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10 Upper College Dr., Alfred, NY 14802

BS DEGREE - CODE #2023

Wayne Bensley, Program Director Email address: <u>benslewd@alfredstate.edu</u>

The forensic science technology major is a technically rigorous fouryear program culminating in a Bachelor of Science degree. Students in this laboratory-based on-campus program will complete classwork focusing on three areas of physical evidence analysis:

- Biological applications within forensics, e.g., DNA technologies, genetic analysis, and microbiology.
- Chemical practicalities, notably: physicochemical analysis and identification of drugs, poisons, and fire debris.
- Microscopic-based examinations, including the analysis of fingerprints, firearms evidence, and trace evidence.

The forensic science technology program is fully accredited by FEPAC (Forensic Science Education Programs Accreditation Commission).

MISSION STATEMENT

The mission of the forensic science technology program at Alfred State is to provide our students with a strong foundation in the natural and physical sciences. This includes not only theoretical didactic delivery, but also a wealth of hands-on laboratory-based forensic analytical techniques.

Graduates of the program will be equipped with the knowledge and skills necessary to obtain entry-level positions as laboratory technicians, scientists, or examiners in a variety of governmental, institutional, and industrial settings, or with the background necessary for successful transfer into graduate-level programs in the forensic, biological, and chemical sciences or related subjects.

VISION STATEMENT

Through a rigorous hands-on curriculum rooted in the natural and physical sciences, the forensic science technology program at Alfred State strives to produce graduates prepared to be active contributors in a variety of career and educational options.

ADVANTAGES

- All students in the program are required to take a core course load that includes preparation in chemistry, biology, physics, and mathematics as well as more advanced training in organic chemistry, genetics, biochemistry, instrumental methods, analytical chemistry, microbiology, biotechniques, evidentiary law, public speaking, and technical writing.
- Students are trained in the usage and theory of modern instrumental techniques that are utilized by employees in crime laboratories nationwide.
- Students have the opportunity to broaden and deepen their training by selecting from a list of approved technical elective course work.
- All students in the program are required to complete either an offcampus internship or on-campus directed research experience.
 Students selecting the internship option will be exposed to a workplace setting and may complete this course at a multitude of off-campus locations offering laboratory testing services.
- Students selecting the directed research option will receive preparatory training for future graduate and/or professional school options. In addition, these students will have the opportunity to present their research at both on- and off-campus conferences and/or showcases.

OCCUPATIONAL OPPORTUNITIES

- Government crime laboratories and medical examiner's offices
- Private forensic testing laboratories
- Industrial laboratories employing chemical or biological technologists
- Quality control/quality assurance positions in testing laboratories

Examples of locations where our graduates have obtained employment include:

- New York City Office of the Chief Medical Examiner
- New York Police Department Crime Laboratory
- National Security Agency
- United States Army Criminal Investigations Division
- Hamilton County (Ohio) Coroner's Office
- Onondaga County Medical Examiner's Office
- Erie County Crime Lab
- Erie County Medical Examiner's Office
- NMS Labs

FUTURE EDUCATIONAL OPPORTUNITIES

- Graduate-Level Forensic Science Programs
- Medicine
- Dentistry
- Pharmacy
- Biology
- Chemistry
- LECOM Early Acceptance Program

Graduates of the program have been accepted into master's or doctorate level programs from several universities including:

- Syracuse University
- Cedar Crest College
- University of Buffalo
- University of Albany
- George Washington University
- Upstate Medical University
- Pittsburgh University
- Marshall University
- Virginia Commonwealth University
- West Virginia University

LECOM EARLY ACCEPTANCE PROGRAM

- Alfred State's Forensic Science Technology program has an affiliation agreement with Lake Erie College of Osteopathic Medicine (LECOM).
- As a high school senior you can apply to both Alfred State College and LECOM's Early Acceptance Program (EAP) for the College of Osteopathic Medicine of the College of Pharmacy.
- Current Alfred State Forensic Science Technology students with at least two years remaining can also apply to LECOM's EAP.
- Through the 4+4 program, students who earn a BS in Forensic Science Technology at Alfred State College will continue their education at LECOM. For more information visit <u>https://lecom.edu/academics/earlyacceptance-program/</u>.

