

# American Academy of Forensic Sciences



## Forensic Science Education Programs Accreditation Commission (FEPAC)



## ACCREDITATION STANDARDS

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# FORENSIC SCIENCE EDUCATION PROGRAMS ACCREDITATION COMMISSION

## ACCREDITATION STANDARDS

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# FORENSIC SCIENCE EDUCATION PROGRAMS ACCREDITATION COMMISSION

## ACCREDITATION STANDARDS

### 1.0 INTRODUCTION

#### 1.1 Mission

The mission of the Forensic Science Education Programs Accreditation Commission (FEPAC) is to maintain and enhance the quality of forensic science education through a formal evaluation and accreditation system for college-level academic programs that lead to a baccalaureate or graduate degree.

#### 1.2 Purpose

The purposes of FEPAC are:

- To use the National Institute of Justice Technical Working Group for Education and Training in Forensic Science (TWGED) and the TWGED-DE curriculum guidelines to develop, to implement, to maintain, and to enhance rigorous, consensus educational standards for undergraduate and graduate forensic science programs at accredited institutions of higher education;
- To develop and to implement a set of well-defined procedures for evaluating forensic science programs against those standards; and,
- To encourage self-evaluation and continual improvement of forensic science education programs through the accreditation process.

#### 1.3 History

The American Academy of Forensic Sciences (AAFS) was established in 1948 to promote education for and research in the forensic sciences; to encourage the study, improve the practice, elevate the standards, and advance the cause of the forensic sciences; to promote interdisciplinary communications; and to plan, organize, and administer meetings, reports, and other projects for the stimulation and advancement of these and related purposes.

An assessment of forensic sciences published in 1999 by the National Institute of Justice (NIJ), entitled “Forensic Science: Review of Status and Needs,” described the educational and training needs of the forensic science community as “immense.” Among the recommendations contained in the report was the establishment of the following:

- National standards for education in forensic sciences;
- An independent, community-wide, consensus-building, standard-setting body such as a technical working group for education in forensic sciences; and
- An accreditation system for forensic science education programs.

The NIJ established a technical working group for education and training in forensic sciences (TWGED) in 2001 for the purpose of recommending sample curricular guidelines for educational programs in forensic sciences. The results of TWGED’s deliberations were delineated in a research report published in 2003, entitled “Education and Training in Forensic Sciences: A Guide for Forensic Science Laboratories, Educational Institutions, and Students.”

Acknowledging the importance of an accreditation system for academic programs built on the foundation of TWGED, the AAFS in 2002 established an *ad hoc* committee, called Forensic Education Program Accreditation Committee, to explore issues related to the development of such an accreditation system. In 2004, the Forensic Science Education Programs Accreditation Commission became an official standing committee of the AAFS and awarded its first accreditation in February 2004.

A second NIJ technical working group on education and training for digital evidence published its reports in 2007. In 2009 a committee composed of four FEPAC Commissioners and four representatives from academic and practitioner digital evidence programs began the process of incorporating standards for digital evidence forensic science programs into the FEPAC Standards.

## **1.4 Scope of Accreditation**

- FEPAC accredits forensic science education programs that lead to a bachelor's or master's degree in forensic science or in a natural or computer science with a forensic science concentration.
- An eligible forensic science program must be located in a regionally accredited institution of higher education that requires state, province, or equivalent approval.
- Forensic Science programs outside the United States are also eligible if they do not have an established forensic science education accreditation system in their jurisdiction.

FEPAC promotes academic quality through formal accreditation of forensic science programs in the United States. All programs that FEPAC accredits are located within institutions that are accredited by a regional accreditation organization. The FEPAC accreditation process and policies employ rigorous, consensus standards that assure and advance academic quality at accredited institutions.

To ensure the accreditation requirements are valid and relevant indicators of the quality of education, FEPAC reviews its Accreditation Standards and Policies & Procedures on a regular schedule. In addition, FEPAC commissioners and on-site evaluators are trained on the various aspects of the accreditation process as a measure to promote reliability in application of the standards. Education programs are also monitored through annual reports to ensure continuous compliance with quality measures.

## **2.0 OVERVIEW OF THE STANDARDS**

FEPAC accreditation standards guide and inform all aspects of the FEPAC accreditation program. The standards are divided into three parts: general standards that all programs must meet, undergraduate program standards, and graduate program standards.

