

Bertino Forensic Science Fundamentals And Investigations Powerpoint

In this fresh new offering to the Intro Psychology course, authors John Cacioppo and Laura Freberg portray psychology as being an integrative science in two ways. First, they have written a text that reflects psychology's rightful place as a hub science that draws from and is cited by research in many other fields. Second, this text presents psychology as a unified science that seeks a complete understanding of the human mind, rather than as a loosely organized set of autonomous subspecialties. As psychology moves rapidly toward maturity as an integrative, multidisciplinary field, the introductory course offers an opportunity to teach all of psychology in one place and at one time. This text reflects that evolution--and the authors' excitement about it. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

A completely revised and updated edition that teaches the essentials of forensic biology, with increased coverage of molecular biological techniques and new information on wildlife forensics, wound analysis and the potential of microbiomes as forensic indicators This fully revised and updated introduction to forensic biology carefully guides the reader through the science of biology in legal investigations. Full-colour throughout, including many new images, it offers an accessible

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overview to the essentials of the subject, providing balanced coverage of the range of organisms used as evidence in forensic investigations, such as invertebrates, vertebrates, plants and microbes. The book provides an accessible overview of the decay process and discusses the role of forensic indicators like human fluids and tissues, including bloodstain pattern analysis, hair, teeth, bones and wounds. It also examines the study of forensic biology in cases of suspicious death. This third edition of Essential Forensic Biology expands its coverage of molecular techniques throughout, offering additional material on bioterrorism and wildlife forensics. The new chapter titled 'Wildlife Forensics' looks at welfare legislation, CITES and the use of forensic techniques to investigate criminal activity such as wildlife trafficking and dog fighting. The use of DNA and RNA for the identification of individuals and their personal characteristics is now covered as well, along with a discussion of the ethical issues associated with the maintenance of DNA databases. Fully revised and updated third edition of the successful student-friendly introduction to the essentials of Forensic Biology Covers a wide variety of legal investigations such as homicide, suspicious death, neglect, real and fraudulent claims for the sale of goods unfit for purpose, the illegal trade in protected species of plants and animals and bioterrorism Discusses the use of a wide variety of biological material for forensic evidence Supported by a website that includes numerous photographs, interactive MCQs, self-assessment quizzes and a series of questions and topics for further study to enhance student

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understanding Includes a range of important, key case studies in which the difficulties of evaluating biological evidence are highlighted Essential Forensic Biology, Third Edition is an excellent guide for undergraduates studying forensic science and forensic biology.

Forensic Science: From the Crime Scene to the Crime Lab, Second Edition, is designed to present forensic science in a straightforward and student-friendly format. Ideal for students with limited background in the sciences, topics are arranged to integrate scientific methodology with actual forensic applications.

Discussions are focused on explaining state-of-the-art technology without delving into extraneous theories that may bore or overwhelm non-science students. Only the most relevant scientific and technological concepts are presented, keeping students focused on the practical knowledge they'll need in the field.

FORENSIC SCIENCE: ADVANCED INVESTIGATIONS is part of a comprehensive course offering as a second-level high school course in forensic science, a course area in which students have the opportunity to expand their knowledge of chemistry, biology, physics, earth science, math, and psychology, as well as associate this knowledge with real-life applications. This text builds on concepts introduced in FORENSIC SCIENCE:

FUNDAMENTALS & INVESTIGATIONS, as well as introduces additional topics, such as arson and explosions. Following the same solid instructional design as the FUNDAMENTALS & INVESTIGATIONS text, the book balances extensive scientific concepts with hands-on classroom and lab activities, readings, intriguing case

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studies, and chapter-opening scenarios. The book's exclusive Gale Forensic Science eCollection database provides instant access to hundreds of articles and Internet resources that spark student interest and extend learning beyond the book. Comprehensive, time-saving teacher support and lab activities deliver exactly what you need to ensure that students receive a solid, complete science education that keeps readers at all learning levels enthused about science. This two-book series provides a solution that is engaging, contemporary, and specifically designed for high school students. Instructors can be confident that the program has been written by high school forensic science instructors with their unique needs in mind, including content tied to the national and state science standards they are accountable to teaching. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Fundamentals of Forensic DNA Typing is written with a broad viewpoint. It examines the methods of current forensic DNA typing, focusing on short tandem repeats (STRs). It encompasses current forensic DNA analysis methods, as well as biology, technology and genetic interpretation. This book reviews the methods of forensic DNA testing used in the first two decades since early 1980's, and it offers perspectives on future trends in this field, including new genetic markers and new technologies. Furthermore, it explains the process of DNA testing from collection of samples through DNA extraction, DNA quantitation, DNA amplification, and

