The City University of New York
CURRICULUM DATA TRANSMITTAL SHEET

DEPARTMENT: **PHYSICAL SCIENCES**   DATE: **Spring 2019**

Title of Course or Degree Change: **A.S. SCIENCE OF FORENSICS**

Change(s) Initiated: (Please Check)

___ Closing of Degree   X Change in Degree or Certificate Requirements
___ Closing of Certificate   ___ Change in Degree Requirements (adding concentration)
___ New Certificate Proposal   ___ Change in Pre/Co-Requisite
___ New Degree Proposal   ___ Change in Course Designation
___ New Course   ___ Change in Course Description
___ New 82 Course   ___ Change in Course Title, Numbers Credit and/or Hour
___ Deletion of Course   ___ Change in Academic Policy
                                        _ Pathways Submission:
                                        _ Life and Physical Science
                                        _ Math and Quantitative Reasoning
                                        _ A. World Cultures and Global Issues
                                        _ B. U.S. Experience in its Diversity
                                        _ C. Creative Expression
                                        _ D. Individual and Society
                                        _ E. Scientific World

___ Other (please describe):

PLEASE ATTACH PERTINENT MATERIAL TO ILLUSTRATE AND EXPLAIN ALL CHANGES

I.   DEPARTMENTAL ACTION
Action by Department &/or Departmental Curriculum Committee, if required:

Date approved: *3/14/19*   Signature, Committee Chairperson: _(signature)_

Signature, Department Chair: _(signature)_   Date: *3/14/19*

<u>Appended are:</u>

1. Proposed Degree Requirements A.S. SCIENCE OF FORENSICS
2. Proposed 4 semester Degree Map A.S. SCIENCE OF FORENSICS
3. List of Proposed Changes A.S. SCIENCE OF FORENSICS
4. Current catalog description A.S. SCIENCE OF FORENSICS (Marked-up to show add/drop changes)
5. Proposed catalog description A.S. SCIENCE OF FORENSICS

<u>Reason for Changes:</u>

To adhere to and to comport with changes to: Math Placement; Math Ready; Math Ready to Calculus Ready sequence; Calculus Ready through Calculus sequence; Hidden Pre-requisite; Degree in 60 Credits; and Degree in 4 Academic Semesters policies and practices.

Degree Requirement A.S. SCIENCE OF FORENSICS

CUNY's General Education requirements: [excluding math and science requirement]

One year of English Composition: ENG 12 & ENG 24 (6 crs.)

Group A: One semester World (3 crs.)

Group B: One semester United States (3 crs.)

Group C: One semester Creative (3 crs.)

Group D: One semester Individual (3 crs.)

18 credits

Department Degree Requirements:

Science Requirements:

BIO 1300– General Biology I (4 crs.)

BIO 1400– General Biology II (4 crs.)

CHM 1100 – General Chemistry I (4 crs.)

CHM 1200 – General Chemistry II (4 crs.)

CHM 3100 – Organic Chemistry I (5 crs.)

CHM 3200 – Organic Chemistry II (5 crs.)

PHY 1300 – Advanced General Physics I (4 crs.)

PHY 1400 – Advanced General Physics II (4 crs.)

34 credits

Mathematics Requirements:

Two of the following:

MAT 0900 Algebra (3 crs)

MAT 1000 Trigonometry (3 crs)

MAT 1400 Pre-Calculus (3 crs)

MAT 1500 Calculus I (3 crs) [Recommended]

MAT 1600 Calculus II (3 crs) [Recommended]

06 credits

Elective Credits [Recommend MAT course]

02 credits

Total 60 credits

A.S. SCIENCE OF FORENSICS
Degree Map

Semester 1 (14 Credits)		Semester 2 (17 Credits)	
• BIO 13 - Biology I	4 crs.	• BIO 14 - Biology I	4 crs.
• CHM11 - Chemistry I	4 crs.	• CHM12- Chemistry II	4 crs.
• ENG12- English Composition I	3 crs.	• ENG24 English Composition II	3 crs.
• Group A or B or C or D	3 crs.	• MAT [MAT 15 Recommended]	3 crs
• MAT	3 crs	• Group A or B or C or D	3 crs.

Semester 3 (14 credits)		Semester 4 (14 credits)	
• CHM 31 Organic Chemistry II	5 crs.	• CHM 32 Organic Chemistry II	5 crs.
• PHY13 Advanced Physics I	4 crs.	• Elective	3 crs.
		Recommend: PHY14 Advanced Physics II	
• Group A or B or C or D	3 crs.	• Group A or B or C or D	3 crs.
• Elective [MAT 16 Recommended]	2 crs	• Group A or B or C or D	3 crs.

