



A. SENDING AND RECEIVING INSTITUTIONS

Sending College: **Bronx Community College of the City University of New York**

Department: Chemistry & Chemical Technology

Program: Liberal Arts and Sciences, Chemistry Option

Degree: Associate in Science

Receiving College: **Herbert H. Lehman College**

Department: Anthropology

Program: Interdisciplinary Concentration in Anthropology (Physical), Biology, and Chemistry (Track II)

Degree: Bachelor of Science

B. ADMISSION REQUIREMENTS FOR SENIOR COLLEGE PROGRAM

(e.g., minimum GPA, audition/portfolio):

- Bronx Community College (B.C.C.) graduates are exempt from all lower-division Lehman College General Education Degree Requirements.
- To earn the Bachelor's Degree at Lehman, CUNY B.C.C. graduates need to complete the courses required for the major / minor, two upper-division interdisciplinary courses, one writing intensive course, and elective courses if needed.
- B.C.C. students will be required to attain a minimum GPA of 2.5

Anthropology (Physical), Biology, and Chemistry is an interdisciplinary major leading to the B.S. degree. The program serves several purposes:

1. to prepare students for specialization at the graduate level in one of several fields: human origins, human genetics, human growth, human adaptation, primatology, forensic anthropology, or criminalistics (forensic anthropology and criminalistics specializations utilize the facilities and staff of the Metropolitan Forensic Anthropology Team [MFAT] at Lehman College; MFAT personnel identify human skeletal and dental remains for law enforcement agencies, and students in these specializations receive practical experience through participation in MFAT investigations);
2. to prepare students for secondary-school teaching in the life sciences, with emphasis on human origins and biological variation in human groups; and
3. to prepare premedical and predental students.

B.C.C. Students would follow Track II--specialization in Criminalistics and for premedical, predental, and preveterinary students

Associate in Science Degree from Bronx Community College.

Bronx Community College graduates with the Associate Degree in Science will receive 60 credits toward the Bachelor of Science in Anthropology at Lehman College. In addition, they will be deemed to have met all general education requirements at Lehman College.

Total transfer credits granted toward the baccalaureate degree: 60

Total additional credits required at the senior college to complete baccalaureate degree: 60

C. COURSE TO COURSE EQUIVALENCIES AND TRANSFER CREDIT AWARDED

Core Requirements				Transfer Credit Granted
[Bronx Community College] Course & Title	Credit	[Lehman College] Course & Title	Credit	
ENG 10 Written Composition and Skills OR ENG 11 Fundamentals of Written Composition I	3	ENG 110 Principles of Effective Writing	3	3
ENG 12 Fundamentals of Written Composition II	3	ENG 120 Principles of Effective Writing II	3	3
CMS 11 Fundamentals of Interpersonal Communication	3	COM 204 Interpersonal and Small Group Communication	3	3
HIS 10 History of the Modern World OR HIS 11 Introduction to the Modern World	3	HIS 272 Contemporary European History	3	3
Physical Education Activity Course OR HLT 91 Critical Issues in Health	1 2	<i>Elective</i> HEA 265 Contemporary Health Problems	1 2	1-2
SUBTOTAL				13-14

Required Areas of Study				
[Bronx Community College] Course & Title	Credit	[Lehman College] Course & Title	Credit	Transfer Credit Granted
CHM 11 General Chemistry I	4	CHE 166 General Chemistry I CHE 167 General Chemistry Lab I	3 2	4
CHM 22 General Chemistry II with Qualitative Analysis	5	CHE 168 General Chemistry II CHE 169 General Chemistry Lab II	3 2	5
MTH 31 Analytical Geometry & Calculus I	4	MAT 175 Calculus I <i>Major Elective Credit</i>	4	4
MTH 32 Analytical Geometry & Calculus II	5	MAT 176 Calculus II <i>Possible Major Elective Credit</i> <i>See information on electives in Section D</i>	4	5
ART 11 Introduction to Art Or MUS 11 Introduction to Music	3	ARH 167 Tradition and Innovation in the Art of the West MSH 114 Introduction to Music	3	3
Humanities or Social Sciences: *PSY 11 Psychology <i>*Students are advised to complete PSY 11</i>	3	PSY 166 General Psychology <i>All PSY courses carry PSY 166 as a prerequisite</i>	3	3
Modern Language	0-8	Fulfill's Lehman College's Foreign Language Requirement		0-8
SUBTOTAL				21-29

