

UNIVERSITY SENATE

UNIVERSITY AT ALBANY
STATE UNIVERSITY OF NEW YORK

Introduced by: Undergraduate Academic Council

Date: 15 December 2008

Chemistry/Comprehensive Forensic Chemistry Emphasis: B.S

IT IS HEREBY PROPOSED THAT THE FOLLOWING BE ADOPTED:

1. That the proposed major in chemistry with a Comprehensive Forensic Emphasis be approved.
2. That the major become effective with the Fall, 2009 semester.
3. That this bill be forwarded to Interim President George Philip for his approval.

Degree Requirements for the Major in Chemistry

Chemistry/Comprehensive Forensic Chemistry Emphasis: B.S.: (combined major and minor sequence) (82 credits): A Chm 120 or 130, 121 or 131, 124, 125, 220, 221, 222, 223, 225, 350 or 444, 351 or 445, 352Z, 417, 420, 430, 442 or 342, 450 and 451; and A Mat 108, 111 or 112 or 118, 113 or 119, and 214; A Phy 140 or 141, 145, 150 or 151, 155; A Bio 110*; and nine (9) additional credits to be chosen from A Chm 425, A Chm 426, A Chm 455, R Crj 202, R Crj 310, R Crj 353, R Crj 404, R Crj 405.

*Please note the Department of Biology is in the process of changing some of their course numbers. For this catalog copy of requirements, both the introductory lecture and lab are required (currently listed as A Bio 110).

University at Albany – State University of New York

College of Arts and Sciences

Course Action Form

Proposal No. 08-090

Please mark all that apply:

<input checked="" type="checkbox"/>	New Course; new emphasis, see attached	Revision of:	<input type="checkbox"/>	Number	<input checked="" type="checkbox"/>	Description
<input type="checkbox"/>	Cross-Listing		<input type="checkbox"/>	Title	<input type="checkbox"/>	Prerequisites
<input type="checkbox"/>	Shared-Resources Course		<input type="checkbox"/>	Credits		
<input type="checkbox"/>	Deactivate / Activate Course (boldface & underline as appropriate)		<input checked="" type="checkbox"/>	Other (specify):	<u>See below</u>	

Department: Chemistry To be effective (semester/year): Spring 2009

Course Number Current: n/a New: n/a Credits: n/a

Course Title: n/a

Course Description to appear in Bulletin:

Other (specify): New emphasis, Comprehensive Forensic emphasis for B.S. Chemistry major.

Prerequisites statement to be appended to description in Bulletin:

n/a

If S/U is to be designated as the only grading system in the course, check here:

This course is (will be) cross listed with (i.e., CAS ###):

Please see attached

This course is (will be) a shared-resources course with (i.e., CAS ###):

Explanation of proposal:

Please see attached

Other departments or schools which offer similar or related courses and which have certified that this proposal does not overlap their offering:

Chair of Proposing Department (TYPE NAME/SIGN)

Date

Charles P. Scholes

6/5/08

Approved by Chair(s) of Department(s) having cross-listed course(s)
(PRINT NAME/SIGN)

Date

Dean of College (PRINT NAME/SIGN)

Date

Albert Millis, BIO (see page 2)
JoAnne Malatesta, CRJ (see pages 10-12)

5/21/08

Chair of Academic Programs Committee (PRINT NAME/SIGN)

Date

Dean of Graduate (Undergraduate) Studies (PRINT NAME/SIGN)

Date



Date: May 21, 2008

To: Jason Shepard
Department of Chemistry

From: Albert Millis, Chair *Albert Millis*
Department of Biological Sciences

Re: Forensic Chemistry Accreditation Proposal

I am providing this letter of support of the Department of Chemistry's proposal to adjust its B.S. degree with a forensic emphasis curriculum to align with the accreditation standards of the *American Academy of Forensic Sciences, Forensic Science Education Programs Accreditation Commission*. The Department of Biological Sciences has agreed to collaborate with the Department of Chemistry and looks forward to contributing to the proposed program emphasis.