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statistical interpretation. The book also discusses DNA databases, which play an important role in law enforcement investigations. In addition, there is a discussion about ethical concerns in retaining DNA profiles and the issues involved when people use a database to search for close relatives. Students of forensic DNA analysis, forensic scientists, and members of the law enforcement and legal professions who want to know more about STR typing will find this book invaluable. Includes a glossary with over 400 terms for quick reference of unfamiliar terms as well as an acronym guide to decipher the DNA dialect. Continues in the style of Forensic DNA Typing, 2e, with high-profile cases addressed in D.N.A.Boxes-- "Data, Notes & Applications" sections throughout. Ancillaries include: instructor manual Web site, with tailored set of 1000+ PowerPoint slides (including figures), links to online training websites and a test bank with key.

With today's popular television programs about criminal justice and crime scene investigation and the surge of detective movies and books, students often have a passion for exploring forensic science. Now you can guide that excitement into a profitable learning experience with the help of the innovative, new FORENSIC SCIENCE: FUNDAMENTALS AND INVESTIGATIONS, 2E. This dynamic, visually powerful text has been carefully crafted to ensure solid scientific content and an approach that delivers precisely what you need for your high school course. Now an established best-seller, FORENSIC SCIENCE: FUNDAMENTALS AND INVESTIGATIONS, 2E offers a truly experiential

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approach that engages students in active learning and emphasizes the application of integrated science in your course. Student materials combine math, chemistry, biology, physics, and earth science with content aligned to the National Science Education Standards, clearly identified by icons. This book balances extensive scientific concepts with hands-on classroom and lab activities, readings, intriguing case studies, and chapter-opening scenarios. The book's exclusive Gale Forensic Science eCollection database provides instant access to hundreds of journals and Internet resources that spark the interest of today's high school students. The new edition includes one new chapter on entomology and new capstone projects that integrate the concepts learned throughout the text. Comprehensive, time-saving teacher support and lab activities deliver exactly what you need to ensure that students receive a solid, integrated science education that keeps readers at all learning levels enthused about science. FORENSIC SCIENCE: FUNDAMENTALS AND INVESTIGATIONS, 2E sets the standard in high school forensic science . . . case closed. --

Computational Intelligence techniques have been widely explored in various domains including forensics. Analysis in forensic encompasses the study of pattern analysis that answer the question of interest in security, medical, legal, genetic studies and etc. However, forensic analysis is usually performed through experiments in lab which is expensive both in cost and time. Therefore, this book seeks to explore the progress and advancement of computational intelligence technique in different focus

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areas of forensic studies. This aims to build stronger connection between computer scientists and forensic field experts. This book, Computational Intelligence in Digital Forensics: Forensic Investigation and Applications, is the first volume in the Intelligent Systems Reference Library series. The book presents original research results and innovative applications of computational intelligence in digital forensics. This edited volume contains seventeen chapters and presents the latest state-of-the-art advancement of Computational Intelligence in Digital Forensics; in both theoretical and application papers related to novel discovery in intelligent forensics. The chapters are further organized into three sections: (1) Introduction, (2) Forensic Discovery and Investigation, which discusses the computational intelligence technologies employed in Digital Forensic, and (3) Intelligent Forensic Science Applications, which encompasses the applications of computational intelligence in Digital Forensic, such as human anthropology, human biometrics, human by products, drugs, and electronic devices.

Packed with current, real-world examples, ETHICAL DILEMMAS AND DECISIONS IN CRIMINAL JUSTICE, 9th Edition offers comprehensive, balanced, and practical coverage of ethics across all three arms of the criminal justice system: the police, the courts, and corrections. Readers find coverage of the philosophical principles and theories that are the foundation of ethical decision-making, as well as the latest challenges and issues in criminal justice -- the militarization of the police, mass imprisonment, wrongful convictions, the misuse of

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power by elected officials and/or other public servants, and more. The text provides a wealth of hands-on exercises as well as such insightful features as In the News boxes spotlighting recent examples of misconduct. For those studying or contemplating a career in criminal justice, real-life cases and situations demonstrate the significance of ethics in today's criminal justice arena. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

