KINGSBOROUGH COMMUNITY COLLEGE

Special Meeting of Curriculum Committee @ Chairs Meeting Wednesday, February 23, 2022

W	•	ebruary 23, 2022	
		0 AM	
		Meeting	
	MIN	UTES	
Members Attending:			
Carlos Arguelles (LIB)		Donald Hume (HPER)	
Anthony Borgese (TAH)		Jeffrey Lax (BUS)	
Scott Cally (COM)		John Mikalopas (PHY)	
Mary Dawson (BIO & Chair)		Stuart Parker (BEH)	
Thomas Eaton (ART)		Joanne Russell (Provost)	
Eileen Ferretti (ENG)		Jacob Segal (HIS)	
Richard Fruscione (AHMHHS)		Bridget Weeks (NUR)	
Alfonso Garcia-Osuna (WLC)		Rina Yarmish (MAT)	
Members Absent:		Guests:	
NONE		Amanda Kalin (Secretary of the Committee)	
		Sharon Warren Cook (Associate Provost & Chief	
		Student Affairs Officer)	
Special Meeting of the Curriculum Committee wad developmental courses effective Fall 2022. Chai	as required to irperson Yarm	ith. She welcomed all to the meeting and addressed meet the CUNY mandate for removal of all standalor hish thanked Secretary Kalin for her quick work to core two new courses, MAT 9010 and MAT 2010, that we	ne Instruct the
The following curriculum items were APPROVED voting purposes, due to their relation to new cour	•	v. Note: Some items were voted out of order or group equirements, and common changes.	ed for
SPECIAL ACTIONS			
Department of Health, Physical Education and	d Recreation		
Change Pending Approval by Accrediting Boo	yk		
1. A.A.S. Polysomnographic Technology			
HEGIS: 5299.00			
Program Code: 36624	11		
Change in Admission Criteria for A.A.S. Polysom	nographic Te	cnnology T	

Program Code: 36624			
Change in Admission Criteria for A.A.S. Polysomnog	raphic Te	chnology	
FROM:		TO:	
1. English and Math proficient as determined by the CUNY Proficiency Index, unless otherwise exempt, or have successfully completed any required developmental course(s).		1. 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	2. Students must complete BIO 1100*, MAT 9010* or MAT 980* or MAT 900*, ENG 1200, and PSG
minimum grade of "C".	100 with a minimum grade of "C".
3. Formal interview with the Program Director	3. 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 Therapis	t Assistant
FROM:	TO:
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.
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.
CHANGE IN DEGREE REQUIREMENT	
Department of Allied Health, Mental Health and Human	Services
Change Pending Approval by Accrediting Body	
A.A.S. Polysomnographic Technology	
HEGIS: 5299.00	
Program Code: 36624	
Change: Degree Requirements	

FROM:		то:	
CUNY CORE	CREDITS	CUNY CORE	CREDIT S
			3
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
MAT 2000 - Elements of Statistics		MAT 2000 - Elements of Statistics or	
		MAT 2010 - Integrated Statistics	
Life and Physical Sciences:	4	Life and Physical Sciences:	4
BIO 1100 - Human Anatomy and		BIO 1100 - Human Anatomy and Physiology	
Physiology I		1	
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		category, they are required for the major. Group D	
and E are satisfied by the courses shown:		and E are satisfied by the courses shown:	
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	
PHI 7600 - Ethics and Morality in the Health	3	PHI 7600 - Ethics and Morality in the Health	3
Professions	S	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 Credits):	34	DEPARTMENT REQUIREMENTS : (9 Courses, 34 Credits):	34
PSG 100 - The Science of Sleep and Circadian Rhythms	3	PSG 100 - The Science of Sleep and Circadian Rhythms	3
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 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.	
Change Pending Approval by Accrediting Body		<u> </u>	
A.A.S. Physical Therapist Assistant			
HEGIS: 5219.00			
Program Code: 5219.00			
Change: Degree Requirements	I		
FROM:		то:	
CUNY CORE	CREDITS	CUNY CORE	CREDIT
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 - 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 2010 - Integrated Statistics or	3
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		BIO 1100 - Human Anatomy and	
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		category, they are required for the major. Group C	
and E are satisfied by the courses shown:		and E 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		DEPARTMENT REQUIREMENTS: (12 Courses, 44	
Credits):	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 in the Common Core, otherwise more than		courses in the Common Core, otherwise more than	
the minimum credits for the degree may be		the minimum credits for the degree may be	
Department of Biological Sciences	_		
1. A.S. Biology			
HEGIS: 5604.00			
Program Code: 01039			<u> </u>
Change: Degree Requirements			
FROM:		то:	
CUNY CORE	CREDITS	CUNY CORE	CREDII S
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	
, , , , , , , , , , , , , , , , , , , ,	3	, , , , , , , , , , , , , , , , , , , ,	3
ENG 1200 - English Composition I	J	ENG 1200 - English Composition I	

