## KINGSBOROUGH COMMUNITY COLLEGE

## Special Meeting of Curriculum Committee @ Chairs Meeting Wednesday, February 23, 2022 10:00 AM

Zoom Meeting

## **AGENDA**

Due to the CUNY mandate to remove standalone development uncommon early review of curriculum submissions in order to	ental courses effective Fall 2022, we are required to hold a very o meet this CUNY mandate.
Please note at the meeting we will be voting out of order from	n the below listed presentation.
SPECIAL ACTIONS	
Department of Health, Physical Education and Recreation	vn
Change Pending Approval by Accrediting Body	
1. A.A.S. Polysomnographic Technology	
HEGIS: 5299.00	
Program Code: 36624	
Change in Admission Criteria for A.A.S. Polysomnographic T	echnology I
FROM:	TO:
English and Math proficient as determined by the CUNY Proficiency Index, unless otherwise exempt, or have successfully completed any required developmental course(s).	English and Math proficient as determined by the CUNY Proficiency Index, unless otherwise exempt, or have successfully completed any required developmental course(s).
2. Students must complete BIO 1100*, MAT 9B0 or MAT 900*, ENG 1200, and PSG 100 with a minimum grade of "C".	2. Students must complete BIO 1100*, MAT 9010* or MAT 980* or MAT 900*, ENG 1200, and PSG 100 with a minimum grade of "C".
Formal interview with the Program Director	Formal interview with the Program Director
*It is HIGHLY recommended that students complete BIO 1100 and MAT 900 or MAT 9B0 during the 12-week semester.	*It is HIGHLY recommended that students complete BIO 1100 and MAT 900 or MAT 9010 or MAT 9B0 during the 12-week semester.
Change Pending Approval by Accrediting Body	
2. A.A.S. Physical Therapist Assistant	
HEGIS: 5219.00	
Program Code: 88328	
Change in Admission Criteria for A.A.S. Physical Therapist A	ssistant
FROM:	то:
Minimum overall grade point average of 2.80. Successful completion of the following prerequisite courses: ENG 1200, PSY 1100, MAT 2000, and BIO 1100 for consideration for the program. Courses from other colleges to be applied toward program requirements must have grades submitted for them.	Minimum overall grade point average of 2.80. Successful completion of the following prerequisite courses: ENG 1200, PSY 1100, MAT 2000 or MAT 2010, and BIO 1100 for consideration for the program. Courses from other colleges to be applied toward program requirements must have grades submitted for them.

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In addition to completing the prerequisite courses, students must complete a minimum of 25 hours of exposure to physical therapy services, provide a letter of recommendation from a physical therapist working in the exposure facility, and submit a writing sample on an assigned topic.		In addition to completing the prerequisite courses, students must complete a minimum of 25 hours of exposure to physical therapy services, provide a letter of recommendation from a physical therapist working in the exposure facility, and submit a writing sample on an assigned topic.	
Top candidates are interviewed by a panel of faculty and complete the Health Occupations Aptitude Examination (HOAE).		Top candidates are interviewed by a panel of faculty and complete the Health Occupations Aptitude Examination (HOAE).	
		Students who have been administratively dismissed from a Physical Therapist Assistant program at a previous school are not eligible for admission to the Physical Therapist Assistant program.	
The admissions process is a competitive process and not all applicants are granted admission to the program Students interested in the program should contact the Director of the PTA Program, S-128.		The admissions process is a competitive process and not all applicants are granted admission to the program. Students interested in the program should contact the Director of the PTA Program, S-128.	
OHANGE IN DEODEE DECHIDEMENT			
CHANGE IN DEGREE REQUIREMENT			
Department of Allied Health, Mental Health and Hum	ian Service	<del>9</del> 8	
Change Pending Approval by Accrediting Body		Т	I
1. A.A.S. Polysomnographic Technology	-		
HEGIS: 5299.00			
Program Code: 36624			
Change: Degree Requirements			
FROM:		TO:	
CUNY CORE	CREDITS	CUNY CORE	CREDITS
REQUIRED CORE: (4 Courses, 13 Credits)	13	REQUIRED CORE: (4 Courses, 13 Credits)	13
When Required Core courses are specified for a category, they are required for the major.		When Required Core courses are specified for a category, they are required for the major.	
	<del>                                     </del>	, , , , , , , , , , , , , , , , , , , ,	2
ENG 1200 - Composition I ENG 2400 - Composition II	3	ENG 1200 - Composition I ENG 2400 - Composition II	3
Mathematical and Quantitative Reasoning:	3	Mathematical and Quantitative Reasoning:	3
MAT 2000 - Elements of Statistics	1 3	MAT 2000 - Elements of Statistics or	J
IVIAT 2000 - LIGHTGHIG OF GLAUSTICS	+	MAT 2000 - Elements of Statistics of MAT 2010 - Integrated Statistics	
Life and Physical Sciences:	4	Life and Physical Sciences:	4
BIO 1100 - Human Anatomy and Physiology I	+ -	BIO 1100 - Human Anatomy and Physiology I	7
Die 1195 Haman Anatomy and Fnysiology F		Sie 1100 Human waterny und Friyotology F	
FLEXIBLE CORE: (4 Courses, 13 Credits)	13	FLEXIBLE CORE: (4 Courses, 13 Credits)	13
When Flexible Core Courses are specified for a		When Flexible Core Courses are specified for a	
category, they are required for the major. Group D and		category, they are required for the major. Group D and E	
E are satisfied by the courses shown:		are satisfied by the courses shown:	
A. World Cultures and Global Issues	1	A. World Cultures and Global Issues	
B. U.S. Experience In Its Diversity	1	B. U.S. Experience In Its Diversity	I

C. Creative Expression		C. Creative Expression	
D. Individual & Society		D. Individual & Society	
PHI 7600 - Ethics and Morality in the Health	,	PHI 7600 - Ethics and Morality in the Health	_
Professions	3	Professions	3
E. Scientific World		E. Scientific World	
BIO 1200 - Human Anatomy and Physiology II	4	BIO 1200 - Human Anatomy and Physiology II	4
PSY 1100 - General Psychology	3	PSY 1100 - General Psychology	3
, , ,		MAT 9010 - Introduction to Mathematics with	
		College Algebra or	3
MAT 9B0 - College Algebra for STEM Majors or		MAT 9B0 - College Algebra for STEM Majors or	
MAT 900 - College Algebra		MAT 900 - College Algebra	
DEPARTMENT REQUIREMENTS: (9 Courses, 34		DEPARTMENT REQUIREMENTS: (9 Courses, 34	
Credits):	34	Credits):	34
,		,	
PSG 100 - The Science of Sleep and Circadian	3	PSG 100 - The Science of Sleep and Circadian	3
Rhythms		Rhythms	
PSG 101 - Neuroscience and Pharmacology in Sleep	4	PSG 101 - Neuroscience and Pharmacology in Sleep	4
PSG 102 - Foundations Of Polysomnography I	3	PSG 102 - Foundations Of Polysomnography I	3
PSG 103 - Clinical Practicum in Sleep Medicine I	6	PSG 103 - Clinical Practicum in Sleep Medicine I	6
PSG 104 - Foundations of Polysomnography II	3	PSG 104 - Foundations of Polysomnography II	3
PSG 105 - Clinical Polysomnographic Scoring	3	PSG 105 - Clinical Polysomnographic Scoring	3
PSG 106 - Classification of Sleep Disorders	3	PSG 106 - Classification of Sleep Disorders	3
PSG 107 - Cardiopulmonary Physiology in Sleep	3	PSG 107 - Cardiopulmonary Physiology in Sleep	3
PSG 108 - Clinical Practicum in Sleep Medicine II	6	PSG 108 - Clinical Practicum in Sleep Medicine II	6
ELECTIVES:	0	ELECTIVES:	0
0 credits sufficient to total 60 credits for the degree.		0 credits sufficient to total 60 credits for the degree.	
TOTAL:	60	TOTAL:	60
*This program has a waiver to require particular		*This program has a waiver to require particular courses	
courses in the Common Core, otherwise more than the		in the Common Core, otherwise more than the minimum	
minimum credits for the degree may be necessary.		credits for the degree may be necessary.	
		and the design of the second s	
Change Pending Approval by Accrediting Body			
2. A.A.S. Physical Therapist Assistant			
HEGIS: 5219.00			
Program Code: 5219.00			
Change: Degree Requirements	1		1
FROM:		TO:	
FROM.		10.	
CUNY CORE	CREDITS	CUNY CORE	CREDITS
REQUIRED CORE: (4 Courses, 13 Credits)	13	REQUIRED CORE: (4 Courses, 13 Credits)	13
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When Required Core courses are specified for a category, they are required for the major.		When Required Core courses are specified for a category, they are required for the major.	
ENG 1200 - Composition I	3	ENG 1200 - Composition I	3
ENG 2400 - Composition II	3	ENG 2400 - Composition II	3

