHYS 17200 | Modern Mechanics | 4.00 B+ | 13.20 |
| MA 16500 | Anlytc Geomtry&Calc I | 4.00 TR | | Term: Eh | Hrs: 17.00 GPA-Hrs: 13.00 QPts: 43.20 GPA: 3.32 | | |
| PHYS 22000 | Gen Physics | 4.00 TR | | Continued Good Standing | | | |
| PHYS 22100 | Gen Physics | 4.00 TR | | Term: | Spring 2010 | | |
| PSY 12000 | Elementary Psychology | 3.00 TR | | ME 20000 | Thermodynamics I | 3.00 C- | 5.10 |
| STAT 30100 | Elem Stat Meth | 3.00 TR | | ME 27400 | Basic Mechanics II | 3.00 B | 9.00 |
| Eh | Hrs: 22.00 GPA-Hrs: 0.00 QPts: 0.00 GPA: 0.00 | | | NUCL 20500 | Nucl Eng Undergr Lab I | 2.00 A | 8.00 |
| 1 Case West Res Un Cleveland-OH | | | | NUCL 27300 | Mechanics Of Materials | 3.00 C+ | 6.90 |
| CHM 1XXXX | Princ Of Chem For Engrs | 4.00 TR | | PHIL 15000 | Principles Of Logic | 3.00 A | 12.00 |
| UND 1XXXX | Elementary Computer Prog | 3.00 TR | | Term: Eh | Hrs: 14.00 GPA-Hrs: 14.00 QPts: 41.00 GPA: 2.93 | | |
| UND 1XXXX | Photography's History & Uses | 4.00 TR | | Continued Good Standing | | | |
| Eh | Hrs: 11.00 GPA-Hrs: 0.00 QPts: 0.00 GPA: 0.00 | | | Term: | Summer 2010 | | |
| INSTITUTION CREDIT: | | | | PHYS 24100 | Electricity Optics | 3.00 A- | 11.10 |
| Term: | Fall 2006 | | | Term: Eh | Hrs: 3.00 GPA-Hrs: 3.00 QPts: 11.10 GPA: 3.70 | | |
| MA 17300 | Calc And Anly Geom II | 5.00 P | 0.00 | Term: | Fall 2010 | | |
| Term: Eh | Hrs: 5.00 GPA-Hrs: 0.00 QPts: 0.00 GPA: 0.00 | | | COM 11400 | Fundament Of Speech | 3.00 CR | 0.00 |
| Continued Good Standing | | | | Credit by Exam | | | |
| Term: | Spring 2009 | | | ENGR 13100 | Trans Ideas To Innovation I | 2.00 A | 8.00 |
| MA 26100 | Multivariate Calculus | 4.00 A | 16.00 | NUCL 30000 | Nucl Struct And Inter | 3.00 A+ | 12.00 |
| Term: Eh | Hrs: 4.00 GPA-Hrs: 4.00 QPts: 16.00 GPA: 4.00 | | | ***** CONTINUED ON PAGE 2 ***** | | | |
| Continued Good Standing | | | | ***** CONTINUED ON NEXT COLUMN ***** | | | |

RAISED SEAL NOTREQUIRED

This official transcript does not require a raised seal.



"I CERTIFY THAT THIS IS A CORRECT TRANSCRIPT OF THE RECORD OF THE ABOVE STUDENT."

Jerry B...

UNIVERSITY REGISTRAR

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PURDUE UNIVERSITY
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Tel: (765) 494-6165 FAX: (765) 494-0570
KEY TO TRANSCRIPT OF ACADEMIC RECORDS

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NORTHWEST-WESTVILLE (PNC), Westville, IN 46391, (219) 785-5299
POLYTECHNIC STATEWIDE (TSW) (Various locations), administered through West Lafayette's Purdue Polytechnic Institute
PURDUE DIGITAL EDUCATION (PEC) (Various locations), administered through West Lafayette

COURSE NUMBERING SYSTEM

Prior to September 1953, courses designated by letter rather than number (e.g., English A) were non-credit. Courses numbered 1 through 99 were primarily for undergraduate credit. Courses numbered 100 through 199 enrolled advanced undergraduate and some graduate students. Courses numbered 200 through 299 were for graduate students. Between September 1953 and Summer 2008, the following numbering system was used: 001-049, Precollege and deficiency courses; 050-099, Nondegree courses (e.g., agriculture short courses); 100-299, Lower-division courses normally scheduled for freshmen and sophomores; 300-499, Upper-division courses normally scheduled for juniors and seniors; 500-599, Dual-level courses that may be scheduled by juniors, seniors and graduate students for graduate credit; 600-699, Graduate-level courses. In certain circumstances, an undergraduate student may take a 600-level course. In Fall 2008, course numbers were converted to five digits, and professional-level course numbers (80000 to 89999) were added.

