



FORCE SCIENCE® INSTITUTE Ltd

Course: *Force Science Certification Course*

- Instructed by:** *Force Science Certification* Staff Instructors
[Nine instructors: Bios below]
- Training site:** Force Science Training Center
2700 South River Road, 3rd Floor
Des Plaines, IL 60018
(800) 526-9444
training@forcescience.org
- Point of contact:** Craig Allen
Training Coordinator
Force Science Institute
(503) 793-6490 craig.allen@forcescience.org
- In this document:** I. Program Information
II. Instructor Bios
III. Daily Course Agenda

I. PROGRAM INFORMATION

The *Force Science Certification* program is conducted by a team of experts on a wide variety of crucial dynamics that impact the understanding of force encounters and will lead to a certification for investigators of force-related incidents.

Through the work of the *Force Science Institute's* team of instructions and research experts, students will learn, among other things:

- How to analyze often overlooked but vital elements in the use of force.
- Skills to help determine whether an officer is truthful when they swear their recollection of an incident is true...even though the account directly conflicts with forensic evidence.
- Techniques for helping individuals accurately and thoroughly recall details of force encounters.
- Why a site visit and/or video review may or may not be advisable before a statement.
- Whether shots to the back actually reflect what the shooter saw when the trigger was pulled.
- How to avoid critical mistakes some investigators make during post-incident interviews.

- The truth about time: what research shows about how long it actually takes officers to start—and stop— shooting.
- What ready position is really best for reducing lag time.

Attendees who successfully complete the program will be certified in "Force Science Analysis." This designation attests that the holder has been trained to recognize and articulate important psychological, biological, and physiological factors that can influence human behavior and memory in force encounters and pursuit situations.

The training will be based on solidly documented findings about human dynamics by the Institute's *Force Science Research Center* and other world-acclaimed research sources that are commonly misunderstood or ignored in law enforcement investigations, according to Dr. Bill Lewinski, coordinator of the new program and Executive Director of the Force Science Institute.

"There is a tremendous need for the application of human science in force investigations," he says. "Without it, controversial officer-involved shootings and other uses of force--even pursuits, which also involve split-second decision-making in highly stressful, rapidly evolving circumstances--can easily be misjudged, with devastating consequences".

"In some cases, officers have gone to prison and agencies have suffered crushing losses in civil suits because the factors in how humans perform under stress were not properly assessed by uninformed investigators."

Like persons trained in accident reconstruction, blood-spatter analysis, and other science-based disciplines, investigators certified in Force Science Analysis will be able to apply their grasp of human dynamics to interpret how and why a force confrontation evolved as it did, Lewinski said. They will also know how to "best mine the memories of those involved for relevant recollections." This information can be vital to authorities who ultimately must judge the encounter, such as administrators, I.A., Chiefs, review board members, prosecutors, judges, and jurors.

The backgrounds of the instructors will include world-class expertise in:

- how the brain and body work together to form psychomotor skills;
- the latest cognitive interviewing techniques for law enforcement;
- officer and suspect behaviors in deadly assaults on LEOs;
- motor performance, visual attention, and memory;
- how stress and trauma affect memory;
- the effect of low-light levels on perception;
- contextual cues;
- the dynamics of action and reaction in force encounters;
- decision-making variables during pursuits;
- judgment and psycho-physiological responses under extreme stress.

Most of the faculty are medical doctors or hold PhD's in specialized disciplines of psychology and some have authored the leading textbooks in their fields. A few have worked closely with

law enforcement and/or the military in the past, but "some will be adapting their findings on human behavior to a law enforcement context for the first time," Lewinski said.

As course coordinator, as well as a presenter himself, it will be his job, he said, to assure that "all information is conveyed in terms that are understandable and have practical application for the attendees seeking certification." Question-and-answer opportunities will supplement the formal instruction.

Force Science Certification Course Program Structure

Daily Instruction

Each day the course will consist of sessions in which the instructors will identify and explain in detail certain physical and psychological phenomena associated with human behavior and demonstrate how these can impact performance under stress.