		MAT 2010 - Integrated Statistics or	
MAT 2000 - Elements of Statistics		MAT 2000 - Elements of Statistics	
Life and Physical Sciences*	4	Life and Physical Sciences*	4
BIO 1100 - Human Anatomy and Physiology I		BIO 1100 - Human Anatomy and Physiology I	
FLEXIBLE CORE: (3 Courses, 10 Credits)	10	FLEXIBLE CORE: (3 Courses, 10 Credits)	10
When Flexible Core Courses are specified for a		When Flexible Core Courses are specified for a	
category, they are required for the major. Group C and		category, they are required for the major. Group C and E	
E are satisfied by the courses shown:		are satisfied by the courses shown:	
C. Creative Expression*		C. Creative Expression*	
SPE 2100 - Effective Public Speaking		SPE 2100 - Effective Public Speaking	
E. Scientific World*		E. Scientific World*	
PSY 1100 - General Psychology	3	PSY 1100 - General Psychology	3
BIO 1200 - Human Anatomy and Physiology II	4	BIO 1200 - Human Anatomy and Physiology II	4
DEPARTMENT REQUIREMENTS: (12 Courses, 44 Credits):	44	DEPARTMENT REQUIREMENTS: (12 Courses, 44 Credits):	44
PTA 100 - Foundations of Physical Therapy I	3	PTA 100 - Foundations of Physical Therapy I	3
PTA 200 - Kinesiology and Applied Anatomy	4	PTA 200 - Kinesiology and Applied Anatomy	4
PTA 300 - Foundations of Physical Therapy II	3	PTA 300 - Foundations of Physical Therapy II	3
PTA 400 - Modalities and Procedures I	5	PTA 400 - Modalities and Procedures I	5
PTA 500 - Therapeutic Exercise	5	PTA 500 - Therapeutic Exercise	5
PTA 600 - Clinical Practicum I	3	PTA 600 - Clinical Practicum I	3
PTA 700 - Modalities and Procedures II	4	PTA 700 - Modalities and Procedures II	4
PTA 800 - Selected Topics in Physical Therapy	5	PTA 800 - Selected Topics in Physical Therapy	5
PTA 900 - Clinical Practicum II	3	PTA 900 - Clinical Practicum II	3
PTA 1000 - Introduction to Physical Therapy	3	PTA 1000 - Introduction to Physical Therapy	3
PTA 2000 - Pathology	3	PTA 2000 - Pathology	3
PTA 2500 - Interactions in the Clinic	3	PTA 2500 - Interactions in the Clinic	3
ELECTIVES:	1	ELECTIVES:	1
1 credit sufficient to total 68 credits for the degree.		1 credit sufficient to total 68 credits for the degree.	
TOTAL:	68	TOTAL:	68
*This program has a waiver to require particular		*This program has a waiver to require particular courses	
courses in the Common Core, otherwise more than the		in the Common Core, otherwise more than the minimum	
minimum credits for the degree may be necessary.		credits for the degree may be necessary.	
Department of Biological Sciences	ı		
1. A.S. Biology			
HEGIS: 5604.00			
Program Code: 01039 Change: Degree Requirements			
FROM:		TO:	
	0050:50		0055:55
CUNY CORE	CKEDITS	CUNY CORE	CREDITS

REQUIRED CORE: (4 Courses, 13 Credits)	13	REQUIRED CORE: (4 Courses, 13 Credits)	13
When Required Core Courses are specified for a category, they are required for the major		When Required Core Courses are specified for a category, they are required for the major	
ENG 1200 - English Composition I	3	ENG 1200 - English Composition I	3
ENG 2400 - English Composition II	3	ENG 2400 - English Composition II	3
Mathematical & Quantitative Reasoning*:	3	Mathematical & Quantitative Reasoning*:	3
		MAT 9010 - Introduction to Mathematics with	
		College Algebra or	
MAT 9B0 - College Algebra for STEM Majors or		MAT 9B0 - College Algebra for STEM Majors or	
MAT 900 - College Algebra		MAT 900 - College Algebra	
Life and Physical Sciences*:	4	Life and Physical Sciences*:	4
BIO 1300 – General Biology I		BIO 1300 – General Biology I	
		<u>,                                     </u>	
FLEXIBLE CORE: (6 Courses, 19 Credits)	19	FLEXIBLE CORE: (6 Courses, 19 Credits)	19
When Flexible Core Courses are specified for a		When Flexible Core Courses are specified for a	
category, they are required for the major. One course		category, they are required for the major. One course	
from each Group A to D (Group E is satisfied by the		from each Group A to D (Group E is satisfied by the	
courses shown). No more than two courses can be		courses shown). No more than two courses can be	
selected from the same discipline.		selected from the same discipline.	
A. World Cultures and Global Issues		A. World Cultures and Global Issues	
B. U.S. Experience In Its Diversity		B. U.S. Experience In Its Diversity	
C. Creative Expression		C. Creative Expression	
D. Individual & Society		D. Individual & Society	
E. Scientific World*:		E. Scientific World*:	
BIO 1400 – General Biology II		BIO 1400 – General Biology II	
MAT 1400 - Analytic Geometry and Pre-Calculus Mathematics		MAT 1400 - Analytic Geometry and Pre-Calculus Mathematics	
DEPARTMENT REQUIREMENTS: (3 Courses, 11 to	11 to 12	DEPARTMENT REQUIREMENTS: (3 Courses, 11 to 12	11 to 12
12 Credits)		Credits)	
CHM 1100 – General Chemistry I	4	CHM 1100 – General Chemistry I	4
CHM 1200 - General Chemistry II	4	CHM 1200 - General Chemistry II	4
CP 1100 - Introduction to Computers and Computer	4 - 3	CP 1100 - Introduction to Computers and Computer	4 - 3
Applications (4 crs) or		Applications (4 crs) or	
BIO/CIS 6000 – Computer Applications in		BIO/CIS 6000 – Computer Applications in	
Bioinformatics (3 crs.)		Bioinformatics (3 crs.)	
			8
CONCENTRATIONS: (2 Courses, 8 Credits)	8	CONCENTRATIONS: (2 Courses, 8 Credits)	0
Select one (1) of the following concentrations:		Select one (1) of the following concentrations:	
Biology Transfer: (2 Courses, 8 Credits)	8	Biology Transfer: (2 Courses, 8 Credits)	8
Select <b>two (2)</b> of the following Biology Laboratory		Select <b>two (2)</b> of the following Biology Laboratory	
courses:		courses:	
BIO 2100 - Comparative Anatomy or	4	BIO 2100 - Comparative Anatomy or	4
BIO 2200 - Developmental Biology or	4	BIO 2200 - Developmental Biology or	4
BIO 5000 - General Microbiology or	4	BIO 5000 - General Microbiology or	4
BIO 5200 - Marine Biology or	4	BIO 5200 - Marine Biology or	4
BIO 5300 - Ecology or	4	BIO 5300 - Ecology or	4
BIO 5800 - Recombination DNA Technology or	4	BIO 5800 - Recombination DNA Technology or	4
BIO 5900 – Genetics or	4	BIO 5900 – Genetics or	4

BIO 6500 - Molecular and Cellular Biology	4	BIO 6500 - Molecular and Cellular Biology	4
<u>OR</u>		<u>OR</u>	
Allied Health Transfer: (2 Courses, 8 Credits):	8	Allied Health Transfer: (2 Courses, 8 Credits):	8
BIO 1100 - Human Anatomy and Physiology I	4	BIO 1100 - Human Anatomy and Physiology I	4
BIO 1200 - Human Anatomy and Physiology II	4	BIO 1200 - Human Anatomy and Physiology II	4
<b>ELECTIVES</b> : 8 - 9 credits sufficient to meet the required total 60 credits for the degree.	8 - 9	<b>ELECTIVES</b> : 8 - 9 credits sufficient to meet the required total 60 credits for the degree.	8 - 9
Allied Health Transfer Option, Suggested Elective: BIO/MAT 9100 – Biostatistics (4 crs.)		Allied Health Transfer Option, Suggested Elective: BIO/MAT 9100 – Biostatistics (4 crs.)	
Transfer to a Physician Assistant Program, Suggested Elective:		Transfer to a Physician Assistant Program, Suggested Elective:	
BIO 5100 – Microbiology in Health and Disease (4 crs.)		BIO 5100 – Microbiology in Health and Disease (4 crs.)	
TOTAL CREDITS: 60	60	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.		*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.	
2. A.S. Biotechnology			
HEGIS: 5407.00			
Program Code: 5407.00			
Change: Degree Requirements			
FROM:		TO:	
CUNY CORE	CREDITS	CUNY CORE	CREDITS
REQUIRED CORE: (4 Courses, 13 Credits)	13	REQUIRED CORE: (4 Courses, 13 Credits)	13
When Required Core Courses are specified for a category, they are required for the major		When Required Core Courses are specified for a category, they are required for the major	
ENG 1200 - English Composition I	3	ENG 1200 - English Composition I	3
ENG 2400 - English Composition II	3	ENG 2400 - English Composition II	3
Mathematical & Quantitative Reasoning*:	3	Mathematical & Quantitative Reasoning*:	3
		MAT 9010 - Introduction to Mathematics with College Algebra or	
MAT 9B0 - College Algebra for STEM Majors or		MAT 9B0 - College Algebra for STEM Majors or	
MAT 900 - College Algebra		MAT 900 - College Algebra	
Life and Physical Sciences*:	4	Life and Physical Sciences*:	4
BIO 1300 – General Biology I		BIO 1300 – General Biology I	
FLEXIBLE CORE: (6 Courses, 20 Credits)	20	FLEXIBLE CORE: (6 Courses, 20 Credits)	20