The Department of Biological Sciences and the Department of Chemistry have a long history of working together, and in that vein, we are happy to lend our support by providing access to your students in terms of holding space in our Bio 110, General Biology course for your majors. Per our discussions, we expect that a maximum of 10 students would need access to this course, beginning Fall 2009. It is our understanding that by doing so, our department will help align your proposed curriculum with the accreditation standards you desire. We anticipate that there may be other upper level Biology courses, such as ABio 522, Forensic DNA Analysis Laboratory, and ABio 575, Forensic Biology, which might be of value to your students as well, and would consider access to these resources on an individual basis.

Our departments have many points of mutual interests, one of which is the Forensic Initiative that serves both of our programs. If there is anything additional that the Department of Biological Sciences can do to help with addressing your curriculum concerns, please do not hesitate to contact me directly.

Department of Chemistry

B.S .Chemistry Major – Comprehensive Forensics Emphasis

Proposal: To provide students within the B.S. degree in Chemistry, a new forensic emphasis that is aligned with the requirements outlined by the American Academy of Forensic Scientists/Forensic Science Education Programs Accreditation Commission (AAFS/FEPAC).

Proposed by: The University at Albany, Department of Chemistry

Proposed first enrollment: January 2009

Rationale: Currently, the Department of Chemistry's curriculum aligns with the curriculum required by the American Chemical Society (ACS). The current forensic emphasis curricula, and the new proposed emphasis, also meet the ACS criteria. However, the Department of Chemistry believes that having an emphasis that aligns with FEPAC accreditation would raise the stature of our program to the highest standard possible in the forensics community. With this shift in status, we anticipate enrollments would increase, and students graduating from this program would not only get jobs, but be in demand by forensics agencies because of their high level of competency. This accreditation would enhance our current collaborations with the New York State Police Forensics Investigation Center (NYSP FIC) as well as position us for broader collaborations and funding opportunities. Our Department anticipates that FEPAC accreditation will provide an external means to constantly evaluate, develop, and grow our program. In addition, in terms of admissions and enrollment, accreditation will help attract quality students and increase our students' competency.

FEPAC accreditation for science curricula is rare among academic institutions. The curriculum is demanding, but this rigor generates prestige and distinction in the field of forensics for both the academic institution and the graduates of the program. Currently, only seven (7) B.S. programs (Addendum A) in the nation are both accredited by FEPAC in forensic chemistry and align with the ACS standards. If we were to take the initiative to acquire FEPAC accreditation for our new emphasis, the University at Albany would have the unique position of being the only FEPAC accredited chemistry program that also meets ACS criteria in the northeast. For our program to meet the FEPAC academic accreditation standards, all coursework is already in existence at the University at Albany, and NO new coursework would need to be developed. Our feedback from the forensic science community is that, first and foremost, our department's curriculum must be designed to foster chemists, as forensic scientists are first and foremost analytical chemists, who apply their chemical knowledge and abilities to the field of forensic science. Indeed, the attribute most lacking in recent forensic chemistry graduates is cited as a fundamental grasp of the core principles of chemistry, and in this spirit, we believe strongly in maintaining our standard ACS curriculum.

Background: Our current B. S. degree in Chemistry with a forensic emphasis just finished its third academic cycle, with enrollment data in the ACHM 450/550A Forensic Chemistry course showing a year-to-year increase that parallels the high level of student interest in this track. The actual enrollment numbers for the two semester, grad/undergrad course are as follows:

Department of Chemistry Forensic Chemistry Course Enrollment		
Term	BS	MS
Fall 2005- Spring 2006	6	-
Fall 2006 – Spring 2007	9	2
Fall 2007 – Spring 2008	11	2
Fall 2008	10	4
Spring 2008 total Chemistry majors	93	
Spring 2008 total Chemistry forensics majors	33	

In the 2007-08 academic cycle, we initiated our first internships in forensic chemistry, with two students joining the New York State Police Forensics Investigation Center as interns. These internships were unqualified successes. Feedback from the FIC regarding these interns has been extremely positive reinforced by the fact that our undergraduate intern was hired full-time at the FIC, prior to graduation, and finished her final semester for her degree while working full-time. We currently have our third and fourth interns now gaining valuable experience at the FIC. Based on our discussions with the NYSP FIC, similar internships, approximately two per semester, will be available for our students.

