Research Plays a Critical Role in Our Program

Students continue undergraduate research projects in either chemistry or biology. In addition, some students participate in the Advanced Forensic Chemistry Lab, DNA Methods/Population Genetics, and Forensic Investigation courses. In the fifth year, students are required to undertake an original research project. Students may enhance their research projects through presentation at special and annual conferences sponsored by the American Academy of Forensic Sciences (AAFS) in Seattle, Washington. Students from the Forensic Science and Law program recently attended the AAFS conference and presented their research.

Access to World-Class Technology and Labs

To remain at the forefront of innovative scientific research, Duquesne University continually invests in its laboratory facilities and technology. As a result, Duquesne's laboratory equipment is comparable to, and in some cases more advanced than, what is available at other large universities or industrial research facilities. Phi Sigma Lambda is a professional Forensic Science Fraternity established for students in the Master's degree program in Forensic Science and Law. The fraternity unites students in the program, instills honesty and integrity and creates lasting friendships and loyalty. Each member of Phi Sigma Lambda is a professional Forensic Science Fraternity member who wishes to earn a law degree may be eligible for an early admission to Duquesne's Law School, by achieving and maintaining required academic standards.

About Duquesne University

The University's urban setting provides students with access to a wealth of science-based teaching and commitment to service. The University's urban setting also places its students in close proximity to a wealth of science-based internship opportunities at corporations and agencies throughout the region. Although it is located at the heart of downtown Pittsburgh, Duquesne still preserves the feel of a small college town because of its safe, attractive, self-contained campus.

Degree Options

The Master's in Forensic Science and Law is offered in partnership with the Cyril H. Wecht Institute. Dr. Wecht, one of the world's leading medical-legal consultants, chairs the Institute's advisory board, which includes such internationally renowned experts as Dr. Henry Lee, Dr. Michael Welner, and Professor James Starrs. Students participate and attend special and annual conferences sponsored by the AAFS.

The Wecht Institute of Forensic Science and Law

The Wecht Institute of Forensic Science and Law contains the forensic-science program at Duquesne University Office. The program is the only major forensic-science program in the United States with an advisory board, which includes such internationally renowned experts as Dr. Henry Lee, Dr. Michael Welner, and Professor James Starrs. Students participate and attend special and annual conferences sponsored by the American Academy of Forensic Sciences (AAFS) in Seattle, Washington. Students from the Forensic Science and Law program recently attended the AAFS conference and presented their research at the 62nd Annual Scientific Meeting of the American Academy of Forensic Sciences (AAFS) in Seattle, Washington.

ORDuquesne University Office

For additional program information, or to arrange a visit to Duquesne, contact:

www.duq.edu/forensic-science

Phone: (412) 396-1084
Fax: (412) 396-1402
Pittsburgh, PA 15282
600 Forbes Avenue
341 Fisher Hall

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The master of science degree in forensic science & law

Duquesne University boasts a proud legacy of providing an exceptional education with an emphasis on moral values, dedication to quality teaching and commitment to service. The University's urban setting provides students with access to a wealth of science-based internship opportunities at corporations and agencies throughout the region. Although it is located at the heart of downtown Pittsburgh, Duquesne still preserves the feel of a small college town because of its safe, attractive, self-contained campus.

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Degree Options

Students earn a Master of Science degree at the end of the five-year curriculum. Additionally, students must select course work leading to a bachelor's degree in biochemistry or biology. Students in the program who wish to earn a law degree may be eligible for an early admission to Duquesne's Law School, by achieving and maintaining required academic standards.

Access to World-Class Technology and Labs

To remain at the forefront of innovative scientific research, Duquesne continually invests in its laboratory facilities and technology. As a result, Duquesne’s laboratory equipment is comparable to, and in some cases more advanced than, what is available at other large universities or industrial research facilities.