EMPLOYMENT STATISTICS

Employment and continuing education rate of 100 percent – 100 percent are employed; 0 percent continued their education.

STUDENT ACHIEVEMENT DATA

Employment and Continuing Education Report



10 Upper College Dr., Alfred, NY 14802

| Graduation Year | 2016 | 2017 | 2018 | 2019 | 2020 |
|-------------------------|------|------|------|------|------|
| Receiving Degrees | 14 | 18 | 8 | 10 | 9 |
| Responding to Survey | 13 | 12 | 6 | 9 | 5 |
| Employed | 10 | 7 | 3 | 6 | 2 |
| Employed in Field | 10 | 3 | 3 | 5 | 2 |
| Continued Education | 3 | 5 | 5 | 3 | 3 |

Program and College Graduation Rates

| Major 500 Freshmen Enrollment | Fall 2011 7 | Fall 2012 20 | Fall 2013 16 | Fall 2014 20 | Fall 2015 22 |
|--|-----------------------|------------------------|------------------------|------------------------|-----------------|
| # Grad w/in 6 yrs. | 5 | 16 | 12 | 9 | 10 |
| 6-yr Grad Rate % | 9 71.4% | 80.0% | 75.0% | 45.0% | 45.5% |
| College (Bachelor's) | Fall 2011 | Fall 2012 | Fall 2013 | Fall 2014 | Fall 2015 |
| Freshmen Enrollment | 103 | 121 | 146 | 152 | 231 |
| # Grad w/in 6 yrs. | 52 | 85 | 99 | 100 | 93 |
| 6-yr Grad Rate % | 9 50.5% | 70.2% | 67.8% | 65.8% | 40.3% |

RELATED PROGRAMS

Biological Science Criminal Justice Health Sciences

INTERNSHIP OPPORTUNITIES

Students have completed internship experiences at various locations, including the FBI, ATF, New York State Police Crime Laboratories, multiple county and municipal crime laboratories both inside and outside of New York State, private testing and industrial laboratories, and hospital clinical laboratories.

ENTRANCE REQUIREMENTS/RECOMMENDATIONS

Required: Algebra, Geometry, Algebra 2, Biology, Chemistry

Recommended: Physics

OFFICE OF ACCESSIBILITY SERVICES

Students who believe they need a reasonable accommodation to properly participate in this program may contact Melanie Ryan in the Office of Accessibility Services. This office may be contacted by email at oas@alfredstate.edu or by phone at 607-587-4506. Please keep in mind that some accommodations may take time to implement, so students seeking accommodations are encouraged to contact OAS as early as possible.

REQUIRED EQUIPMENT

A tier 1 laptop computer is required for students entering this degree program. Laptop specifications are available at <u>www.alfredstate.edu/</u>required-laptops.

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FORENSIC SCIENCE TECHNOLOGY - BS DEGREE

