

Revised FEPAC Undergraduate Digital Evidence Standards for Public Comment

Current	Proposed
<p>4.1.2 General Baccalaureate Curriculum Requirements for Digital Evidence Programs</p> <p>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:</p> <ul style="list-style-type: none"> • Courtroom testimony • Introduction to law • Quality assurance • Ethics • Professional practice • Evidence identification, collection, processing • Survey of forensic science <p>(This list is already required for all Programs in 4.1.1)</p>	<p>4.1.2 General Baccalaureate Curriculum Requirements for Digital Evidence Programs</p> <p>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. 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.</p>

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<p>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.</p> <p>4.1.2a Computing and Information Science and Technology Core Courses A minimum of 24 semester hours of coursework shall include the following topics:</p> <ul style="list-style-type: none"> • 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 	<p>4.1.2a Natural Science Core Courses Mathematics: at least two courses that include any combination of the following 3-semester-hours courses:</p> <ul style="list-style-type: none"> • Business Calculus • Calculus I • Calculus II • Statistics I • Statistics II <p>Science Courses: at least two courses, each of which includes an associated laboratory (8-semester-hours total) from the following list:</p> <ul style="list-style-type: none"> • Physics I (Note: Calculus-based physics is preferred but not required) • Physics II • General Chemistry I • General Chemistry II • Biology I • Biology II

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<p>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.</p> <p>4.1.2c Forensic Science Courses A minimum of 15 additional semester hours is required in courses that provide greater depth in the student's area of specialization.</p> <p>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</p>	<p>4.1.2b Computer Science Courses A minimum of 12 semester hours of coursework shall include the following course & topics:</p> <ul style="list-style-type: none"> • At least one 3 semester hour course in computer programming (examples of acceptable languages include: Java, Python, C++, Ruby, etc) • At least 6 semester hours in courses that cover the following topics: <ul style="list-style-type: none"> ○ Computer organization and architecture ○ File systems and operating systems ○ Computer networking ○ Information Assurance/network security ○ Data structures/database design ○ Web or mobile application design and development ○ Microelectronic circuits <p>4.1.2c Specialized Digital Forensic Science Courses A minimum of 6 semester hours is required in digital forensic science course work that covers the following topics:</p> <ul style="list-style-type: none"> • Acquisition of data • Network/"live" forensic analysis • Exploitation of mobile devices <p>4.1.2d Capstone Event A minimum of 6 semester hours is required that should result in a capstone presentation, publication or similar scholarly event. This requirement could be met in the following ways:</p>

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<p>semester hours to complete the minimum of 120 semester hours are to be defined by the individual institution.</p>	<ul style="list-style-type: none">• Capstone Course• Internships• Independent Research <p>4.1.2e Forensic Science Courses A minimum of 6 semester hours is required in courses that provide breadth in traditional forensic sciences (e.g., DNA, Latent Prints, Trace Chemistry, Microscopy, Crime Scene Reconstruction, etc)</p>