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, 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		category, they are required for the major. One	
course from each Group A to D (Group E is satisfied		course from each Group A to D (Group E is satisfied	
by the courses shown). No more than two courses		by the courses shown). No more than two courses	
can be selected from the same discipline.		can be 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		MAT 1400 - Analytic Geometry and Pre-Calculus	
Mathematics		Mathematics	
DEPARTMENT REQUIREMENTS : (3 Courses, 11 to 12 Credits)	11 to 12	DEPARTMENT REQUIREMENTS : (3 Courses, 11 to 12 Credits)	11 to 12
CHM 1100 – General Chemistry I	4	CHM 1100 – General Chemistry I	4
	4	•	4
CHM 1200 - General Chemistry II		CHM 1200 - General Chemistry II	
CP 1100 - Introduction to Computers and Computer Applications (4 crs) or	4 - 3	CP 1100 - Introduction to Computers and Computer Applications (4 crs) or	4 - 3
BIO/CIS 6000 – Computer Applications in Bioinformatics (3 crs.)		BIO/CIS 6000 – Computer Applications in Bioinformatics (3 crs.)	
CONCENTRATIONS: (2 Courses, 8 Credits)	8	CONCENTRATIONS: (2 Courses, 8 Credits)	8
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 two (2) of the following Biology Laboratory		Select two (2) 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
DIO 0000 - Loology of		DIO 3300 - LCOIOGY OI	

