

## General Education

General education is “instruction that presents forms of expression, fields of knowledge, and methods of inquiry fundamental to intellectual growth and to a mature understanding of the world and the human condition, as distinguished from ‘specialized education’, which prepares individuals for particular occupations or specific professional responsibilities” (N.J.A.C. 9A: 1-1.2).

All programs leading to an associate degree at Brookdale will include a distribution of courses in the general education portion of the curricula from the following major knowledge areas:

- Communications (C)
- Humanities (HU)
- Social Sciences (SS)
- Mathematics (M)
- Sciences (SC)

- Technological Competency or Information Literacy (IT)
- History (HI)
- Cultural and Global Awareness (CG)
- Ethical Dimension (E)

Students should choose their general education courses based upon the degree sought and their transfer plans. Student Development Specialists (Counselors) work with students to design a plan of study and approve the plan in the name of the College.

General Education courses are marked with a (●) in the course description section of the catalog. A list of General Education courses by category is on pages 53-56.

General education requirements for each degree program are summarized in the table below:

<i>General Education Knowledge Areas</i>		<b>Associate in Arts (A.A.)</b>	<b>Associate in Science (A.S.)</b>		<b>Associate in Applied Science (A.A.S.) or Fine Arts (A.F.A.)</b>	<b>Academic Credit Certificate</b>
1	Communications (C)	<b>9 credits</b> [2 composition and 1 speech course]	<b>6 credits</b> [2 composition courses]		<b>6 credits</b> [1 composition (writing) course; 2 <sup>nd</sup> course may be composition or speech]	<b>3 credits</b> [1 composition course]
2	Humanities (HU)	<b>9 credits</b>	<b>3 credits</b> <sup>(1)</sup>	<b>3 credits</b> <sup>(1)</sup>	<b>3 credits</b>	<b>3 credits</b>
3	Social Sciences (SS)	<b>6 credits</b>	<b>3 credits</b> <sup>(1)</sup>			
4	Mathematics (M)	3-8	3-8	<b>9 credits</b> <sup>(4)</sup>	<b>3 credits</b>	
	Sciences (SC) <sup>(2)</sup>	4-8 <sup>(2)</sup>	4-8 <sup>(2)</sup>			
	Technological Competency or Information Literacy (IT) <sup>(3)</sup>	0-4 <sup>(3)</sup>	0-4 <sup>(3)</sup>			
5	History (HI)	<b>6 credits</b>				
6	Cultural and Global Awareness (CG) <sup>(5)</sup>	<b>3 credits</b> <sup>(5)</sup>	3 credits are recommended		3 credits are recommended	
7	Ethical Dimension (E)	At least one course in the student’s program of study must contain an ethical dimension. This course, which can come from any of the above knowledge areas or career course, should contain a component that helps the student recognize, analyze and assess ethical issues and situations.				
	<i>Additional Credits</i>		<b>6 credits</b> Courses from any category		<b>8 credits</b> Courses from any category	
	<b>REQUIRED GENERAL EDUCATION CREDITS</b> <sup>(6)</sup>	<b>45</b>	<b>30</b>		<b>20</b>	<b>6</b>

<sup>(1)</sup> Students must take 3 credits in Humanities and 3 credits in Social Sciences, plus an additional 3 credits in either category for a total of 9 credits.

<sup>(2)</sup> A laboratory science course is required for A.A. and A.S. degree students.

<sup>(3)</sup> Technological Competency or Information Literacy can be satisfied in accordance with the Programs of Study requirements on pp. 51-52. Students should consult a Counselor.

<sup>(4)</sup> Students must complete a minimum of 12 credits for the AA degree and 9 credits for the AS degree to fulfill the requirements for the Mathematics (M), Sciences (SC) and Technological Competency or Information Literacy (IT) knowledge areas.

<sup>(5)</sup> Students meeting this requirement while simultaneously fulfilling the General Education requirement for another knowledge area will need to take three credits from any General Education knowledge area to satisfy the 45 credit requirement for the A.A. degree.

<sup>(6)</sup> Students may exceed required number of General Education credits depending on course selection for Mathematics (M), Sciences (SC) and Technological Competency or Information Literacy (IT) or Humanities.

A description of the General Education courses that meet the requirements of each General Education category are described in the following Programs of Study section for each degree program.

# Programs of Study

## Associate in Arts (A.A.)

The Associate in Arts programs serve students who plan to transfer to four-year colleges. These institutions require a broad range of general education courses for freshman and sophomores, and concentrate on major-related courses in the junior and senior years. This degree includes no fewer than **45 general education credits** from the following knowledge areas.

