

# ERIK W. BROWN

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## PROFESSIONAL SUMMARY

Independent forensic toxicologist and criminalist with nearly three decades of forensic science experience, including prior service with the Phoenix Police Department and Chandler Police Department crime laboratories. Current instructor with the Arizona State University School of Interdisciplinary Forensics teaching forensic science and forensic toxicology-related coursework. Qualified as an expert witness over 900 times in Arizona state, municipal, justice, superior, and federal courts, as well as courts in New Mexico, and Texas, in matters involving forensic alcohol analysis, DUI toxicology, retrograde extrapolation, field sobriety testing, breath alcohol instrumentation, and scientific evidence interpretation.

## AREAS OF EXPERTISE

- Forensic toxicology
- DUI toxicology and alcohol pharmacokinetics / pharmacodynamics
- Retrograde extrapolation
- Blood alcohol determination and interpretation
- Standardized Field Sobriety Testing (SFST)
- Intoxilyzer 5000/5000EN/8000/9000 instrumentation
- Breath alcohol testing procedures
- Dram shop toxicology
- Scientific evidence interpretation
- Expert witness testimony
- Controlled substances analysis
- Forensic firearms examination

## PROFESSIONAL EXPERIENCE

**Instructor, Arizona State University School of Interdisciplinary Forensics**  
Tempe, Arizona | Aug. 2025 – Present

- Teach expert witness testimony, forensic science and forensic toxicology-related coursework.
- Provide university-level instruction in forensic alcohol analysis, toxicology principles, and scientific evidence interpretation.
- Develop lectures and instructional materials relating to forensic toxicology, forensic chemistry and courtroom application of forensic science.

**Instructor, Brightmont Academy**

Phoenix, Arizona | Oct. 2022 – Present

- Teach science, mathematics, and forensic science coursework.

**Independent Criminalist / Forensic Toxicologist**

Phoenix, Arizona | Mar. 2007 – Present

- Provide forensic toxicology consultation and expert witness testimony in criminal and civil litigation.
- Review blood alcohol analysis, laboratory records, police reports, breath test records, and audio/video evidence.
- Testify regarding DUI toxicology, retrograde extrapolation, forensic alcohol analysis, and scientific evidence interpretation.

**Criminalist, City of Chandler Police Department**

Chandler, Arizona | Aug. 2005 – Mar. 2007

- Performed forensic alcohol analysis and controlled substances examinations.
- Operated and maintained Intoxilyzer instrumentation.
- Conducted firearms examinations and provided courtroom testimony.

**Criminalist, City of Phoenix Police Department**

Phoenix, Arizona | Dec. 1998 – Aug. 2005

- Conducted forensic laboratory examinations in controlled substances, firearms, and related forensic disciplines.
- Provided courtroom testimony regarding forensic laboratory findings.
- Participated in forensic science instruction and law enforcement training.

**EDUCATION**

Bachelor of Science, Environmental Toxicology

University of California at Davis, Davis, California – March 1995

Associate of Science, Mathematics and Physics  
Hartnell Community College, Salinas, California – June 1992

## **CERTIFICATIONS & PROFESSIONAL TRAINING**

- NHTSA/IACP Standardized Field Sobriety Testing Practitioner
- AFTE Certified Firearms Examiner
- Intoxilyzer 5000 Quality Assurance Specialist Permit
- Intoxilyzer 8000 Quality Assurance Specialist Permit
- Laboratory Analyst Permit
- Diplomate, American Board of Criminalistics (Past)
- The Robert F. Borkenstein Course on Alcohol and Highway Safety: Testing, Research and Litigation
- The Borkenstein Drug Course – Center for Forensic Science Research & Education

## **SELECTED LECTURES & PROFESSIONAL PRESENTATIONS**

- “Fundamentals of Blood Alcohol Testing or... Blood Testing 101” – State Bar Association (2020)
- “How to Use and When Not to Use an Expert” – AACJ Seminar (2018)
- “Trial Issues” – AACJ Seminar (2017)
- “Statewide Blood Update” – AACJ Seminar (2015)
- “Scientific Aspects of DUI Cases” – Phoenix, Arizona (2009)
- “Blood Alcohol Analysis” – Maricopa County Public Defenders (2009)
- “Discovery for Blood Alcohol Analysis” – Arizona State University Sandra Day O’Connor College of Law (2009)
- “Introduction to DUI Blood Cases” – Arizona Public Defender Association Seminar (2008)

## **PUBLICATIONS**

- “Serial Number Restoration on Ruger P Series Aluminum Alloy Frames,” AFTE Journal, Volume 33, Number 1 (2001)
- “Distance Determine Angle and Performance of the Taser International Model X26,” AFTE Journal, Volume 37, Number 3 (2005)

## **EXPERT WITNESS TESTIMONY**

Qualified as an expert witness 924 times in Arizona municipal, justice, superior, and federal courts, including Maricopa County Superior Court and United States Federal District Court, as well as courts in New Mexico, California, and Texas.

Representative courts include: Superior Courts of Maricopa County; United States Federal District Court (Phoenix and Tucson); Mesa Municipal Court; Chandler Municipal Court; Scottsdale Municipal Court; Phoenix Municipal Court; Tempe Municipal Court; Tucson Municipal Court; Pima County Superior Court; Pinal County Superior Court; Mohave County Superior Court; New Mexico District Court (Las Cruces); Los Angeles Superior Court; and Sheppard Air Force Base, Texas.