Omar El-Kishky

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Education	**High School**, Robert E. Lee High School	(2016 - Present)

Expected Graduation: May 2020
GPA: 4.0
Numerical: 107.0
Rank 1/548

Research and Work Experience

Summer Science Program in Biochemistry (SSP)   (June 2019 - August 2019)
- Spent the summer at the University of California San Diego working on the low throughput screening and *in silico* optimization of small molecule inhibitors for the Cdc14 fungal enzyme.

Research Intern Pharmacology   (November 2018 - Present)
- High school research intern at The University of Texas at Tyler doing research in molecular biology with contributions to neuropharmacology projects surrounding the treatment of Alzheimer's disease.

College Coursework

Linear Algebra and Matrix Theory   (Grade 12)
- Currently enrolled in Linear Algebra at Louisiana State University with a current course grade of 4.0 (A+ average).

Differential Equations   (Grade 11)
- Completed Differential Equations while enrolled at University of North Dakota with a final course grade of 4.0 (A average).

Multivariate Calculus   (Grade 9)
- Completed Multivariate Calculus while enrolled at Louisiana State University with a final course grade of 4.0 (A+ average).

High School Coursework

In Progress: AP English Literature, AP French Language and Culture, AP Psychology, AP Macroeconomics, AP US Government and Politics, AP Physics C (Independent Study), AP Computer Science A (Independent Study)

Completed: AP Calculus BC, AP Human Geography, AP Statistics, AP Biology, AP Physics 1 & 2, AP Environmental Science, AP World History, AP Art History, AP European History, AP English Language and Composition, AP US History, AP Computer Science Principles

Certifications

Certified Coursera Courses

Programming for Everybody (Python)	(Grade 7)
(Grade Achieved: 100.0%)	
An Introduction to Interactive Programming in Python (Part I)	(Grade 8)
(Grade Achieved: 98.5%)	
An Introduction to Interactive Programming in Python (Part II)	(Grade 8)
(Grade Achieved: 100.0%)	
Principles of Computing (Part I)	(Grade 9)
(Grade Achieved: 96.6%)	
Principles of Computing (Part II)	(Grade 9)
(Grade Achieved: 97.1%)	
Algorithmic Thinking (Part I)	(Grade 9)

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(Audited)
Algorithmic Thinking (Part II)   (Grade 9)
(Audited)

Skills	**Programming Languages**: Python, Java, Matlab **Sciences**: Mathematical Modeling, Wet Lab Work **Languages**: Native Fluency in English and Arabic

Honors and Awards

Academic

National Merit Semifinalist	(Grade 12)
National AP Scholar (15 exams with a 4.53 average)	(Grade 9 - 11)

University Interscholastic League Academic Competitions

First Place Science (District 11, Texas)	(Grade 11)
First Place Biology (District 11, Texas)	(Grade 11)
First Place Chemistry (District 11, Texas)	(Grade 11)
First Place Physics (District 11, Texas)	(Grade 11)
Fifth Place Science (Region 2, Texas)	(Grade 11)
First Place Chemistry (District 11, Texas)	(Grade 10)
Sixth Place Science (Region 2, Texas)	(Grade 10)

Publications

1. **El-Kishky, O. H.**, & Barakat, N. (2019). Time-Series Analysis and Feature Extraction of EEG Signals. International Journal of Engineering and Science Investigations, 8(91), 181186. Retrieved from http://www.ijsei.com/

2. Sagar, Sah, **Omar El-Kishky**, Nael Barakat, Ayman Hammouda, Design of Innovative Perfusion System for In-Vitro Drug Testing, Poster presentation, UT Tyler 4th. Annual Research Lyceum, April, 2019.

3. Sheraz, A., Peredia, E., **El-Kishky, O.**, Sawyer, G., Deba, F., & Hamouda, A. (n.d.). The Use of Concatemer Subunit Constructs to Study the Pharmacology of α4-and α6-Containing Neuronal Nicotinic Acetylcholine Receptor, Accepted for presentation at the 2019 PharmSci 360 Conference, San Antonio, November 3-5, 2019

Leadership & Extracurriculars

Team Captain of UIL Science Team	(Grade 10 - 12)
Team Captain of UIL Computer Science Team	(Grade 11 - 12)
National Honor Society	(Grade 11 - 12)
Mu Alpha Theta	(Grade 9 - 12)
French Club	(Grade 9 - 12)
Junior Varsity Soccer	(Grade 9)

Volunteer Work

Part-time Coach for Muslim Youth Soccer Team	(Grade 9-10)

Test Scores

SAT: 1580/1600 (790 Math + 790 EBRW)
ACT: 35/36
SAT Subject Tests: 800 Math II and 780 Chemistry

October 29, 2019