Program Code: 01055 Change: Degree Requirements FROM: CUNY CORE	CREDITS	TO:  CUNY CORE	CREDITS
Change: Degree Requirements  FROM:			
Change: Degree Requirements		TO:	
HEGIS: 5101.00			
1. A.A.S. Computer Information Systems			
Department of Mathematics and Computer Science	1		
minimum credits for the degree may be necessary.		credits for the degree may be necessary.	
*This program has a waiver to require particular courses in the Common Core, otherwise more than the		*This program has a waiver to require particular courses in the Common Core, otherwise more than the minimum	
TOTAL CREDITS: 60	60	TOTAL CREDITS: 60	60
4 credits sufficient to meet the required total 60 credits for the degree.	4	4 credits sufficient to meet the required total 60 credits for the degree.	4
ELECTIVES:	ļ .	ELECTIVES:	
EL FOTIVEO.		EL FOTIVEO	
BIO/CIS 6000 - Computer Applications in Bioinformatics	3	BIO/CIS 6000 - Computer Applications in Bioinformatics	3
CHM 1200 - General Chemistry II	4	CHM 1200 - General Chemistry II	4
CHM 1100 - General Chemistry I	4	CHM 1100 - General Chemistry I	4
BIO 6500 - Molecular and Cellular Biology	4	BIO 6500 - Molecular and Cellular Biology	4
BIO 5700 - Biotechnology: Cell Culture and Cloning		BIO 5700 - Biotechnology: Cell Culture and Cloning	
BIO 5800 - Recombinant DNA Technology <b>or</b>	4	BIO 5800 - Recombinant DNA Technology or	4
BIO 5900 - Genetics		BIO 5900 - Genetics	
BIO 5000 - General Microbiology <b>or</b>	4	BIO 5000 - General Microbiology <b>or</b>	4
DEPARTMENT REQUIREMENTS: (6 Courses, 23 Credits)	23	DEPARTMENT REQUIREMENTS: (6 Courses, 23 Credits)	23
BIO 1400 - General Biology II		BIO 1400 - General Biology II	
BIO/MAT 9100 - Biostatistics		BIO/MAT 9100 - Biostatistics	
E. Scientific World*:		E. Scientific World*:	
D. Individual & Society		D. Individual & Society	
C. Creative Expression		C. Creative Expression	
B. U.S. Experience In Its Diversity		B. U.S. Experience In Its Diversity	
A. World Cultures and Global Issues		A. World Cultures and Global Issues	
selected from the same discipline.		selected from the same discipline.	
courses shown). No more than two courses can be		courses shown). No more than two courses can be	
from each Group A to D (Group E is satisfied by the		from each Group A to D (Group E is satisfied by the	
When Flexible Core Courses are specified for a category, they are required for the major. One course		When Flexible Core Courses are specified for a category, they are required for the major. One course	

When Required Core courses are specified for a		When Required Core courses are specified for a	
category, they are required for the major.		category, they are required for the major.	
		, , , , , , , , , , , , , , , , , , , ,	
ENG 1200 - Composition I	3	ENG 1200 - Composition I	3
ENG 2400 - Composition II	3	ENG 2400 - Composition II	3
Mathematical and Quantitative Reasoning:	3	Mathematical and Quantitative Reasoning:	
		MAT 9010 - Introduction to Mathematics with	
		College Algebra <sup>^</sup> or	
MAT 9B0 - College Algebra for STEM Majors <sup>^</sup> or		MAT 9B0 - College Algebra for STEM Majors <sup>^</sup> or	
MAT 900 - College Algebra ^		MAT 900 - College Algebra <sup>^</sup>	
Life and Physical Sciences	3	Life and Physical Sciences	3
, ,		, ,	
FLEXIBLE CORE: (3 Courses, 9 - 10 Credits)	9 - 10	FLEXIBLE CORE: (3 Courses, 9 - 10 Credits)	9 - 10
When Flexible Core Courses are specified for a		When Flexible Core Courses are specified for a	
category, they are required for the major.		category, they are required for the major.	
Select one (1) course from three (3) Groups A to E for a		Select one (1) course from three (3) Groups A to E for a	
total of nine (9) credits. Each Course Must be in a		total of nine (9) credits. Each Course Must be in a	
<u>Different</u> Discipline		<u>Different</u> Discipline	
A. World Cultures & Global Issues		A. World Cultures & Global Issues	
B. U.S. Experience In Its Diversity		B. U.S. Experience In Its Diversity	
C. Creative Expression		C. Creative Expression	
D. Individual & Society		D. Individual & Society	
E. Scientific World*:	3 - 4	E. Scientific World*:	3 - 4
MAT 1400 – Analytic Geometry and Pre-Calculus	3	MAT 1400 – Analytic Geometry and Pre-Calculus	3
Mathematics * or	4	Mathematics * or	4
MAT/BA 2200 – Business Statistics*	4	MAT/BA 2200 – Business Statistics*	4
DEODEE DECLUDEMENTO: (44 Occurs of 27 to 20		DEODEE DECUMPENTO, (44 October 27 to 20	
DEGREE REQUIREMENTS: (11 Courses, 37 to 38	37 - 38	DEGREE REQUIREMENTS: (11 Courses, 37 to 38 Credits)	37 - 38
Credits)		,	
CP 500 - Introduction to Computer Programming	4	CP 500 - Introduction to Computer Programming	4
CP 2100 - C++ Programming I	4	CP 2100 - C++ Programming I	4
CP 2200 - C++ Programming II	4	CP 2200 - C++ Programming II	4
CIS 1200 - Introduction to Operating Systems	3	CIS 1200 - Introduction to Operating Systems	3
CIS 1500 - Applied Computer Architecture CIS 3100 - Introduction to Database	3	CIS 1500 - Applied Computer Architecture CIS 3100 - Introduction to Database	3
ACC 1100 – Fundamentals of Accounting I <b>or</b>	3 - 4	ACC 1100 – Fundamentals of Accounting I <b>or</b>	3 - 4
BA 1100 - Fundamentals of Accounting For	3-4	BA 1100 - Fundamentals of Accounting For	3-4
BA 1100 - Fundamentals of Business of Business of Business Law I		BA 1200 - Fundamentals of Business <b>or</b> BA 1200 - Business Law I	
HE 1400 - Critical Issues in Personal Health	1	HE 1400 - Critical Issues in Personal Health	1
THE TIPE STREET ISSUES ITT GISSING TICART	'	THE THOO OTHER HOUSE HIT GROUND THE CONTROLLED	<u>'</u>
AND		AND	
Select three (3) courses from the following	12	Select three (3) courses from the following	12
CP 6200 - JAVA Programming 2	4	CP 6200 - JAVA Programming 2	4
CIS 2100 - Introduction to Webpage Development	4	CIS 2100 - Introduction to Webpage Development	4
CIS 2200 - HTML Authoring and JavaScript	4	CIS 2200 - HTML Authoring and JavaScript	4
CIS 3200 - Advanced Database Programming	4	CIS 3200 - Advanced Database Programming	4
CIS 4500 - Network Server Administration	4	CIS 4500 - Network Server Administration	4

<b>ELECTIVES</b> : 0 -2 credits sufficient to total 60 credits for the degree.	0 - 2	<b>ELECTIVES</b> : 0 -2 credits sufficient to total 60 credits for the degree.	0 - 2
TOTAL:	60	TOTAL:	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.		*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 complete MAT 900, or MAT 9B0, and MAT 1400.		^ Depending on Math placement, students may be required to complete MAT 900, or MAT 9010 or MAT 9B0, and MAT 1400.	
2. A.S. Computer Science			
HEGIS: 5103.00			
Program Code: 01040			
Change: Degree Requirements			
Change. Degree Requirements	Τ		
FROM:		TO:	
i itom.		10.	
011111/ 0005			
<u>CUNY CORE</u>	CREDITS	CUNY CORE	CREDITS
REQUIRED CORE: (4 Courses, 12 Credits)	12	REQUIRED CORE: (4 Courses, 12 Credits)	12
When Required Core Courses are specified for a		When Required Core Courses are specified for a	
category, they are required for the major		category, they are required for the major	
	<u> </u>		
ENG 1200 - Composition I	3	ENG 1200 - Composition I	3
ENG 2400 - Composition II	3	ENG 2400 - Composition II	3
Mathematical and Quantitative Reasoning:	3	Mathematical and Quantitative Reasoning:  MAT 9010 - Introduction to Mathematics with	3
MAT ODO Callege Algebra for CTEM Majores on		College Algebra <sup>^</sup> or	
MAT 980 - College Algebra for STEM Majors <sup>^</sup> or		MAT 980 - College Algebra for STEM Majors^	
MAT 900 - College Algebra^ or		MAT 900 - College Algebra^ or	
MAT 1400 - Analytic Geometry and Pre-Calculus		MAT 1400 - Analytic Geometry and Pre-Calculus	
Mathematics^ or		Mathematics <sup>A</sup> or	
MAT 1500 – Calculus I	3	MAT 1500 – Calculus I	3
Life and Physical Sciences:	3	Life and Physical Sciences:	<u> </u>
FLEXIBLE CORE: (6 Courses, 18 Credits)	18	FLEXIBLE CORE: (6 Courses, 18 Credits)	18
When Flexible Core Courses are specified for a		When Flexible Core Courses are specified for a	
category, they are required for the major. One course		category, they are required for the major. One course	
from each Group A to D (Group E is satisfied by the		from each Group A to D (Group E is satisfied by the	
courses shown). No more than two courses can be		courses shown). No more than two courses can be	
selected from the same discipline.		selected from the same discipline.	
A. World Cultures & Global Issues		A. World Cultures & Global Issues	
B. U.S. Experience In Its Diversity		B. U.S. Experience In Its Diversity	
C. Creative Expression	1	C. Creative Expression	
D. Individual & Society		D. Individual & Society	
E. Scientific World*A:		E. Scientific World*A:	
MAT 1400 - Analytic Geometry and Pre-Calculus		MAT 1400 - Analytic Geometry and Pre-Calculus	
Mathematics <sup>^</sup> or	1	Mathematics^ or	