"These are things like reaction times, perceptual distortions, narrowed vision, language limitations, and memory gaps--factors that investigators need to be aware of and fully understand, especially in controversial or puzzling cases," Lewinski said. "They also need to be able to articulate in reports and testimony how these factors may have influenced an event, to give as complete a picture as possible of what happened. And they need to understand how the traumatized brain functions so they can adapt their interviewing techniques to recover a maximum amount of valid material from the participants."

What the students will come to understand during these initial days, Lewinski said, is "a protocol for investigating and interviewing that will best assure a fair, balanced, impartial, and comprehensive explanation of the encounter in question.

"It is not an investigator's job to determine if an officer's behavior, let's say, was right or wrong in a use-of-force situation. But it is the investigator's job to clearly and objectively present all the potentially relevant facts to the person or person responsible for that decision.

"Without this training, it is highly likely that pivotal truths related to human performance will be misinterpreted or missed entirely in high-profile cases where the stakes are life-changing."

Day four will include a written examination prior to lunch.

Practical Application Exercise/Group Participation

An important part of the *Force Science* Certification process is interactive participation with students. At registration, class participants will receive a large course binder that in addition to materials related to each block of instruction, will include detailed evidentiary information related to an actual officer-involved shooting case, which students will "investigate."

Each night immediately following class, Dr. Lewinski will facilitate an intensive group discussion exercise in the classroom with the entire student body centered on applying the

information taught each day to that case. Dr. Lewinski will pose compelling questions related to the case in a Socratic, “guided discovery” fashion designed to help students tap into their newly acquired knowledge and apply it in a practical, real-world fashion likely to be mirrored in their own professional activities. This exercise will also allow Dr. Lewinski, and potentially other members of the teaching staff, to further elaborate on a number of the topics covered that day in class.

"This will be a highly interactive experience and will allow the trainees to make practical applications of what they've learned, just as they would in a real investigative setting," Lewinski said. They will need to be open-minded and unbiased in their approach. The point will not be to advocate but to inform a decision-maker of the dynamic elements that need to be understood and considered.

II. INSTRUCTOR BIOS

Dr. William J. Lewinski, Ph.D.

Dr. Lewinski is one of the world’s leading behavioral scientists whose work has focused primarily on the intensive study of the human dynamics involved in high stress, life-threatening encounters. He has a Ph.D. in Police Psychology and is a professor emeritus of Law Enforcement at Minnesota State University, Mankato, where he taught for more than 28 years. In 2003 he was named Distinguished Professor of the Year for the College of Social and Behavioral Sciences. He is a professor of negotiations at the University of Padua in Italy. He is the founder and director the Force Science® Institute, Ltd. (FSI), which is a research, consulting and training organization focused primarily on human behavior in use-of-force situations. The mission of FSI is to gather experts from a variety of academic and research disciplines from a wide range of educational institutions, including Minnesota State University, Mankato, the Mayo Clinic, UCLA, University of Calgary, Indiana University, and many universities in the United Kingdom, to assist in the study of officer and subject behavior, primarily in lethal force encounters. Force Science® publishes a popular, twice-monthly e-newsletter, Force Science® News, presenting research and commentary on force issues in law enforcement. FSN has a widespread readership. The International Association of Chiefs of Police distributes select articles to top administrators worldwide.

Dr. Lewinski’s research has looked at subject and officer movement in lethal force encounters, action/reaction parameters, perception and memory. His groundbreaking findings have been presented at peer-reviewed conferences in psychology, criminal justice and engineering. They have also been published in national law enforcement publications, websites, e-newsletters and have been discussed in peer-reviewed publications. Additionally, his work was highlighted on Daily Planet, a televised program on the Discovery Channel Canada, 48 Hours Investigates, and a BBC Panorama special program, When Cops Kill. Dr. Lewinski’s studies involve technologically sophisticated investigations into the perceptual and psychological factors that impact an officer’s perception, reaction and memory in lethal force encounters. One study involved a collaborative effort with the University of Calgary and police services in the United Kingdom to determine the relationship of focal vision to information processing, judgment and accuracy of shot placement in lethal force encounters.

