

# Joe Corsair

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310.434.4300

## EDUCATION

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**Santa Monica College**, Santa Monica, California  
Associate of Arts Degree, General Science  
Transfer Major: Biological Sciences

To be Conferred June 2022

- GPA: 3.7
- Campus Involvement: STEM Program, SRI/STEM, Chemistry Club, Alpha Gamma Sigma
- Relevant Coursework:
  - General and Life Sciences:** Cell Biology, Genetics and Molecular Biology
  - Mathematics:** Statistics, Calculus
  - Physical Sciences:** General Chemistry, Organic Chemistry and Lab

## SKILLS

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**Chemistry Techniques:** IR Spectroscopy, NMR Spectroscopy, Column Chromatography, Crystallization, Distillation, Drying Organic Solutions, Extraction, Filtration, Gas Chromatography, Melting Point, Using Pipets, Solvent Removal, TLC, vacuum system

**Biology Techniques:** Proficient: Handling of microorganisms, in vitro nucleic acid preparations, gel electrophoresis, PCR, protein purification, antibody analysis by ELISA, and spectrophotometry

**Software Skills:** Proficient: Microsoft Office Suite, Google Workspace

**Languages:** Spanish – Proficient

## RELEVANT LAB AND RESEARCH COURSES

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### Genetics and Molecular Biology

February 2021 – Present

Santa Monica College, Santa Monica, California

- Use scientific principles, predictions, and probabilities to solve genetics problems for inheritance patterns of 2 or more genes, gene interactions, genetic mapping, mutational analyses, and population genetics
- Apply theoretical concepts of molecular biology, including the principles of DNA structure, gene regulation and RNA and protein expression to lab experiments and current biomedical applications

### Principles & Practice of Scientific Research Course

February 2021 – Present

Santa Monica College, Santa Monica, California

- Lead group research on the ion content in water samples from the Ballona Wetlands
- Perform chemical experiments and analyzed qualitative results in Microsoft Excel

### Cell Biology and Evolution

August 2020 – December 2020

Santa Monica College, Santa Monica, California

- Used scientific method when designing experiments and collecting, analyzing, and interpreting original data
- Wrote scientific lab reports based on standard format used in scientific publications

## LEADERSHIP AND COMMUNITY INVOLVEMENT

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### Math and Science Tutor

August 2020 – Present

Virginia Avenue Park, Santa Monica, California

- Conduct 1 hour individual and group math and science tutoring sessions to underrepresented students attending the local elementary schools
- Design tutoring lesson plans to include quizzes and interactive games to ensure academic growth and comprehension

### Sustainable Workshop Leader

August 2019 – June 2020

Sustainable Works, Santa Monica, California

- Educated peers about important environmental issues and solutions
- Facilitated workshop discussions as well as interactive activities
- Recommended specific solutions that reduced participant's environmental impact
- Tracked participant's attendance and completion of program requirements