MAT 1500 - Calculus I or		MAT 1500 - Calculus I or	
MAT 1600 - Calculus II		MAT 1600 - Calculus II	
AND		AND	
CS 1200 - Introduction to Computing		CS 1200 - Introduction to Computing	
<b>DEGREE REQUIREMENTS</b> : (7 to 9 Courses, 24 to 30 Credits)	24 - 30	DEGREE REQUIREMENTS: (7 to 9 Courses, 24 to 30 Credits)	24 - 30
CS 13A0 - Advanced Programming Techniques	4	CS 13A0 - Advanced Programming Techniques	4
CS 1400 - Computer Organization and Assembly	4	CS 1400 - Computer Organization and Assembly	4
Language Programming	4	Language Programming	4
CS 3500 - Discrete Structures	3	CS 3500 - Discrete Structures	3
CS 3700 - Data Structures	3	CS 3700 - Data Structures	3
MAT 5600 - Linear Algebra	3	MAT 5600 - Linear Algebra	3
MAT 9100/BIO 9100 - Biostatistics or	4	MAT 9100/BIO 9100 - Biostatistics or	4
MAT 2200/BA 2200 - Business Statistics		MAT 2200/BA 2200 - Business Statistics	
If not taken for Required Core or Flexible Core:		If not taken for Required Core or Flexible Core:	
MAT 1500 - Calculus I	3	MAT 1500 - Calculus I	3
MAT 1600 - Calculus II	3	MAT 1600 - Calculus II	3
Select ONLY ONE (1) of the these two options below	3	Select ONLY ONE (1) of the these two options below	3
based on initial Mathematics Placement:**	3	based on initial Mathematics Placement:**	ა
OPTION 1:		OPTION 1:	
If student's initial Mathematics Placement is below MAT 1500:		If student's initial Mathematics Placement is below MAT 1500:	
MAT 1000 - College Trigonometry <sup>^</sup>		MAT 1000 - College Trigonometry^	
		l l	
OPTION 2:		OPTION 2:	
If student's initial Mathematics Placement is MAT 1500:		If student's initial Mathematics Placement is MAT 1500:	
MAT 2100 - Calculus III		MAT 2100 - Calculus III	
ELECTIVES: 0 - 6 credits sufficient to total 60 credits for the degree.	0 - 6	ELECTIVES: 0 - 6 credits sufficient to total 60 credits for the degree.	0 - 6
TOTAL:	60	TOTAL:	60
TOTAL.	00	IOTAL.	00
*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.		*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 complete MAT 900, or MAT 9B0, and/or MAT 1400, and/or MAT 1000.		^ Depending on Math placement, students may be required to complete MAT 900, or MAT 9010 or MAT 9B0, and/or MAT 1400, and/or MAT 1000.	
**Consultation with the Mathematics Department is HIGHLY recommended to ensure that the student selects the correct option.		**Consultation with the Mathematics Department is HIGHLY recommended to ensure that the student selects the correct option.	
2 A O Mathamatica			
3. A.S. Mathematics			
HEGIS: 5617.00			
Program Code: 01041			
Change: Degree Requirements			

		TO:	
CUNY CORE	CREDITS	CUNY CORE	CREDITS
REQUIRED CORE: (4 Courses, 12 Credits)	12	REQUIRED CORE: (4 Courses, 12 Credits)	12
When Required Core Courses are specified for a category, they are required for the major		When Required Core Courses are specified for a category, they are required for the major	
ENG 1200 - Composition I	3	ENG 1200 - Composition I	3
ENG 2400 - Composition II	3	ENG 2400 - Composition II	3
Mathematical and Quantitative Reasoning:	3	Mathematical and Quantitative Reasoning:	3
		MAT 9010 - Introduction to Mathematics with College Algebra^ or	
MAT 9B0 - College Algebra for STEM Majors <sup>^</sup> or		MAT 9B0 - College Algebra for STEM Majors <sup>^</sup> or	
MAT 900 - College Algebra <sup>^</sup> or		MAT 900 - College Algebra^ or	
MAT 1400 - Analytic Geometry and Pre-Calculus		MAT 1400 - Analytic Geometry and Pre-Calculus	
Mathematics <sup>^</sup> or		Mathematics^ or	
MAT 1500 – Calculus I		MAT 1500 – Calculus I	
Life and Physical Sciences:	3	WATE 1000 Calculus I	
FLEXIBLE CORE: (6 Courses, 18 Credits)	18	FLEXIBLE CORE: (6 Courses, 18 Credits)	18
When Flexible Core Courses are specified for a		When Flexible Core Courses are specified for a	
category, they are required for the major. One course		category, they are required for the major. One course	
from each Group A to D (Group E is satisfied by the		from each Group A to D (Group E is satisfied by the	
courses shown). No more than two courses can be		courses shown). No more than two courses can be	
selected from the same discipline.		selected from the same discipline.	
A. World Cultures & Global Issues		A. World Cultures & Global Issues	
B. U.S. Experience In Its Diversity		B. U.S. Experience In Its Diversity	
C. Creative Expression		C. Creative Expression	
D. Individual & Society		D. Individual & Society	
E. Scientific World**:		E. Scientific World**:	
MAT 1400 - Analytic Geometry and Pre-Calculus		MAT 1400 - Analytic Geometry and Pre-Calculus	
Mathematics <sup>^</sup> or		Mathematics <sup>^</sup> or	
MAT 1500 - Calculus I or		MAT 1500 - Calculus I or	
MAT 1500 - Calculus I of		MAT 1600 - Calculus I 0	
AND		AND	
CS 1200 - Introduction to Computing		CS 1200 - Introduction to Computing	
C3 1200 - Introduction to Computing		C3 1200 - Introduction to Computing	
DEGREE REQUIREMENTS: (8 to 10 Courses, 24 to 30	24 - 30	DEGREE REQUIREMENTS: (8 to 10 Courses, 24 to 30	24 - 30
Credits)		Credits)	
MAT 2100 - Calculus III	3	MAT 2100 - Calculus III	3
MAT 5500 - Differential Equations	3	MAT 5500 - Differential Equations	3
MAT 5600 - Linear Algebra	3	MAT 5600 - Linear Algebra	3
MAT 9100/BIO 9100 - Biostatistics or	4	MAT 9100/BIO 9100 - Biostatistics or	4
MAT 2200/BA 2200 - Business Statistics	<u> </u>	MAT 2200/BA 2200 - Business Statistics	
CS 3500 - Discrete Structures	3	CS 3500 - Discrete Structures	3
MAT 3000 Introduction to Mathematical Concepts in Proof	1	MAT 3000 Introduction to Mathematical Concepts in Proof	1
If not taken for Dequired Core or Florible Core		If not taken for Dequired Core or Florible Core	
If not taken for Required Core or Flexible Core:	2	If not taken for Required Core or Flexible Core:	2
MAT 1500 - Calculus I MAT 1600 - Calculus II	3	MAT 1500 - Calculus I	3
0043 1 18310 1 1 12000 00 C O	3	MAT 1600 - Calculus II	3