Dr. Lewinski has trained in Goju Karate (traditional Japanese Karate) since 1967. He is a regional director and on the national board of examiners with Goju Kai Karate Do, U.S.A. He has testified in grand juries, coroner's inquests, arbitration hearings, and both criminal and civil cases throughout North America and the United Kingdom. He earned a Bachelor of Arts in Psychology and Sociology (1967), from Lakehead University in Thunder Bay, Ontario, Canada and a Master of Arts in Counseling from the University of Arizona (1979). He subsequently earned a Doctorate in Police Psychology from Union University and Institute, Cincinnati, Ohio (1988). Additionally, he has completed graduate work in psychology at the University of Vermont, University of Ottawa and the Alfred Adler Institute in Chicago.

Dr. Lewinski is an extremely popular speaker and consultant who has presented to and worked with a diverse span of groups, ranging internationally from the British House of Commons and House of Lords to the London Metropolitan Police, New Scotland Yard, Police Service of Northern Ireland, Republic of Ireland Police, I.A.C.P., and domestically from the FBI and other major law enforcement organizations to local police departments. He has presented at more than 100 international, national and regional conferences and has conducted more than 150 training classes and seminars worldwide. His audiences have represented a vast array of professionals, including investigators, attorneys, administrators, internal affairs personnel, and civilian review groups.

Dr. David Hines, MD

Dr. David W. Hines MD is an award-winning Fellow of the American College of Physicians and has been in medical practice for nearly 40 years. He received his medical degree from Chicago's Rush Medical School and continued there through three years of Internal Medicine residency, one year as a Chief Medical Resident and two years as an Infectious Disease Fellow. He continues to be associated with numerous leading hospitals in the Chicago area and is part of the Senior Management Team with one of the largest specialized internal medicine groups in the nation. He is Board Certified in Internal Medicine and Infectious Disease by the American Board of Internal Medicine and holds licenses to practice in three states.

One of David's skill sets is in explaining confusing medical terminology and physiology in common terms using plain English. His lecture will be devoted to important details of our nervous system, the impact stress has on vision, hearing and memory, and the distortions that stress can create.

Until now, his dealings with law enforcement officials has been limited to the many traffic warnings and citations issued to him from the Oak Park, IL police where he lives with his wife. They have three children -- two teachers and a farmer.

Dr. Christine Hall

Dr. Christine Hall is a practicing emergency medicine specialist in Canada, certified through a 5-year Royal College residency in Emergency Medicine, completed at the University of Calgary in 2001. During her residency, Dr. Hall completed her Master's Degree in Clinical Epidemiology, defending her thesis in 2003. She has been in full time practice as an emergency medicine

physician for 11 years and is now the medical director of the Trauma Program, South Island, for the Vancouver Island Health Authority. Prior to moving to British Columbia in 2006, she was a flight physician with STARS Alberta for 6 years. Dr. Hall was certified as a Tactical- EMS provider in 2010.

Dr. Hall's academic status includes Associate Clinical Professorship at the University of British Columbia, Faculty of Medicine and Assistant Professor of Research in the Department of Community Health Medicine at the University of Calgary. As of 2012, she is also an adjunct professor in the Department of Criminology at Simon Fraser University, Vancouver, BC, Canada. Dr. Hall continues to actively teach residents and medical students through the Faculty of Medicine at UBC.

Dr. Hall was appointed to the Expert Panel on the Medical and Physiological Impacts of Conducted Energy Weapons in Canada in 2012. She has been called as an expert witness in many formal investigations in Canada surrounding sudden deaths and excited delirium including the Braidwood Inquiry and the Hyde Inquiry. She has participated in publishing several key reports surrounding excited delirium, conducted energy technology and vascular neck restraint through the Canadian Police Research Centre in Ottawa, Canada as well as the ACEP committee on Excited Delirium. Dr. Hall has served as a police advisor and clinical expert in excited delirium and sudden in-custody death and has lectured on these topics to police agencies as well as key law enforcement assemblies and administrations in Canada, the United States and the UK. She has co-authored the excited delirium teaching package and policy/procedures guidelines for BC ambulance staff with the executive of the BC Provincial Ambulance Service.