Add/Delete/Change	A.S. SCIENCE OF FORENSICS	
	HEGIS: 5619.00	
	PROGRAM CODE: 34472	
	<u>CUNY CORE</u>	CREDITS
	<u>REQUIRED CORE:</u> (4 Courses, ~~14~~ **13** Credits)	~~14~~ **13**
	When Required Core Courses are specified for a category, they are required for the major	
	ENG 1200 - English Composition I	3
	ENG 2400 - English Composition II	3
	Mathematical & Quantitative Reasoning*:	~~04~~ **3**
ADD	**MAT 900 - College Algebra or**	
ADD	**MAT 9A0 - Algebra for STEM Majors or**	
ADD/CHANGE (CREDITS)	**MAT 1400 - Analytic Geometry and Pre-Calculus Mathematics or**	
CHANGE (CREDITS)	MAT 1500 – Calculus I	
	Life and Physical Sciences*:	4
	BIO 1300 - General Biology I	
	<u>FLEXIBLE CORE:</u> (6 Courses, 20 Credits)	20
	When Flexible Core Courses are specified for a category, they are required for the major. One course from each Group A to D (Group E is satisfied by the courses shown). No more than two courses can be selected from the same discipline.	
	A. World Cultures and Global Issues	
	B. U.S. Experience In Its Diversity	
	C. Creative Expression	
	D. Individual & Society	
	E. Scientific World*:	
	BIO 1400 - General Biology II	
DELETE	~~MAT 1600 - Calculus II~~	
ADD	**CHM 1100 – General Chemistry I**	
CHANGE	<u>DEPARTMENT REQUIREMENTS</u> (6 Courses, ~~26~~ **25** Credits)	**25**
CHANGE	*A cumulative grade point average of 2.50 or above, which includes BIO 1300 ~~and BIO 1400~~, **and CHM 1100** as well as the following ~~26 credits~~ **Physical Science Courses** is required:*	
ADD	**Additional Physical Sciences Requirements (5 Courses, 22 Credits)**	
DELETE	~~CHM 1100 – General Chemistry I~~	~~04~~
	CHM 1200 – General Chemistry II	4
	CHM 3100 – Organic Chemistry I	5
	CHM 3200 – Organic Chemistry II	5

	PHY 1300 – Advanced General Physics I	4
	PHY 1400 – Advanced General Physics II	4
ADD	Additional Mathematics Requirement (1 Course, 3 Credits)	3
ADD	Select one (1) additional course beyond the Mathematical and Quantitative Reasoning (MQR) course from the following:	
ADD	MAT 1000 - College Trigonometry^	
ADD	MAT 1400 - Analytic Geometry and Pre-Calculus Mathematics (Recommended)	
ADD	MAT 1500 - Calculus I (Recommended)	
ADD	MAT 1600 - Calculus II (Recommended)	
CHANGE	ELECTRICS: 0̶ 2 credits sufficient to meet the required total 60 credits for the degree.	0̶ 2
	Completion of MAT 1600 - Calculus II is highly recommended	
	TOTAL CREDITS: 60	60
	*This program has a waiver to require particular courses in the Common Core, otherwise more than the minimum credits for the degree may be necessary.	
	^ Depending on Math placement, students may be required to select MAT 1000	

Add/Delete/Change	A.S. SCIENCE OF FORENSICS	
	HEGIS: 5619.00	
	PROGRAM CODE: 34472	
	CUNY CORE	**CREDITS**
	REQUIRED CORE: (4 Courses,13 Credits)	**13**
	When Required Core Courses are specified for a category, they are required for the major	
	ENG 1200 - English Composition I	3
	ENG 2400 - English Composition II	3
	Mathematical & Quantitative Reasoning*:	3
	MAT 900 - College Algebra or	
	MAT 9A0 - Algebra for STEM Majors or	
	MAT 1400 - Analytic Geometry and Pre-Calculus Mathematics or	
	MAT 1500 – Calculus I	
	Life and Physical Sciences*:	4
	BIO 1300 - General Biology I	
	FLEXIBLE CORE: (6 Courses, 20 Credits)	**20**
	When Flexible Core Courses are specified for a category, they are required for the major. One course from each Group A to D (Group E is satisfied by the courses shown). No more than two courses can be selected from the same discipline.	
	A. World Cultures and Global Issues	
	B. U.S. Experience In Its Diversity	
	C. Creative Expression	
	D. Individual & Society	
	E. Scientific World*:	
	BIO 1400 - General Biology II	
	CHM 1100 – General Chemistry I	
	DEPARTMENT REQUIREMENTS (6 Courses, 25 Credits)	**25**
	A cumulative grade point average of 2.50 or above, which includes BIO 1300 , BIO 1400, and CHM 1100 as well as the following Physical Science Courses is required:	
	Additional Physical Sciences Requirements (5 Courses, 22 Credits)	
	CHM 1200 – General Chemistry II	4
	CHM 3100 – Organic Chemistry I	5
	CHM 3200 – Organic Chemistry II	5
	PHY 1300 – Advanced General Physics I	4
	PHY 1400 – Advanced General Physics II	4

	Additional Mathematics Requirement (1 Course, 3 Credits)	3
	Select one (1) additional course beyond the Mathematical and Quantitative Reasoning (MQR) course from the following:	
	MAT 1000 - College Trigonometry^	
	MAT 1400 - Analytic Geometry and Pre-Calculus Mathematics (Recommended)	
	MAT 1500 - Calculus I (Recommended)	
	MAT 1600 - Calculus II (Recommended)	
	ELECTIVES: 2 credits sufficient to meet the required total 60 credits for the degree.	2
	Completion of MAT 1600 - Calculus II is highly recommended	
	TOTAL CREDITS: 60	60
	*This program has a waiver to require particular courses in the Common Core, otherwise more than the minimum credits for the degree may be necessary.	
	^ Depending on Math placement, students may be required to select MAT 1000	