## **3.0 GENERAL STANDARDS FOR ALL PROGRAMS**

### **3.1 Eligibility**

To be eligible for FEPAC accreditation or re-accreditation, a forensic science program shall document that:

1. The institution offering the program is regionally accredited, and,
2. The degree awarded upon successful completion of the program is at least a bachelor's degree in one of the following:
  - Forensic Science
  - Digital Forensics
  - A degree in one of the following disciplines with a concentration in forensic science or digital forensics:
    - Computer Science
    - Computer/Electrical Engineering
    - Information Systems

- Information Technology
  - A natural science
3. A program seeking FEPAC accreditation shall have graduated at least two classes before the Application for Accreditation (FEPAC Form 5.1) is submitted.

### **3.2 Mission, Goals, and Objectives**

The forensic science program shall have a clearly formulated mission that is a succinct representation of the program's purpose for existence, philosophies, goals, and ambitions. The mission should be appropriate to the institution and consistent with the aspiration of the forensic science community to produce a technically skilled and educated workforce. Supporting goals and educational objectives should be clearly specified, consistent with the mission, and appropriate in light of the degree(s) awarded.

### **3.3 Planning and Evaluation**

The program shall have an explicit process for:

- evaluating and monitoring its overall efforts to fulfill its mission, goals, and objectives;
- assessing its effectiveness in serving its various constituencies;
- modifying the curriculum as necessary, based on the results of its evaluation activities;
- planning to achieve its mission in the future.
- demonstrating continuous improvement.

The program shall conduct annual analytical self-evaluation that responds to the FEPAC standards. The evaluation shall include the following three components:

1. A summary statement about the program's compliance with each standard that identifies both best practices and problem areas.
2. An evaluation of the success with regard to student achievement. The evaluation system shall include at least the following elements:
  - a. Results of the student's performance in a capstone experience, forensic science standardized test results, publications, reports;
  - b. Exit questionnaire or interview of graduates;
  - c. Post-graduate assessment, such as job placement surveys;
  - d. The program must demonstrate how collected information is used in the evaluation and development of the program to meet its stated mission, goals, and objectives.
3. An operational strategy that includes:
  - at least two significant continuous improvement initiatives and
  - any remediation around potential weakness or areas needing improvement with any FEPAC Standards.

The program shall also document its record of student performance, as measured by post-graduate assessments, and any additional outcome measures the program may use to assess student progress and achievement. These records shall be maintained for at least five years after student graduation.

At least one measure of student achievement must be listed on the program's website. The measure(s) to be placed on the website are determined by the institution or program and shall be updated annually. The measures of student performance listed on the program's website must also be listed on the annual report to FEPAC.

### **3.4 Institutional Support**

The program shall receive adequate support from the institution. As with other natural or computer science programs, the financial resources available to the program shall be sufficient to allow the program to achieve its mission, goals, and objectives. Classrooms, laboratories, and other program facilities, including Accreditation Standards

equipment and supplies, shall be adequate for the size and scope of the program. Instructional and support services for the program shall also be adequate.

### **3.5 Faculty**

All faculty members shall be appropriately qualified, by education and experience, to implement the instructional program. The scientific and educational capabilities of the faculty should be distributed over the major areas of the program. Forensic science faculty includes any faculty or instructional staff member who teaches a forensic science course or a support course designed specifically for the program.

- The number of faculty members shall be sufficient to ensure regular offerings of all courses needed for the degree program. Students shall not experience delays in graduating because of lack of course offerings.
- Faculty members with working experience in a forensic science laboratory are preferred. However, over reliance on part-time or adjunct faculty members may be deemed inadequate institutional support.
- Full-time faculty teaching in graduate programs shall have demonstrated research activity appropriate to their institution's mission.
- Full-time faculty members shall oversee all coursework and ensure its applicability to the program's mission, goals, and objectives.
- The following requirements apply separately to each degree program (e.g. B.S., M.S)
  - At least 50% of the full-time forensic science faculty shall have an appropriate doctoral degree.
  - At least 50% of the forensic-science credit hours in a program (4.1.1c / 4.1.1d or 4.1.2c / 4.1.2d for undergraduate programs and 5.2 for graduate programs) must be taught by full time faculty.
- The program shall have well-defined policies and procedures to recruit, appoint, and promote qualified faculty, to evaluate the competence and performance of faculty, and to support the professional development and advancement of faculty.

### **3.6 Student Support Services**

The program shall provide adequate student support services including mentoring, academic advising, and career and placement services. The program shall also provide an environment and culture that are congruent with professional standards and behaviors.