TYPICAL EIGHT-SEMESTER PROGRAM

| First | | | |
|---|--|---|--|
| FRSC | 1001 | Intro to Fornsc Science | 1 |
| | | Tech I | |
| CHEM | 1984 | Chemical Principles I | 4 |
| BIOL | 1104 | General Biology I | 4 |
| COMP | 1503 | Freshman Composition | 3 |
| MATH | 1084 | Calculus I | 4 |
| | | | 16 |
| Second | | | |
| FRSC | 2001 | Intro to Frnsc Science | 1 |
| 1100 | 2001 | Tech II | |
| CHEM | 2984 | Chemical Principles II | 4 |
| BIOL | 2204 | General Biology II | 4 |
| SPCH | 1083 | Effective Speaking | 3 |
| GLST | 2113 | Global | 3 |
| | | Perspectives:Spcl | |
| | | Topic | |
| | | | 15 |
| Third | | | |
| FRSC | 3001 | Topics in Forensic | 1 |
| 1100 | 3001 | Science I | I. |
| CHEM | 3514 | Organic Chemistry I | 4 |
| PHYS | 1044 | College Physics I | 4 |
| LITR | xxx3 | Literature Elective | 3 |
| XXXX | xxx3 | General | 3 |
| 70000 | 1000 | Education Elective | 0 |
| | | | 15 |
| Fourth | | | |
| FRSC | 4001 | Topics in Forensic | 1 |
| FROC | 4001 | Science II | 1 |
| CHEM | 4524 | Organic Chemistry II | 4 |
| PHYS | 2044 | College Physics II | 4 |
| MATH | 2124 | Statistical Methods & | 4 |
| | 2124 | Analysis | - |
| XXXX | xxx3 | General Education | 3 |
| | | Elective | |
| | | | |
| | | | 16 |
| Fifth | | | 16 |
| Fifth | 1003 | | |
| Fifth CJUS | 1003 | Intro to Criminal Justice | 16 3 |
| | 1003 7784 | Intro to Criminal Justice | |
| CJUS | | Intro to Criminal | 3 |
| CJUS CHEM | 7784 | Intro to Criminal Justice Biochemistry | 3 |
| CJUS CHEM | 7784 | Intro to Criminal Justice Biochemistry Principles of | 3 |
| CJUS CHEM BIOL | 7784 5254 | Intro to Criminal Justice Biochemistry Principles of Microbiology | 3 4 4 |
| CJUS CHEM BIOL COMP | 7784 5254 5703 | Intro to Criminal Justice Biochemistry Principles of Microbiology Technical Writing II | 3 4 4 3 |
| CJUS CHEM BIOL COMP XXXX | 7784 5254 5703 | Intro to Criminal Justice Biochemistry Principles of Microbiology Technical Writing II | 3 4 4 3 3 |
| CJUS CHEM BIOL COMP XXXX Sixth | 7784 5254 5703 xxx3 | Intro to Criminal Justice Biochemistry Principles of Microbiology Technical Writing II Technical Elective | 3 4 4 3 3 17 |
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| BIOL | 5013 | Biotechniques | 3 14 |
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Students pursuing a career in forensic biology/DNA are advised that the following three courses are required at the undergraduate level: Biochemistry, Genetics, and Molecular and Cell Biology.

TECHNICAL STANDARDS

It is essential that students in this degree program are able to fully and safely participate, with or without reasonable accommodation, in all classroom, laboratory, field, internship, and research experiences required for completion of the program. Students in this degree program should be able to:

- Function in a safe manner, not placing themselves, faculty, staff, or other students in jeopardy.
- Appropriately and safely use standard laboratory equipment, materials, and instrumentation to include possession of fine motor skills and mobility.
- Make sensory visual and auditory observations during, and interpret data from, all required laboratory assignments.
- Communicate effectively, both orally and in writing.

In addition, this degree program requires students to complete either an offcampus internship experience or a research project. Students in this degree program are expected to meet the following professional standards:

- Maintain confidentiality in professional workplace settings.
- ٠ Maintain professional composure at all times.

Be advised that a prior felony conviction may impede a student's ability to participate in an internship experience. In addition, students desiring careers within the field of forensic science should be aware that they will likely have to undergo background checks prior to being offered employment or an internship at a crime laboratory. These background checks are often similar to those required for law enforcement officers and may include questions regarding drug usage, criminal history, driving records, credit history, personal associations, and/or past work performance. In addition, they may include drug tests, polygraph examinations, and physical and medical examinations.

GRADUATION REQUIREMENTS

- Minimum of 122 total semester credit hours
- Completion of at least one course from seven of the 10 SUNY General Education categories
- 30 credits of general education



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- 60 Liberal Arts & Science credits
- Minimum of 45 upper-division semester credit hours
- Minimum of 30 upper-division semester credit hours in residence
- 3 credit hours of research or internship
- 2.0 cumulative grade point average
- Grade of "C" or higher in courses with BIOL, CHEM, and FRSC prefixes
- Completion of a "mock trial" capstone experience
- Approval of department faculty

All laboratory-based courses for this academic program must be completed in an in-person format. Laboratory-based courses in the on-line format will not fulfill degree requirements.