Dr. Hall is the principal investigator in a multicenter international research study, the RESTRAINT Study, which is designed to determine the incidence of death in custody following violent police interactions, the association of sudden death to excited delirium states and the role of various restraint modalities; that research is ongoing and now represents the largest consecutive, complete database of all modalities of police use of force in North America leading to multiple peer reviewed publications. Dr. Hall is also actively researching the role of acid base status in acute delirious states, and is proud to have gained the collaboration of Dr. Bill Bozeman of Wake Forest University in that work.

Dr. John Azar-Dickens, Ph.D.

Dr. John Azar-Dickens is a Licensed Clinical Psychologist specializing in Forensic Psychology and a *Certified Force Science Analyst* based in Rome, Georgia. In addition to instructing nationally for the Force Science Institute, Dr. Azar-Dickens provides professional debriefing support and psychological assistance to officers involved in force incidents. A widely published author and active expert witness, Dr. Azar-Dickens also serves as a sworn patrol officer with the City of Rome Police Department and instructs as a Clinical Associate Professor of Psychology at Berry College.

A key focus of his research and teaching is on the area of human performance enhancement and the exploration of how that performance is impacted by high levels of stress, specifically in law enforcement and military contexts. In addition to studying individual behavior, he has dissected overall training techniques and interventions designed to create the highest levels of performance

and evaluated their overall effectiveness in real-world situations. His areas of study include the exploration of the relationship between physical activity and its impact on psychological functioning.

Dr. Azar-Dickens is a member of the Society for Police and Criminal Psychology and an Associate Member of the Georgia Association of Defensive Tactics Instructors and the Georgia Association of Law Enforcement Firearms Instructors.

Dr. Edward Geiselman, Ph.D.

Edward Geiselman is the co-developer of the Cognitive Interview technique. He has been a Professor of Psychology at the University of California, Los Angeles, for over 30 years. He earned his Bachelors degree from Purdue University in 1972 where he studied engineering and psychology. Subsequently, he earned both Masters and PhD degrees from Ohio University in experimental psychology. Since joining the faculty at UCLA, he has published over 100 research papers in social-science and police-science journals. He is the author of five books including The Psychology of Murder, Intersections of Psychology, Psychiatry, and Law (Volumes 1, 2, & 3), Eyewitness Expert Testimony, and Memory Enhancing Techniques for Investigative Interviewing: The Cognitive Interview. Professor Geiselman has served on the Los Angeles Superior Court Expert Witness Panel for 18 years and has offered expert testimony in over 350 criminal trials for both federal and state courts. Professor Geiselman has conducted training and offered other consulting services for numerous investigative agencies including the FBI, Homeland Security, Secret Service, Los Angeles Police Department, Los Angeles Sheriff's Department, Singapore Police Force, Health and Human Services, NTSB, LA Metropolitan Transit Authority, and Walter-Reed Army Hospital. He also conducts investigative interviews for local police departments in ongoing cold-case investigations.

Mr. Chris Lawrence, MA

Chris Lawrence served as an instructor with the Ontario Police College for more than a decade, where he was involved in the education and training of an average of 1,000 recruits annually. Currently, Chris is involved with several groups focused on analyzing major, rapidly evolving issues that impact law enforcement legally, tactically and administratively.

Chris is also a charter member of the Technical Advisory Board for the Force Science Institute. Since the Institute's inception, Chris has been involved in the development and implementation of the organization's growth initiatives, including the creation and launch of international training programs such as the Force Science Certification Course, strategic planning for the management and expansion of legal support services and the identification, planning and execution of Force Science research projects. In addition, Chris has served as a Force Science Certification Course facilitator since the first class was conducted in London, England in 2008.

Chris is recognized as a leading authority on excited delirium and in-custody death and is frequently asked to provide expert consultation to the courts, litigators, public safety managers and investigators. He is a widely published author and active presenter who has made

presentations on a multitude of topics, including Force Science issues, to international audiences at major law enforcement classes and conference worldwide.