Select ONLY ONE (1) of the these two options below		Select ONLY ONE (1) of the these two options below	
based on initial Mathematics Placement: **	7-8	based on initial Mathematics Placement: **	7-8
OPTION 1:		OPTION 1:	
If student's initial Mathematics Placement is below MAT		If student's initial Mathematics Placement is below MAT	
1500:		1500:	
MAT 1000 - College Trigonometry <sup>^</sup>	3	MAT 1000 - College Trigonometry <sup>^</sup>	3
AND	3	AND	J 3
		Select one (1) course from the following:	
Select one (1) course from the following:	4		1
CS 13A0 - Advanced Programming Techniques MAT 1100 - Finite Mathematics	4	CS 13A0 - Advanced Programming Techniques	4
	4	MAT 1100 - Finite Mathematics	4
MAT 3200 - Introduction to Set Theory	4	MAT 3200 - Introduction to Set Theory	4
MAT 7100 - Applications of Linear Algebra and	4	MAT 7100 - Applications of Linear Algebra and Vector	4
Vector Analysis		Analysis	
ODTION 0.		ODTION 0.	
OPTION 2:		OPTION 2:	
If student's initial Mathematics Placement is MAT 1500:		If student's initial Mathematics Placement is MAT 1500:	
Select two (2) courses from the following:	4	Select two (2) courses from the following:	4
CS 13A0 - Advanced Programming Techniques	4	CS 13A0 - Advanced Programming Techniques	4
MAT 1100 - Finite Mathematics	4	MAT 1100 - Finite Mathematics	4
MAT 3200 - Introduction to Set Theory	4	MAT 3200 - Introduction to Set Theory	4
MAT 7100 - Applications of Linear Algebra and	4	MAT 7100 - Applications of Linear Algebra and Vector	4
Vector Analysis	4	Analysis	4
<b>ELECTIVES:</b> 0 - 6 credits sufficient to total 60 credits	0 - 6	ELECTIVES: 0 - 6 credits sufficient to total 60 credits	0.6
for the degree.	0-6	for the degree.	0 - 6
TOTAL:	60	TOTAL:	60
*This program has a waiver to require particular		*This program has a waiver to require particular courses	
courses in the Common Core, otherwise more than the		in the Common Core, otherwise more than the minimum	
minimum credits for the degree may be necessary.		credits for the degree may be necessary.	
^ Depending on Math placement, students may be		^ Depending on Math placement, students may be	
required to complete MAT 900, or MAT 9B0, and/or		required to complete MAT 900, or MAT 9010 or MAT	
MAT 1400 and MAT 1000.		9B0, and/or MAT 1400 and MAT 1000.	
**Consultation with the Mathematics Department is		**Consultation with the Mathematics Department is	
HIGHLY recommended to ensure that the student		HIGHLY recommended to ensure that the student	
selects the correct option.		selects the correct option.	
Selection life confect option.		jacieota tile correct option.	-
Department of Physical Sciences			
1. A.S. Chemistry			
HEGIS: 5619.00			-
Program Code: 01043			-
			<u> </u>
Change: Degree Requirements	I		I
EDOM:		ITO:	-
FROM:		TO:	
OHNIV CORE	ODEDITO	OUNIV CORE	ODEDITO
<u>CUNY CORE</u>	CKEDIIS	CUNY CORE	CREDITS
REQUIRED CORE: (4 Courses, 13Credits)	13	REQUIRED CORE: (4 Courses, 13Credits)	13
TARGETTE COLLEGE (T COURSES, TOOLCOILS)		TENTILE OUTE. (+ OUTSOS, TOOTOUTS)	
When Required Core Courses are specified for a		When Required Core Courses are specified for a	
category, they are required for the major		category, they are required for the major	
ENG 1200 - Composition I	3	ENG 1200 - Composition I	3

ENG 2400 - Composition II	3	ENG 2400 - Composition II	3
Mathematical and Quantitative Reasoning*:	3	Mathematical and Quantitative Reasoning*:	3
		MAT 9010 - Introduction to Mathematics with	
		College Algebra or	
MAT 9B0 - College Algebra for STEM Majors or		MAT 9B0 - College Algebra for STEM Majors or	
MAT 900 - College Algebra or		MAT 900 - College Algebra or	
MAT 1400 - Analytic Geometry and Pre-Calculus		MAT 1400 - Analytic Geometry and Pre-Calculus	
Mathematics or		Mathematics or	
MAT 1500 – Calculus I		MAT 1500 – Calculus I	
Life and Physical Sciences*:	4	Life and Physical Sciences*:	4
CHM 1100 - General Chemistry I		CHM 1100 - General Chemistry I	
FLEXIBLE CORE: (6 Courses, 20 Credits)	20	FLEXIBLE CORE: (6 Courses, 20 Credits)	20
When Flexible Core Courses are specified for a		When Flexible Core Courses are specified for a	
category, they are required for the major. One course		category, they are required for the major. One course	
from each Group A to D (Group E is satisfied by the		from each Group A to D (Group E is satisfied by the	
courses shown). No more than two courses can be		courses shown). No more than two courses can be	
selected from the same discipline.		selected from the same discipline.	
A. World Cultures and Global Issues		A. World Cultures and Global Issues	
B. U.S. Experience In Its Diversity		B. U.S. Experience In Its Diversity	
C. Creative Expression		C. Creative Expression	
D. Individual & Society		D. Individual & Society	
E. Scientific World*:		E. Scientific World*:	
CHM 1200 - General Chemistry II		CHM 1200 - General Chemistry II	
PHY 1300 – Advanced General Physics I		PHY 1300 – Advanced General Physics I	
FITT 1300 – Advanced General Fillysics I		FITT 1300 - Advanced General Physics I	
<b>DEPARTMENT REQUIREMENTS</b> : (7 Courses, 26 - 27		DEPARTMENT REQUIREMENTS: (7 Courses, 26 - 27	
Credits)		Credits)	
Additional Physical Sciences Requirements (3 Courses,	14	Additional Physical Sciences Requirements (3 Courses,	14
14 Credits)		14 Credits)	
CHM 3100 – Organic Chemistry I	5	CHM 3100 – Organic Chemistry I	5
CHM 3200 – Organic Chemistry II	5	CHM 3200 – Organic Chemistry II	5
PHY 1400 – Advanced General Physics II	4	PHY 1400 – Advanced General Physics II	4
Additional Mathematics Requirements (2 Courses, 6	6	Additional Mathematics Requirements (2 Courses, 6	6
Credits)		Credits)	
Select Two (2) additional courses beyond the		Select Two (2) additional courses beyond the	
Mathematical and Quantitative Reasoning (MQR)		Mathematical and Quantitative Reasoning (MQR)	
course from the following:		course from the following:	
MAT 1000 - College Trigonometry^		MAT 1000 - College Trigonometry <sup>^</sup>	
MAT 1400 - Analytic Geometry and Pre-Calculus		MAT 1400 - Analytic Geometry and Pre-Calculus	
Mathematics (Recommended)		Mathematics (Recommended)	
MAT 1500 - Calculus I (Recommended)		MAT 1500 - Calculus I (Recommended)	
MAT 1600 - Calculus II (Recommended)		MAT 1600 - Calculus II (Recommended)	
MAT 2100 - Calculus III		MAT 2100 - Calculus III	
MAT 5500 - Differential Equations		MAT 5500 - Differential Equations	
MAT 5600 - Linear Algebra		MAT 5600 - Linear Algebra	
Additional Colones and Mathematics Floribus (C	C 1 - 7	Additional Calanaa and Mathematics Floribus (C	64-7
Additional Science and Mathematics Electives (2	6 to 7	Additional Science and Mathematics Electives (2	6 to 7
Courses, 6 - 7 Credits)		Courses, 6 - 7 Credits)	
Elective Credits in CHM, CS, EGR, EPS, MAT, PHY, or		Elective Credits in CHM, CS, EGR, EPS, MAT, PHY, or	
ISCI		ISCI	

0 to 1	ELECTIVES: 0 - 1 credits sufficient to meet the	0 to 1
	required total 60 credits for the degree.	
	TOTAL OPERITO AS	
60	TOTAL CREDITS: 60	60
	*This program has a waiver to require particular courses	
e	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	
		ı
	TO:	
	10.	
CREDITS	CUNY CORE	CREDITS
12	DECILIDED CODE: // Courses 12Credita	13
13	, , ,	13
		3
		3
3		3
+		
+		
+		
	, , , , , , , , , , , , , , , , , , , ,	
4		4
	CHM 1100 - General Chemistry I	
20	FLEXIBLE CORE: (6 Courses, 20 Credits)	20
	When Flexible Core Courses are specified for a	
	·	
	, , , , , , , , , , , , , , , , , , , ,	
	selected from the same discipline.	
	A. World Cultures and Global Issues	
	C. Creative Expression	
	D. Individual & Society	
	E. Scientific World*:	
	EPS 3100 - Meteorology	
	Li d d tod - inictediology	
	CREDITS  13  3 3 3 3 4  4	required total 60 credits for the degree.  60 TOTAL CREDITS: 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  TO:  CREDITS CUNY CORE  13 REQUIRED CORE: (4 Courses, 13Credits)  When Required Core Courses are specified for a category, they are required for the major  3 ENG 1200 - Composition II  3 Mathematical and Quantitative Reasoning*:  MAT 9010 - Introduction to Mathematics with College Algebra or  MAT 990 - College Algebra or  MAT 990 - College Algebra or  MAT 1400 - Analytic Geometry and Pre-Calculus Mathematics or  MAT 1400 - Calculus I  4 Life and Physical Sciences*:  CHM 1100 - General Chemistry I  20 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  B. U.S. Experience In Its Diversity  C. Creative Expression  D. Individual & Society

