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This document includes the academic courses that I have taken during my studies. If you can't use the hyperlinks to the supporting documents or are viewing the printed document, you can re-download this document from my website at cs.arizona.edu/~mhrezaei/coursework.pdf. This document is usually updated after each semester.

University of Arizona

The following are the courses that I have taken during my undergraduate studies at the University of Arizona. For the grading policy, you can visit catalog.arizona.edu/policy/grades-and-grading-system. Also, the grading system does not include positive and negative scores. The majority courses use the common 90-80-70-60 grading scale. Furthermore, the GPA is calculated out of 4.0. You can always find my most recent unofficial transcript at cs.arizona.edu/~mhrezaei/unofficial_transcript.pdf. The following is a brief report of the GPA and credits taken each semester.

Semester	Number of Units	Cum. GPA	Term Honor
Fall 2022	14	4.0	Honorable Mention
Spring 2023	23	4.0	Dean's List with Distinction
Academic year 2022-23	37	4.0	Academic Year Highest Academic Distinction
Fall 2023	28	4.0	Dean's List with Distinction

Computer Science courses

CSc 337 - Web Programming — *A*

Fall 2023 — *3.0 Units*

- Instructor: Benjamin Dicken
- Final grade: **97.77%**. My grades can be found here.
- The class syllabus is available here.
- My final project for this class is a specialized room reservation system for the Computer Science Department at the University of Arizona. The project will be used by the department starting in Spring 2024.
- Topics learned in this class include but are not limited to: HTML, CSS, JavaScript, DOM, Event-Driven Programming, NodeJS, AJAX and Promises, Express, NodeJS, MongoDB, Mongoose, JSON, Web Security, Sessions, Cookies, MERN and React.

CSc 244 - Discrete Math for Computer Science II — *A*

Fall 2023 — *3.0 Units*

- Instructor: Reyan Ahmed, Ph.D.
- Final grade: **104.49%** with extra credits. My grades can be found here.
- The class syllabus is available here.
- The textbook used for the class is Discrete Mathematics and Its Applications, 8th Edition by Kenneth Rosen.
- Topics learned in this class include but are not limited to: The Pigeonhole Principle, Proofs, Recurrence Relations, Induction & Recursion, Graphs & Graph Models, Representing Graphs & Graph Isomorphism, Connectivity, Euler & Hamilton Paths, Trees, Languages & Grammars, Finite-State Machines with Output, Finite-State Machines with No Output, Language Recognition and Turing Machines.

CSc 210 - Software Development — *A*

Fall 2023 — *4.0 Units*

- Instructor: Rick Mercer
- Final grade: **98.05%**. My grades can be found here.
- The class syllabus is available here.
- The textbook used for the class is Computing Fundamentals with Java and JUnit, Rick Mercer, Paaz Publishing.
- Topics learned in this class include but are not limited to: Java Fundamentals, Objects and Classes, String Objects, Java Methods/Parameters, Arrays, File I/O, For Loops, While Loops, Exception Handling, Generics with <Type> Arguments, Java.util.HashMap, Binary Trees, Binary Search Trees (BSTs), Recursion, Git and Github.

CSc 391 - Preceptorship — *S*

Fall 2022 — *3.0 Units*

- Credit earned for being an undergraduate teaching assistant for Dr. Lester McCann in CSc 144 - Discrete Math for Computer Science I.
- Course description is available here.

CSc 144 - Discrete Math for Computer Science I — A

Spring 2023 — 3.0 Units

- Instructor: Lester I. McCann, Ph.D.
- Ranked ***fourth*** among about 250 students. Ranking's list is available here, my identifier is 974718.
- Final grade: **96.99%**. My grades can be found here.
- The class syllabus is available here.
- The textbook used for the class is Discrete Mathematics and Its Applications, 8th Edition by Kenneth Rosen.
- Topics learned in this class include but are not limited to: Logic, Quantifiers, Arguments, Direct Proofs, Set Concepts, Relations, Functions, Indirect Proofs, Integers, Sequences and Strings, Methods of Counting and Finite Probability.

CSc 120 - Introduction to Computer Programming II — A

Spring 2023 — 4.0 Units

- Instructor: Janalee O'Bagy, Ph.D.
- Final grade: **95.37%**. My grades can be found here.
- The class syllabus is available here.
- Programming language used in the course: Python
- Topics learned in this class include but are not limited to: Basics of Object-Oriented Programming, References, Linked Lists, Stacks and Queues, Recursion, Trees, Testing, Complexity, Hashing, Debugging, Exceptions, List Comprehensions and Recursive search.

CSc 110 - Introduction to Computer Programming I — A

Fall 2022 — 4.0 Units

- Instructor: Adriana Picoral, Ph.D.
- My grades can be found here.
- The class syllabus is available here.
- Programming language used in the course: Python
- Topics learned in this class include but are not limited to: Python Basics, Strings, Numeric and values and variables, controlling data output, if-elif-else statements, Repetition, while-loops, Loop table, Defining and calling functions, Functions, Basic Graphical shapes, Graphical motion, Lists, for-loops, reading and writing files, Sets, Dictionaries, Multi-dimensional Data Structures, Tuples, PPM Images, Searching and Sorting.

Mathematics Courses

MATH 313 - Introduction to Linear Algebra — A

Fall 2023 — 3.0 Units

- Instructor: Kirti Joshi, Ph.D.
- Final grade: **94.16%**. My grades can be found here.
- The class syllabus and policy is available here. The common course web page can be found here.
- Ranked 1st in midterm 2 and final exam in a class of $>$ 40 students.
- The textbook used for this class is Linear Algebra and its Applications, by Lay, Lay, and McDonald.
- Topics learned in this class include but are not limited to: Linear Equations in Linear Algebra, Matrix Algebra, Determinants, Vector Spaces, Eigenvalues and Eigenvectors, Orthogonality and Least Squares.