Chris entered law enforcement in 1979 and has served in a wide variety of capacities, more than half involving training, in his more than 30-year career including patrol, supervisory and investigatory positions and specialized unit involvement including underwater search & rescue, maritime enforcement, and tactical & rescue units. He holds an M.A. from Royal Roads University.

Laura L. Scarry, JD

Laura L. Scarry has extensive experience in all aspects of defending municipalities and municipal employees in federal courts in Illinois and Indiana and Illinois state courts. Ms. Scarry has represented a variety of public entities including school districts, public works, legislative bodies, pension boards and police departments.

In the area of employment law, Laura has represented municipalities, school districts and other governmental entities against claims of discrimination and harassment. She has represented these types of clients in several venues, from the administrative level to state and federal courts. Her experience with and knowledge of policies and procedures of state and federal administrative agencies such as the Illinois Department of Human Rights, Illinois Human Rights Commission, the Equal Employment Opportunity Commission are an asset in her defense of employment litigation in state and federal courts.

The majority of Ms. Scarry's work has been in the representation of police officers, supervisors, administrators and the police agencies they work for against claims covering a wide array of law enforcement issues such as excessive force, deadly force, search and seizure, malicious prosecution, failure to train, duty to protect, police pursuit, employment discrimination, in-custody deaths and racial profiling. What makes Laura's experience unique is that she sees cases from a practical standpoint, having been a police officer for the City of Lake Forest from 1986-1992.

Ms. Scarry is a certified Force Science Analyst, having graduated from the Force Science Institute's prestigious 40-hour Force Science certification course in June, 2010. Her recently acquired scientific knowledge of human dynamics involved in officer involved shootings coupled with her legal and practical experience has made Laura one of the most sought after defense attorneys by law enforcement agencies and officers. Indeed, She is most proud of being trusted and called on by police officers and the municipalities they work for to provide legal advice to officers within hours of their being involved in critical incidents such as officer-involved- shootings and in-custody deaths.

Ms. Scarry is a columnist for Law Officer magazine writing about legal issues affecting the law enforcement community in a column called the Legal Eagle. She is a legal consultant for the Police Law Institute, an organization that provides computerized training on the law to police agencies throughout Illinois. She also has lectured extensively by invitation to police organizations and municipal organizations such as the Illinois Municipal League, Public Safety

Institute, International Law Enforcement Educators and Trainers Association, Illinois Police Instructor Trainers Association, Northwestern University Center for Public Safety, Performance Institute, American Society of Law Enforcement Trainers, and the Federal Bureau of Investigation's National Academy located in Quantico, Virginia. She also conducts in-service training to local police departments and other municipal entities regarding all areas of civil liability and employment discrimination.

Dr. Paul Taylor Ph.D.

Dr. Paul Taylor is a lead researcher, instructor, and course coordinator for the Force Science Institute. He is also an Assistant Professor of Criminal Justice at the University of New Haven where he teaches classes on research methods and topics related to policing. His research is focused on police decision-making and human error in the context of use of force encounters. In addition to his academic work, Paul has over eleven years of practical law enforcement experience including time as a department training manager, patrol sergeant, and use of force instructor. He is actively engaged in law enforcement training and regularly presents on a variety of topics to both academic and professional audiences across the country and internationally.

Mr. Jamie Borden, Sgt. (Retired)

A 22-year police veteran of the Henderson Police Department (NV), Sergeant Jamie Borden was tasked with the creation and implementation of the "Use of Force Training and Analysis Unit" for the agency. The unit was created specifically to identify and analyze human performance issues related to police use of force. In addition to successfully receiving a Certification in Force Analysis from the Force Science Institute, Borden was also the first person in the country to complete the Advanced Force Science Specialist Program created by the Institute.

Sgt. Borden has logged more than 1,900 hours of continued and focused education in the field of Human Behavioral Sciences as it relates to law enforcement, and has also logged more than 2,000 hours of documented instruction time with the Henderson Police Department as the Sergeant over the Use of Force Training and Analysis Unit, the Training Section and The Force Science Institute as a Senior Instructor.