<b>DEPARTMENT REQUIREMENTS:</b> (7 Courses, 26 Credits)	26	<b>DEPARTMENT REQUIREMENTS</b> : (7 Courses, 26 Credits)	26
Additional Physical Sciences Requirements (5 Courses, 20 Credits)		Additional Physical Sciences Requirements (5 Courses, 20 Credits)	
EPS 3200 – Oceanography	4	EPS 3200 - Oceanography	4
EPS 3300 – Physical Geography	4	EPS 3300 – Physical Geography	4
EPS 3500 – Astronomy	4	EPS 3500 – Astronomy	4
EPS 3600 – Planetology	4	EPS 3600 – Planetology	4
PHY 1100 – General Physics I	4	PHY 1100 – General Physics I	4
		,	
Additional Mathematics Requirements (2 Courses, 6 Credits)	6	Additional Mathematics Requirements (2 Courses, 6 Credits)	6
Select Two (2) additional courses beyond the		Select Two (2) additional courses beyond the	
Mathematical and Quantitative Reasoning (MQR)		Mathematical and Quantitative Reasoning (MQR)	
course from the following:			
		course from the following:	
MAT 1000 - College Trigonometry <sup>^</sup>		MAT 1000 - College Trigonometry <sup>A</sup>	
MAT 1400 - Analytic Geometry and Pre-Calculus		MAT 1400 - Analytic Geometry and Pre-Calculus	
Mathematics (Recommended)		Mathematics (Recommended)	
MAT 1500 - Calculus I (Recommended)		MAT 1500 - Calculus I (Recommended)	
MAT 1600 - Calculus II (Recommended)		MAT 1600 - Calculus II (Recommended)	
MAT 2100 - Calculus III		MAT 2100 - Calculus III	
MAT 5500 - Differential Equations		MAT 5500 - Differential Equations	
MAT 5600 - Linear Algebra		MAT 5600 - Linear Algebra	
<b>ELECTIVES</b> : 1 credit sufficient to meet the required total 60 credits for the degree.	1	<b>ELECTIVES</b> : 1 credit sufficient to meet the required total 60 credits for the degree.	1
TOTAL CREDITS: 60	60	TOTAL CREDITS: 60	60
*This program has a waiver to require particular		*This program has a waiver to require particular courses	
courses in the Common Core, otherwise more than the		in the Common Core, otherwise more than the minimum	
minimum credits for the degree may be necessary.		credits for the degree may be necessary.	
^ Depending on Math placement, students may be		^ Depending on Math placement, students may be	
required to select MAT 1000		required to select MAT 1000	
3. A.S. Engineering Science			
HEGIS: 5609.00			
Program Code: 87212			
Change: Degree Requirements	' I		
FROM:		TO:	
CUNY CORE	CREDITS	CUNY CORE	CREDITS
			==
REQUIRED CORE: (4 Courses, 13Credits)	13	REQUIRED CORE: (4 Courses, 13Credits)	13
When Required Core Courses are specified for a		When Required Core Courses are specified for a	
category, they are required for the major		category, they are required for the major	
ENG 1200 - Composition I	3	ENG 1200 - Composition I	3
ENG 2400 - Composition II	3	ENG 2400 - Composition II	3
Mathematical and Quantitative Reasoning*:	3	Mathematical and Quantitative Reasoning*:	3

		MAT 9010 - Introduction to Mathematics with	
		College Algebra or	
MAT 9B0 - College Algebra for STEM Majors or		MAT 9B0 - College Algebra for STEM Majors or	
MAT 900 - College Algebra or		MAT 900 - College Algebra or	
MAT 1400 - Analytic Geometry and Pre-Calculus		MAT 1400 - Analytic Geometry and Pre-Calculus	
Mathematics or		Mathematics or	
MAT 1500 – Calculus I		MAT 1500 – Calculus I	
Life and Physical Sciences*:	4	Life and Physical Sciences*:	4
CHM 1100 - General Chemistry I		CHM 1100 - General Chemistry I	
FLEXIBLE CORE: (6 Courses, 20 Credits)	20	FLEXIBLE CORE: (6 Courses, 20 Credits)	20
When Flexible Core Courses are specified for a		When Flexible Core Courses are specified for a	
category, they are required for the major. One course		category, they are required for the major. One course	
from each Group A to D (Group E is satisfied by the		from each Group A to D (Group E is satisfied by the	
courses shown). No more than two courses can be		courses shown). No more than two courses can be	
selected from the same discipline.		selected from the same discipline.	
A. World Cultures and Global Issues		A. World Cultures and Global Issues	
B. U.S. Experience In Its Diversity		B. U.S. Experience In Its Diversity	
C. Creative Expression		C. Creative Expression	
D. Individual & Society		D. Individual & Society	
E. Scientific World*:		E. Scientific World*:	
CHM 1200 - General Chemistry II		CHM 1200 - General Chemistry II	
PHY 1300 – Advanced General Physics I		PHY 1300 – Advanced General Physics I	
<b>DEPARTMENT REQUIREMENTS</b> : (9 to 12 Courses, 28 to 37 Credits)	28 - 37	<b>DEPARTMENT REQUIREMENTS</b> : (9 to 12 Courses, 28 to 37 Credits)	28 - 37
Additional Physical Sciences Requirements (4 Courses, 13 Credits)	13	Additional Physical Sciences Requirements (4 Courses, 13 Credits)	13
PHY 1400 – Advanced General Physics II	4	PHY 1400 – Advanced General Physics II	4
EGR 2100 – Engineering Design	3	EGR 2100 – Engineering Design	3
EGR 2200 – Introduction to Electrical Engineering	3	EGR 2200 – Introduction to Electrical Engineering	3
EGR 2300 – Introduction to Engineering	3	EGR 2300 – Introduction to Engineering	3
Thermodynamics		Thermodynamics	
ALES IN II S D I (5 0 0	45.04	A 1 177 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	45.04
Additional Mathematics Requirements (5 - 8 Courses, 15 - 24 Credits)	15 - 24	Additional Mathematics Requirements (5 - 8 Courses, 15 - 24 Credits)	15 - 24
Select five (5) to eight (8) additional courses beyond the		Select five (5) to eight (8) additional courses beyond the	
Mathematical and Quantitative Reasoning (MQR)		Mathematical and Quantitative Reasoning (MQR)	
course from the following:		course from the following:	
CS 1200 – Introduction to Computing		CS 1200 – Introduction to Computing	
MAT 1000 - College Trigonometry <sup>^</sup>		MAT 1000 - College Trigonometry <sup>^</sup>	
MAT 1400 - Analytic Geometry and Pre-Calculus		MAT 1400 - Analytic Geometry and Pre-Calculus	
Mathematics (Recommended)		Mathematics (Recommended)	
MAT 1500 - Calculus I (Recommended)		MAT 1500 - Calculus I (Recommended)	
MAT 1600 - Calculus II (Recommended)		MAT 1600 - Calculus II (Recommended)	
MAT 2100 - Calculus III		MAT 2100 - Calculus III	
MAT 5500 - Differential Equations		MAT 5500 - Differential Equations	
MAT 5600 - Linear Algebra		MAT 5600 - Linear Algebra	
<b>ELECTIVES</b> : 0 credits sufficient to meet the required	0	<b>ELECTIVES</b> : 0 credits sufficient to meet the required	0
total 60 credits for the degree.		total 60 credits for the degree.	
	I		

TOTAL CREDITS: 61 - 70	61 - 70	TOTAL CREDITS: 61 - 70	61 - 70
*This program has a waiver to require particular		*This program has a waiver to require particular courses	
courses in the Common Core, otherwise more than the		in the Common Core, otherwise more than the minimum	
minimum credits for the degree may be necessary.		credits for the degree may be necessary.	
^ Depending on Math placement, students may be		^ Depending on Math placement, students may be	
required to select MAT 1000		required to select MAT 1000	
4. A.S. Physics			
HEGIS: 5619.00			
Program Code: 01042			
Change: Degree Requirements			
FROM:		TO:	
CUNY CORE	CREDITS	CUNY CORE	CREDITS
REQUIRED CORE: (4 Courses, 13 Credits)	13	REQUIRED CORE: (4 Courses, 13 Credits)	13
When Required Core Courses are specified for a		When Required Core Courses are specified for a	
category, they are required for the major		category, they are required for the major	
ENG 1200 - Composition I	3	ENG 1200 - Composition I	3
ENG 2400 - Composition II	3	ENG 2400 - Composition II	3
Mathematical and Quantitative Reasoning*:	3	Mathematical and Quantitative Reasoning*:	3
Mathematical and Quantitative reacconing.	<u> </u>	MAT 9010 - Introduction to Mathematics with	
		College Algebra or	
MAT 9B0 - College Algebra for STEM Majors or		MAT 9B0 - College Algebra for STEM Majors or	
MAT 900 - College Algebra or		MAT 900 - College Algebra or	
MAT 1400 - Analytic Geometry and Pre-Calculus		MAT 1400 - Analytic Geometry and Pre-Calculus	
Mathematics or		Mathematics or	
MAT 1500 – Calculus I		MAT 1500 – Calculus I	
Life and Physical Sciences*:	1	Life and Physical Sciences*:	1
	4		4
CHM 1100 - General Chemistry I		CHM 1100 - General Chemistry I	
FLEXIBLE CORE: (6 Courses, 20 Credits)	20	FLEXIBLE CORE: (6 Courses, 20 Credits)	20
When Flexible Core Courses are specified for a		When Flexible Core Courses are specified for a	
category, they are required for the major. One course		category, they are required for the major. One course	
from each Group A to D (Group E is satisfied by the		from each Group A to D (Group E is satisfied by the	
courses shown). No more than two courses can be		courses shown). No more than two courses can be	
selected from the same discipline.		selected from the same discipline.	
·		'	
A. World Cultures and Global Issues	<u> </u>	A. World Cultures and Global Issues	
B. U.S. Experience In Its Diversity		B. U.S. Experience In Its Diversity	
C. Creative Expression	-	C. Creative Expression	
D. Individual & Society		D. Individual & Society	
E. Scientific World*:	-	E. Scientific World*:	
CHM 1200 - General Chemistry II PHY 1300 – Advanced General Physics I		CHM 1200 - General Chemistry II PHY 1300 – Advanced General Physics I	
FITT 1300 - Auvanceu General Filysics I		FITT 1000 - Auvanceu General Filysics I	
DEPARTMENT REQUIREMENTS: (8 Courses, 26 to 27 Credits)	26-27	DEPARTMENT REQUIREMENTS: (8 Courses, 26 to 27 Credits)	26-27
Additional Physical Sciences Requirements (4 Courses, 14 Credits)	14	Additional Physical Sciences Requirements (4 Courses, 14 Credits)	14

