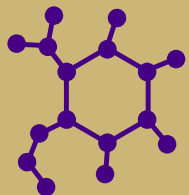


# JMU MATERIALS SCIENCE INVESTIGATION FOR THE VA SCHOOL FOR THE DEAF AND THE BLIND

## THE PEOPLE WHO MADE IT HAPPEN

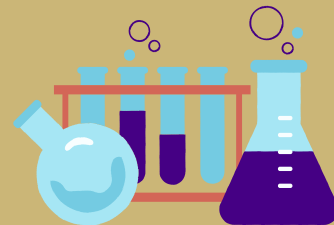
### VSDB TEACHER AND JMU ALUM

VSDB TEACHER, **DYLAN BOECKMANN**, REQUESTED THE STEM CENTER'S "JMU STEM EXPERIENCE" CHEM. PROGRAM FOR HIS STUDENTS. HE IS A JMU ALUMNUS: (CHEM AND MAT). THE ADAPTATION WORK BEGAN RIGHT AWAY, BUT FIRST, THE STUDENT-LED BACKSTORY ON WHAT WE ADAPTED.



### JMU CHEMISTRY FACULTY & STUDENTS

THE CHITOSAN BIOPLASTICS INVESTIGATION WAS ORIGINALLY PROPOSED BY CHEMISTRY MAJOR, **HOLLI SCOTT**, IN A RESEARCH PROPOSAL WRITTEN FOR HER *POLYMER CHEMISTRY* COURSE TAUGHT BY **DRS. BOARDMAN AND PETERS**.



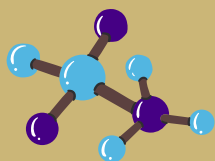
### OFFICE OF RESEARCH & SCHOLARSHIP SUPPORT

THE PROTOCOLS USED IN DRS. BOARDMAN'S AND PETERS'S RESEARCH WERE ADAPTED FOR THE STEM CENTER'S OUTREACH PROGRAM BY CHEMISTRY MAJOR, **CONNOR PEARSON**, UNDER DR. BOARDMAN'S MENTORSHIP WITH FUNDING FROM THE **JMU OFFICE OF RESEARCH & SCHOLARSHIP SUMMER STUDENT RESEARCH GRANT**.



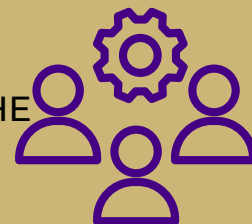
### PILOTING THE INVESTIGATION

JMU CHEMISTRY INSTRUCTOR AND OUTREACH ENTHUSIAST, **LINDSEY SEQUEIRA**, WAS SUPPORTED BY THE STEM CENTER WITH **MADISON TRUST FUNDS** TO PILOT THE LAB WITH TWO GROUPS OF SIGHTED **HIGH SCHOOL STUDENTS** IN FALL OF 2022.



### ADAPTING THE INVESTIGATION FOR STUDENTS WITH BLINDNESS AND LOW VISION

LINDSEY, DYLAN, VSDB ORIENTATION & MOBILITY SPECIALIST- **LISA AUWARTER**, AND THE JMU **STEM CENTER** COLLABORATED TO ADAPT THE PROTOCOL FOR STUDENTS WITH VISUAL IMPAIRMENT TO CARRY OUT WITH INDEPENDENCE WHILE REACHING THE SAME LEARNING GOALS.



### 12 JMU STUDENTS FROM 7 MAJORS

- CHEMISTRY
- BIOLOGY
- ELEM. EDUC.
- NURSING
- HISTORY
- PUBLIC POLICY
- INCLUSIVE EDUC.

THIS TEAM OF **STUDENTS** WORKED SIDE-BY-SIDE WITH VSDB STUDENTS, LEARNING FROM EACH OTHER, THROUGHOUT THE DAY.