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
ELECTIVES: 8 - 9 credits sufficient to meet the required total 60 credits for the degree.	8 - 9	ELECTIVES : 8 - 9 credits sufficient to meet the required total 60 credits for the degree.	8 - 9
Allied Health Transfer Option, Suggested Elective:		Allied Health Transfer Option, Suggested Elective:	
BIO/MAT 9100 – Biostatistics (4 crs.)		BIO/MAT 9100 – Biostatistics (4 crs.)	
Transfer to a Physician Assistant Program,		Transfer to a Physician Assistant Program,	
Suggested Elective:		Suggested Elective:	
BIO 5100 – Microbiology in Health and Disease (4		BIO 5100 – Microbiology in Health and Disease (4	
crs.)		crs.)	
TOTAL CREDITS: 60	60	TOTAL CREDITS: 60	60
This program has a waiver to require particular		rnis program nas a waiver to require particular	
courses in the Common Core, otherwise more than		courses in the Common Core, otherwise more than	
the minimum credits for the degree may be		the minimum credits for the degree may be	
2. A.S. Biotechnology			
HEGIS: 5407.00			
Program Code: 5407.00			
Change: Degree Requirements			
FROM:		TO:	
CUNY CORE	CREDITS	CUNY CORE	CKEDII
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 - 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
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.		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		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/MAT 9100 - Biostatistics		BIO/MAT 9100 - Biostatistics	
BIO 1400 - General Biology II		BIO 1400 - General Biology II	
DEPARTMENT REQUIREMENTS: (6 Courses, 23 Credits)	23	DEPARTMENT REQUIREMENTS: (6 Courses, 23 Credits)	23
BIO 5000 - General Microbiology or	4	BIO 5000 - General Microbiology or	4
BIO 5900 - Genetics		BIO 5900 - Genetics	
BIO 5800 - Recombinant DNA Technology or	4	BIO 5800 - Recombinant DNA Technology or	4
BIO 5700 - Biotechnology: Cell Culture and Cloning		BIO 5700 - Biotechnology: Cell Culture and Cloning	
BIO 6500 - Molecular and Cellular Biology	4	BIO 6500 - Molecular and Cellular Biology	4
CHM 1100 - General Chemistry I	4	CHM 1100 - General Chemistry I	4
CHM 1200 - General Chemistry II	4	CHM 1200 - General Chemistry II	4
BIO/CIS 6000 - Computer Applications in Bioinformatics	3	BIO/CIS 6000 - Computer Applications in Bioinformatics	3
ELECTIVES:		ELECTIVES:	
4 credits sufficient to meet the required total 60	4	4 credits sufficient to meet the required total 60	4
credits for the degree.		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 in the Common Core, otherwise more than		courses in the Common Core, otherwise more than	
the minimum credits for the degree may be		the minimum credits for the degree may be	
Department of Mathematics and Computer Science	ce		
1. A.A.S. Computer Information Systems			
HEGIS: 5101.00			

Program Code: 01055			
Change: Degree Requirements			ļ
FROM:		TO:	
CHNA CODE	CDEDITS	CUNY CORE	CREDIT
CUNY CORE	CKEDITS	CONT CORE	S
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.	
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^ or	
MAT 9B0 - College Algebra for STEM Majors [^]		MAT 9B0 - College Algebra for STEM Majors [^] or	
MAT 900 - College Algebra ^		MAT 900 - College Algebra [^]	
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		Select one (1) course from three (3) Groups A to E	
for a total of nine (9) credits. Each Course Must be		for a total of nine (9) credits. Each Course Must be	
in a <u>Different</u> Discipline		in a <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-	_	MAT 1400 – Analytic Geometry and Pre-	_
Calculus Mathematics * or	3	Calculus Mathematics * or	3
MAT/BA 2200 – Business Statistics*	4	MAT/BA 2200 – Business Statistics*	4
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DEGREE REQUIREMENTS: (11 Courses, 37 to 38		DEGREE REQUIREMENTS: (11 Courses, 37 to 38	
Credits)	37 - 38	Credits)	37 - 38
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	3	CIS 1500 - Applied Computer Architecture	3
CIS 3100 - Introduction to Database	3	CIS 3100 - Introduction to Database	3
ACC 1100 – Fundamentals of Accounting I or	3 - 4	ACC 1100 – Fundamentals of Accounting I or	3 - 4
		1	

