

EXHIBIT A

Brookdale Community College in Chemistry Option to  
BA/BS in Chemistry at ESU

Transfer Credits:

General Education, Pre-Requisite, Co-Requisite Equivalencies			
Brookdale Community College		East Stroudsburg University	
Course Number	Credit	Course Number	Credit
CHEM101 - General Chemistry I	5	CHEM 121-GN: General Chemistry I and CHEM 123-GN: General Chemistry I Lab	4
MATH153 - Pre-Calculus Mathematics	4	MATH 135-GN: Pre-Calculus	3
ENGL 121- English Composition: The writing process	3	ENGL 103-English Composition	3
Humanities	3-4	General Education Elective	3-4
CHEM102 - General Chemistry II	5	CHEM 124-GE: General Chemistry II and CHEM 126-GE: General Chemistry II Lab	4
ENGL122 - English Composition: Writing and Research	3	ENGL 203-GN: Advanced Composition	3
Social Sciences	3	General Education Elective	3
MATH171 - Calculus I	4	MATH 140-GN: Calculus I	4
CHEM203 - Organic Chemistry I	5	CHEM 233-Organic Chemistry I and CHEM 235-Organic Chemistry I Lab	4
MATH172 - Calculus II	4	MATH 141: GN: Calculus II	4
PHYS121 - General Physics I	4	PHYS 161: GN: Physics I	4
Humanities or Social Sciences	3-4	General Education Elective	3-4
CHEM204 - Organic Chemistry II	5	CHEM 234-Organic Chemistry II and CHEM 236-Organic Chemistry II Lab	4
PHYS122 - General Physics II	4	PHYS 162: GE: Physics II	4
COMP126 - Computer Logic and Design	3	CPSC 299-Departmental Elective	3
<b>Or</b>			
COMP129 - Information Technology			
Elective Credits	0-2	Electives	0-7
<b>TOTAL</b>	<b>60</b>	<b>TOTAL</b>	<b>60</b>

EXHIBIT A

**Brookdale Community College in Chemistry Option to  
BS in Chemical Biotechnology at ESU**

**Transfer Credits:**

<b>General Education, Pre-Requisite, Co-Requisite Equivalencies</b>			
<b>Brookdale Community College</b>		<b>East Stroudsburg University</b>	
<b>Course Number</b>	<b>Credit</b>	<b>Course Number</b>	<b>Credit</b>
CHEM101 - General Chemistry I	5	CHEM 121-GN: General Chemistry I and CHEM 123-GN: General Chemistry I Lab	4
MATH153 - Pre-Calculus Mathematics	4	MATH 135-GN: Pre-Calculus	3
ENGL 121- English Composition: The writing process	3	ENGL 103-English Composition	3
Humanities	3-4	General Education Elective- Arts and Letters-Group A	3-4
CHEM102 - General Chemistry II	5	CHEM 124-GE: General Chemistry II and CHEM 126-GE: General Chemistry II Lab	4
ENGL122 - English Composition: Writing and Research	3	ENGL 203-GN: Advanced Composition	3
Social Sciences	3	General Education Elective	3
MATH171 - Calculus I	4	MATH 140-GN: Calculus I	4
CHEM203 - Organic Chemistry I	5	CHEM 233-Organic Chemistry I and CHEM 235-Organic Chemistry I Lab	4
MATH172 - Calculus II	4	MATH 141: GN: Calculus II	4
PHYS121 - General Physics I	4	PHYS 161: GN: Physics I	4
Humanities or Social Sciences	3-4	General Education Elective	3-4
CHEM204 - Organic Chemistry II	5	CHEM 234-Organic Chemistry II and CHEM 236-Organic Chemistry II Lab	4
PHYS122 - General Physics II	4	PHYS 162: GE: Physics II	4
COMP126 - Computer Logic and Design	3	CPSC 299-Departmental Elective	3
<b>Or</b>			
COMP129 - Information Technology			
BIOL101-General Biology I	4	BIOL 114: GN: Introductory Biology I	4
<b>TOTAL</b>	<b>62-64</b>	<b>TOTAL</b>	<b>62-64</b>

\* BIOL101 is the recommended elective for ESU.