Specialization Requirements for Chemistry Option				
[Bronx Community College] Course & Title	Credit	[Lehman College] Course & Title	Credit	Transfer Credit Granted
CHM 31 Organic Chemistry I	5	CHE 232 Organic Chemistry Lecture I CHE 233 Organic Chemistry Laboratory II	3 2	5
CHM 32 Organic Chemistry II	5	CHE 234 Organic Chemistry Lecture II CHE 235 Organic Chemistry Laboratory II	3 2	5
CHM 33 Quantitative Analysis	4	CHE 249 Quantitative Analysis <i>Major Elective Credit</i>	5	4
BIO 11 General Biology I Or PHY 11 Physics I <i> BCC Students are advised to take BIO 11</i>	4	BIO 166 Introduction to Organismic Biology PHY 166 General Physics I <i>BIO 166 (BIO 11) is the requirement for the A/B/C major and should be taken as the preferred choice; PHY 166 (PHY 11) may be counted as an elective at Lehman if desired</i>	4 5	4
SUBTOTAL				18

D. SENIOR COLLEGE UPPER DIVISION COURSES REMAINING FOR BACCALAUREATE DEGREE

		Credits
Biology: BIO 167 Principles of Biology <i>See above--Biology 11 (166) is required at Lehman</i>		4
Physical Anthropology: ANT 171 Introduction to Human Evolution ANT 269 Introduction to Human Variation		8
Quantative Methods: MAT 132 Basic Concepts of Probability and Statistics (4 cr) Or *ANT 322 Analyzing Anthropological Data Quantitatively (Prerequisite: two 3-credit ANT courses and completion of college requirement in mathematics) (3 cr) *May be utilized for quantitative methods when offered		3-4
Elective Credits: <i>Elective credits to total at least 60 credits when added to the number of required credits taken. Any course in the list below may be taken for elective credit. Those interested in Criminalistics should take CHE 266 (Introduction to Forensic Science) and consider extra Chemistry courses. As noted above, students in this track only may also include MAT 175-176 (Calculus I and II) and PHY 166-167 (General Physics I and II) as elective credits within the major. Preprofessional students may count any three of these courses, while other students may only receive credit for one course in each sequence. A total of 17 credits (18 if ANT 322 is counted), including CHM 33 plus physics and/or calculus, is required to complete this major.</i>		
ANT 206: Women and Men in Anthropological Perspective	3	BIO 268: Vertebrate Embryology 4
ANT 211: Introduction to Cultural Anthropology	3	BIO 302: Biogeography 4
ANT 212: Ancient Peoples and Cultures	3	BIO 331: Experimental Microbiology 4
ANT 271: Excavation of the Lehman College Site	4	BIO 333: Endocrine Physiology 4
ANT 300: Human Variation	3	BIO 339: Ecology 4
ANT 301: Human Origins	3	BIO 400: Biological Chemistry 4
ANT 302: Primate Behavior and Ecology	3	BIO 401: Biological Systematics 4
ANT 303: Human Osteology	4.5	BIO 432: Biological Fine Structure 3
ANT 305: Forensic Anthropology	3	BIO 433: Techniques in Electron Microscopy 3
ANT 306: Survey of Forensic Sciences	3	BIO 434: Radiation Biology 4
ANT 307: Anthropology of Growth	3	CHE 244-245: Biochemistry 4.5
ANT 309: Human Genetics	3	CHE 332: Physical Chemistry 1 3
ANT 310: Evolution of the Primates	3	CHE 334: Physical Chemistry 11 3
ANT 323: Methods and Philosophies in Paleoanthropology	3	CHE 335: Physical Chemistry Lab 3
ANT 332: Kinship, Marriage, & the Family	3	CHE 444: Biochemistry 1 3
ANT 334: Mind and Culture	3	CHE 446: Biochemistry 11 3
ANT 341: Medical Anthropology	3	GEH 320: Population Geography 3
ANT 360: Humans and the Environment	3	GEH 335: Problems in Human Ecology 3
ANT 371: Field and Laboratory Methods in Archaeology	4	<i>(GEO 100, 101, or 166 are Prerequisites for GEO 167)</i>
ANT 489: Independent Research in Anthropology (if relevant topic; up to 6 credits)		GEO 167: Evolution of the Earth 4
BIO 181: Anatomy and Physiology I	4	GEO 242: Introductory Paleontology 4
BIO 182: Anatomy and Physiology II	4	GEO 303: Stratigraphy and Sedimentology 4
BIO 183: Human Biology	4	GEO 342: Micropaleontology 4
BIO 184: Plants and People	4	<i>All of the following PSY courses carry PSY 166 as a prerequisite--BCC students who complete PSY 11 at BCC will have fulfilled the PSY 166 prerequisite</i>
BIO 226: Human Physiology	3.5	PSY 217: Child Psychology 3
BIO 227: Mammalian Histology	4	PSY 305: Experimental Psychology I 4
BIO 228: Mammalian Physiology	4	PSY 306: Experimental Psychology II 4
BIO 230: Microbiology	4	PSY 310: Psychology of Learning 3
BIO 238: Genetics	4	PSY 316: Physiological Psychology 3
BIO 241: Evolution, Species and Biogeography	3	PSY 318: Comparative Psychology and Ethology 3
BIO 267: Comparative Anatomy of the Vertebrates	4	
Subtotal		17-18