Professional Activities

Phi Sigma Lambda is a professional Forensic Science Fraternity established for students in the Master's degree program in Forensic Science and Law. The fraternity unites students in the program, instills the aspiration to achieve high academic standings, encourages students to become involved in community affairs, strives to uphold values of honesty and integrity and creates lasting friendships and loyalty. Each July, Phi Sigma Lambda hosts 20 high school students at on-campus workshops where they get to experience a variety of hands-on laboratory sessions on topics such as fingerprints, hair and fiber analysis, arson investigation, and gunpowder/drug analysis. For more details, interested high school juniors and seniors can visit www.duq.edu/forensic-science.

Research Plays a Critical Role in Our Program

Students are encouraged to start research as early as their freshman year, in order to gain as much professional experience as possible and facilitate hands-on learning. Research provides students with the opportunity to learn experiment development, problem solving and instrumental methods. During the fourth year of the program, students are required to undertake an original research project. In the fifth year, they are required to write a paper and present their research. Students may enhance their research projects in the Advanced Forensic Chemistry Lab, DNA Methods/Population Genetics, and Forensic Investigation courses. In addition, some students continue undergraduate research projects in either chemistry or biology.

“I had an internship at the Brooke Army Medical Center’s Institute of Surgical Research where I studied the use of blood transfusions in severely burned patients. The forensic science program has given me a strong background in many different areas of science, allowing me to do research in a variety of fields.”

-Jennifer Stipanovic
Forensic Science
Class of 2007

“The adjunct faculty teaching in the program actually work in the field, making the experience they bring to the classroom invaluable.”

-Sara Nedley
2006 Forensic Science Graduate
Forensic Scientist
ChemImage Corporation, a Pittsburgh-based firm with experience in the use of hyperspectral imaging applications, including forensic science
Why Study Forensic Science at Duquesne University?

A critical need exists for skilled professionals in the matching, organizing, and challenging field of forensics. Recent developments in scientific research and technology have revolutionized the practice of law enforcement. The role of the forensic scientist is to uncover the facts that lead to the truth. He or she must be highly trained in techniques and methods of analysis to ensure that the results of the analysis are reliable. In the same vein, the individual must understand the legal framework in which the science is utilized.

Duquesne University educates future forensic professionals in a manner that stands apart from traditional approaches offered by colleges and universities throughout the nation.

### FEPAC Accreditation

Duquesne’s Forensic Science and Law program, which is accredited by the Forensic Science Education Program Accreditation Commission (FEPAC), is one of only 15 accredited forensic science programs in the U.S. FEPAC, an arm of the American Academy of Forensic Sciences, reviews and founds to meet the standards for quality forensic science education. By choosing an accredited program, you will have the added assurance that your education will establish a career in forensic sciences, by meeting the requirements of employers in the laboratory.

### As a student in Duquesne’s Forensic Science and Law program, you will:

- Earn both your bachelor’s and master’s degrees in five years, then begin your career almost immediately
- Learn from highly regarded, leading forensic science and law professors who will help ensure your success in the Forensic Science field
- Gain in-depth knowledge in the sciences as well as the law
- Take advantage of the many benefits and resources that are directly accessible to you via Duquesne University’s ideal location near Pittsburgh, Pennsylvania
- Enjoy learning in an atmosphere marked by personal attention, hands-on training and problem-based inquiry in innovative research, allowing you to grow into your fullest potential

### CURRICULUM

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<tr>
<td>General Chemistry &amp; Lib Calculus I Biology I Data and Computer Science, Cellular &amp; Molecular Biology</td>
<td>General Chemistry &amp; Lib Calculus II Biology II Inorganic Chemistry &amp; Critical Writing Forensic Science &amp; Criminal Law</td>
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<td><strong>Organic Chemistry &amp; Lib</strong> Physics for Life Science II Basic Philosophy of Quantum Cellular &amp; Molecular Biology</td>
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<td><strong>Advanced Forensic Chemistry Lab</strong> <strong>DNA Methods/Population Genetics</strong> Ethics in Forensic Sci &amp; Prof Ethics QA and Lab Administration Management Theology Theology Forensic Investigation I Environmental Law Blame <strong>First-Year Research</strong> <strong>Ecology</strong> <strong>Ecology</strong></td>
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<td><strong>Advanced Forensic Science Lab</strong> <strong>Constitutional Criminal Procedure</strong> <strong>Serology/DNA Application Lab</strong></td>
<td><strong>Trace Evidence &amp; Environmental Forensic Science</strong> <strong>Forensic Toxicology</strong> <strong>Forensic Serology/DNA</strong> <strong>Firearms and Toolmarks</strong></td>
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<td><strong>Second Year Research</strong> <strong>Forensic Science &amp; Criminal Law</strong> <strong>Biology I</strong> <strong>Biology II</strong></td>
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For more information, contact the advisement office at 412.396.1084.