BA 1100 - Fundamentals of Business		BA 1100 - Fundamentals of Business	
or DA 1000 D. I. I. I.		or DA 1000 D I I I	
BA 1200 - Business Law I		BA 1200 - Business Law I	
HE 1400 - Critical Issues in Personal Health	1	HE 1400 - Critical Issues in Personal Health	1
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
ELECTIVES: 0 -2 credits sufficient to total 60 credits for the degree.	0 - 2	ELECTIVES: 0 -2 credits sufficient to total 60 credits for the degree.	0 - 2
TOTAL:	60	TOTAL:	60
courses in the Common Core, otherwise more than the minimum credits for the degree may be ^ Depending on Math placement, students may be		courses in the Common Core, otherwise more than the minimum credits for the degree may be ^ Depending on Math placement, students may be	
required to complete MAT 900, or MAT 9B0, and MAT 1400.		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	•		
FROM:		TO:	
CUNY CORE	CREDITS	CUNY CORE	CREDIT S
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^		MAT 9B0 - College Algebra for STEM Majors^	
MAT 900 - College Algebra^ or		MAT 900 - College Algebra [^] or	
MAT 1400 - Analytic Geometry and Pre-		MAT 1400 - Analytic Geometry and Pre-Calculus	
Calculus Mathematics^ or		Mathematics [^] or	
MAT 1500 – Calculus I		MAT 1500 – Calculus I	
Life and Physical Sciences:	3	Life and Physical Sciences:	3
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		category, they are required for the major. One	
course from each Group A to D (Group E is satisfied		course from each Group A to D (Group E is satisfied	
by the courses shown). No more than two courses		by the courses shown). No more than two courses	
can be selected from the same discipline.		can be 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-		MAT 1400 - Analytic Geometry and Pre-Calculus	
Calculus Mathematics^ or		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	
		. 3	
DEGREE REQUIREMENTS : (7 to 9 Courses, 24 to	04 00	DEGREE REQUIREMENTS : (7 to 9 Courses, 24 to	04 00
30 Credits)	24 - 30	30 Credits)	24 - 30
CS 13A0 - Advanced Programming Techniques	4	CS 13A0 - Advanced Programming Techniques	4
CS 1400 - Computer Organization and Assembly		CS 1400 - Computer Organization and Assembly	
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 based on initial Mathematics Placement:**	3	Select ONLY ONE (1) of the these two options below based on initial Mathematics Placement:**	3
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 [^]		MAT 1000 - College Trigonometry [^]	
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
"This program has a waiver to require particular courses in the Common Core, otherwise more than the minimum credits for the degree may be		*This program has a waiver to require particular courses in the Common Core, otherwise more than the minimum credits for the degree may be	
^ 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.	
3. A.S. Mathematics			
HEGIS: 5617.00			
Program Code: 01041			
Change: Degree Requirements			L
FROM:		то:	
CUNY CORE	CREDITS	CUNY CORE	CREDII
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	
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	
IVIA 1 980 - College Algebra for STEIN Majors**		MAT 9B0 - College Algebra for STEM Majors^ or	
MAT 900 - College Algebra [^] or		MAT 900 - College Algebra [^] or	
MAT 1400 - Analytic Geometry and Pre-		MAT 1400 - Analytic Geometry and Pre-Calculus	
Calculus Mathematics [^] or		Mathematics [^] or	
MAT 1500 – Calculus I		MAT 1500 – Calculus I	
Life and Physical Sciences:	3		
,			
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		category, they are required for the major. One	
course from each Group A to D (Group E is satisfied		course from each Group A to D (Group E is satisfied	
by the courses shown). No more than two courses		by the courses shown). No more than two courses	
can be selected from the same discipline.		can be 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*A:		E. Scientific World*A:	
MAT 1400 - Analytic Geometry and Pre-		MAT 1400 - Analytic Geometry and Pre-Calculus	
Calculus Mathematics [^] or		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	
DEGREE REQUIREMENTS : (8 to 10 Courses, 24	24 - 30	DEGREE REQUIREMENTS : (8 to 10 Courses, 24 to	24 - 30
to 30 Credits)		30 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		MAT 2200/BA 2200 - Business Statistics	
CS 3500 - Discrete Structures	3	CS 3500 - Discrete Structures	3
MAT 3000 Introduction to Mathematical Concepts in	1	MAT 3000 Introduction to Mathematical Concepts in	1
Proof	'	Proof	'
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 based on initial Mathematics Placement: **	7-8	Select ONLY ONE (1) of the these two options below based on initial Mathematics Placement: **	7-8
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 [^]	3	MAT 1000 - College Trigonometry [^]	3
AND		AND	
Select one (1) course from the following:		Select one (1) course from the following:	
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 Vector Analysis	4	MAT 7100 - Applications of Linear Algebra and Vector Analysis	4
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 Vector Analysis	4	MAT 7100 - Applications of Linear Algebra and Vector Analysis	4
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
*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 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 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.	
	_		