1. **Communications (C) - 9 credits** to include two Composition (writing) courses and one Speech course.
2. **Humanities (HU) - 9 credits** in any broad-based courses in the history of or appreciation of Art, Music, and Theater; Literature; Foreign Language; Philosophy; Religious Studies; or additional broad-based history course in Western, non-Western, American, or World (Civilization) History.
3. **Social Sciences (SS) - 6 credits** selected from introductory courses in Anthropology, Economics, Geography, Political Science, Psychology or Sociology.
4. **Mathematics (M), Sciences (SC), and Technological or Information Literacy Competency (IT) - 12 credits** including 3-8 credits in Mathematics at a level that minimally requires a prerequisite of basic algebra; 4-8 credits in science in general biology, chemistry, physics, or environmental sciences, at least one of which must have a laboratory component; 0-4 credits in a rigorous introduction to computer science or a computer applications course or by taking comparable coursework that emphasizes common computer skills and/or helps students access, analyze, and communicate information using appropriate technologies. A student may be waived from the Technological/Information Literacy competency requirement by passing a proficiency exam or by taking comparable coursework within other portions of his or her studies. Such courses will be designated in the catalog by a (t).
5. **History (HI) - 6 credits** selected from broad-based courses in Western, non-Western, American or World (Civilization) History.
6. **Cultural and Global Awareness (CG) (Diversity): - 3 credits** One course is required from those courses designated with a (CG). This designation is for any course that significantly helps students analyze the implications of the commonalities and differences among culturally diverse people. Students may meet this requirement while simultaneously fulfilling the General Education requirement for another knowledge area or other program requirements. **Note: Students who fulfill this requirement by taking a course from another knowledge area will need to take three credits from any General Education knowledge area to satisfy the 45-credit requirement for this degree.**
7. **Ethical Dimension (E):** At least one course in the student's program of study must contain an ethical dimension,

a course which contains a component that helps the student to recognize, analyze and assess ethical issues and situations. Students may meet this requirement while simultaneously fulfilling the General Education requirement for another knowledge area or other program requirements.

## Associate in Science (A.S.)

The Associate in Science (A.S.) programs serve students who plan to transfer to four-year colleges for science-related majors. These institutions require a broad range of general education courses for freshman and sophomores, and concentrate on major-related courses in the junior and senior years. This degree includes no fewer than **30 general education credits** distributed among:

1. **Communications (C) - 6 credits** to include two Composition courses, may include an additional course in Speech.
2. **Humanities (HU) - 3 credits** in any broad-based course in Art, Music, Theater, Literature, Foreign Language, Philosophy, Religious Studies or additional broad-based history course in Western, non-Western, American, or World (Civilization) History.
3. **Social Sciences (SS) - 3 credits** selected from introductory courses in Anthropology, Economics, Geography, Political Science, Psychology or Sociology.
4. **Mathematics (M), Sciences (SC), and Technological or Information Literacy Competency (IT) - 9 credits** including 3-8 credits in Mathematics at a level that minimally requires a prerequisite of basic algebra; 4-8 credits in science in general biology, chemistry, physics, or environmental sciences, at least one of which must have a laboratory component; 0-4 credits in a rigorous introduction to computer science or a computer applications course or by taking comparable coursework that emphasizes common computer skills and/or helps students access, analyze, and communicate information using appropriate technologies. A student may be waived from the Technological/Information Literacy competency requirement by passing a proficiency exam or by taking comparable coursework within other portions of his or her studies. Such courses will be designated in the catalog by a (t).
5. **Three (3) additional credits in Social Science or Humanities** knowledge areas as described above.
6. The **Additional 6 credits** can be chosen from any of the categories but cannot exceed the number of credits listed in the A.A. program credit distribution requirements.
7. **Cultural and Global Awareness (CG) (Diversity):** One course is recommended from those courses designated with a (CG). This designation is for any course that significantly helps students analyze the implications of the commonalities and differences among culturally diverse people.

8. **Ethical Dimension (E):** At least one course in the student's program of study must contain an ethical dimension, a course which contains a component that helps the student to recognize, analyze and assess ethical issues and situations. Students may meet this requirement while simultaneously fulfilling the General Education requirement for another knowledge area or other program requirements.

## Associate in Applied Science (A.A.S.) or Associate in Fine Arts (A.F.A.)

The Associate in Applied Science (A.A.S.) programs prepare students to enter employment as well-rounded, skilled workers.

The Associate in Fine Arts (A.F.A.) is designed for students who plan to transfer to a four-year college to pursue a Bachelor in Fine Arts Degree. It provides an exposure to the general education courses required by four-year Bachelor of Fine Arts Programs.