### **3.7 Recruiting and Admissions Practices, Academic Calendars, Catalogs, Publications, Grading, and Advertising**

The program shall have policies and procedures for student recruitment and admissions that locate and select qualified individuals who have the educational prerequisites and the interest and motivation to pursue careers in forensic science. These policies and procedures shall identify the scientific background necessary and clearly define the expectations for admission to, continuation in, and completion of the program. All statements made about the program in any promotional advertising, catalogs, or other institutional publications shall be accurate. In addition, the student shall be advised of the typical suitability requirements particular to employment in the field. Specifically, students should be advised that background checks similar to those required for law enforcement officers are likely to be a condition of employment (Reference: NIJ Report NCJ 203099 – “Qualifications for a Career in Forensic Science,” pp.7-10).

If pursuing a career as a forensic DNA analyst, nine cumulative hours of course work in biochemistry, molecular biology, and genetics is required; course work in population genetics is desirable. Employers will require documentation, such as a syllabus, for course work with other titles.

The program shall ensure that all students receive timely and accurate information about the academic calendar, required coursework and degree requirements, grading policies and satisfactory academic progress, and other relevant academic policies.

All application, admission, and degree-granting requirements and regulations shall be applied equitably to individual applicants and students regardless of age, sex, race, disability, religion, or national origin.

### **3.8 Record of Student Complaints**

The program shall have a procedure for handling student complaints. At a minimum, this procedure shall include informing students of their right to file a complaint with the college or university and providing students with the institution's procedures for filing such a complaint.

The program shall maintain a record of all complaints it receives, as well as the resolution of those complaints. The program shall make this record available to members of the on-site evaluation team during the on-site visit.

### **3.9 Distance Learning and Other Alternative Delivery Mechanisms**

FEPAC considers distance learning to be one of several acceptable forms of instructional methodology. Therefore, FEPAC does not maintain separate standards for distance learning or other alternative delivery mechanisms and expects all programs to meet the same standards for accreditation, regardless of the instructional methodology used.

FEPAC acknowledges that laboratory-based instruction is integral to any science-based discipline such as forensic science. Therefore, any program that offers at least some instruction via distance learning shall demonstrate that it includes an appropriate laboratory experience for all students.

### **3.10 Professional Involvement**

The program shall provide service to the forensic science profession and to the community through some combination of communication, collaboration, consultation, technical assistance, continuing education programs, and any other means it may have for sharing the program's professional knowledge and competence. The purpose of this involvement is to provide opportunities for faculty and students to contribute to the advancement of the field of forensic science, and to maintain program currency and credibility with practitioners and forensic science laboratory administrators.

#### **3.10a Interaction with Forensic Science Laboratories**

The program shall demonstrate formal, regular interaction with at least one operational forensic science laboratory. This interaction must be on-going and documented. This relationship must take the form of two or more of the following:

1. Student internships;
2. Training opportunities where the program provides instruction to laboratory personnel;
3. Faculty serving on laboratory advisory committees;
4. Coordinated research initiatives between the laboratory and academic program;
5. Professional activities coordinated between the laboratory and the academic program;
6. Laboratory personnel serving in an advisory capacity to the academic program.

#### **3.10b Interaction with Forensic Science Organizations**

The program shall demonstrate formal, regular interaction with at least one professional forensic science organization.

## **4.0 UNDERGRADUATE PROGRAM STANDARDS**

An undergraduate forensic science program shall provide a basic foundation in the scientific and laboratory problem-solving skills necessary for success in a modern forensic laboratory. Such a program shall combine rigorous scientific and laboratory training with exposure to the breadth of forensic science disciplines, including forensic science practice, law enforcement, and ethics.

The undergraduate forensic science degree should not necessarily be viewed as a terminal degree but as a preparation for a variety of graduate and professional degrees including clinical and analytical chemistry, medicine, law, and biomedical research and advanced degrees in forensic science

## **4.1 Curriculum**

For general forensic science programs with emphasis in chemistry, biology, or toxicology, standards 4.1.1a through 4.1.1d should be followed. For forensic science programs with an emphasis on digital evidence, standards 4.1.2a through 4.1.2d should be followed.

No course may be used to satisfy more than one of the standards in 4.1.1a-d or 4.1.2a-d.