At issue: We are submitting this proposal through University Governance because, by creating a new forensics emphasis to meet FEPAC requirements, we will be developing an emphasis requiring 82 credits. This credit requirement is inordinately high and must receive University at Albany approval prior to implementation.

Program Description:

Below is a comparison of our Chemistry B.S. degree (forensic emphasis) with the proposed Comprehensive forensics emphasis:

Current B.S. degree

Forensic emphasis

General Chem (8 total)

Chm 120 or 130 (3)
Chm 124 (1)
Chm 121 or 131 (3)
Chm 125 (1)

Organic Chem (8 total)

Chm 220 (3)
Chm 222 (1)
Chm 221 (3)
Chm 223 (1)

Physics (8 total)

Phy 140 (3)
Phy 145 (1)
Phy 150 (3)
Phy 155 (1)

New Comprehensive B.S. degree

Forensic emphasis

General Chem (8 total)

Chm 120 or 130 (3)
Chm 124 (1)
Chm 121 or 131 (3)
Chm 125 (1)

Organic Chem (8 total)

Chm 220 (3)
Chm 222 (1)
Chm 221 (3)
Chm 223 (1)

Physics (8 total)

Phy 140 (3)
Phy 145 (1)
Phy 150 (3)
Phy 155 (1)

FEPAC requires (1) course in diff./integral calc. and (1) course in statistics - (6) total

Math (7 total)

Mat 112 (4)
Mat 108-statistics (3)

Math (7 total)

Mat 112 (4)
Mat 108-statistics (3)

FEPAC requirements (12) credit hours specialized coursework, including (2) labs

Specialty Courses (13 total)

Chm 225 (3)lab
Mat 113 (4)
Chm 420 (3)
Chm 430 (3)lab

Specialty Courses (13 total)

Chm 225 (3)lab
Mat 113 (4)
Chm 420 (3)
Chm 430 (3)lab

FEPAC requirements (19) credit hours in advanced courses

Advanced courses (19 total)

Mat 214 (4)
Chm 442 (or 342) (3)
Chm 350 (or 444) (3)
Chm 351 (or 445) (3)
Chm 352Z (3)
Chm 417 (3)

Advanced Courses (19 total)

Mat 214 (4)
Chm 442(or 342) (3)
Chm 350 (or 444) (3)
Chm 351 (or 445) (3)
Chm 352Z (3)
Chm 417 (3)

Forensic courses (6)

Chm 450 Forensic (3)
Chm 451 Forensic (3)

FEPAC rqmt (15) cr. in forensics

Chm 450 Forensic (3)
Chm 451 Forensic (3)

Forensic electives *see below (9)

Bio 110 Gen Bio I (4)

69 credits total

82 credits total

Additional Forensic Chemistry elective options (9 credits)

Chm 425	Chemistry Research	(up to 6 credits)
Chm 455	Forensic Internship	(up to 6 credits)
Crj 202	Introduction to Law and Criminal Justice	(4)
Crj 310	Policies of Crime in Heterogeneous Societies	(3)
Crj 353	American Criminal Courts	(3)
Crj 404	Crime and the Mass Media (Prereq. Crj 202)	(3)
Crj 405	Drugs, Crime and Criminal Justice (Prereq. Crj 202)	(3)

Major Academic Pathway: A Major Academic Pathway draft, outlining the curriculum to be undertaken by our students, is included in Addendum B.