The A.A.S. or A.F.A. Degrees will include no fewer than **20 General Education credits** distributed among:

1. **Communications (C) - 6 credits** to include one Composition (writing) course; the second course may be taken in either Composition or Speech.
2. **Humanities (HU) or Social Science (SS) – 3 credits** from either of the knowledge areas as defined in the A.A. section.
3. **Mathematics (M), Sciences (SC), and Technological or Information Literacy Competency (IT) – 3 credits** as defined in the A.A. and A.S. requirements.
4. **Cultural and Global Awareness (CG) (Diversity):** One course is recommended from those courses designated with a (CG). This designation is for any course that significantly helps students analyze the implications of the commonalities and differences among culturally diverse people.
5. **Ethical Dimension (E):** At least one course in the student's program of study must contain an ethical dimension, a course which contains a component that helps the student to recognize, analyze and assess ethical issues and situations. Students may meet this requirement while simultaneously fulfilling the General Education requirement for another knowledge area or other program requirements.
6. General education courses for these degrees should support career preparation.
7. **The additional 8 credits** can be chosen from any of the categories but cannot exceed the number of credits listed in the A.S. program credit distribution requirements.

## Academic Credit Certificate

Academic Credit Certificates consist of 30 to 36 credits, including 6 credits of general education. Any offering of clustered courses consisting of less than 30 credits is entitled Academic Credit Certificate of Achievement.

Academic Credit Certificates include no fewer than 6 general education credits distributed among:

1. **Communication (C) – 3 credits** in Composition (writing).
2. Three (3) **credits** from any General Education category.
3. **General education coursework** in excess of the required 6 credits should follow the A.A.S. degree.

## Academic Credit Certificate of Achievement

An offering of clustered courses consisting of less than 30 credits is an Academic Credit Certificate of Achievement.

Academic Credit Certificate of Achievement programs require no general education courses beyond those which support career education.

## General Education Courses By Category

● Symbol used to identify General Education courses in course description section of catalog

<i>Course Code</i>	<i>Course Title</i>	<i>Credits</i>
<b>COMMUNICATIONS (C)</b>		
ENGL 121	English Composition: The Writing Process	3
ENGL 122 (E)	English Composition: Writing and Research	3
SPCH 115 (E)	Public Speaking	3
<b>HUMANITIES (HU)</b>		
ARAB 101	Elementary Arabic I	4
ARAB 102	Elementary Arabic II	4
ARTH 105	Art Appreciation	3
ARTH 106	History of Art: Ancient Through Medieval	3
ARTH 107	History of Art: Renaissance Through Contemporary	3
CHNS 101	Elementary Chinese I	4
CHNS 102	Elementary Chinese II	4
CINE 105	Film Appreciation: Motion Picture/Art	3
ENGL 155	The Short Story	3
ENGL 156	Introduction to Poetry	3
ENGL 158	Introduction to Literature	3
ENGL 231	British Literature I: Beginnings to 18th Century	3
ENGL 232	British Literature II: Romantic Era to The Modern Age	3
ENGL 235 (CG)	World Literature I	3
ENGL 236 (CG)	World Literature II	3
ENGL 245	American Literature I	3
ENGL 246	American Literature II	3
ENGL 275	Shakespeare's Plays	3
FRCH 101	Elementary French I	4
FRCH 102	Elementary French II	4
FRCH 203	Intermediate French I	3
FRCH 204	Intermediate French II	3
FRCH 206	French Conversation and Composition I	3
FRCH 207	French Conversation and Composition II	3
GRMN 101	Elementary German I	4
GRMN 102	Elementary German II	4
GRMN 203	Intermediate German I	3
GRMN 204	Intermediate German II	3
HIST 105(HI,CG)	World Civilization I	3
HIST 106(HI,CG)	World Civilization II	3
HIST 107(HI,CG)	Contemporary World History	3
HIST 108 (HI)	Modern European History	3
HIST 125 (HI,CG)	Women's History Survey: Experiences, Contributions and Debates	3
HIST 135 (HI)	American Civilization I	3
HIST 136 (HI)	American Civilization II	3
HIST 137 (HI)	Recent American History	3
HIST 145 (HI,CG)	African-American History I	3
HIST 146 (HI,CG)	African-American History II	3
HIST 215 (HI,CG)	African Civilization	3
HIST 217 (HI,CG)	Modern Latin American History	3
HIST 225 (HI,CG)	History of Modern Asia	3
HIST 227 (HI,CG)	Middle Eastern History	3
HUMN 125	The Creative Process	3
ITAL 101	Elementary Italian I	4
ITAL 102	Elementary Italian II	4
ITAL 203	Intermediate Italian I	3
ITAL 204	Intermediate Italian II	3
JPNS 101	Elementary Japanese I	4
JPNS 102	Elementary Japanese II	4
JPNS 203	Intermediate Japanese I	3
JPNS 204	Intermediate Japanese II	3

