

Science for Forensics, A.S.

HEGIS: 5619.00

PROGRAM CODE: 34472

PROGRAM DIRECTOR: Dr. John Mikalopas

DEPARTMENT: PHYSICAL SCIENCES

The Science for Forensics AS degree is a jointly registered dual enrollment degree program with John Jay College of Criminal Justice and prepares students for transfer to their baccalaureate program. Scientific foundation and technical training are provided through courses in chemistry, physics, biology and mathematics, that focus on understanding fundamental laws, theories, and ideas, their application toward data analysis, and support of quantitative reasoning, scientific writing, and research.

The curriculum presented here applies to students who started the major in Fall 2026 or Spring 2027. If you enrolled as a matriculant prior to that, please see the *College Catalog* for the year you started the major as a matriculant for the curriculum requirements that apply to you.

Consultation with the Program Advisor is required.

Degree Maps:

[Degree Map for Science for Forensics, A.S. - MAT 9010 or MAT 9B0 or MAT 900 Placement](#)

[Degree Map for Science for Forensics, A.S. - MAT 1500 Placement - Calculus I](#)

Your Degree Map contains the suggested term-by-term course sequence for your academic path towards graduation.

To ensure successful and timely completion of your degree, it is recommended that you meet with your academic advisor to discuss your unique map.

Please note some courses *may* only be offered once an academic year.

Program Learning Outcomes:

Upon successful completion of the Science of Forensics degree program requirements, graduates will:

1. be able to understand the fundamental laws, theories, and ideas of Physics (and related Mathematics and Physical Sciences)
2. be able to evaluate and express empirical evidence supporting the fundamental laws, theories, and ideas of Physics (and related Mathematics and Physical Sciences)
3. be able to apply the fundamental laws, theories, and ideas of Physics (and related Mathematics and Physical Sciences) to analyze problems or questions
4. be able use the tools and methods of Physics (and related Mathematics and Physical Sciences) to gather, analyze, and interpret data

5. be able to express themselves effectively in written exams and laboratory reports using the terminology, notations, and symbols of Physics (and related Mathematics and Physical Sciences)
 6. be able to understand the basic principles of Physics (and related Mathematics and Physical Sciences) underlying technological developments, scientific discovery, and matters of public policy and concern
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College Requirements:

English and Math proficient as determined by the CUNY Proficiency Index, unless otherwise exempt, or successful completion of any required developmental course(s).

Civic Engagement Experiences:

One (1) Civic Engagement experience satisfied by Civic Engagement Certified or Civic Engagement Component course or approved outside activity.

Writing Intensive Requirement:

One (1) Writing Intensive Course in any discipline is required.

Required Core (4 Courses, 13 Credits):

When Required Core Courses are specified for a category, they are required for the major

- ENG 1200 - Composition I 3 Credit(s)
 - ENG 2400 - Composition II 3 Credit(s)
 - **Mathematical & Quantitative Reasoning Course ***
 - MAT 9010 - Introduction to Mathematics with College Algebra 3 Credit(s) **or**
 - MAT 9B0 - College Algebra for STEM Majors 3 Credit(s) **or**
 - MAT 900 - College Algebra 3 Credit(s) **or**
 - MAT 1400 - Analytic Geometry and Pre-Calculus Mathematics 3 Credit(s) **or**
 - MAT 1500 - Calculus I 3 Credit(s)
 - **Life & Physical Sciences Course ***
 - BIO 1300 - General Biology I 4 Credit(s)
-

Flexible Core (6 Courses, 20 Credits):

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 Designated Course

B. U.S. Experience in its Diversity Designated Course

C. Creative Expression Designated Course

D. Individual and Society Designated Course

E. Scientific World Designated Course*

- BIO 1400 - General Biology II 4 Credit(s)
 - CHM 1100 - General Chemistry I 4 Credit(s)
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Major Requirements (6 Courses, 25 Credits):

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 Credit(s)
- CHM 3100 - Organic Chemistry I 5 Credit(s)
- CHM 3200 - Organic Chemistry II 5 Credit(s)
- PHY 1300 - Advanced General Physics I 4 Credit(s)
- PHY 1400 - Advanced General Physics II 4 Credit(s)

Additional Mathematics Requirement (1 Course, 3 Credits)

Select **one (1)** additional course beyond the Mathematical and Quantitative Reasoning (MQR) course from the following:

- MAT 1000 - College Trigonometry 3 Credit(s) ^
 - MAT 1400 - Analytic Geometry and Pre-Calculus Mathematics 3 Credit(s) (*Recommended*)
 - MAT 1500 - Calculus I 3 Credit(s) (*Recommended*)
 - MAT 1600 - Calculus II 3 Credit(s) (*Recommended*)
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Electives:

2 credits sufficient to meet required total of 60 credits

Completion of MAT 1600 Calculus II is HIGHLY recommended

Notes:

^ Depending on Math placement, students may be required to select MAT 1000

* 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.