Department of Physical Sciences			
1. A.S. Chemistry			
HEGIS: 5619.00			
Program Code: 01043			
Change: Degree Requirements	ļ		
FROM:		TO:	
CUNY CORE	CREDITS	CUNY CORE	CKEDII
			-
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-		MAT 1400 - Analytic Geometry and Pre-Calculus	
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		category, they are required for the major. One	
course from each Group A to D (Group E is satisfied		course from each Group A to D (Group E is satisfied	
by the courses shown). No more than two courses		by the courses shown). No more than two courses	
can be selected from the same discipline.		can be 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	
DEPARTMENT REQUIREMENTS : (7 Courses, 26 -		DEPARTMENT REQUIREMENTS : (7 Courses, 26 -	
27 Credits)		27 Credits)	
Additional Physical Sciences Requirements (3	14	Additional Physical Sciences Requirements (3	14
Courses, 14 Credits)		Courses, 14 Credits)	

CHM 3100 – Organic Chemistry I CHM 3200 – Organic Chemistry II	5	CHM 3100 – Organic Chemistry I 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 Credits)	6	Additional Mathematics Requirements (2 Courses, 6 Credits)	6
Select Two (2) additional courses beyond the Mathematical and Quantitative Reasoning (MQR) course from the following:		Select Two (2) additional courses beyond the Mathematical and Quantitative Reasoning (MQR) course from the following:	
MAT 1000 - College Trigonometry [^]		MAT 1000 - College Trigonometry [^]	
MAT 1400 - Analytic Geometry and Pre-Calculus Mathematics (Recommended) MAT 1500 - Calculus I (Recommended)		MAT 1400 - Analytic Geometry and Pre-Calculus Mathematics (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 Courses, 6 - 7 Credits)	6 to 7	Additional Science and Mathematics Electives (2 Courses, 6 - 7 Credits)	6 to 7
Elective Credits in CHM, CS, EGR, EPS, MAT, PHY, or SCI		Elective Credits in CHM, CS, EGR, EPS, MAT, PHY, or SCI	
ELECTIVES: 0 - 1 credits sufficient to meet the required total 60 credits for the degree.	0 to 1	ELECTIVES: 0 - 1 credits sufficient to meet the required total 60 credits for the degree.	0 to 1
TOTAL CREDITS: 60	60	TOTAL CREDITS: 60	60
rnis program has a waiver to require particular courses in the Common Core, otherwise more than the minimum credits for the degree may be		courses in the Common Core, otherwise more than the minimum credits for the degree may be	
^ Depending on Math placement, students may be required to select MAT 1000		^ Depending on Math placement, students may be required to select MAT 1000	
2. A.S. Earth and Planetary Sciences			
HEGIS: 5499.00			
HEGIS: 5499.00 Program Code: 34242			
HEGIS: 5499.00			
HEGIS: 5499.00 Program Code: 34242 Change: Degree Requirements		TO	
HEGIS: 5499.00 Program Code: 34242		TO:	
HEGIS: 5499.00 Program Code: 34242 Change: Degree Requirements FROM:	CREDITS	TO: CUNY CORE	CREDIT

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
Ü		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 Mathematics or		MAT 1400 - Analytic Geometry and Pre-Calculus 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 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.		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		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*:	
EPS 3100 - Meteorology		EPS 3100 - Meteorology	
EPS 3800 – Introduction to Earth Science		EPS 3800 – Introduction to Earth Science	
DEPARTMENT REQUIREMENTS: (7 Courses, 26 Credits)	26	DEPARTMENT REQUIREMENTS: (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 Mathematical and Quantitative Reasoning (MQR) course from the following:		Select Two (2) additional courses beyond the Mathematical and Quantitative Reasoning (MQR) course from the following:	