<i>Course Code</i>	<i>Course Title</i>	<i>Credits</i>
MUSI 115	Music Appreciation	3
MUSI 116 (CG)	History of Jazz	3
PHIL 105 (E)	Practical Reasoning	3
PHIL 115 (E)	Introduction to Philosophy	3
PHIL 225 (CG)	Comparative Religion	3
PHIL 226	Logic	3
PHIL 227 (E)	Introduction to Ethics	3
PHTY 105	The History and Aesthetics of Photography	3
RUSS 101	Elementary Russian I	4
RUSS 102	Elementary Russian II	4
SPAN 101	Elementary Spanish I	4
SPAN 102	Elementary Spanish II	4
SPAN 203	Intermediate Spanish I	3
SPAN 204	Intermediate Spanish II	3
SPAN 207	Spanish Conversation and Composition	3
SPAN 215	Contemporary Latin American Literature	3
THTR 105	Theater Appreciation	3
THTR 135	Musical Theater	3
<b>SOCIAL SCIENCES (SS)</b>		
ANTH 105 (CG)	Cultural Anthropology	3
ANTH 116	Introduction to Physical Anthropology	3
ECON 105	Macro Economics	3
ECON 106	Micro Economics	3
ECON 107	Economics	3
HGEO 105 (CG)	Human Geography	3
POLI 101	Introduction to Political Science	3
POLI 105	American National Government	3
POLI 115	State, County, and Local Government	3
PSYC 105	Introduction to Psychology I	3
PSYC 106	Introduction to Psychology II	3
PSYC 206	Human Growth and Development I	3
PSYC 207	Human Growth and Development II	3
PSYC 208	Life Span Development	3
SOCI 101	Principles of Sociology	3
SOCI 202	Analysis of Social Problems	3
<b>MATHEMATICS (M)</b>		
MATH 131	Statistics	4
MATH 136	Mathematics for the Liberal Arts	3
MATH 137	Finite Mathematics	3
MATH 145	Algebraic Modeling	4
MATH 146	Advanced Topics in Mathematics for the Liberal Arts	4
MATH 151	Intermediate Algebra	4
MATH 152	College Algebra & Trigonometry	4
MATH 153	Pre-Calculus Mathematics	4
MATH 156	Mathematics for Management and the Social Sciences	3
MATH 171	Calculus I	4
MATH 172	Calculus II	4
MATH 176	Calculus with Business Applications	4
MATH 273	Calculus III	4
MATH 274	Elementary Differential Equations	4
MATH 285	Linear Algebra	3
<b>SCIENCES (SC)</b>		
BIOL 101	General Biology I (Lab Science)	4
BIOL 102	General Biology II (Lab Science)	4
BIOL 105	Life Sciences (Lab Science)	4
BIOL 107	Human Biology	3
BIOL 111	Anatomy and Physiology I (Lab Science)	4
BIOL 112	Anatomy and Physiology II (Lab Science)	4
BIOL 125	Introduction to Plants (Lab Science)	4
BIOL 126	Exploring Biology: Cycles of Life	3
BIOL 213	Microbiology (Lab Science)	4