Borden is currently working with the Force Science Institute, training officers nationwide in the human behavioral sciences and human factors as they apply to the law enforcement profession.

III. DAILY COURSE AGENDA

Day 1

8:00 am: Registration

8:30 am – 9:00 am: Introduction. Dr. Bill Lewinski, Executive Director, Force Science Institute

[Note: The instruction provided by Dr. Lewinski is a large, multiple-block collection of instructional units focused on a wide variety of Force Science principles distributed throughout the week of the course]

9:00 am – 11:00 am: Instructional block 1, Dr. David Hines

Understanding and Leveraging the Psychophysiology of Emotional Intensity

Among the topics to be covered:

- Intro to Neuroanatomy and the structure and functioning of the human brain.
- Complex chemical interactions involved in decision-making under stress.
- Roles of various segments of the brain during crisis situations.
- The impact of heart rate and respiration on human performance.
- Cognitive and behavioral distortions under stress.
- Process and timing of turning perception into action.
- Mental and physiological dimensions of “fear” and common misunderstandings.

11:00 am – 12:30 pm: Lunch

12:30 pm – 5:00 pm: Instructional block 2, Mr. Jamie Borden

Human Factors, Time Dynamics, Cognitive Processing and Officer/Offender Behavior in High-Stress, Rapidly Unfolding Force Encounters. A Course in Force Science Principles and Research Findings.

Among the topics to be covered:

- Biomechanics surrounding high-stress, rapidly evolving deadly force encounters.
- Findings of highly sophisticated time-and-motion studies conducted by the Force Science Institute and the implications for training, officer performance, and post-event investigations.
- Elements of the decision-making processes officers tend to utilize during high stress, rapidly unfolding, events and the critical implications of these decision-making processes for investigators and others standing in judgment of officers’ actions.
- The scientific realities of human attention and issues that should be considered during investigations
- Understanding human memory, including memory limitations, memory consolidation, and how best to “mine” the memory for the most accurate and thorough level of recollection and recall.
- “Schemas” and their impact of officer behavior and performance in high-stress encounters.

5:00 pm – 5:30/6:00 pm: Practical Application Exercise and Case evaluation, Dr. Lewinski.

- The entire student body, with *Force Science* staff facilitation, will discuss concepts learned in class and their application to an actual officer-involved shooting case and the subsequent investigation and legal processing as detailed in students' course binders.

Day 2

8:30 am – 10:30 am: Instructional block 3, Dr. John Azar-Dickens. *The Emotional Component of Crisis Encounters & the Investigatory Implications*

Among the topics to be covered:

- A presentation of research into details on suspects who have killed officers.
- An exploration of the varied psychological reactions officers have to major force encounters.
- Perceptual and memory distortions and how often they are found to be experienced by officers involved in force encounters
- Sleep and memory
- Stress reactions, duration of stress responses and stress management after a major force encounter.
- Myths and realities of officers' emotional reactions to major force encounters and their impact on future performance.

10:30 am – 11:30 am: Instructional block 4, Mr. Chris Lawrence. *Understanding Vision and the Abilities and Limitations of the Human Visual System*

Among the topics to be covered:

- The exploration of vision systems, the dynamics of sight and the impact of visual issues on human performance.
- Understanding vision and perception.
- How the human eye works under varying conditions, from low-light settings to high-speed, high-stress encounters.
- Understanding the phenomenon of "looming"
-
- How the eye functions in regard to judging speed and distance

11:30 am – 1:00 pm: Lunch

1:00 pm – 3:00 pm Mr. Chris Lawrence continued, instructional block 5. *Understanding Vision and the Abilities and Limitations of the Human Visual System*

3:00 pm – 5:00 pm: Instructional block 6, Dr. Paul Taylor *Fundamentals of Human Performance*

Among the topics to be covered:

- Exploration of attention, concentration and motor performance and how the number of response options an officer has relative to reacting to a threat can impact the ability to perform quickly and effectively under stress.
- Evaluating the role anticipation and appropriate training that can play a role in improving reaction time.
- An exploration of the scientific research conducted into “stimulus/response” timing and officer actions.
- Understanding “*Reaction Time*,” “*Movement Time*,” and “*Response Time*” in the context of investigations.
- An introduction to Human Motor Programs and the Open and Closed Loop response systems

5:00 pm – 5:30/6:00 pm: Practical Application Exercise and Case evaluation, Dr. Lewinski.