Evidence for Demand: When the concept for the current forensics emphasis for our chemistry major was considered, it was in response to demand by the forensics community for forensic scientists with an educational foundation in *chemistry*. Specifically, the New York State Police Forensics administrators felt so strongly about the demand that they partnered with the University to develop and outline the curriculum for this emphasis. In the Northeast region alone, thirty-two crime laboratories are accredited by American Society of Crime Laboratory

Directors & the Laboratory Accreditation Board. The 32 accredited laboratories include state, local agency, federal, and private laboratories. With the FEPAC credential, we could become the feeder institution to supply many of these central agencies with appropriately trained forensic chemists. In addition, with the high degree of proficiency required to perform forensic techniques, private laboratories would also find our graduates desirable candidates for employment.

Costs and Resources: All courses are offered currently. No increase in instructional resources is required.

Impact on Current Programs:

The Department of Chemistry B.S. program: Forensic Chemistry majors now account for 35% of our majors. As interest in this program grows, we expect the same will happen with our enrollment.

Other University programs: Other programs affected by our proposed new emphasis include Criminal Justice and Biology, as students in this proposed track would be taking courses from these programs. Accordingly, letters of support from both the Department of Criminal Justice and the Department of Biological Sciences are in Addendum C.

The New York State Police: A letter of support from this collaborating organization in the form of a Memorandum of Understanding is attached. Please see Addendum D.

Resolution: While we acknowledge that the current FEPAC credit requirement could be challenging for our students, we would like to include additional metrics in support of our proposal. First, the proposed FEPAC accredited curriculum is designed intentionally to meet ACS certification standards, and is also designed to be modular. Should a student pursuing the forensic degree emphasis decide to reconsider their academic path, they have the option to fall back into the ACS accredited B.S. in chemistry with no penalty. Second, our faculty administered a poll to our 11 B.S. graduates from 2008 who took the Spring ACHM 451 Forensic Chemistry course. The students were asked their preference for taking the current 69 credit program as opposed to the new emphasis that aligns with FEPAC accreditation. The survey yielded 10-1 in favor of the FEPAC curriculum (and incidentally, the one student opposed has applied to the M.S. forensic chemistry track here at the University at Albany). Upon further questioning, the students felt the application of the science to an occupation and career path was extremely desirable and attractive to them: to summarize, they wanted more forensics-related coursework. The major component necessary for FEPAC accreditation that is lacking in our science-intensive curriculum is a focus on the legal aspects of forensic science, including law and courtroom testimony. In collaboration with our nationally recognized Department of Criminal Justice here at the University at Albany, we intend to include coursework in criminal justice that satisfies the remaining FEPAC accreditation standards. The Assistant Dean of the Criminal Justice Department, Dr. Joanne Malatesta, has provided a letter of support in this endeavor, specifically stating that seats will be reserved for our students in the forensic emphasis track.

Both the B.S. and M.S. programs in Forensic Chemistry and the M.S. in Forensic Molecular Biology (currently approved for a full 5-year accreditation from FEPAC) were developed under

the auspices of a \$1.5 million Department of Justice grant. Our programs have benefited immensely from said grant, helping our department renovate and equip a forensic laboratory that mirrors the FIC laboratories. Our forensic laboratory is one of the best equipped in the nation, and is an enormous asset to the program and our department. One final point, the Chemistry Department would like to note, that for the first time, we have received applications to our M.S. forensic program from applicants who attend other FEPAC accredited universities, and feel that is an indication of our program's increased visibility.

Future Developments: The Department of Chemistry also expects to apply for FEPAC accreditation for its M.S. degree in Forensic Chemistry

Summary: The accredited B.S. degree program with a forensic emphasis is of mutual benefit to all parties concerned. The students are served by participation in a program that stimulates their desire for knowledge, while providing undergraduate internship opportunities for which they can receive academic credit, which positions them on an exciting career path. The University gains prestige and greater exposure from accreditation, along with increased student interest and enrollment. The NYSP FIC gets a local pool of applicants to draw from, for both internships and full-time employment, and will experience gains in reputation for its association with an accredited program. The Chemistry Department enjoys increased enrollment and student enthusiasm, as well as the distinction that will come with accreditation.