MAT 1000 - College Trigonometry [^]		MAT 1000 - College Trigonometry [^]	
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	
ELECTIVES : 1 credit sufficient to meet the required total 60 credits for the degree.	1	ELECTIVES : 1 credit sufficient to meet the required total 60 credits for the degree.	1
TOTAL CREDITS: 60	60	TOTAL CREDITS: 60	60
TOTAL OREDITO.	"	TOTAL GREDITO.	
Triis program nas a waiver to require particular		Triis program has a waiver to require particular	
courses in the Common Core, otherwise more than		courses in the Common Core, otherwise more than	
the minimum credits for the degree may be		the minimum credits for the degree may be	
^ Depending on Math placement, students may be		^ Depending on Math placement, students may be	
required to select MAT 1000		required to select MAT 1000	
2 A C Engineering Colones			
3. A.S. Engineering Science HEGIS: 5609.00			
Program Code: 87212			
Change: Degree Requirements	Ļ		
Change: Degree Requirements			
FROM:		TO:	
I ROW.		10.	
			CREDIT
CUNY CORE	CREDITS	CUNY CORE	S
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-		MAT 1400 - Analytic Geometry and Pre-Calculus	
Calculus Mathematics or		Mathematics or	
MAT 1500 – Calculus I		MAT 1500 – Calculus I	
Life and Physical Sciences*:	4	Life and Physical Sciences*:	4
	<u> </u>		

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		category, they are required for the major. One	
course from each Group A to D (Group E is satisfied		course from each Group A to D (Group E is satisfied	
by the courses shown). No more than two courses		by the courses shown). No more than two courses	
can be selected from the same discipline. A. World Cultures and Global Issues		can be selected from the same discipline.	
		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	
DEPARTMENT REQUIREMENTS: (9 to 12	28 - 37	DEPARTMENT REQUIREMENTS: (9 to 12	28 - 37
Courses, 28 to 37 Credits)		Courses, 28 to 37 Credits)	
Additional Physical Sciences Requirements (4	13	Additional Physical Sciences Requirements (4	13
Courses, 13 Credits)		Courses, 13 Credits)	
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	
Additional Mathematics Requirements (5 - 8	15 - 24	Additional Mathematics Requirements (5 - 8	15 - 24
Courses, 15 - 24 Credits)	13-24	Courses, 15 - 24 Credits)	15 - 24
Select five (5) to eight (8) additional courses beyond		Select five (5) to eight (8) additional courses beyond	
the Mathematical and Quantitative Reasoning		the Mathematical and Quantitative Reasoning	
(MQR) course from the following:		(MQR) course from the following:	
CS 1200 – Introduction to Computing		CS 1200 – Introduction to Computing	
MAT 1000 - College Trigonometry [^]		MAT 1000 - College Trigonometry [^]	
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	
ELECTIVES: 0 orgalita questicient to mage the	0	ELECTIVES: 0 credits sufficient to meet the	0
ELECTIVES : 0 credits sufficient to meet the required total 60 credits for the degree.		required total 60 credits for the degree.	U
Todalio de diodici de degree.		1.54564 total 65 stoute for the dogree.	
TOTAL CREDITS: 61 - 70	61 - 70	TOTAL CREDITS: 61 - 70	61 - 70