### **4.1.1 General Curriculum**

The undergraduate program in forensic science shall offer a coherent curriculum that reflects the mission and goals of the program and provides the student with the appropriate skills requisite for the bachelor's degree.

The curriculum shall, at a minimum, ensure that each student:

1. Obtain a thorough grounding in the natural or computer sciences;
2. Build upon this background by taking a series of more advanced science classes; and
3. Develop an appreciation of issues specific to forensic science through course work and laboratory-based instruction.

The following topics must be covered in the curriculum:

- Courtroom testimony
- Introduction to law
- Quality assurance
- Ethics
- Professional practice
- Evidence identification, collection, processing
- Survey of forensic science

Normally, a topic will involve multiple class meetings and may involve multiple learning modalities, such as lectures, laboratories, and demonstrations. Evaluation of student mastery of each topic may be done through a number of modalities, but the topic material must be specifically addressed in a syllabus and assessed.

The program shall have clear procedures for assessing and documenting each student's progress toward fulfillment of these objectives.

### **4.1.1a-d Specific Curricular Requirements**

The specific curricular requirements that follow are based on the fact that most forensic scientists work in areas such as drug analysis, trace analysis, firearms and toolmarks, and forensic biology. Students seeking to work in alternative areas of forensic science, such as computer analysis, latent print recovery and comparison, or crime scene reconstruction, will require other curricula or further training.

Because certain forensic science disciplines require more rigorous coursework than the minimum described below, in particular, more biology and chemistry, the program shall ensure that its curriculum is adequate to prepare students for specialization in subdisciplines of forensic science such as forensic biology, forensic chemistry, toxicology, or pattern evidence examination.

#### **4.1.1a Natural Science Core Courses**

**Biology:** at least one course, which includes an associated laboratory, in biology for science majors (4 semester hours).

**Physics:** at least two courses, each of which includes an associated laboratory, in physics for science majors (8 semester hours). Note: Calculus-based physics is preferred but not required.



Chemistry: at least four courses, each of which includes an associated laboratory. Two of the courses shall be in general chemistry for science majors (8 semester hours), and two shall be in organic chemistry for science majors (8 semester hours).

Mathematics: at least one course in differential and integral calculus (3 semester hours) and at least one course in statistics (3 semester hours).

#### **4.1.1b Specialized Science Courses**

A minimum of 12 additional semester hours in more advanced coursework in chemistry or biology. Note: These classes shall be consistent with the degree program and shall meet the needs of students specializing in sub disciplines of forensic science. At least two of the classes shall include laboratory training.

*Examples of specialized science courses include*

- Biochemistry
- Molecular biology
- Genetics
- Population genetics
- Inorganic chemistry
- Analytical/quantitative chemistry
- Physical chemistry
- Instrumental analysis
- Cell biology
- Pharmacology
- Microbiology

#### **4.1.1c Forensic Science Courses**

A minimum of 15 semester hours in forensic science coursework must be covered in the curriculum.

Of these 15 hours, 9 semester hours shall involve classes in forensic chemistry, forensic biology, physical methods, or microscopy and contain a laboratory component. Forensic science internships or independent study/research may not be used to fulfill the 9 semester hours containing the laboratory component.

#### **4.1.1d Additional Courses**

A minimum of 19 additional semester hours of advanced, upper level courses that provide greater depth in the student's area of specialization beyond an introductory level in the program are required. Students can use these additional courses to begin to specialize along a forensic science discipline track-

#### **4.1.2 General Baccalaureate Curriculum Requirements for Digital Evidence Programs**

The specific curricular requirements that follow are based on the fact that most digital forensic scientists work in areas such as electronic discovery, criminal investigation, litigation support, information security, incident response, and policy compliance. Students seeking work in alternative areas of forensic science such as drug analysis, trace analysis, firearms and toolmarks, forensic biology, or crime scene reconstruction will require other curricula or further training.

Because certain digital forensic science disciplines require more rigorous coursework than the minimum described below, particularly more computer science, mathematics and networking, the program shall ensure that its curriculum is adequate to prepare students for specialization in sub-disciplines of digital forensic science such as network forensics, audio and video forensics, mobile device forensics, anti-forensics, or malware analysis.

In addition, the curriculum must cover the following topics related to forensic science:

- Courtroom testimony
- Introduction to law

- Quality assurance
- Ethics
- Professional practice
- Evidence identification, collection, processing
- Survey of forensic science

Normally, a topic will involve multiple class meetings and may involve multiple learning modalities, such as lectures, laboratories, and demonstrations. Evaluation of student mastery of each topic may be done through a number of modalities, but the topic material must be specifically addressed in a syllabus and assessed.