EXHIBIT A

**Brookdale Community College in Environmental Science to  
BS in Environmental Science at ESU**

**Transfer Credits:**

<b>General Education, Pre-Requisite, Co-Requisite Equivalencies</b>			
<b>Brookdale Community College</b>		<b>East Stroudsburg University</b>	
<b>Course Number</b>	<b>Credit</b>	<b>Course Number</b>	<b>Credit</b>
ENGL121 - English Composition: The Writing Process	3	ENGL 103-English Composition	3
BIOL101 - General Biology I	4	BIOL 114: GN: Introductory Biology I	4
ENVR107 - Environmental Science	4	BIOL 104-GN: Human Ecology	4
Humanities	3	General Education	3
ENGL122 - English Composition: Writing and Research	3	ENGL 203-GN: Advanced Composition	3
BIOL102 - General Biology II	4	BIOL 115-GE: Introductory Biology II	4
ENVR108 - Principles of Sustainability	3	BIOL 210-GE: Environmental Biology	3
MATH153 - Pre-Calculus Mathematics OR MATH171 - Calculus I	4	MATH 135-GN: Pre-Calculus OR MATH 140-GN: Calculus I	4
Career Studies	4	Elective	4
BIOL208 - Ecology and Field Biology	4	BIOL 200-General Ecology	4
CHEM101 - General Chemistry I	5	CHEM 121-GN: General Chemistry I and CHEM 123-GN: General Chemistry I Lab	4
ENVR111 - Oceanography	4	BIOL 299-Departmental Elective	4
Social Sciences	3	General Education	3
CHEM102 - General Chemistry II	5	CHEM 124-GE: General Chemistry II and CHEM 126-GE: General Chemistry II Lab	4
POLI228 - Environmental Politics and Policy	3	POLS 299-Departmental Elective	3
Humanities or Social Sciences	3	General Education	3
Career Studies Credits	3-4	Elective	3-4
COMP129 - Information Technology	3	CPSC 103-GN: Introduction to Information Technology	3
<b>TOTAL</b>	<b>63-66</b>	<b>TOTAL</b>	<b>63-66</b>

EXHIBIT A

**Brookdale Community College in Mathematics Option to  
BA/BS in Mathematics at ESU**

**Transfer Credits:**

<b>General Education, Pre-Requisite, Co-Requisite Equivalencies</b>			
<b>Brookdale Community College</b>		<b>East Stroudsburg University</b>	
<b>Course Number</b>	<b>Credit</b>	<b>Course Number</b>	<b>Credit</b>
MATH171 - Calculus I	4	MATH 140-GN: Calculus I	4
MATH131 - Statistics	4	MATH 110: GN: Statistics	4
ENGL 121- English Composition: The writing process	3	ENGL 103-English Composition	3
Humanities	3-4	General Education Elective-Arts and Letters-Group A	3-4
MATH172 - Calculus II	4	MATH 141: GN: Calculus II	4
PHYS121 - General Physics I	4	PHYS 161: GN: Physics I	4
ENGL122 - English Composition: Writing and Research	3	ENGL 203-GN: Advanced Composition	3
Career Studies Credits	3-4	Elective credits	3-4
MATH273 - Calculus III	4	MATH 240-Multivariate Calculus	4
PHYS122 - General Physics II	4	PHYS 162: GE: Physics II	4
Humanities or Social Sciences	3-4	General Education Elective-Social Science-Group C	3-4
Technological Competency COMP126 or COMP129	3	General Education Elective-Science-Group B	3-4
Humanities or Social Science	3	Electives	3
MATH274 - Elementary Differential Equations	4	MATH 341: Differential Equations	3
General Education Credits	4	General Education Elective-Social Science-Group C	4
Elective Credits	0-5	Elective credits	0-5
<b>TOTAL</b>	<b>60</b>	<b>TOTAL</b>	<b>60</b>

EXHIBIT A

**Brookdale Community College in Physics Option to  
BA/BS in Physics at ESU**

**Transfer Credits:**

<b>General Education, Pre-Requisite, Co-Requisite Equivalencies</b>			
<b>Brookdale Community College</b>		<b>East Stroudsburg University</b>	
<b>Course Number</b>	<b>Credit</b>	<b>Course Number</b>	<b>Credit</b>
MATH153 - Pre-Calculus Mathematics	4	MATH 135-GN: Pre-Calculus	3
MATH171 - Calculus I	4	MATH 140-GN: Calculus I	4
ENGL 121- English Composition: The writing process	3	ENGL 103-English Composition	3
Social Sciences	3	General Education	3
General Education	3	General Education	3
MATH172 - Calculus II	4	MATH 141: GN: Calculus II	4
PHYS121 - General Physics I	4	PHYS 161: GN: Physics I	4
ENGL122 - English Composition: Writing and Research	3	ENGL 203-GN: Advanced Composition	3
Humanities	3	General Education	3
MATH273 - Calculus III	4	MATH 240-Multivariate Calculus	4
PHYS122 - General Physics II	4	PHYS 162: GE: Physics II	4
Sciences (with lab)- <i>ESU suggests- CHEM 101-General Chemistry I</i>	4-5	CHEM 121-GN: General Chemistry I and CHEM 123-GN: General Chemistry I Lab	4
COMP126 - Computer Logic and Design	3	CPSC 299-Departmental Elective	3
Or			
COMP129 - Information Technology			
PHYS223 - General Physics III	4	PHYS 261-Physics III	4
Social Sciences or Humanities	3	General Education	3
Electives	4-6	Electives	4-7
<b>TOTAL</b>	<b>60</b>	<b>TOTAL</b>	<b>60</b>