A Hands-On Introduction to Forensic Science, Second Edition continues in the tradition of the first edition taking a wholly unique approach to teaching forensic science. Each chapter begins with a brief, fictional narrative that runs through the entire book; it is a crime fiction narrative that describes the interaction of a veteran homicide detective teamed with a criminalist and the journey they take together to solve a missing persons case. Step-by-step the book progressive reveals pieces of information about the crime, followed by the more traditional presentation of scientific principles and concepts on a given forensic topics. Each chapter concludes with a series of user friendly, cost effective, hands-on lab activities that provide the students the skills necessary to analyze the evidence presented in each chapters. The new edition is completely updated with special focus on new DNA techniques in DNA sequencing, DNA phenotyping, and bioinformatics. Students will engage in solving a missing persons case by documenting the crime scene, analyzing physical evidence in the lab, and presenting findings in a mock trial setting. Within the chapters themselves, students learn about the technical, forensic concepts presented within each of the opening stories segments. The book culminates with having the students playing to role of the main

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characters in a trial—attorneys, scientific experts, suspect, judge, bailiff, and jury—to present and judge the evidence in a mock trial setting. The mock trial will mimic what takes place in a real courtroom, and the jury will be asked to deliberate on the evidence presented to determine the guilt or innocence of the suspect.

Increasingly, forensic scientists use plant evidence to reconstruct crimes. The forensic aspects of this subject require an understanding of what is necessary for botanical evidence to be accepted in our judicial system. Bringing together the latest information into a single resource, *Forensic Botany: Principles and Applications to Criminal Casework* introduces the basic science underlying this emerging field of forensic botany. Contributors discuss the recognition of pertinent plant evidence at a crime scene, the appropriate collection and preservation of the material, and maintenance of a chain of custody. They also explain scientific testing methods, the validation of new forensic techniques, and admissibility criteria for court. An overview of plant biology and historical developments in forensic DNA analysis is also included, as well as case examples featuring the use of botanical evidence in a variety of criminal cases. In an effort to build the scientific foundation for this promising field, this book provides definitive coverage of forensic botany with detailed applications and case examples. It familiarizes forensic scientists with the role of botanical evidence in criminal investigations and its potential value in the pursuit of justice.

Blockchain technologies, as an emerging distributed architecture and computing paradigm, have accelerated the development/application of the Cloud/GPU/Edge Computing, Artificial Intelligence, cyber physical systems, social networking, crowdsourcing and crowdsensing, 5G, trust management, and finance. The popularity and rapid

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development of Blockchain brings many technical and regulatory challenges for research and academic communities. This book will feature contributions from experts on topics related to performance, benchmarking, durability, robustness, as well data gathering and management, algorithms, analytics techniques for transactions processing, and implementation of applications.

The development of forensic science in solving crimes, with real-life case examples.

Covering a range of fundamental topics essential to modern forensic investigation, the fifth edition of the landmark text *Forensic Science: An Introduction to Scientific and Investigative Techniques* presents contributions and case studies from the personal files of experts in the field. In the fully updated 5th edition, Bell combines these testimonies into an accurate and engrossing account of cutting edge of forensic science across many different areas. Designed for a single-term course at the undergraduate level, the book begins by discussing the intersection of law and forensic science, how things become evidence, and how courts decide if an item or testimony is admissible. The text invites students to follow evidence all the way from the crime scene into laboratory analysis and even onto the autopsy table.

Forensic Science offers the fullest breadth of subject matter of any forensic text available, including forensic anthropology, death investigation (including entomology), bloodstain pattern analysis, firearms, tool marks, and forensic analysis of questioned documents. Going beyond theory to application, this text incorporates the wisdom of forensic practitioners who discuss the real cases they have investigated. Textboxes in each chapter provide case studies, current events, and advice for career advancement. A brand-new feature, *Myths in Forensic Science*, highlights the differences between true forensics and popular media fictions. Each chapter begins

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with an overview and ends with a summary, and key terms, review questions, and up-to-date references. Appropriate for any sensibility, more than 350 full-color photos from real cases give students a true-to-life learning experience.