PHY 1400 – Advanced General Physics II	4	PHY 1400 – Advanced General Physics II	4
EGR 2200 – Introduction to Electrical Engineering (3	3	EGR 2200 – Introduction to Electrical Engineering (3	3
crs.)	•	crs.)	
EGR 2300 – Introduction to Engineering	3	EGR 2300 – Introduction to Engineering	3
Thermodynamics (3 crs.)	•	Thermodynamics (3 crs.)	
Thomas (o dis.)		Thombuynumioo (o oro.)	
Select one (1) from the following:		Select one (1) from the following:	
EPS 3100 - Meteorology		EPS 3100 - Meteorology	
EPS 3200 - Oceanography		EPS 3200 - Oceanography	
EPS 3300 - Physical Geology		EPS 3300 - Physical Geology	
EPS 3500 - Introduction to Astronomy		EPS 3500 - Introduction to Astronomy	
EPS 3600 - Planetology: A Trip Through the Solar		EPS 3600 - Planetology: A Trip Through the Solar	
System		System	
EPS 3800 - Introduction to Earth Science		EPS 3800 - Introduction to Earth Science	
LF 3 3000 - Introduction to Lattin Science		LF 3 3000 - Introduction to Earth Science	
Additional Mathematics Requirements (2 Courses, 6	6	Additional Mathematics Requirements (2 Courses, 6	6
Credits)	"	Credits)	0
Select Two (2) additional courses beyond the		Select Two (2) additional courses beyond the	
Mathematical and Quantitative Reasoning (MQR)		Mathematical and Quantitative Reasoning (MQR)	
course from the following:		course from the following:	
MAT 1000 - College Trigonometry^		MAT 1000 - College Trigonometry <sup>^</sup>	
MAT 1400 - Analytic Geometry and Pre-Calculus		MAT 1400 - Analytic Geometry and Pre-Calculus	
Mathematics (Recommended)		Mathematics (Recommended)	
MAT 1500 - Calculus I (Recommended)		MAT 1500 - Calculus I (Recommended)	
MAT 1600 - Calculus II (Recommended)		MAT 1600 - Calculus II (Recommended)	
MAT 2100 - Calculus III		MAT 2100 - Calculus III	
MAT 5500 - Differential Equations		MAT 5500 - Differential Equations	
MAT 5600 - Linear Algebra		MAT 5600 - Linear Algebra	
Additional Science and Mathematics Electives (2	6 -7	Additional Science and Mathematics Electives (2	6 -7
Courses, 6 to 7 Credits)		Courses, 6 to 7 Credits)	
Elective Credits in CHM, CS, EGR, EPS, MAT, PHY, or		Elective Credits in CHM, CS, EGR, EPS, MAT, PHY, or	
SCI		SCI	
<b>ELECTIVES</b> : 0 - 1 credits sufficient to meet the	0 - 1	<b>ELECTIVES</b> : 0 - 1 credits sufficient to meet the required	0 - 1
required total 60 credits for the degree.		total 60 credits for the degree.	
TOTAL CREDITS: 60	60	TOTAL CREDITS: 60	60
*This program has a waiver to require particular		*This program has a waiver to require particular courses	
courses in the Common Core, otherwise more than the		in the Common Core, otherwise more than the minimum	
minimum credits for the degree may be necessary.		credits for the degree may be necessary.	
^ Depending on Math placement, students may be		^ Depending on Math placement, students may be	
required to select MAT 1000		required to select MAT 1000	
5. A.S. Science for Forensics			
HEGIS: 5619.00			
Program Code: 34472			
Change: Degree Requirements			
FROM:		TO:	
CUNY CORE	CREDITS	CUNY CORE	CREDITS
		!	

REQUIRED CORE: (4 Courses, 13Credits)	13	REQUIRED CORE: (4 Courses, 13Credits)	13
When Required Core Courses are specified for a category, they are required for the major		When Required Core Courses are specified for a category, they are required for the major	
ENG 1200 - Composition I	3	ENG 1200 - Composition I	3
ENG 2400 - Composition II	3	ENG 2400 - Composition II	3
Mathematical and Quantitative Reasoning*:	3	Mathematical and Quantitative Reasoning*:	3
Inducernation and Quantitative Reasoning.	<u> </u>	MAT 9010 - Introduction to Mathematics with	<u> </u>
		College Algebra or	
MAT 9B0 - College Algebra for STEM Majors or		MAT 9B0 - College Algebra for STEM Majors or	
MAT 900 - College Algebra or		MAT 900 - College Algebra or	
MAT 1400 - Analytic Geometry and Pre-Calculus		MAT 1400 - Analytic Geometry and Pre-Calculus	
Mathematics or		Mathematics or	
MAT 1500 – Calculus I		MAT 1500 – Calculus I	
Life and Physical Sciences*:	4	Life and Physical Sciences*:	4
BIO 1300 - General Biology I	•	BIO 1300 - General Biology I	<u> </u>
BIO 1300 - General Biology 1		BIO 1300 - General Biology 1	
FLEXIBLE CORE: (6 Courses, 20 Credits)	20	FLEXIBLE CORE: (6 Courses, 20 Credits)	20
` ,		, ,	
When Flexible Core Courses are specified for a		When Flexible Core Courses are specified for a	
category, they are required for the major. One course		category, they are required for the major. One course	
from each Group A to D (Group E is satisfied by the		from each Group A to D (Group E is satisfied by the	
courses shown). No more than two courses can be		courses shown). No more than two courses can be	
selected from the same discipline.		selected from the same discipline.	
A. World Cultures and Global Issues		A. World Cultures and Global Issues	
B. U.S. Experience In Its Diversity		B. U.S. Experience In Its Diversity	
C. Creative Expression		C. Creative Expression	
D. Individual & Society		D. Individual & Society	
E. Scientific World*:		E. Scientific World*:	
BIO 1400 - General Biology II		BIO 1400 - General Biology II	
CHM 1100 – General Chemistry I		CHM 1100 – General Chemistry I	
DEPARTMENT REQUIREMENTS: (6 Courses, 25	25	DEPARTMENT REQUIREMENTS: (6 Courses, 25	25
Credits)		Credits)	
A cumulative grade point average of 2.50 or above,		A cumulative grade point average of 2.50 or above,	
which includes BIO 1300,BIO 1400, and CHM 1100 as		which includes BIO 1300,BIO 1400, and CHM 1100 as	
well as the following Physical Science Courses is		well as the following Physical Science Courses is	
required:		required:	
Additional Physical Sciences Requirements (5 Courses,	22	Additional Physical Sciences Requirements (5 Courses,	22
22 Credits)		22 Credits)	
CHM 1200 – General Chemistry II	4	CHM 1200 – General Chemistry II	4
CHM 3100 – Organic Chemistry I	5	CHM 3100 – Organic Chemistry I	5
CHM 3200 – Organic Chemistry II	5	CHM 3200 – Organic Chemistry II	5
PHY 1300 – Advanced General Physics I	4	PHY 1300 – Advanced General Physics I	4
PHY 1400 – Advanced General Physics II	4	PHY 1400 – Advanced General Physics II	4
Additional Mathematics Descriptors 4/4 Course 2	2	Additional Mathematics Descriptions of 44 Courses 2	2
Additional Mathematics Requirement (1 Course, 3 Credits)	3	Additional Mathematics Requirement (1 Course, 3 Credits)	3
Select one (1) additional course beyond the		Select one (1) additional course beyond the	
l , , ,		1 ' '	
Mathematical and Quantitative Reasoning (MQR)		Mathematical and Quantitative Reasoning (MQR)	
course from the following:		course from the following:	
MAT 1000 - College Trigonometry <sup>A</sup>		MAT 1000 - College Trigonometry <sup>A</sup>	
MAT 1400 - Analytic Geometry and Pre-Calculus		MAT 1400 - Analytic Geometry and Pre-Calculus	
Mathematics (Recommended)		Mathematics (Recommended)	