Total Credits: 60

Degree Information

Catalog Year: **2026 - 2027**Plan: **Science for Forensics AS**Sub Plan: **None**Required Credits: **60**

General Requirements

Req GPA: **2.0**Req Residential Credits: **30**Req Pathways Credits: **33**Req Civic Engagement: **1**Req Writing Intensive: **1**

1

Session A

COURSE	CRS
ENG 1200	3
CHM 100*	0
CHM 1100* ¹	4
MAT 9010 ¹ or MAT 9B0 ¹ or MAT 900 ¹ (NEED MIN. GRADE C)	3

Session B

COURSE	CRS
Additional Math 1: MAT 1400 ¹ (NEED MIN. GRADE C)	3

2

Session A

COURSE	CRS
ENG 2400	3
CHM 1200 ¹	4
BIO 1300 ¹	4
Elective**	2

Session B

COURSE	CRS
Choose 1: Flexible Core Creative Expression	3

3

Session A

COURSE	CRS
CHM 3100 ¹	5
PHY 1300 ¹	4
BIO 1400 ¹	4
Choose 1: Flexible Core World Cultures & Global Issues	3

Session B

COURSE	CRS

4

Session A

COURSE	CRS
CHM 3200 ¹	5
PHY 1400 ¹	4
Choose 1: Flexible Core U.S. Experiences in Its Diversity	3
Choose 1: Flexible Core Individual and Society	3

Session B

COURSE	CRS

NOTE: The term-by-term course sequence takes into account necessary Prerequisites, Corequisites, and Pre-/Co-requisites

NOTE: Select ONE (1) WRITING INTENSIVE course & ONE (1) CIVIC ENGAGEMENT course. Some courses meet BOTH requirements, see CUNYfirst to determine course status

SEMESTER CRS: 13

SEMESTER CRS: 16

SEMESTER CRS: 16

SEMESTER CRS: 15

CAREER AND TRANSFER MILESTONES

1

CAREER & TRANSFER	Done
Claim your Handshake Account (Kingsborough)	
Join Student Club, Student Government Association (SGA) or groups relevant to career choice/pathway to build your network and skills.	
Research and explore desired career pathway via career coach. Including researching Baccalaureate Programs and Complete a Transfer Plan (CUNY Justice Academy).	
Draft Basic Resume with assistance from the Career Center.	
Review the CUNY Research Scholars Program (CRSP) at KCC.	
Review and engage with the proactive steps for the field of Forensic Science: Explore career paths and identify key areas (e.g., data analysis, evidence handling, technical writing).	

2

CAREER & TRANSFER	Done
Create your LinkedIn profile	
Attend a Professional/Networking Event Outside of KCC	
Draft a Basic Cover Letter with assistance from the Career Center.	
Review and engage with the proactive steps for the field of Forensic Science: Develop professional communication skills through presentations, networking, or informational interviews.	
Attend Transfer Events for the CUNY Justice Academy	
Attend the Annual Forensic Science Symposium at John Jay College of Criminal Justice.	
Join CUNY Research Scholars Program (CRSP) at KCC.	
Review and engage with the in-demand skills for the field of Forensic Science.	

3

CAREER & TRANSFER	Done
Career Planning - Research and Join Professional Organization [Student Membership]	
Attend a Professional/Networking Event Outside of KCC	
Planning for References (Job & Transfer) - can be professors, campus connections, research mentors, or others who are aware of your interests, abilities, skills and work habits and obtain letters of recommendation.	
Find a Mentor to Check in with Periodically: Establish a relationship with someone who can provide guidance and advice related to your career goals.	
Start the transfer process to a Baccalaureate program via the CUNY Justice Academy.	
Explore internship Opportunities through CUNY Career Launch or through the Career Center.	
Join CUNY Research Scholars Program (CRSP) at KCC.	
Review and engage with the in-demand skills for the field of Forensic Science.	

4

CAREER & TRANSFER	Done
Join CUNY Research Scholars Program (CRSP) at KCC.	
Take advantage of events offered by campus Career and Professional Development offices to perfect your job search and sharpen your interview and employability skills. Update your LinkedIn profile and resume with new certifications, experiences, and skills.	
Review and engage with the proactive steps for the field of Forensic Science: Apply technical and analytical skills in internships, research, or project-based experiences. Build a professional portfolio (research projects, reports, presentations).	
Accept your offer to Enroll in a Baccalaureate program via the CUNY Justice Academy.	
Complete CUNY Cap and Gown Survey	

NOTE: Explore the highlighted Milestones by following the link to the Career-Infused Degree Map web page or relevant linked page

Important Notes:

¹The Science for Forensics, AS degree is a jointly registered dual enrollment degree program with John Jay College of Criminal Justice. A cumulative GPA of 2.50 or above is required for the indicated Biology and Physical Science course.