<b>Course Code</b>	<b>Course Title</b>	<b>Credits</b>
CHEM 100	Principles of Chemistry (Lab Science)	4
CHEM 101	General Chemistry I (Lab Science)	5
CHEM 102	General Chemistry II (Lab Science)	5
CHEM 116	Chemistry In Life (Lab Science)	4
CHEM 136	Introduction to Inorganic, Organic and Biological Chemistry (Lab Science)	4
ENVR 101	Physical Geology (Lab Science)	4
ENVR 102	Historical Geology (Lab Science)	4
ENVR 105	Environmental Studies	3
ENVR 107	Environmental Science (Lab Science)	4
ENVR 111	Oceanography (Lab Science)	4
ENVR 127	Meteorology (Lab Science)	4
PHYS 106	Astronomy	3
PHYS 108	Physics in Life (Lab Science)	4
PHYS 111	General Physics I (Non-Calculus) (Lab Science)	4
PHYS 112	General Physics II (Non-Calculus) (Lab Science)	4
PHYS 121	General Physics I (Lab Science)	4
PHYS 122	General Physics II (Lab Science)	4
PHYS 223	General Physics III (Lab Science)	4
<b>TECHNOLOGICAL OR INFORMATION LITERACY COMPETENCY (IT)</b>		
COMP 126	Computer Logic and Design	3
COMP 129 (E)	Information Technology	3
INFL 105	Information Literacy in a Connected World	3
<b>HISTORY (HI)</b>		
HIST 105(CG,HU)	World Civilization I	3
HIST 106(CG,HU)	World Civilization II	3
HIST 107(CG,HU)	Contemporary World History	3
HIST 108 (HU)	Modern European History	3
HIST 125(CG,HU)	Women's History Survey: Experiences, Contributions and Debates	3
HIST 135 (HU)	American Civilization I	3
HIST 136 (HU)	American Civilization II	3
HIST 137 (HU)	Recent American History	3
HIST 145 (CG,HU)	African-American History I	3
HIST 146 (CG,HU)	African-American History II	3
HIST 215 (CG,HU)	African Civilization	3
HIST 217 (CG,HU)	Modern Latin American History	3
HIST 225 (CG,HU)	History of Modern Asia	3
HIST 227 (CG,HU)	Middle Eastern History	3
<b>CULTURAL AND GLOBAL AWARENESS (CG)</b>		
ANTH 105 (SS)	Cultural Anthropology	3
ANTH 106	Cultures of the World	3
ENGL 128	Writing from the Female Experience	3
ENGL 150	African-American Literature	3
ENGL 175	Woman As Author	3
ENGL 235 (HU)	World Literature I	3
ENGL 236 (HU)	World Literature II	3
HGEO 105 (SS)	Human Geography	3
HIST 105(HI,HU)	World Civilization I	3
HIST 106(HI,HU)	World Civilization II	3
HIST 107(HI,HU)	Contemporary World History	3
HIST 125(HI,HU)	Women's History Survey: Experiences, Contributions & Debates	3
HIST 126	Dimensions of the Holocaust	3
HIST 145(HI,HU)	African-American History I	3
HIST 146 (HI,HU)	African-American History II	3
HIST 155	Native American Studies	3
HIST 215(HI,HU)	African Civilization	3

<i>Course Code</i>	<i>Course Title</i>	<i>Credits</i>	<b>Additional General Education courses, not available at printing, may be added to this list. See Brookdale's web site <a href="http://www.brookdalecc.edu">www.brookdalecc.edu</a> for additional General Education course listings.</b>
HIST 217(HI,HU)	Modern Latin American History	3	<b>For information on the Lampitt Bill and transfer of General Education courses to four-year New Jersey institutions, see New Jersey Transfer Law on page 43.</b>
HIST 225 (HI,HU)	History of Modern Asia	3	
HIST 226	History of Modern Russia	3	
HIST 227 (HI,HU)	Middle Eastern History	3	
HIST 235	Immigration & Ethnicity in American History	3	
HUMN 129	Issues in Women's Studies	3	
HUMN 230	Women and Science	3	
MUSI 116 (HU)	History of Jazz	3	
PHIL 225 (HU)	Comparative Religion	3	
PSYC 217	Social Psychology	3	
SOCI 105	Intercultural Communication: The Person and The Process	3	
SOCI 216	Sociology in Minorities	3	
<b>ETHICAL DIMENSION (E)</b>			
COMP 129 (IT)	Information Technology	3	
ENGL 122 (C)	English Composition: Writing and Research	3	
PHIL 105 (HU)	Practical Reasoning	3	
PHIL 115 (HU)	Introduction to Philosophy	3	
PHIL 227 (HU)	Introduction to Ethics	3	
SPCH 115 (C)	Public Speaking	3	

## Core Competencies

Core competencies represent the essential elements of complete and relevant education at Brookdale Community College. They are the skills and abilities that graduates of all associate degree programs should acquire. They are the abilities necessary to be effective as a person, a worker, a citizen, and a life-long learner.

The general education distribution requirements support acquisition of the core competencies by all graduates.

### Communication

The student will communicate information and ideas clearly and effectively in the written and spoken form, and will demonstrate effective listening and reading skills.

### Mathematical/Scientific Reasoning

The student will use mathematical and/or scientific skills and methods to organize information and develop and test conjectures. The student will also analyze and solve problems and interpret the results within the context of practical applications.

### Critical Thinking

The student will think clearly, critically and creatively to analyze information, identify solutions, make logical decisions and solve problems.

### Creative Expression

The student will use visual, verbal or written methods of communication to articulate a response to the arts and/or humanities.

### Information Literacy

The Student will identify a need for information and collect, analyze, organize and evaluate information from a variety of sources. The student will synthesize, document and present information.