*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 select MAT 1000		^ Depending on Math placement, students may be 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	CREDIT S
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
		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 Mathematics or		MAT 1400 - Analytic Geometry and Pre-Calculus 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 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.		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		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	
DEPARTMENT REQUIREMENTS: (8 Courses, 26	26-27	DEPARTMENT REQUIREMENTS: (8 Courses, 26	26-27
to 27 Credits) Additional Physical Sciences Requirements (4 Courses, 14 Credits)	14	to 27 Credits) 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 crs.)	3	EGR 2200 – Introduction to Electrical Engineering (3 crs.)	3
EGR 2300 – Introduction to Engineering Thermodynamics (3 crs.)	3	EGR 2300 – Introduction to Engineering Thermodynamics (3 crs.)	3
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 System		EPS 3600 - Planetology: A Trip Through the Solar System	
EPS 3800 - Introduction to Earth Science		EPS 3800 - Introduction to Earth Science	
Additional Mathematics Requirements (2 Courses, 6 Credits)	6	Additional Mathematics Requirements (2 Courses, 6 Credits)	6
Select Two (2) additional courses beyond the Mathematical and Quantitative Reasoning (MQR) course from the following:		Select Two (2) additional courses beyond the Mathematical and Quantitative Reasoning (MQR) course from the following:	
MAT 1000 - College Trigonometry [^]		MAT 1000 - College Trigonometry [^]	
MAT 1400 - Analytic Geometry and Pre-Calculus Mathematics (Recommended)		MAT 1400 - Analytic Geometry and Pre-Calculus 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
Additional Science and Mathematics Electives (2 Courses, 6 to 7 Credits)		Additional Science and Mathematics Electives (2 Courses, 6 to 7 Credits)	
Elective Credits in CHM, CS, EGR, EPS, MAT, PHY, or SCI		Elective Credits in CHM, CS, EGR, EPS, MAT, PHY, or SCI	
ELECTIVES: 0 - 1 credits sufficient to meet the required total 60 credits for the degree.	0 - 1	ELECTIVES: 0 - 1 credits sufficient to meet the required total 60 credits for the degree.	0 - 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 in the Common Core, otherwise more than		courses in the Common Core, otherwise more than	
the minimum credits for the degree may be		the minimum credits for the degree may be	
necessary.		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:		то:	
			CREDIT
CUNY CORE	CREDITS	CUNY CORE	S
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-		MAT 1400 - Analytic Geometry and Pre-Calculus	
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	
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		category, they are required for the major. One	
course from each Group A to D (Group E is satisfied		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.		by the courses shown). No more than two courses can be 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	ļ	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)	20	Credits)	20
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		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:		Courses is required:	
Additional Physical Sciences Requirements (5 Courses, 22 Credits)	22	Additional Physical Sciences Requirements (5 Courses, 22 Credits)	22
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 Requirement (1 Course, 3 Credits)	3	Additional Mathematics Requirement (1 Course, 3 Credits)	3
Select one (1) additional course beyond the Mathematical and Quantitative Reasoning (MQR) course from the following:		Select one (1) additional course beyond the Mathematical and Quantitative Reasoning (MQR) course from the following:	
MAT 1000 - College Trigonometry^		MAT 1000 - College Trigonometry [^]	
MAT 1400 - Analytic Geometry and Pre-Calculus Mathematics (Recommended)		MAT 1400 - Analytic Geometry and Pre-Calculus Mathematics (Recommended)	
MAT 1500 - Calculus I (Recommended)		MAT 1500 - Calculus I (Recommended)	
MAT 1600 - Calculus II (Recommended)		MAT 1600 - Calculus II (Recommended)	
ELECTIVES : 2 credits sufficient to meet the required total 60 credits for the degree.	2	ELECTIVES : 2 credits sufficient to meet the required total 60 credits for the degree.	2
Completion of MAT 1600 - Calculus II is HIGHLY recommended		Completion of MAT 1600 - Calculus II is HIGHLY recommended	
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.	
^ Depending on Math placement, students may be required to select MAT 1000		^ Depending on Math placement, students may be required to select MAT 1000	
NEW COURSES			
NEW COURSES			