*Access to identical eBook version included Features
Showcases contributions from high-profile experts in the field
Highlights real-life case studies from experts' personal files, along with stunning full-color photographs Organizes chapters into topics most popular for coursework Covers of all forms of evidence, from bloodstain patterns to questioned documents Includes textboxes with historical notes, myths in forensic science, and advice for career advancement Provides chapter summaries, key terms, review questions, and further reading Includes access to an identical eBook version Ancillaries for Instructors: PowerPoint® lecture slides for every chapter A full Instructor's Manual with hundreds of questions and answers—including multiple choice Additional chapters from previous editions Two extra in-depth case studies on firearms and arson (photos included) Further readings on entomological evidence and animal scavenging (photos included)

Covering a range of fundamental topics essential to modern forensic investigation, the fourth edition of the landmark text *Forensic Science: An Introduction to Scientific and Investigative Techniques* presents contributions from experts in the field who discuss case studies from their own personal files. This edition has been thoroughly updated to r
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With today's popular television programs about criminal justice and crime scene investigation and the surge of detective movies and books, students often have a passion for exploring forensic science. Now you can guide that excitement into a profitable learning experience with the help of the innovative, new FORENSIC SCIENCE: FUNDAMENTALS AND INVESTIGATIONS, 2E. This dynamic, visually powerful text has been carefully crafted to ensure solid scientific content and an approach that delivers precisely what you need for your high school course. Now an established best-seller, FORENSIC SCIENCE: FUNDAMENTALS AND INVESTIGATIONS, 2E offers a truly experiential approach that engages students in active learning and emphasizes the application of integrated science in your course. Student materials combine math, chemistry, biology, physics, and earth science with content aligned to the National Science Education Standards, clearly identified by icons. This book balances extensive scientific concepts with hands-on classroom and lab activities, readings, intriguing case studies, and chapter-opening scenarios. The book's exclusive Gale Forensic Science eCollection™ database provides instant access to hundreds of journals and Internet resources that spark the interest of today's high school students. The new edition includes one new chapter on entomology and new capstone projects that integrate the concepts learned throughout the text. Comprehensive, time-saving teacher support and lab activities deliver exactly what you need to ensure that students receive a solid, integrated science education that keeps readers at all learning levels enthused about science. FORENSIC SCIENCE: FUNDAMENTALS AND INVESTIGATIONS, 2E sets the standard in high school forensic science . . . case closed. Important Notice: Media content referenced within the product description or the product text may not be available in the

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ebook version.

Looks at the role of forensic science in criminal investigations and examines forty high-profile cases and the diverse technologies used to solve them, including fingerprinting, handwriting analysis, DNA testing, and toxicology. Simultaneous.

Forensic Science: Fundamentals & Investigations Cengage Learning

"Blue Pelican Java" is a somewhat unusual high school computer science textbook. Most computer science texts will begin with a section on the history of computers followed with a flurry of definitions that are just "so many words" to the average student. The approach here is to first give the student some experience upon which to hang the definitions that come later. The usual practice of introducing classes and objects is deferred until the student has a firm grasp of the fundamentals (loops, decision structures, etc). Thus, the beginning student is not overwhelmed by the simultaneous introduction of OOPs and the fundamentals. The book includes plenty of exercises (many in "contest" form), programming projects, and a huge appendix.

For the calculus-based General Physics course primarily taken by engineers and science majors (including physics majors). This long-awaited and extensive revision maintains Giancoli's reputation for creating carefully crafted, highly accurate and precise physics texts. Physics for Scientists and Engineers combines outstanding pedagogy with a clear and direct narrative and applications that draw the student into the physics. The new edition also features an unrivaled suite of media

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and on-line resources that enhance the understanding of physics. This book is written for students. It aims to explain physics in a readable and interesting manner that is accessible and clear, and to teach students by anticipating their needs and difficulties without oversimplifying. Physics is a description of reality, and thus each topic begins with concrete observations and experiences that students can directly relate to. We then move on to the generalizations and more formal treatment of the topic. Not only does this make the material more interesting and easier to understand, but it is closer to the way physics is actually practiced.

This robust, dynamic, and international field has grown to include interdisciplinary research, continually improving methodology, and globalization of training. Reflecting the diverse nature of the science from experts who have shaped it, *Forensic Anthropology: A Comprehensive Introduction Second Edition* builds off of the success of the first edition and incorporates standard practices in addition to cutting-edge approaches in a user-friendly format, making it an ideal introductory-level text.

Information Systems (IS) are a nearly omnipresent aspect of the modern world, playing crucial roles in the fields of science and engineering, business and law, art and culture, politics and government, and many others. As such, identity theft and unauthorized access to these systems are serious concerns. *Theory and Practice of Cryptography Solutions for Secure Information Systems* explores current trends in IS security technologies, techniques, and concerns, primarily through the use of cryptographic tools to safeguard valuable information

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resources. This reference book serves the needs of professionals, academics, and students requiring dedicated information systems free from outside interference, as well as developers of secure IS applications. This book is part of the Advances in Information Security, Privacy, and Ethics series collection.