### Technological Literacy

The student will use computer systems and other appropriate forms of technology to achieve professional, educational, and personal objectives.

### Historical/Societal Analysis

The student will identify and analyze historical and/or societal issues as they impact current and future trends.

### Community and Workplace

The student will demonstrate cultural sensitivity within the context of the contemporary, diverse, global community. The student will demonstrate ethical conduct and effective teamwork.

### Personal Development

The student will use the biological, psychological and social dimensions of health and wellness to improve and maintain physical and emotional well-being. The student will demonstrate personal, time and stress management skills.

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**Academic Credit Certificates**

Certificates of proficiency, designed to credentialize competency in particular skills areas, are available. They are listed after the degree programs or options to which they refer. The credits earned in these certificates are applicable to the related degree programs.

Certificate	Total Credits	Page
A+ Computer Repair Technician Certificate. ....	31	92
Accounting . . . . .	30	59
Computer LAN/WAN Technician Certificate/CCNA . .	30	121
Culinary Arts . . . . .	33.5	80
Dental Assisting. . . . .	33	82
Early Childhood Education . . . . .	34-36	86
Horticulture . . . . .	30	104
Liberal Studies Transfer. . . . .	30	113
Paralegal . . . . .	31	124
Pastry Arts . . . . .	30.5	80
Webmaster Administration . . .	30	142

**Academic Credit Certificates of Achievement**

Automotive Brakes, Steering, Suspension and Alignment Specialist . . . . .	16	67
Automotive Electrical Power Systems Specialist . . . . .	23	68
Automotive Transmissions Systems Specialist . . . . .	20	68
Automotive Engine Performance Specialist . . . . .	24	68
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Floral Design. . . . .	6	104
Landscape Design. . . . .	15	104
Medical Coding . . . . .	17	102
Social Services . . . . .	27	105

**Other Certifications**

Culinary Arts Letter of Recognition. . . . .	12	80
CISCO CCNA Certification . . . . .	12	121

# Accounting Option

## Business Administration Program

### A.A. Degree

This program is for students planning to transfer to four-year colleges to earn Bachelor's degrees with accounting or financial concentrations and to sit for the Certified Public Accountant examination, when eligible. Bachelors of Accounting may work in finance, banking and commerce or they may go into business for themselves. This option couples accounting and business management courses with the general education studies required to transfer to four-year colleges.

*NOTE: Four-year colleges accredited by the American Collegiate Schools of Business may require demonstration of proficiency for selected 200-level courses.*

**Graduates of this program will be able to:**

- ▶ Analyze economic events of a business entity
- ▶ Communicate economic events in the form of a general purpose financial statement including:
  - income statement
  - retained earnings statement
  - balance sheet
  - cash flow statement
- ▶ Demonstrate ethical/professional responsibility in the analysis and disclosure of an entity's economic event

#### **BACHELOR'S THROUGH BROOKDALE**

**This is a preferred Associate degree for students planning to pursue a Bachelor's degree in Accounting at Brookdale's New Jersey Coastal Community. For program details, transfer information, and preferred math sequence, students should talk to their Student Development Specialist or call the Community at 732-280-2090.**

**For additional information on transfer visit the Transfer Resources website at <http://transfer.brookdalecc.edu>**

#### **Requirements**

General Education – 45 credits as described on page 50.

The following general education courses are recommended for students choosing this program.

Code	Course	Credits
ECON 105	Macro Economics	3
ECON 106	Micro Economics	3
MATH	Mathematics, such as Algebra, Statistics, and Calculus	6-8
SPCH 115	Public Speaking	3

#### **Career Studies – 12 credits as follows:**

ACCT 101	Principles of Accounting I	3
ACCT 102	Principles of Accounting II	3
**ACCT 203	Intermediate Accounting I (Offered Fall term only)	3
**ACCT 204	Intermediate Accounting II (Offered Spring term only)	3

**Elective 3**

*\*\*This course may not transfer to a four-year college. Students should consult with their counselor.*

#### **Degree Audit**

Your progress toward your degree is available through WebAdvisor. Refer to page 23 for details.

### **Credits required for degree: 60**

#### **Suggested Sequence – Business Administration Program A.A. Degree Accounting Option**

The following sequence is an example of how this degree can be completed in two years. This sequence is based on satisfaction of all Basic Skills requirements and prerequisites and presumes a Fall Term start date. An individual's program may vary depending on transfer institution, career objectives, or individual needs. See your counselor for other options and to monitor your progress.