MATH 129 - Calculus II — A

Spring 2023 — 3.0 Units

- Instructor: Dan Lewis
- Final grade: **93.18%**. My grades can be found here.
- The class syllabus and policy is available here. The common course web page can be found here.
- The textbook used for this class is Calculus, Single Variable; 6th edition; Hughes-Hallett, et al.; Wiley.
- Topics learned in this class include but are not limited to: *Integration*: Integration by Substitution, Integration by Parts, Numerical Methods for Definite Integrals, Improper Integrals and Comparison of Improper Integrals. *Using the Definite Integral*: Areas and Volumes, Applications to Geometry, Density and Applications to Physics. *Sequences and Series*: Sequences, Geometric Series, Convergence of Series, Power Series and Interval of Convergence. *Approximating Functions Using Series*: Taylor Polynomials, Taylor Series, Finding and Using Taylor Series. *Differential Equations*: Slope Fields, Sepration of Variables and Growth and Decay.

MATH 125 - Calculus I — A

Spring 2023 — 3.0 Units

- Instructor: Jay Mayfield
- The common course web page can be found here.
- The textbook used for this class is Calculus, Single Variable; 6th edition; Hughes-Hallett, et al.; Wiley.
- Topics learned in this class include but are not limited to: Derivation and rules, Using the Derivative, The Definite Integral and Constructing Anti-derivatives .

General Education and other Courses

LING 201 - Intro to Linguistics — A

Fall 2023 — 3.0 Units

- Instructor: Dr. Diane Ohala
- Fianl grade: **96.81%**. My grades can be found here.
- The class syllabus and policy is available here.
- Topics learned in this class include but are not limited to: Phonetics, Phonology, Morphology, Syntax and Semantics.

CLAS 160D2 - Classical Mythology — A

Fall 2023 — 3.0 Units

- Instructor: Dr. Robert Stephan
- Fianl grade: **98%**. My grades can be found here.
- The class syllabus and policy is available here.

CLAS 150C1 - Pyramids and Mummies — A

Fall 2023 — 3.0 Units

- Instructor: Dr. Robert Stephan
- Fianl grade: **98%**. My grades can be found here.
- The class syllabus and policy is available here.

DNC 101 - Dance Appreciation — A

Fall 2023 — 3.0 Units

- Instructor: Erica Julian
- Achieved the perfect score of **100%** as the final grade. My grades can be found here.
- The class syllabus and policy is available here.

BIOS 376 - Introduction to Biostatistics II — A

Spring 2023 — 3.0 Units

- Instructor: Antonio Rubio
- Achieved the perfect score of **100%** as the final grade. My grades can be found here.
- The class syllabus and policy is available here.
- Programming language used in the course: R
- Topics learned in this class include but are not limited to: Learning and Practicing R programming language, Introduction to Statistics, Organizing Data, Measures of Center and Variation, Percentiles, Probability, Normal Distributions, Areas Under Any Normal Curve, Sampling Distributions, Central Limit Theorem, Confidence Intervals with know/unknown Population SD, Estimating the Difference Between Means, Hypothesis Testing, Two Sample Hypothesis Test, Linear Correlation, Linear Regression, Inference for Proportions, Chi-Square Test of Independence and of Homogeneity and Chi-Squared Test of Goodness Fit.

MCB 181R - Introductory Biology I (Lecture) — A

Spring 2023 — 3.0 Units

- Instructor: Susan Hester, Ph.D.
- Final grade: **95.32%**. My grades can be found here.
- The class syllabus is available here.
- Topics learned in this class include but are not limited to: Cells, Membranes and Membrane Transport, Intro to Proteins, Mitosis and Meiosis, Intro to Nucleic Acids and Transcription, Translation, Inheritance, Regulating Gene Expression, Cell Signaling, Cell Cycle Regulation, DNA Replication, DNA Repair, Reactions, Energy, Enzymes, Cellular Respiration and Fermentation Photosynthesis.

MCB 181L - Introductory Biology Laboratory I (Laboratory) — A

Spring 2023 — 1.0 Units

- TA: Edwin Umanzor
- Final grade: **97.23%**. My grades can be found here.
- The class syllabus is available here.
- Recommended by the lab instructor to become a preceptor for 181L next semester: ”you were recommended because you are someone who is really enthusiastic about science and is doing well in the lab”.
- The lab manual used for the class is: Authentic Inquiry through Modeling in Biology: A manual for the Molecular and Cellular Biology 181 Laboratory
- Experiments done in the lab include but are not limited to: Membrane Transport, Bacteria, Computational Cancer, Chlamydomonas and Yeast.

RELI 367 - Yoga — A

Spring 2023 — 3.0 Units

- Instructor: Caleb Simmons, Ph.D.
- Final grade: **100%**. My grades can be found here.
- The class syllabus is available here.

ENGL 108 - Foundations Writing for English as an Additional Language Students II — A

Spring 2023 — *3.0 Units*

- Instructor: Nicholas Halsey
- Final grade: **92.75%**. My grades can be found here.
- The class syllabus is available here.
- The major writing projects include but are not limited to: Summary, Response, Critique, Literature Review, Bilingual Re-Design and Portfolio.

ENGL 107 - Foundations Writing for English as an Additional Language Students I — A

Fall 2022 — *3.0 Units*

- Instructor: Jamey Rogers
- The class syllabus is available here.

PFFP 150B2 - Personal Finance Foundations — A

Fall 2022 — *3.0 Units*

- Instructor: Victoria Ligon, Ph.D.

UNIV 101 - Introduction to the General Education Experience — A

Fall 2022 — *3.0 Units*

- Instructor: Allison Giddings