Lesson plans and activities to teach science to elementary level students.

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keeps readers at all learning levels enthused about science. This two-book series provides a solution that is engaging, contemporary, and specifically designed for high school students. Instructors can be confident that the program has been written by high school forensic science instructors with their unique needs in mind, including content tied to the national and state science standards they are accountable to teaching. The update has a new chapter on Digital Responsibility and Social Networking. FORENSIC SCIENCE: ADVANCED INVESTIGATIONS, COPYRIGHT UPDATE, 1E sets the standard in high school forensic science . . . case closed. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Forensics For Dummies (9781119608967) was previously published as Forensics For Dummies (9781119181651). While this version features a new Dummies cover and design, the content is the same as the prior release and should not be considered a new or updated product. Understand the real-life science behind crime scene investigation Forensics For Dummies takes you inside the world of crime scene investigation to give you the low down on this exciting field. Written by a doctor and former Law & Order consultant, this guide will have you solving crimes along with your favorite TV shows in no time. From fingerprints and fibers to blood and ballistics, you'll walk through the processes that yield significant information from the smallest clues. You'll learn how Hollywood gets it wrong, and how real-world forensics experts work every day in fields as diverse as

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biology, psychology, anthropology, medicine, information technology, and more. If you're interested in a forensics career, you'll find out how to break in—and the education you'll need to do the type of forensics work that interests you the most. Written for the true forensics fan, this book doesn't shy away from the details; you'll learn what goes on at the morgue as you determine cause of death, and you'll climb into the mind of a killer as you learn how forensic psychologists narrow down the suspect list. Crime shows are entertaining, but the reality is that most forensics cases aren't wrapped up in an hour. This book shows you how it's really done, and the amazing technology and brilliant people that do it every day. Learn who does what, when they do it, and how it's done. Discover the many fields involved in crime scene investigation. Understand what really happens inside a forensics lab. Examine famous forensics cases more intriguing than any TV show. Forensic scientists work in a variety of environments and in many different capacities. If you think television makes it look interesting, just wait until you learn what it's really like! *Forensics For Dummies* takes you on a tour of the real-world science behind solving the case.

Fundamentals of Forensic Science, Third Edition, provides current case studies that reflect the ways professional forensic scientists work, not how forensic academicians teach. The book includes the binding principles of forensic science, including the relationships between people, places, and things as demonstrated by transferred evidence, the context of those people, places, and things, and the meaningfulness of the

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physical evidence discovered, along with its value in the justice system. Written by two of the leading experts in forensic science today, the book approaches the field from a truly unique and exciting perspective, giving readers a new understanding and appreciation for crime scenes as recent pieces of history, each with evidence that tells a story. Straightforward organization that includes key terms, numerous feature boxes emphasizing online resources, historical events, and figures in forensic science Compelling, actual cases are included at the start of each chapter to illustrate the principles being covered Effective training, including end-of-chapter questions – paired with a clear writing style making this an invaluable resource for professors and students of forensic science Over 250 vivid, color illustrations that diagram key concepts and depict evidence encountered in the field

The manner in which criminal investigators are trained is neither uniform nor consistent, ranging from sophisticated training protocols in some departments to on-the-job experience alongside senior investigators in others. Ideal for students taking a first course in the subject as well as professionals in need of a refresher, Introduction to Crimin

Bestselling author of Broken Ground “offers fascinating glimpses” into the real world of criminal forensics from its beginnings to the modern day (The Boston Globe). The dead can tell us all about themselves: where they came from, how they lived, how they died, and, of course, who killed them. Using the messages left by a corpse, a crime scene, or the faintest of human traces,

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forensic scientists unlock the mysteries of the past and serve justice. In *Forensics*, international bestselling crime author Val McDermid guides readers through this field, drawing on interviews with top-level professionals, ground-breaking research, and her own experiences on the scene. Along the way, McDermid discovers how maggots collected from a corpse can help determine one's time of death; how a DNA trace a millionth the size of a grain of salt can be used to convict a killer; and how a team of young Argentine scientists led by a maverick American anthropologist were able to uncover the victims of a genocide. Prepare to travel to war zones, fire scenes, and autopsy suites as McDermid comes into contact with both extraordinary bravery and wickedness, tracing the history of forensics from its earliest beginnings to the cutting-edge science of the modern day.