#### **4.1.2a Computing and Information Science and Technology Core Courses**

A minimum of 24 semester hours of coursework shall include the following topics:

- Computer organization and architecture
- File systems and operating systems
- Computer networking
- Information, computer, network or enterprise security
- Programming theory and languages
- Statistics
- Data structures/database design
- Web or mobile application design and development
- Technical writing

#### **4.1.2b Specialized Digital Forensic Science Courses**

A minimum of 24 semester hours is required in digital forensic science course work that covers the following topics: identification, acquisition, authentication, examination, analysis, and reporting. Courses in computer forensics, network forensics and a capstone experience are required.

Internships or independent study/research courses may be used to fulfill up to three hours of this requirement.

#### **4.1.2c Forensic Science Courses**

A minimum of 15 additional semester hours in coursework required for the study of forensic science shall include the following topics:

- Survey of Forensic Science
- Legal issues
- Criminal investigation and procedure
- Quality assurance
- Testimony
- Professional ethics

#### **4.1.2d Additional Courses**

A minimum of 15 additional semester hours of advanced, upper level courses that provide greater depth in the student's area of specialization beyond an introductory level in the program are required. Additional semester hours to complete the minimum of 120 semester hours are to be defined by the individual institution-

### **4.2 Program Director**

The program director shall be a full-time faculty member at the academic institution, appropriately qualified to meet the program's stated mission, goals, and objectives, and to provide leadership in forensic science education, research, and other scholarly activities so that students are adequately prepared for forensic science practice. The program director shall meet the following requirements:

1. Minimum of a Master's or professional degree appropriate for a forensic science program, and at least three years relevant experience as a forensic-science practitioner in an operational forensic science laboratory setting (the three years not including any training period); OR earned doctorate in an

- appropriate discipline, and three years experience as an academic forensic scientist that includes appropriate educational, research and service contributions to forensic science
2. Documented management experience appropriate to the duties assigned to the position.

## **5.0 Graduate Program Standards**

A graduate forensic science program shall provide advanced education in the scientific and laboratory problem-solving skills necessary for success in a modern forensic laboratory. Such a program shall combine rigorous scientific and laboratory training with exposure to the breadth of forensic science disciplines, including forensic science practice, law enforcement, and ethics.

The graduate forensic science program shall include teaching and learning, research, and service.

### **5.1 Graduate Admission Requirements**

A bachelor's degree in a forensic or natural science, computer science, computer electronic or electrical engineering, information systems or information technology (or its equivalent coursework in a relevant field) shall be required for entrance into the appropriate graduate forensic science program. Undergraduate work should be evaluated to determine if the applicant has sufficient scientific or technical background to successfully complete the graduate program.

### **5.2 Curriculum**

The graduate program in forensic science shall offer a coherent curriculum that reflects the mission and goals of the program.

#### **5.2.1 General Curricular Requirements**

The curriculum shall, at a minimum, ensure that each student:

1. Develop an understanding of the areas of knowledge that are essential to forensic science;
2. Acquire skills and experience in the application of basic forensic science concepts and of specialty knowledge to problem solving;
3. Be oriented in professional values, concepts and ethics; and
4. Demonstrate integration of knowledge and skills through a capstone experience, such as a formal, objective tool, (e.g., the American Board of Criminalistics Forensic Science Aptitude Test), or other comprehensive examination, thesis, and/or research projects.

The program shall define clear learning objectives for each discrete component of the curriculum. The program shall have clear procedures for assessing and documenting each student's progress toward the fulfillment of these learning objectives and toward readiness for forensic science practice.

The program shall provide students with the basic knowledge necessary for effective testimony as an expert witness, and each student shall participate in practical experiences where they will render expert testimony, e.g., moot court.

For general forensic science programs with emphasis in chemistry, biology, or toxicology, standards 5.2.1a-d should be followed. For forensic science programs with an emphasis on digital evidence, standards 5.2.2a-d should be followed.

### **5.2.1a-d Specific Topic Requirements within the Curriculum**

The curriculum shall include the topics described in standards 5.2.1a-d for traditional forensic science programs.

