

David W. Crewes

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Summary

A self-motivated, experienced, and dedicated analytical chemist turned science instructor desires to use life experiences and subject knowledge to help bring interest, insight and enjoyment to secondary education. Eager to introduce and maintain the responsibilities of a well structured, respectful, nurturing, and rewarding learning environment. Works well as a part of a team to achieve common goals. Proven leadership and supervisory abilities.

Education

Master of Arts in Education Technology (MAET) , Michigan State University, East Lansing, Expected - 8/12
B.S. Chemistry Education, Secondary Provisional Certificate, Ferris State University, Big Rapids, MI. 12/03
Major: Chemistry, **Minor:** General Science
B.S. Chemistry, North Carolina State University, Raleigh, NC. 5/98
Associate Degree in Mathematics, Northwestern Michigan College, Traverse City, MI. 12/93
Diploma, Traverse City Senior High School, Traverse City, MI. 6/88

Educational Experience

Elk Rapids Area Public Schools, High School, Elk Rapids, MI. (11/08 - present)

Science Instructor

- Plan and instruct High School Science classes (Earth Sciences, Honors Earth Science, Physics, Chemistry, Biology, AP Chemistry and Environmental Science)
- Plan and design curriculum to meet state and local standards

Technology Committee member

- Assist in the integration of technology into the curriculum and the district
- Develop a bond proposal to allow a technology millage to be successfully voted on by the district
- Assist in the introduction and implementation of a 1 to 1 computing initiative at the High School utilizing the use of iPads

Traverse City Area Public Schools, West Junior High, Traverse City, MI. 2/08-(6/08)

Guest Teacher (Long-Term Substitute) for Nathan Brush

- Plan and instruct three 7th grade Science classes, and two 7th grade Technology Education Exploration classes
- Coordinate unit and course material to correspond with the other 7th grade science instructors
- Create and develop additional activities, lessons and assessments to aid in the student comprehension of unit material

Traverse City Area Public Schools, West Junior High, Traverse City, MI. 11/07-2/08

Guest Teacher (Long-Term Substitute) for Katie Medler

- Planned and instructed three 7th grade Science classes, and two 7th grade co-taught CMPT (Connected Math Project Traditional) Classes

Science:

- Responsible for development, implementation, instruction, and evaluation of unit material
- Assisted and evaluated 7th grade student Science Projects
- Coordinated unit and course material to correspond with the other 7th grade science instructors

Math:

- Coordinated lesson plans and teaching strategies with special education teacher, Debbie McMaster
- Responsible for unit instruction, determining unit assessments, evaluating student assessments, and managing grades
- Offered additional individual and group assistance in both classes, especially for those students with accommodations
- Observed, participated, and contributed to student IEP's

Traverse City Area Public Schools, West Senior High School, Traverse City, MI. 10/06-6/07

Guest Teacher (Long-Term Substitute) for Charles Kolbusz

- Coordinated and instructed an AM Chemistry and an AM Honors Chemistry class
- Utilized lesson plans structured around unit material from previous Chemistry classes.
- Coordinated classroom activities and responsibilities with Charles in preparation for his PM classes
- Developed material, lessons, and activities to supplement the original and existing course curriculum
- Attended parent-teacher conferences and offered additional help sessions after school for those who desired the extra assistance.

Traverse City Area Public Schools, West Senior High School, Traverse City, MI. 9/06-2/07

Guest Teacher (Long-Term substitute) for Juleen Jenkins-Whall

- Planned and instructed 3 Sophomore Environmental Chemistry classes Designed and implemented lesson plans, labs, and instructional activities taken from both existing unit materials and original material prepared by myself
- Attended parent-teacher conferences and offered additional help sessions after school for those who desired the extra assistance.

Traverse City Area Public Schools, Traverse City, MI. 12/03-present

Guest Teacher (Substitute)

- Responsible for substitute teaching of TCAPS classrooms.

Traverse City Area Public Schools, West Senior High School, Traverse City, MI 9/03-12/03

Student Teacher for Environmental Chemistry and Advanced Placement Chemistry.

- Responsible for instructing, supervising, and coordinating 3 classes of sophomores who will move on to other science classes in High School.
-Supervising Teacher: Juleen Jenkins-Whall
- Instructed and maintained two classes of mostly seniors who desired to pass the Advanced Placement test in order to obtain credit for the first year of collegiate Chemistry.
-Supervising Teacher: Mary Jo Sleder

Traverse City Area Public Schools, Traverse City, MI 11/03-3/04 and 10/99-3/01

Diving Coach, Boys and Girls

- Instruct, assist, demonstrate, and judge techniques and procedures involved in 1-meter springboard diving.
- Provide transportation and supervision of divers when travel requirements are different than the rest of the team.

Professional Experience

Southern Petroleum Laboratories (SPL Inc.), Traverse City, MI

5/98-present

Lead GC/MS Analyst, acting Mass Spectrometry Supervisor

- Qualitative and quantitative analysis of soil and water for volatile organic compounds by Gas Chromatography/Mass Spectrometry (GC/MS)
- Maintain, repair and salvage various GC/MS systems, computer systems and operating programs
- Interview, train and supervise new personnel
- Prepare, organize, and present data packages and Standard Operating Procedures to federal, state, and private audit teams for certification
- Coordinate day to day operating procedures

American Environmental Network (AEN), formerly

Industrial and Environmental Analysts Inc. (IEA), Raleigh, NC

8/94-5/98

GC/MS Analyst II, and Analyst Assistant

- Prepared and analyzed environmental samples for volatile compounds by GC/MS techniques
- Performed instrument trouble-shooting and maintenance
- Trained and supervised new personnel
- Assisted GC and GC/MS analysts in sample screening utilizing head space analysis techniques
- Organized data for specific site and compound concentrations

Southern Petroleum Laboratories (SPL), Traverse City, MI

12/91-12/93

Lab Technician

- Responsible for soil, water and vapor analysis of volatile compounds by purge and trap gas chromatography
- Verified and reviewed data, assisted in day-to-day operations.

References

Available upon request