		I=	
MAT 1500 - Calculus I (Recommended)		MAT 1500 - Calculus I (Recommended)	
MAT 1600 - Calculus II (Recommended)		MAT 1600 - Calculus II (Recommended)	
FLECTIVES: O gradita sufficient to maget the required	2	FLECTIVES: 2 and its sufficient to most the required	2
<b>ELECTIVES:</b> 2 credits sufficient to meet the required		ELECTIVES: 2 credits sufficient to meet the required	2
total 60 credits for the degree.		total 60 credits for the degree.	
Completion of MAT 1600 - Calculus II is HIGHLY		Completion of MAT 1600 - Calculus II is HIGHLY	
recommended		recommended	
TOTAL CREDITS: 60	60	TOTAL ODEDITO: CO	60
IOTAL CREDITS: 60	60	TOTAL CREDITS: 60	00
*This program has a waiver to require particular		*This program has a waiver to require particular courses	
*This program has a waiver to require particular			
courses in the Common Core, otherwise more than the		in the Common Core, otherwise more than the minimum	
minimum credits for the degree may be necessary.		credits for the degree may be necessary.	
^ Depending on Math placement, students may be		^ Depending on Math placement, students may be	
required to select MAT 1000		required to select MAT 1000	
NEW COURSES			
Department of Mathematics and Computer Science	A		
1. MAT 9010 - Introduction to Mathematics with College			
	isite course	e per CUNY Math placement guidelines and are in need of	
developmental support.			
Corequisite: NONE			
Pre-/Co-requisite: NONE			
Credits: 3			
Hours: 6 hours lab			
exponents, polynomial operations, factoring techniques,	roots and an introduc	pics include real numbers, absolute value, integer and rati- radicals, linear and quadratic equations, graphing techniquetion to the study of functions. Students who have complet is appropriate for students majoring in STEM areas.	ies,
	Ι		
2. MAT 2010 - Integrated Statistics	<u>!</u>		
	isite course	e per CUNY Math placement guidelines and are in need of	
Corequisite: NONE			
Pre-/Co-requisite: NONE			
Credits: 3			
Hours: 6 hours lab			
probability theory, the normal distribution, hypothesis tes	sting, and r	Igebra and algebra. Main statistics topics are descriptive magnetic manalysis. This course is intended for students who course in statistics. Students who have completed MAT 1 dit for this course.	ho have
CHANGES IN EXISTING COURSES			
CHANGES IN EXISTING COURSES			
CHANGES IN EXISTING COURSES  Department of Allied Health, Mental Health and Hum	an Service	es	
	an Service	es	
Department of Allied Health, Mental Health and Hum		es	

Change: Pre-/Co-requisite	
FROM:	TO:
Pre-/Co-requisite: ENG 1200, BIO 1100, and MAT 9B0 or MAT 900	Pre-/Co-requisite: ENG 1200, BIO 1100, and MAT 9010 or MAT 980 or MAT 900
Change Pending Approval by Accrediting Body  2. PSG 103 - Clinical Practicum in Sleep Medicine I	
Change: Pre-/Co-requisite	
FROM:	TO:
Pre-/Co-requisite: PSG 101, PSG 102, PSG 106, MAT 900, and MAT 2000, BLS certification, and medical clearance from the internship site.	Pre-/Co-requisite: PSG 101, PSG 102, PSG 106, or MAT 9010 or MAT 9B0 or MAT 900, and MAT 2010 or MAT 2000, BLS certification, and medical clearance from the internship site.
Corequisite: PSG 104 and PSG 105	Corequisite: PSG 104 and PSG 105
Department of Mathematics and Computer Science	
1.MAT 500 - Introduction to Mathematical Thought Change: Prerequisite	
Change. Trerequisite	
FROM:	TO:
Prerequisite: For students who are eligible for a corequisite course per CUNY Math placement guidelines and likely to benefit from some developmental support, eligibility determined as follows: (1) Score of 40-56 on the Elementary Algebra portion of the ACCUPLACER CUNY Assessment Test in Math or (2) passed MAT M100 or (3) passed a Mathematics Department workshop culminating in passing the Departmental MAT M100 final exam.	Prerequisite: For students who are eligible for a corequisite course per CUNY Math placement guidelines and are in need of developmental support.
O MAT 200 Droefied Mathematics for Today to World	
2. MAT 800 - Practical Mathematics for Today's World Change: Prerequisite	
enange. Proroquiente	
FROM:	T0:
Prerequisite: (1) Successful completion of the Elementary Algebra portion of the ACCUPLACER CUNY Assessment Test in Math, or (2) A passing score on both the Pre-Algebra and Elementary Algebra portion of the CUNY Mathematics Skills Test (COMPASS), or (3) Successful completion of both the Pre-Algebra and Elementary Algebra CUNY Mathematics remediation, or (4) Math Exemption.	Prerequisite: (1) Successful completion of CUNY Mathematics remediation; or (2) Mathematics Proficiency per CUNY guidelines.
2 MAT 1000 College Triggers motor	
3. MAT 1000 - College Trigonometry Change: Prerequisite	
FROM: Prerequisite: MAT 900 or MAT 9B0	TO: Prerequisite: MAT 900 or MAT 9010 or MAT 9B0

4. MAT 1400 - Analytic Geometry and Pre-Calculus Mathema	itics
Change: Prerequisite	
FROM:	TO:
Prerequisite: MAT 900 or MAT 9B0 with a grade of "C"	Prerequisite: MAT 900 or MAT 9010 or MAT 9B0 with a
or higher	grade of "C" or higher
	T i
5. MAT 2000 - Elements of Statistics	
Change: Credit Hours	
FROM:	TO:
3 credits, 3 hours	3 credits, 4 hours (2 hours lecture, 2 hours lab)
Change: Course Description	
FDOM:	
FROM:	TO:
Concepts of statistics and probability, their application to today's world and the ethical use of data to analyze problems and questions. Topics include tabulation and graphing of distributions, central and dispersal tendencies, comparison techniques, correlations and predictive techniques. Instruction and practice in the use of statistical calculators. Students who have completed MAT 19A0 or BA 2200/MAT 2200 or MAT 9100/BIO 9100 will not receive credit for this course.	Concepts of statistics and probability, their application to today's world and the ethical use of data to analyze problems and questions. Topics include tabulation and graphing of distributions, central and dispersal tendencies, comparison techniques, correlations and predictive techniques. Instruction and practice in the use of statistical calculators. Students who have completed MAT 19A0 or MAT 2010 or BA 2200/MAT 2200 or MAT 9100/BIO 9100 will not receive credit for this course.
6. MAT/BA 2200 - Business Statistics Change: Prerequisite	
FROM:	TO:
Prerequisite: R300 or MAT 9B0 with a grade of "C" or higher	Prerequisite: R300 or MAT 9010 or MAT 9B0 with a grade of "C" or higher
Change: Course Description	
Change. Course Description	
FROM:	TO:
An introduction to probability and statistics as they apply to business applications including data summary measures, discrete random variables and probability distributions, sampling methodologies and analysis, hypothesis testing and regression analysis. Special emphasis will be given to solutions of practical business problems. Students who have completed MAT 19A0 or MAT 2000 or MAT 9100/BIO 9100 will not receive credit for this course.	An introduction to probability and statistics as they apply to business applications including data summary measures, discrete random variables and probability distributions, sampling methodologies and analysis, hypothesis testing and regression analysis. Special emphasis will be given to solutions of practical business problems. Students who have completed MAT 19A0 or MAT 2010 or MAT 2000 or MAT 9100/BIO 9100 will not receive credit for this course.
7.MAT/BIO 9100 - Biostatistics	
Change: Prerequisite	
FROM:	T0:
Prerequisite: MAT 900 or MAT 9B0	Prerequisite: MAT 900 or MAT 9010 or MAT 9B0

	<del></del>
Change: Course Description	
FROM:	TO:
An introduction to the theories and techniques relating to probability, statistics and data analysis as pertaining to biology. Discrete and continuous probability distributions are studied including binomial, normal and t-distributions. Classical and Bayesian statistics, estimation, hypothesis testing will be emphasized. SPSS software will be introduced and used in the laboratory achievements. Students who have completed MAT 19A0 or MAT 2000 or MAT 2200/BA 2200 will not receive credit for this course.	An introduction to the theories and techniques relating to probability, statistics and data analysis as pertaining to biology. Discrete and continuous probability distributions are studied including binomial, normal and t-distributions. Classical and Bayesian statistics, estimation, hypothesis testing will be emphasized. SPSS software will be introduced and used in the laboratory achievements. Students who have completed MAT 19A0 or MAT 2010 or MAT 2000 or MAT 2200/BA 2200 will not receive credit for this course.
Department of Physical Sciences	
CHM 100 - Preview of General Chemistry     Change: Pre-/Co-requisites	
FROM:	TO:
Pre-/Co-requisite: MAT 9B0 or MAT 900	Pre-/Co-requisite: MAT 9010 or MAT 9B0 or MAT 900
Corequisite: CHM 1100	Corequisite: CHM 1100
CHM 200 - Introduction to Green Chemistry     Change: Pre-/Co-requisites	
FROM:	TO:
Pre-/Co-requisite: MAT 9B0 or MAT 900	Pre-/Co-requisite: MAT 9010 or MAT 9B0 or MAT 900
3. CHM 1100 - General Chemistry I	,
Change: Prerequisites	
FROM:	TO:
Perquisite: MAT 9B0 or MAT 900 and CHM 200, or MAT 9B0 or MAT 900 and Chemistry Ready Placement Score placing into CHM 1100. Contact Department for Chemistry Ready Placement information, or Department Permission, <b>OR</b>	Perquisite: MAT 9010 or MAT 9B0 or MAT 900 and CHM 200, or MAT 9010 or MAT 9B0 or MAT 900 and Chemistry Ready Placement Score placing into CHM 1100. Contact Department for Chemistry Ready Placement information, or Department Permission, OR
Corequisite: CHM 100 based on Chemistry Ready Placement Score	Corequisite: CHM 100 based on Chemistry Ready Placement Score
Pre-/Co-requisite: NONE	Pre-/Co-requisite: NONE