Addendum A

FEPAC ACCREDITED B.S. Chemistry/Forensics

Cedar Crest College, Allentown, PA: Full Accreditation (5-year term) for the B.S. Degree in Chemistry, Biochemistry, and Biology with a concentration in Forensic Science (01/2010).

Florida International University, Miami, FL: Full Accreditation (5-year term) for the Certificate Programs with the B.S. Degree in chemistry or biology (01/2009).

Metropolitan State College of Denver, Denver, CO: Full Accreditation (5-year term) for the B.S. Degree Program in Chemistry with a concentration in Criminalistics (01/2009).

University of Mississippi, University, MS: Full Accreditation (5-year term) for the B.S. Degree in Forensic Chemistry (01/2012).

Ohio University, Athens, OH: Full Accreditation (5-year term) for the Bachelor of Science in Forensic Chemistry Program (01/2012).

West Virginia University, Morgantown, WV: Full Accreditation (5-year term) for the B.S. Degree - Forensic and Investigative Science Program (01/2010)

University of North Texas, Denton, TX: Conditional Accreditation (one year) for the Certificate Programs in Conjunction with the Bachelor of Science in Biochemistry, Biology, and Chemistry (01/2008 - 01-2009)

Major Academic Pathway (MAP)
Chemistry, Forensic Chemistry Emphasis Bachelor of Science

Fall Semester 1 (15 cr.) AChm 120/130 AChm 124 (lab) APhy 140/141 APhy 145 (lab) AMat 112/118 Humanities	NS NS MS HU	Spring Semester 1 (15 cr.) AChm 121/131 AChm 125 (lab) APhy 150/151 APhy 155 (lab) AMat 113/119 Art	AR	Summer 1 Consider coursework Look for summer job in chemistry
Fall Semester 2 (15 cr.) AChm 220 & 222 (lab) AMat 214 Bio 110 CrJ 202		Spring Semester 2 (14 cr.) Chm 221 & 223 (lab) Chm 225 Mat 108 Lower level writing UUnl 205 or 206 (1 cr.)	LL WI IL	Summer 2 Consider study abroad options or research opportunities
Fall Semester 3 (15 cr.) AChm 350 AChm 352Z Global & Cross-Cultural Foreign Language 1 Social Science Gen Ed	ULWI GC SS	Spring Semester 3 (15 cr.) AChm 351 AChm 430 Regions Beyond Europe Foreign Language 2 Social Science	BE FL SS	Summer 3 Summer internship or research
Fall Semester 4 (15 cr.) AChm 450 AChm 442 AChm 420 US Historical Perspectives Oral discourse Gen Ed	US OD	Spring Semester 4 (16 cr.) AChm 451 AChm 417 Europe Diversity and Pluralism Electives AChm 199 (1 cr.)	EU DP	<u>Advanced forensic elective options</u> CrJ 310 (DP) CrJ 353, 404, 405 Forensic internship Chemistry research

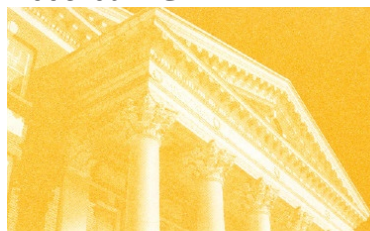
General Education Requirements*Disciplinary Perspectives***AR** Arts (min. 3 crs.)**HU** Humanities (min. 3 crs.)**NS** Natural Sciences (min. 6 crs.)**SS** Social Sciences (min. 6 crs.)*Cultural and Historical Perspectives***US** U.S. Historical Perspectives (min. 3 crs.)**EU** Europe (min. 3 crs.)**BE** Regions beyond Europe (min. 3 crs.)**GC** Global & Cross-Cultural Studies (min. 3 crs.)**DP** U.S. Diversity and Pluralism (min. 3 crs.)*Communication and Reasoning Competencies***IL** Information Literacy (min. 1 course)**OD** Oral Discourse (min 1 course)**WI** Written Discourse:--**LL** Lower-level writing (min 1 course)--**UL** Upper-level writing (min 1 course)**MS** Mathematics and Statistics (one semester of collegiate study, or the equivalent, of math at or above the level of pre-calculus

and/or probability, stats and data analysis

FL Foreign Language (two semesters of collegiate study, or the equivalent, of

**Courses selected in the major, minor or as a foreign language electives may also satisfy General Education requirements