Department of Mathematics and Computer Science	e					
1. MAT 9010 - Introduction to Mathematics with College Algebra						
Prerequisite: For students who are eligible for a corequisite course per CUNY Math placement guidelines and are in need of						
developmental support.						
Corequisite: NONE						
Pre-/Co-requisite: NONE						
Credits: 3						
Hours: 6 hours lab						
<u>course Description</u> . This course is designed to provide students with an understanding or algebraic concepts, and skill and practice in the manipulation and utilization of these concepts. Such a background is essential for later mastery of a wide variety of courses in mathematics, computer studies, the sciences, and other areas. Topics include real numbers, absolute value, integer and rational exponents, polynomial operations, factoring techniques, roots and radicals, linear and quadratic equations, graphing techniques, systems of linear equations, Gaussian elimination, and an introduction to the study of						
		0 will not receive credit for this course. This course is	71			
annronriate for students majoring in STEM areas	1 100/11 00	Will not receive dream for this course. This course is				
2. MAT 2010 - Integrated Statistics						
Prerequisite: For students who are eligible for a corequisite course per CUNY Math placement guidelines and are in need of developmental support.						
Corequisite: NONE						
Pre-/Co-requisite: NONE						
Credits: 3						
Hours: 6 hours lab						
Course Description: Introduction to statistics, with integrated pre-algebra and algebra. Main statistics topics are descriptive measures, probability theory, the normal distribution, hypothesis testing, and regression analysis. This course is intended for students who have not achieved CUNY mathematics proficiency, and who want a first course in statistics. Students who have completed MAT 19A0, or MAT 2000, or MAT/BA 2200, or MAT/BIO 9100 will not receive credit for this course.						
*** INCODMATIONA	LITEMO	FOR COLLECT COLLNOIL ***				
""" INFORMATIONA	T II EM2	FOR COLLEGE COUNCIL ***				
CHANGES IN EXISTING COURSES						
Department of Allied Health, Mental Health and Hu	uman Ser	vices				
Change Pending Approval by Accrediting Body						
1. PSG 100 - The Science of Sleep and Circadian Rhythms						
Change: Pre-/Co-requisite						
FROM:		TO:				
Pre-/Co-requisite: ENG 1200, BIO 1100, and MAT 980 or MAT 900		Pre-/Co-requisite: ENG 1200, BIO 1100, and MAT 9010 or MAT 9B0 or MAT 900				
Observe Dending Assurant by Assuration Dedu						
Change Pending Approval by Accrediting Body 2. PSG 103 - Clinical Practicum in Sleep Medicine I						
Change: Pre-/Co-requisite						
Onange. 116700-164uisite						

FROM:	то:				
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 980 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					
FROM:	то:				
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	Prerequisite: For students who are eligible for a corequisite course per CUNY Math placement guidelines and are in need of developmental support.				
2. MAT 800 - Practical Mathematics for Today's World					
Change: Prerequisite					
FROM:	TO:				
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	Prerequisite: (1) Successful completion of CUNY Mathematics remediation; or (2) Mathematics Proficiency per CUNY guidelines.				
3. MAT 1000 - College Trigonometry					
Change: Prerequisite					
FROM:	то:				
Prerequisite: MAT 900 or MAT 9B0	Prerequisite: MAT 900 or MAT 9010 or MAT 9B0				
4. MAT 1400 - Analytic Geometry and Pre-Calculus Mathematics					
Change: Prerequisite					
FROM:	TO:				

Prerequisite: MAT 900 or MAT 9B0 with a grade of "C" or higher	Prerequisite: MAT 900 or MAT 9010 or MAT 9B0 with a grade of "C" or higher
5. MAT 2000 - Elements of Statistics	
Change: Credit Hours	
FROM:	то:
3 credits, 3 hours	3 credits, 4 hours (2 hours lecture, 2 hours lab)
Change: Course Description	
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	
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.	TO: An introduction to probability and statistics as triey 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
	Toolings
7.MAT/BIO 9100 - Biostatistics	
Change: Prerequisite	

FROM:	TO:
Prerequisite: MAT 900 or MAT 9B0	Prerequisite: MAT 900 or MAT 9010 or MAT 9B0
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 1. CHM 100 - Preview of General Chemistry	
Change: Pre-/Co-requisites	
Change. 116-700-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:

Prerequisite: 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, OR	Prerequisite: 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	