²Based on the Chemistry Ready Placement Score, students may test directly into CHM 1100 and not be required to take CHM 100. Contact the Physical Sciences Department for Chemistry Ready Placement information.

Math Course Information

¹ Course is usually offered every semester

² Course is usually offered every Fall and Spring semesters

Degree InformationCatalog Year: 2026 - 2027Plan: Science for Forensics ASSub Plan: NoneRequired Credits: 60General RequirementsReq GPA: 2.0Req Residential Credits: 30Req Pathways Credits: 33Req Civic Engagement: 1Req Writing Intensive: 1**1**

Session A

COURSE	CRS
ENG 1200	3
CHM 1100* ¹	4
CHM 100*	0
BIO 1300 ¹	4
MAT 1500 ¹ (NEED MIN. GRADE C)	3

2

Session A

COURSE	CRS
ENG 2400	3
CHM 1200 ¹	4
BIO 1400 ¹	4
Additional Math 1: MAT 1600 ² (NEED MIN. GRADE C)	3

3

Session A

COURSE	CRS
CHM 3100 ¹	5
PHY 1300 ¹	4
Choose 1: Flexible Core World Cultures & Global Issues	3

4

Session A

COURSE	CRS
CHM 3200 ¹	5
PHY 1400 ¹	4
Choose 1: Flexible Core U.S. Experiences in Its Diversity	3
Elective	2

Session B

COURSE	CRS
Choose 1: Flexible Core Individual and Society	3

Session B

COURSE	CRS
Choose 1: Flexible Core creative Expression	3

Session B

COURSE	CRS

Session B

COURSE	CRS

NOTE: The term-by-term course sequence takes into account necessary Prerequisites, Corequisites, and Pre-/Co-requisites

NOTE: Select ONE (1) WRITING INTENSIVE course & ONE (1) CIVIC ENGAGEMENT course. Some courses meet BOTH requirements, see CUNYfirst to determine course status

SEMESTER CRS: 17

SEMESTER CRS: 17

SEMESTER CRS: 12

SEMESTER CRS: 14

CAREER AND TRANSFER MILESTONES**1****CAREER & TRANSFER
EXPLORATION ACTIVITIES**

Done

Claim your Handshake Account
(Kingsborough)Join Student Club, Student Government
Association (SGA) or groups relevant to
career choice/pathway to build your
network and skills.Research and explore desired career
pathway via career coach. Including
researching Baccalaureate Programs and
Complete a Transfer Plan (CUNY Justice
Academy).Draft Basic Resume with assistance from
the Career Center.Review the CUNY Research Scholars
Program (CRSP) at KCC.Review and engage with the proactive
steps for the field of Forensic Science:
Explore career paths and identify key
areas (e.g. data analysis, evidence
handling, technical writing).**2****CAREER & TRANSFER
EXPLORATION ACTIVITIES**

Done

Create your LinkedIn profileAttend a Professional/Networking Event
Outside of KCCDraft a Basic Cover Letter with assistance
from the Career Center.Review and engage with the proactive
steps for the field of Forensic Science:
Develop professional communication skills
through presentations, networking, or
informational interviews.Attend Transfer Events for the CUNY Justice
AcademyAttend the Annual Forensic Science
Symposium at John Jay College of Criminal
Justice.Join CUNY Research Scholars Program
(CRSP) at KCC.Review and engage with the in-demand
skills for the field of Forensic Science.**3****CAREER & TRANSFER
EXPLORATION ACTIVITIES**

Done

Career Planning - Research and Join
Professional Organization [Student
Membership]Attend a Professional/Networking Event
Outside of KCCPlanning for References (Job & Transfer) -
can be professors, campus connections,
research mentors, or others who are aware
of your interests, abilities, skills and work
habits and obtain letters of
recommendation.Find a Mentor to Check in with Periodically:
Establish a relationship with someone who
can provide guidance and advice related to
your career goals.Start the transfer process to a Baccalaureate
program via the CUNY Justice Academy.Explore internship Opportunities through
CUNY Career Launch or through the Career
Center.Join CUNY Research Scholars Program
(CRSP) at KCC.Review and engage with the in-demand
skills for the field of Forensic Science.**4****CAREER & TRANSFER
EXPLORATION ACTIVITIES**

Done

Join CUNY Research Scholars Program
(CRSP) at KCC.Take advantage of events offered by
campus Career and Professional
Development offices to perfect your job
search and sharpen your interview and
employability skills. Update your
LinkedIn profile and resume with new
certifications, experiences, and skills.Review and engage with the proactive
steps for the field of Forensic Science:
Apply technical and analytical skills in
internships, research, or project-based
experiences. Build a professional
portfolio (research projects, reports,
presentations).Accept your offer to Enroll in a
Baccalaureate program via the CUNY
Justice Academy.Complete CUNY Cap and Gown Survey

NOTE: Explore the highlighted Milestones by following the link to the Career-Infused Degree Map web page or relevant linked page

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