Addendum C



UNIVERSITY^{AT}ALBANY
State University of New York

School of Criminal Justice

April 16, 2008

To: Jason Shepard
Assistant Professor
Department of Chemistry
University at Albany

From: JoAnne Malatesta
Assistant Dean
School of Criminal Justice
University at Albany

Dear Dr. Shepard:

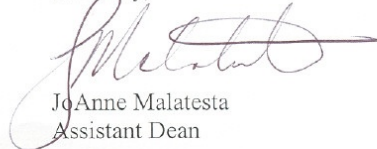
I am writing today in strong support of the B.S. degree in Chemistry with a forensic emphasis that is proposed for accreditation. The School of Criminal Justice has agreed to partner with the Chemistry Department and looks forward to working with them to build a strong major.

As we have discussed previously, the School of Criminal Justice is very interested in this program and is prepared to assist in the implementation of core coursework. Specifically, we will guarantee a minimum of 6-8 seats in our Introduction to Law (CRJ202) course for students pursuing this major.

Additionally, we are looking forward to working with you to examine upper level coursework that might be applicable to the major. Currently, we have agreed to hold space in CRJ301 and CRJ353 for Chemistry majors with a forensic emphasis. We anticipate that there will be other Criminal Justice courses that might be of value as well, such as upper division courses in law and criminal courts.

We are excited about this endeavor and strongly supportive of the proposed major. If there is anything additional that the School of Criminal Justice can provide at this time, please feel free to contact me directly.

Sincerely,



JoAnne Malatesta
Assistant Dean

Draper Hall
135 Western Avenue
Albany, NY 12222
518-442-5210 Fax: 518-442-5212



MEMORANDUM OF UNDERSTANDING

The University at Albany

and



The New York State Police (Division of State Police)

A PARTNERSHIP BETWEEN THE UNIVERSITY AT ALBANY AND THE NEW YORK STATE POLICE

Whereas, both the University at Albany and the Division of State Police have missions which embody the ideal of service to the people of the State of New York; and

Whereas, the University at Albany considers the development of partnerships with academic, business, cultural, and governmental organizations to be an integral component of its educational mission. Likewise, the Division of State Police works to achieve its mission to serve, protect, and defend the people while preserving the rights and dignity of all by creating partnerships with individuals, organizations, and communities throughout the State; and

Whereas, crime exacts a serious toll on society in that it victimizes people of all ages and abilities and economically burdens individuals, government, and private enterprise with billions of dollars worth of losses each year. Accordingly, the reduction of crime – in both residential and business communities and along the technology infrastructure statewide – remains one of New York State's top public policy priorities; and

Whereas, the University at Albany and the Division of State Police have complementary high technology facilities and intellectual resources:

A leading academic and research institution, the University has a number of nationally acclaimed research centers and schools including the Centers for Advanced Technology, Comparative Functional Genomics, Technology in Government, and Social and Demographic Research; the Schools of Criminal Justice, Information Science and Policy, and Public Health; and the Departments of Computer Science and Biological Sciences.