CREDIT TYPES

Regular Credit - All Purdue University credit is reported in terms of semester hours, whether earned during a 16-week semester or a summer session.

GRADING SYSTEMS

Effective Fall 2008, all grades were converted to the 4.0 scale as a result of the implementation of the Banner student system. Prior to Summer 1993, the University was on a 6.0 scale. For information about previous grading scales, see the Office of the Registrar Web site: www.purdue.edu/Registrar

The following shows the points assigned to each grade:

| Grade | Points | Definition |
|-------|--------|------------------------------|
| A+/A | 4 | Highest Passing Grade |
| A- | 3.7 | |
| B+ | 3.3 | |
| B | 3 | |
| B- | 2.7 | |
| C+ | 2.3 | |
| C | 2 | |
| C- | 1.7 | |
| D+ | 1.3 | |
| D | 1 | |
| D- | 0.7 | Lowest Passing Grade |
| E | 0 | Conditional Failure |
| F | 0 | Failure |
| IF | 0 | Unremoved Incomplete-Failing |

The following grades are not included in the computation of scholastic indexes:

Regular Grade Option

I - Incomplete
O - Incomplete (obsolete eff. Summer 1977)
IX - Permanent Incomplete
R - Deferred Grade (PIU)
WF - Withdrew Failing

Pass/Not-Pass Option

P - Passing, equivalent to "C-" or higher ("C" or higher prior to Fall 2008)
N - Not Passing
PI - Incomplete
PO - Incomplete (obsolete effective Summer 1977)
IN - Unremoved Incomplete - Not Passing
WN - Withdrew Not Passing

Zero-Credit Courses (including thesis credits prior to Fall 2008)

S - Satisfactory
U - Unsatisfactory
SI - Incomplete
IU - Unremoved Incomplete - Unsatisfactory
WU - Withdrew Unsatisfactory

Other Grades

W - Withdrew
AU - Audit (effective Fall 2008)
DC - Departmental Credit
EX - Exempt
NC - Visitor, no credit (obsolete effective Fall 2008)
NG - Non-Graded (effective Fall 2008)
NS - Not Submitted (effective Fall 2008)
CR - Transfer Credit (prior to Fall 2008) Directed Credit (effective Fall 2008)
TR - Transfer Credit (effective Fall 2008)
TX - Transfer Credit* (effective Fall 2013)
V - Visitor (obsolete effective Summer 1963)

INSTITUTIONAL GPAs

TERM GPA - Based upon all courses in which the student was enrolled that session and for which grade points were earned. Is listed at the end of each semester.
LEVEL GPA - Overall grade point average that is listed at the end of each level, Undergraduate, Professional and Graduate.
EARNED HRS - A sum of all courses of which a D- or better was obtained. This includes P, S, CR and TR.

ABBREVIATIONS AND SYMBOLS (Effective Fall 2008)

EHRS - Credit hours earned.
GPA- Hrs - Quality hours earned (all hours carrying grade points).
Qpts - Quality points earned.
GPA - Grade point average (computed by dividing quality points by GPA-Hrs).
E - Indicates that the course is excluded from earned hours and GPA.
I - Indicates that the course is included in earned hours and GPA; corresponds to a previously E (excluded) course.

SPECIAL CREDIT NOTATIONS

Students may be awarded credit at Purdue University by means other than regular enrollment in and completion of a course. Beginning January 1979, this "directed credit" is noted on the academic record as follows:
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CR ESTB - Awarded on the basis of CEEB Math Achievement Test score or Purdue Composite score.
DEPT CR - Awarded on the basis of substantially equivalent experience, successful completion of a more advanced course, etc.
Prior to January 1979, all BY EXAM (for new students), CEEB AP, CR ESTB and CLEP CR credit was combined into the single notation CR ESTB.

TRANSFER CREDIT

Course credits accepted in transfer from other institutions are listed under the appropriate headings. For undergraduate students, the course numbers and titles reflect Purdue University equivalents, with the exception of Indiana University courses taken at the jointly-administered Purdue-Indiana University campuses in Indianapolis and Fort Wayne. With the exception of Indiana University credits at the jointly-administered campuses, credits earned in the Polytechnic Statewide program and credits earned in certain study-abroad programs, no grades are transferred and transfer credit hours are not reflected in the cumulative totals. Effective Fall 2008, the following are now included in transfer credit: College Level Exam Placement (CLEP), College Entrance Examination Board Advance Placement (CEEB AP), and International Baccalaureate (IB). *Transfer credit with grades of D+, D or D- will be applied towards the State Transfer General Education Core for all Indiana public institutions. This will be annotated with a grade of TX and cannot be used to fulfill institutional degree requirements. For details, see http://www.in.gov/che/files/STGEC_BW_Binder_Final_5.19.15.pdf.