## EXHIBIT A

<b>General Education Equivalencies</b>			
<b>Brookdale CC</b>		<b>East Stroudsburg University</b>	
<b>Course Number</b>		<b>Course Number</b>	
ENGL 158-Introduction to Literature  ENGL 155-The Short Story ARTS 111-Drawing I ARTH 105-Art Appreciation COMM 102-Communication Media  MUSI 111-Music Appreciation MUSI 101-Fundamentals of Music THTR 105-Theater Appreciation PHIL 115-Introduction to Philosophy PHIL 105-Practical Reasoning PHIL 227-Introduction to Ethics FRCH 101-Elementary French I ITAL 101-Elementary Italian I SPAN 101-Elementary Spanish I		Arts and Letters- Group A:  ENGL 162-GN: Introduction to Literary Analysis and Interpretation ENGL 284-GN: Short Story ART 151-GN: Basic Drawing ART 201-GN: History of Art I CMST 126-GN: Introduction to Mass Media MUS 100-GN: Introduction Music MUS 101-GN: Fundamentals of Music THTR 100-GN: Introduction to Theatre PHIL 110-GN: Introduction to Philosophy PHIL 221-GN: Logic I PHIL 231-GN: Ethics MLFR 116-GN: French I MLIT 116-GN: Italian I MLSP 116-GN: Spanish I	
BIOL 101-General Biology I CHEM 100-Principles of Chemistry  CHEM 101-General Chemistry I  COMP 129-Information Technology MATH 131-Statistics MATH 145-Algebraic Modeling  MATH 153-Pre-Calculus Mathematics MATH 171-Calculus I PHYS 106-Astronomy  PHYS 111-General Physics I PSYC 105-Introduction to Psychology I PSYC 106-Introduction to Psychology II PSYC 208-Life Span Development		Science Group-Group B:  BIOL 114-GN: Introductory Biology I CHEM 101-GN: Modern Chemical Science CHEM 121 and CHEM 123-GN: General Chemistry I and Lab CPSC 100-GN: PC's and Their Uses MATH 110-GN: General Statistics MATH 130-GN: Applied Algebraic Methods MATH 135-GN: Pre-Calculus MATH 140-GN: Calculus I PHYS 121-GN: Astronomy: The Sky and Solar System PHYS 131-GN: Fundamental Physics I PSY 101-GN: Introduction to Psychology PSY 100-GN: General Psychology PSY 225-GN: Lifespan Developmental Psychology	

<b>General Education Equivalencies (continued)</b>			
<b>Brookdale CC</b>		<b>East Stroudsburg University</b>	
<b>Course Number</b>		<b>Course Number</b>	
ECON 105-Macro Economics ECON 106-Micro Economics GEOG 105-Introduction to Physical Geography HGEO 105-Human Geography HIST 105-World Civilization I HIST 106-Western Civilization II HIST 135-American Civilization I  HIST 137-Recent American History  POLI 101-Intro to Political Science  POLI 105-American National Government ANTH 105-Anthropology  SOC 101-Principles of Sociology SOC 215-Marriage and the Family SOC 202-Analysis Social Problems		Social Science-Group C: ECON 111-GN: Macroeconomics ECON 112-GN: Microeconomics GEOG 120-GN: Physical Geography  GEOG 110-GN: Cultural Geography HIST 111-GN: World History to 1500 HIST 113-GN: World History since 1500 HIST 141-GN: United States History to 1877 HIST 143-GN: United States History since 1877 POLS 111-GN: Principles of Political Science POLS 120-GN: American Government  SOC 102-GN: Introduction to Cultural Diversity  SOC 111-GN: Introduction to Sociology SOC 231-GN: Marriage and Family SOC 241-GN: Contemporary Social Problems	

\*Please note: Not every General Education course from Brookdale is listed above, however, ESU accepts a "C" or higher for transfer credits and all courses will be evaluated for transferability.