Recognized as one of the leading law enforcement agencies nationwide, the Division operates the New York State Police Forensic Science Laboratory System consisting of a full-service, state-of-the-art Forensic Investigation Center and three regional forensic laboratories throughout the State. Division experts at these facilities provide a full-spectrum of forensic science, investigative and crime laboratory services in areas such as biosciences, drug chemistry, forensic identification and imaging, trace evidence, toxicology, computer crimes, and firearms identification; and

Whereas, the University at Albany and the Division of State Police have a mutual interest in developing new approaches and leading technologies to improve public protection and strengthen the criminal justice system in New York State. The development of such practical solutions and technological innovations will provide the State's criminal justice agencies with the tools needed to advance their respective missions of public service; and

Whereas, the Division of State Police has a wide range of law enforcement responsibilities including forensic investigative analysis in areas such as DNA typing and technology-enabled crime, violent and non-violent criminal investigations, narcotics enforcement, and highway safety and traffic enforcement initiatives; and

Whereas, the University at Albany has a substantial number of degree programs and course offerings which could be used to provide sworn officers, forensic scientists, technicians and other State Police personnel with invaluable skills and professional development opportunities in criminal justice, biological sciences, computer and information sciences, psychology and sociology; and

Whereas, the President of the University at Albany and the Superintendent of the Division of State Police believe that a formal Memorandum of Understanding will provide the structure and impetus necessary to establish a partnership whereby both the University and the Division can cooperatively pursue innovative solutions for the law enforcement challenges of tomorrow; and

Whereas, the Division of State Police will be able to further advance its mission by partnering with the University at Albany and gain access to valuable resources including a highly-skilled and renowned faculty, a talented and diverse student population, an extensive high-tech infrastructure, state-of-the-art research centers, and a broad array of industrial partners; and

Whereas, the University at Albany will be able to advance its mission from an alliance with the Division of State Police in that researchers will be able to conduct meaningful research in a practical setting and students – both undergraduate and graduate – will be able to gain invaluable career experience. In addition, the University will be able to provide qualified Division experts with appropriate University and/or Research Foundation titles, and in so doing, utilize their expertise in an academic setting; and

Whereas, the University at Albany has extensive relationships in the private sector with corporate partners that have research, development and technology deployment expertise and integrated advanced technologies which could be used for public protection and criminal justice applications; and

Whereas, both the University at Albany and the Division of State Police wish to develop a partnership which provides both organizations an opportunity to maximize their unique resources by engaging in joint public service and research projects, as well as mutually beneficial educational programs;

Therefore be it resolved, that the University at Albany and the Division of State Police wish to facilitate the aforementioned goals by agreeing to the following:

- 1) The University and the Division will explore possible joint ventures consistent with their missions of public service. The University and the Division will designate appropriate staff to identify potential projects and relevant issues associated with those projects. Upon identifying a viable project, a working group comprised of University and Division personnel will be formed to develop a comprehensive action plan.
- 2) The University and the Division will pursue external funding opportunities from federal, state, and private sources to advance mutually agreed upon research and development goals. Appropriate staff from the University and the Division will be designated in each instance to coordinate and facilitate the application for such funds.
- 3) The University and the Division will work cooperatively to promote joint training, distance learning, and continuing education initiatives which fulfill the program needs of the Division and utilize the expertise of both the University and the Division. The University and the Division will designate appropriate staff to identify areas of need, and in so doing, work to develop appropriate educational programming.
- 4) The University and the Division will explore and work cooperatively to develop technologies for applications in criminal justice and public protection by supporting the research, development, demonstration and deployment of such technologies through the University's technology transfer program.
- 5) The University and the Division will work to create student internships (paid and/or unpaid) which will not only benefit the Division, but will also afford students with practicum experiences and training in a real-life setting. The Division will identify applicable program areas where internships would be beneficial.
- 6) The University and the Division will jointly appoint an advisory committee comprised of a diverse group of individuals with experience in criminal justice policy, applications of technology for law enforcement, government and/or private enterprise. The composition of the advisory board shall be mutually agreed upon by the University and Division.
- 7) The University and the Division will review this Memorandum of Understanding on the anniversary date of its signing to assess whether the goals stated herein are being met or are in need of modification.
- 8) Either the University or the Division may elect to terminate this Memorandum of Understanding at anytime without reason or justification.

Therefore be it resolved, this Memorandum of Understanding shall take effect immediately.