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 gold SCRIP-SAFE® paper with the name of the institution appearing in small gold print over the face of the entire document.

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Record of: Alexander Robert Hagen

Current Name:

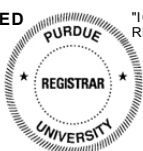
Date Issued: 14-AUG-2017

Level: Undergraduate

| SUBJ NO. | COURSE TITLE | CRED GRD | PTS R | SUBJ NO. | COURSE TITLE | CRED GRD | PTS R |
|--|------------------------------|----------|---------|--|---------------------------|----------|--------|
| Institution Information continued: | | | | Institution Information continued: | | | |
| NUCL 32000 | Intro Matls Nucl Appl | 3.00 B | 9.00 | Term: | Spring 2012 | | |
| NUCL 35000 | Nucl Therm-Hydraul I | 3.00 B | 9.00 | IE 34300 | Engineering Economics | 3.00 A | 12.00 |
| NUCL 39800 | Junior Seminar | 0.00 S | 0.00 E | MA 30300 | Diff Equa Inc Systems | 3.00 B- | 8.10 |
| NUCL 49700 | Nuclear Materials Laboratory | 3.00 A- | 11.10 | NUCL 45000 | Des In Nucl Engr | 3.00 A | 12.00 |
| Term: EhRs: 17.00 GPA-Hrs: 14.00 QPts: 49.10 GPA: 3.51 | | | | NUCL 49800 | Senior Seminar | 0.00 S | 0.00 I |
| Semester Honors | | | | PSY 35000 | Abnormal Psychology | 3.00 A | 12.00 |
| Continued Good Standing | | | | Term: EhRs: 12.00 GPA-Hrs: 12.00 QPts: 44.10 GPA: 3.68 | | | |
| Term: Spring 2011 | | | | Semester Honors | | | |
| ECE 20100 | Linear Circuit Anly I | 3.00 B | 9.00 | Continued Good Standing | | | |
| ENGR 13200 | Trans Ideas To Innovation II | 2.00 B | 6.00 | ***** TRANSCRIPT TOTALS ***** | | | |
| NUCL 31000 | Intro To Neutron Trans | 3.00 A | 12.00 | Earned Hrs GPA Hrs Points GPA | | | |
| NUCL 35100 | Nucl Therm-Hydraul II | 3.00 B | 9.00 | TOTAL INSTITUTION | 116.00 104.00 361.50 3.48 | | |
| NUCL 35500 | NUCL Thermohydra Lab | 3.00 B | 9.00 | TOTAL TRANSFER | 33.00 0.00 0.00 0.00 | | |
| NUCL 39800 | Junior Seminar | 0.00 S | 0.00 I | OVERALL | 149.00 104.00 361.50 3.48 | | |
| NUCL 49700 | Sel Topics Nucl Engr | 3.00 A | 12.00 I | ***** END OF TRANSCRIPT ***** | | | |
| NUCL 55300 | Nano-Macro Scale Appl | 3.00 A+ | 12.00 | | | | |
| Term: EhRs: 20.00 GPA-Hrs: 20.00 QPts: 69.00 GPA: 3.45 | | | | | | | |
| Continued Good Standing | | | | | | | |
| Term: Summer 2011 | | | | | | | |
| SOC 22000 | Social Problems | 3.00 A | 12.00 | | | | |
| Term: EhRs: 3.00 GPA-Hrs: 3.00 QPts: 12.00 GPA: 4.00 | | | | | | | |
| Term: Fall 2011 | | | | | | | |
| AD 32700 | Art History Methods | 3.00 A | 12.00 | | | | |
| NUCL 30500 | Nucl Undergrad Lab II | 2.00 B | 6.00 | | | | |
| NUCL 40200 | Engr Of Nucl Power Sys | 3.00 B | 9.00 | | | | |
| NUCL 44900 | Senior Design Proposal | 1.00 A | 4.00 | | | | |
| NUCL 47000 | Fuel Cell Engr | 3.00 A | 12.00 | | | | |
| NUCL 49700 | Sel Topics Nucl Engr | 3.00 A | 12.00 I | | | | |
| NUCL 49800 | Senior Seminar | 0.00 S | 0.00 E | | | | |
| NUCL 51000 | Nuclear React Theo I | 3.00 A- | 11.10 | | | | |
| Term: EhRs: 18.00 GPA-Hrs: 18.00 QPts: 66.10 GPA: 3.67 | | | | | | | |
| Semester Honors | | | | | | | |
| Continued Good Standing | | | | | | | |
| ***** CONTINUED ON NEXT COLUMN ***** | | | | | | | |

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