Course Code	Credits	Course Code	Credits
<b>SEMESTER 1 – Fall Term</b>		<b>SEMESTER 2 – Spring Term</b>	
ACCT 101	3	ACCT 102	3
ECON 105	3	ECON 106	3
ENGL 121	3	ENGL 122	3
Mathematics <sup>(2)</sup>	3-4	Mathematics or Science <sup>(2)</sup>	3-4
Technological Competency or Information Literacy <sup>(2)</sup>	3-4	Humanities	3
	15-17		15-16
<b>SEMESTER 3 – Fall Term</b>		<b>SEMESTER 4 – Spring Term</b>	
ACCT 203*	3	ACCT 204**	3
SPCH 115	3	Humanities	3
Humanities	3	Cultural & Global Awareness <sup>(1)</sup>	3
Science (with Lab) <sup>(2)</sup>	4	History	3
History	3	Elective	3
	16		15

\*Offered Fall Term in evenings

\*\*Offered Spring Term in evenings

<sup>(1)</sup> One course is required from the Cultural & Global Awareness knowledge area. Students may meet the requirement while simultaneously fulfilling the General Education requirement for another knowledge area.

<sup>(2)</sup> A minimum of 12 credits are required from the Mathematics, Sciences or Technological Competency or Information Literacy knowledge areas.

# Accounting Program A.A.S. Degree

This career program provides the student with the business concepts and procedures used in compiling data and financial records. The student gains understanding of accounting methods and basic accounting theory. Accounting and business courses form the core of the program. Job titles for graduates include account analyst, accounting clerk, and junior accountant. This program is not designed for transfer to a four-year school, though many of the courses will prove to be transferable. Students wishing to continue toward bachelor's degrees should choose the Accounting Option of the Business Administration Program – A.A. Degree.

### Graduates of this program will be able to:

- ▶ Analyze economic events of a business entity
- ▶ Communicate the economic events in the form of general purpose financial statements including:
  - income statements
  - retained earnings statements
  - balance sheets
  - cash flow statements
- ▶ Demonstrate ethical/professional responsibility in the analysis and disclosure of business events

### Requirements

General Education – 20 credits as described on page 50. The following general education courses are recommended for students choosing this program.

Code	Course	Credits
SPCH 115	Public Speaking	3
ECON 105	Macro Economics	3
ENGL 121	English Composition: The Writing Process	3
ENGL 122	English Composition: Writing and Research	3

### Career Studies — 21 credits as follows:

ACCT 101	Principles of Accounting I	3
ACCT 102	Principles of Accounting II	3
ACCT 105	Introduction to Quickbooks	3
ACCT 112**	Managerial Accounting	3
ACCT 115*	Federal Income Tax	3
ACCT 203*	Intermediate Accounting I	3
ACCT 204**	Intermediate Accounting II	3

\*Offered Fall Term      \*\*Offered Spring Term

### Career Studies — 12 credits from among the following:

ACCT 299	Accounting Internship	3
BUSI 105	Introduction to Business	3
BUSI 165	Computer Applications in Business	3
BUSI 221	Business Law I	3
BUSI 222	Business Law II	3
OADM 141	Excel for Windows	4
ECON 106	Micro Economics	3
ECON 225	Business Statistics	3

**Electives 7**  
A grade of "C" or higher is required for career courses

## Accounting Academic Credit Certificate

The Certificate in Accounting is career-oriented in nature. Students will be awarded a Certificate of Proficiency in Accounting with particular emphasis on computer applications. An internship with an existing employer or with a Brookdale-arranged employer can be used for 1-to-3 elective credits.

### Graduates of this program will be able to:

- ▶ Analyze economic events of a business entity
- ▶ Communicate the economic events in the form of general purpose financial statements including:
  - income statements
  - retained earnings statements
  - balance sheets
  - cash flow statements

### Requirements

#### General Education — 9 credits

The following General Education courses are recommended for students choosing this Certificate.

Code	Course	Credits
ENGL 121	English Composition: The Writing Process	3
PHIL 227	Introduction to Ethics	3
SPCH 115	Public Speaking	3

### Career Studies – 18 credits as follows:

ACCT 101	Principles of Accounting I	3
ACCT 102	Principles of Accounting II	3
ACCT 105	Introduction to QuickBooks	3
ACCT 112**	Managerial Accounting	3
ACCT 115*	Federal Income Tax	3
ENGL 127	Business Writing	3

**Electives 3**  
**Total Credits 30**

## Credits required for degree: 60

### Suggested Sequence Accounting Program A.A.S. Degree

The following sequence is an example of how this degree can be completed in two years. This sequence is based on satisfaction of all Basic Skills requirements and prerequisites and presumes a Fall start date. An individual's program may vary depending on transfer institution, career objectives, or individual needs. See your counselor for other options and to monitor your progress.