A fascinating account of the five most toxic elements describes the lethal chemical properties of arsenic, antimony, lead, mercury, and thallium, as well as their use in some of the most famous murder cases in history, with profiles of such deadly poisoners as Mary Ann Cotton, Michael Swango, and Saddam Hussein and a look at modern-day environmental catastrophes.

This introductory volume to a new series on Soil Forensics gives a kaleidoscopic view of a developing forensic expertise. Forensic practitioners and academic researchers demonstrate, by their joint contributions, the extent and complexity of soil forensics. their reports exemplify the broad range of sciences and techniques applied in all stages of forensic soil examinations, from

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investigations at crime scenes to providing evidence that can be used in court proceedings. Moreover the necessity is depicted of co-operation as a condition for any work in soil forensics between scientists of different disciplines, but no less between scientists and law enforcers. Soils play a role in environmental crimes and liability, as trace evidence in criminal investigations and, when searching for and evaluating, buried human remains. This book shows soil forensics as practiced in this legal context, emerging and solidifying in many countries all over the world, differing in some respects because of differences in legal systems but ultimately sharing common grounds.

With popular television programs, movies, and books about criminal justice and crime scene investigation, students often have a passion for exploring forensic science. Now that excitement can be guided into valuable learning experiences with the help of *Forensic Science: Fundamentals & Investigations*, 3e. This dynamic, visually powerful text has been carefully crafted to ensure solid scientific content and an approach that delivers precisely what is needed for high school courses. Now an established best-seller, *Forensic Science: Fundamentals & Investigations* offers a truly experiential approach that engages students in active learning and emphasizes the application of integrated science. Student materials combine math, chemistry, biology, physics, and earth science with content aligned to the Next Generation Science Standards. Capstone projects integrate the concepts learned throughout the text. Comprehensive, time-saving teacher support and

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lab activities deliver exactly what is needed to ensure that students receive a solid, integrated science education that keeps readers engaged at all learning levels. Supported by MindTap with an eBook, online assessments, Interactive Labs, and Virtual Labs, students learn content and practice skills like real forensic scientists. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

The Criminalistics Laboratory Manual: The Basics of Forensic Investigation provides students with little to no prior knowledge of forensic science with a practical crime scene processing experience. The manual starts with an original crime scene narrative setting up the crime students are to solve. This narrative is picked up in each of the forensic science lab activities, tying each forensic discipline together to show the integrated workings of a real crime lab. After the completion of all of the exercises, the student will be able to solve the homicide based on forensic evidence.

Photographs and illustrations, along with case studies and interviews with forensic and police personnel, highlight a look at the art of forensic science and its applications in law enforcement.

Milady Standard Barbering, 6th edition, continues to be the leading resource in barbering education, providing students with the foundational principles and techniques needed to be successful while in school, pass their licensing exam, and launch them into a thriving career. Incorporating new photography, artwork and overall layout, the look and feel of this edition has been transformed, resulting in a sleek and clean design to engage and inspire today's student. Content

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has been updated within each chapter with a major focus on the procedures, infection control, life skills and business chapters, just to name a few. In addition, classic techniques have been paired with contemporary looks to ensure success both while in school and beyond to employment. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

One failing of many forensic science textbooks is the isolation of chapters into compartmentalized units. This format prevents students from understanding the connection between material learned in previous chapters with that of the current chapter. Using a unique format, *A Hands-On Introduction to Forensic Science: Cracking the Case* approaches the topic of forensic science from a real-life perspective in a way that these vital connections are encouraged and established. The book utilizes an ongoing fictional narrative throughout, entertaining students as it provides hands-on learning in order to "crack the case." As two investigators try to solve a missing persons case, each succeeding chapter reveals new characters, new information, and new physical evidence to be processed. A full range of topics are covered, including processing the crime scene, lifting prints, trace and blood evidence, DNA and mtDNA sequencing, ballistics, skeletal remains, and court testimony. Following the storyline, students are introduced to the appropriate science necessary to process the physical evidence, including math, physics, chemistry, and biology. The final element of each chapter includes a series of cost-effective, field-tested lab activities that train students in processing, analyzing, and documenting the physical evidence revealed in the narrative. Practical and realistic in its approach, this book enables students to understand how forensic science operates in the real world.

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A medical examiner writes about the problems in forensic medicine.

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