### Our Faculty

At Duquesne, you’ll find many enthusiastic, accomplished scientists who have a passion for teaching and conducting innovative research. Through these problems, we would like to introduce you to a list of the professors who will help ensure your success in the Forensic Science and Law program as well as in your future career.

**FREDERICK FOCHTMAN, Ph.D.**

Dr. Frederick Fochtman, director of the Forensic Science and Law program, has more than 15 years of experience in forensic science and has previously served as the director and chief toxicologist of the Allegheny County Medical Examiner’s Office Forensic Laboratory. His position with the county long lists up to date on new technologies and forensic techniques, which he has incorporated in Duquesne’s curriculum.

**KIRK FREDIN, R.A.**

Kirk Fredin's 27 years of law enforcement experience, including three decades as a homicide detective, as a member of the Major Crimes Unit of the Pittsburgh Police, has managed pretrial investigating hazardous, whitecollars, burglaries andAssassins. Currently, he teaches the Forensic Evidence and Forensic Science program’s Crime Scene Investigation course.

**MARTHA JONES, Ph.D.**

Dr. Martha Jones is the director of the Forensic Science and Law program. She has extensive experience in fingerprint analysis, giving me a wide range of knowledge in fingerprint analysis. She teaches the Forensic Science and Law program, as well as in your future career.

**STEVE MILLER, M.A., Ph.D.**

Dr. Steve Miller is an associate professor of forensic science. His research interests include the use of forensic DNA technologies, and evaluating laboratory policies and procedures. He teaches the Forensic Science and Law program.

**LILA LUDNICO, Ph.D.**

Dr. Lila Ludnico is a postdoctoral fellow. She is responsible for establishing the DNA laboratory for the Allegheny County Medical Examiner's Office. Her research interests include new analytical methods for the analysis of hairs, fibers and soil. Currently, she teaches the Forensic Science and Law program's DNA Methods/Population Genetics course.

**CHRISTINE TOMBOR, M.S.**

Dr. Christine Tombor is a forensic scientist with experience with the Pennsylvania State Police Laboratory System. She was responsible for establishing the DNA Laboratory for the Pennsylvania State Police, served as the Forensic DNA Manager and Technical Resource for her eighteen years, and was the ODM administrator. She was a member of a national committee to set standards in the United States and served as a national and international leader in forensic DNA analysis. Currently, she consults with many forensic science agencies in America, the United Kingdom and Canada, conducting research in the areas of DNA analysis, forensic toxicology, and forensic serology.

**STEPHANIE WEISS, Ph.D.**

Dr. Stephanie Weiss is an analytical chemist specializing in forensic science and crime scene evidence. Her research interests include new analytical methods for the analysis of hairs, fibers and soil. Currently, she teaches the Forensic Science and Law program's DNA Methods/Population Genetics course.

**LARRY WITTMANN, M.S.**

Dr. Larry Wittmann is an expert in fingerprint science. He teaches the Forensic Science and Law program's Serology/DNA Application Lab course.

**DEBORAH WRIGHT-FOGEL, Ph.D.**

Dr. Deborah Wright-Fogel is an expert in forensic science. She teaches the Forensic Science and Law program's Forensic Investigation I course.

**STEVE MILLER, M.A., Ph.D.**

Dr. Steve Miller is an associate professor of forensic science. His research interests include the use of forensic DNA technologies, and evaluating laboratory policies and procedures. He teaches the Forensic Science and Law program.

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FOR ADDITIONAL PROGRAM INFORMATION, OR TO ARRANGE A VISIT TO DUQUESNE, CONTACT:

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OR

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