Interdisciplinary General Education Requirements After earning a minimum of 60 Credits, all students must complete two interdisciplinary courses: LEH 300 The Humanities LEH 301 The American Experience BCC Students will be required to complete one writing intensive course . Individual sections of LEH courses may be designated as writing intensive and such sections would count toward both requirements.	6
Free Electives	20-22
TOTAL	60

E. Articulation Agreement Follow-Up Procedures

1. Procedures for reviewing, up-dating, modifying or terminating agreement:

Bronx Community College Chemistry Option Curriculum Coordinator, Dr. Panayiotis Meleties (or successor), and Lehman Program Coordinator, Dr. Eric Delson (or successor), will review implementation of the agreement every two years to ensure that students are adequately informed of the program and to identify issues requiring attention.

2. Procedures for evaluating agreement, e.g., tracking the number of students who transfer under the articulation agreement and their success:

After transfer into the Lehman Interdisciplinary Concentration in Anthropology major, the performance of Bronx Community College students will be tracked using the CUNY Institutional Research Data Base. The Lehman Office of Institutional Research, Planning and Assessment will inform BCC about the academic progress of transfer students. Additionally, these students will be surveyed after graduation from Lehman to determine educational and occupational experience and success, and Lehman will share this information with BCC.

The Lehman College Interdisciplinary Concentration in Anthropology major provides advisement to all students entering the major.

3. Sending and receiving college procedures for publicizing agreement, e.g., college catalogs, transfer advisers, Websites, etc.:

Notice of articulation will be placed in the respective catalogues, recruiting brochures, websites, and on the CUNY TIPPS website.

Respective transfer and academic advisers will be informed and provided with copies of this agreement.

The Lehman Department of Anthropology will coordinate efforts with Lehman's Admissions Office to make certain that materials are sent with recruitment officers for BCC's annual Transfer Day event.

F. Additional Information

The Maizie Hirsch award of \$5000. is presented to a student graduating with an A/B/C degree who is accepted to Medical or Dental School within several years of graduation.