- The entire student body, with *Force Science* staff facilitation, will discuss concepts learned in class and their application to an actual officer-involved shooting case and the subsequent investigation and legal processing as detailed in students’ course binders.

Day 3

8:30 am – 10:30 am: Instructional block 7, Dr. Christine Hall

Sudden In-Custody Death and Law Enforcement Investigations

Among the topics to be covered:

- Critical issues surrounding the investigatory implications of sudden in-custody deaths.
- Understanding Excited Delirium: What it is and what it is not.
- Vascular Neck Restraint and Carotid Hypersensitivity.
- An exploration into research focused on OC/pepper spray and sudden in-custody death.
- Positional asphyxia/restraint asphyxia.
- Presentation of research into the CEWs and their effects on subjects.

10:30 am – 11:30 am Instructional block 8, Dr. Paul Taylor continued: *Fundamentals of Human Performance*.

11:30 am – 1:30 pm: Lunch

1:30 pm – 5:00 pm: Instructional block 9, Dr. Paul Taylor continued *Fundamentals of Human Performance*.

5:00 pm – 5:30/6:00 pm: Practical Application Exercise and Case evaluation, Dr. Lewinski.

- The entire student body, with *Force Science* staff facilitation, will discuss concepts learned in class and their application to an actual officer-involved shooting case and the subsequent investigation and legal processing as detailed in students’ course binders.

Day 4

8:30 am – 10:30 am: Instructional block 10, Dr. Edward Geiselman

The Cognitive Interview: Memory Enhancing Techniques for Investigative Interviewing

Among the topics to be covered:

- A step-by-step exploration of cognitive interviewing techniques for law enforcement and means by which investigators can more thoroughly and effectively "mine" officers' memories and better ensure a surfacing of as many details as possible about a force incident.
- Understanding how memories are created
- Special considerations during interviews during officer-involved shooting investigations. • Strategies for effectively and accurately surfacing deception.

10:30 am – 11:30 am: WRITTEN TEST

11:30 am – 1:00 pm: Lunch

1:00 pm – 3:00 pm: Instructional block 11, Attorney Laura Scarry, Esq.

Among the topics to be covered:

- Legalities surrounding use-of-force investigations and discussion of the appropriate approach to investigating force incidents in a manner that will not jeopardize the case legally or further traumatize the involved officer(s) nor limit his/her ability to thoroughly and accurately detail events.
- Best practices in responding to critical incidents
- Legalities and investigations: How can agencies and officers best know what to expect after a shooting?
- Discussion of legal and investigatory issues surrounding officer statements.

3:00 pm – 5:00 pm: Instructional block 12, Dr. Bill Lewinski continued. *Human Factors, Time Dynamics, Cognitive Processing and Officer/Offender Behavior in High-Stress, Rapidly Unfolding Force Encounters. A Course in Force Science Principles and Research Findings.*

5:00 pm – 5:30/6:00 pm: Practical Application Exercise and Case evaluation. Dr. Lewinski.

- The entire student body, with *Force Science* staff facilitation, will discuss concepts learned in class and their application to an actual officer-involved shooting case and the subsequent investigation and legal processing as detailed in students' course binders.

Day 5

8:30 am – 12:30 pm: Instructional block 13, Dr. Bill Lewinski

The practical application of information learned during the Force Science Certification Course to actual officer-involved shooting cases and other use-of-force incidents

- Dr. Lewinski will take students step-by-step through several actual cases in which the concepts taught in this certification class were applied in a real-world setting to investigations and during court proceedings to increase understanding of the realities of the force encounters being investigated.

Presentation of certificates and parting words.