#### **5.2.1a Core Forensic Science Topics**

The following topics must be part of the curriculum:

- Crime scene investigation
- Physical evidence concepts
- Law/science interface
- Ethics and professional responsibilities
- Quality assurance
- Analytical chemistry and instrumental methods of analysis
- Drug chemistry/toxicology
- Microscopy and materials analysis
- Forensic biology
- Pattern evidence

The emphasis on each topic should be appropriate in light of the degrees awarded. However, a minimum of 10 instructional hours must be spent on each topic.

Normally, a topic will involve multiple class meetings and may involve multiple learning modalities, such as lectures, laboratories, and demonstrations. Evaluation of student mastery of each topic may be done through a number of modalities, but the topic material must be specifically addressed in a syllabus and assessed.

#### **5.2.1b Courses in Specialized Areas**

The curriculum must include graduate-level science courses appropriate to the specialization, track(s) and/or concentration(s) offered by that institution. For example, courses covering the topics of molecular biology and population genetics, advanced analytical chemistry, toxicology, and materials analysis may be appropriate.

#### **5.2.1c Graduate Seminar**

A formal seminar, which is a requirement of a course, presented by invited experts, faculty, and/or students covering topics such as published work, original research, and other relevant topics must be offered.

#### **5.2.1d Research**

Each student is required to complete an independent research project. The research project shall culminate in a thesis or written report of publishable quality. The academic program must have written guidelines for the format of the thesis/report and for the evaluation of the oral presentation.

Each student is required to have a committee of at least three individuals who are responsible for mentoring the project. One member of the student's research committee must be a full-time faculty member of the program. The other two members can include full or part-time faculty, forensic practitioners and others with specialized knowledge. At least one member of the committee must be external to the department sponsoring the research. In addition, each student must present the results of the work orally, in a public forum, before the committee. Presentations at professional meetings do not meet this requirement.

The research shall be conducted in an environment conducive to research and scholarly inquiry, and shall provide the opportunity for faculty and students to contribute to the knowledge base of forensic science, including research directed at improving the practice of forensic science.

### **5.2.2a-d Specific Topic Requirements within the Curriculum for Digital Evidence Programs**

The curriculum shall include the topics described in standards 5.2.2a through 5.2.2d.

### **5.2.2a Core Forensic Science Topics**

The following topics must be part of the curriculum:

- Crime scene investigation
- Physical evidence concepts
- Law/science evidence
- Ethics and professional responsibilities
- Quality assurance
  
- Pattern evidence
- Hardware forensic concepts
- Software forensic concepts
- Network forensic concepts

### **5.2.2b Courses in Specialized Areas**

The curriculum must include graduate-level science courses appropriate to the specialization, track(s), and/or concentration(s) offered by that institution (e.g., network forensics, personal electronic device (PED) forensics, embedded device forensics, incident response, reverse engineering, multimedia forensics, legal issues, information security, operational management). An advanced computer and network forensics course that requires a graduate course as prerequisite must be completed.

### **5.2.2c Graduate Seminar**

A formal seminar, which is a requirement of a course, presented by invited experts, faculty, and/or students covering topics such as published work, original research, and other relevant topics must be offered.

### **5.2.2d Research**

Each student is required to have a committee of at least three individuals who are responsible for mentoring the project. One member of the student's research committee must be a full-time faculty member of the program. The other two members can include full or part-time faculty, forensic practitioners and others with specialized knowledge. At least one member of the committee must be external to the department sponsoring the research. In addition, each student must present the results of the work orally, in a public forum, before the committee. Presentations at professional meetings do not meet this requirement.

The research shall be conducted in an environment conducive to research and scholarly inquiry, and shall provide the opportunity for faculty and students to contribute to the knowledge base of forensic science, including research directed at improving the practice of forensic science.

## **5.3 Program Director**

The program director shall be a full-time faculty member at the academic institution appropriately qualified by academic experience, research qualifications, and background in program administration to meet the program's stated mission, goals, and objectives, and to provide leadership in forensic science education, research, and other scholarly activities so that students are adequately prepared for forensic science practice. The program director shall meet the following requirements:

1. Minimum of an earned Doctorate degree appropriate for a forensic science program, AND at least five years relevant experience as an academic forensic scientist that includes appropriate educational, research and service contributions to forensic science; OR at least five years relevant experience as a forensic-science practitioner, not including any training time in an operational forensic science laboratory setting
2. Documented research experience in a forensic science discipline or in methods and techniques adapted, validated and implemented by the forensic science community,
3. Documented management experience appropriate to the duties assigned to the position.