Course Code	Credits	Course Code	Credits
<b>SEMESTER 1 – Fall Term</b>		<b>SEMESTER 2 – Spring Term</b>	
ACCT 101	3	ACCT 102	3
Career Studies	3	ACCT 105	3
ENGL 121	3	Career Studies	3
General Education <sup>(1)</sup>	6	ENGL 122 OR	3
	15	SPCH 115	
		Mathematics or Science or	3-4
		Technological/Info Literacy	15-16
<b>SEMESTER 3 – Fall Term</b>		<b>SEMESTER 4 – Spring Term</b>	
ACCT 115*	3	ACCT 112**	3
ACCT 203*	3	ACCT 204**	3
Career Studies	3	Career Studies	3
ECON 105	3	General Education	2-3
Elective	3	Elective	4
	15		15-16

<sup>(1)</sup>One course is recommended from the Cultural and Global Awareness knowledge area.

\*Offered Fall Term in evenings

\*\*Offered Spring Term in evenings

### Degree Audit

Your progress toward your degree is available through WebAdvisor. Refer to page 23 for details.

# Anthropology Option

## Social Sciences Program A.A. Degree

This option prepares students for a Bachelor's degree in Anthropology. This program provides the framework for a scientific and comprehensive study of human behavior and society and introduces students to the major subfields of anthropology and the various associated specializations. Upon completion of the program, students will be able to make informed choices regarding their careers and academic areas of specialization. Students will be able to work effectively with diverse ethnic populations in many different disciplines such as education, healthcare, human and social services, and business and community development.

Graduates of this program will be able to:

- ▶ Distinguish between career options in terms of anthropological subfields and how cultures are studied through fieldwork
- ▶ Develop the necessary skills to critically think the important role culture has in defining the human experience and how an awareness of cultural universals can decrease cross-cultural misunderstandings
- ▶ Recognize the role globalization and cultural diffusion have on culture change

For additional information on transfer visit the Transfer Resources website at <http://transfer.brookdalecc.edu>

### Requirements

General Education- 45 credits as described on page 50.

Career Studies – 3 credits as follows:

Code	Course	Credits
ANTH 105	Cultural Anthropology	3

Career Studies – 9 credits from among the following - at least one course must be a 200 level course:

ANTH 106	Cultures of the World	3
ANTH 115**	Introduction to Archaeology	3
ANTH 116*	Introduction to Physical Anthropology	3
ANTH 205	Culture and Personality	3
ANTH 216	Fieldwork in Archaeology	3
ANTH 295	Special Project - Anthropology	3

Elective 3

\*Offered Fall term only

\*\*Offered Spring term only

### Degree Audit

Your progress toward your degree is available through WebAdvisor. Refer to page 23 for details.

### Credits required for degree: 60

#### Suggested Sequence – Social Sciences Program A.A. Degree Anthropology Option

The following sequence is an example of how this degree can be completed in two years. This sequence is based on satisfaction of all Basic Skills requirements and prerequisites and presumes a Fall Term start date. An individual's program may vary depending on transfer institution, career objectives, or individual needs. See your counselor for other options and to monitor your progress.

Course Code	Credits	Course Code	Credits
<b>SEMESTER 1 – Fall Term</b>		<b>SEMESTER 2 – Spring Term</b>	
Career Studies	3	Career Studies	3
ENGL 121	3	ENGL 122	3
Humanities (language)	3-4	Mathematics or Science <sup>(1)</sup>	3-4
Mathematics <sup>(1)</sup>	3-4	Social Sciences	3
Mathematics/Science/Technological Competency or Information Literacy <sup>(1)</sup>	3-4	History	3
	15-18		15-16
<b>SEMESTER 3 – Fall Term</b>		<b>SEMESTER 4 – Spring Term</b>	
Career Studies	3	Career Studies	3
Communications	3	Humanities	3
Science (with lab) <sup>(1)</sup>	4	Social Sciences	3
History	3	Cultural & Global Awareness <sup>(2)</sup>	3
Humanities	3	Elective	3
	16		15

<sup>(1)</sup> A minimum of 12 credits are required from the Mathematics, Sciences or Technological Competency or Information Literacy knowledge areas.

<sup>(2)</sup> One course is required from the Cultural & Global Awareness knowledge area. Students may meet the requirement while simultaneously fulfilling the General Education requirement for another knowledge area.

# Architecture Program A.S. Degree

This degree program is for students wishing to transfer to Bachelor of Architecture schools at accredited colleges or universities. The program provides the equivalent number and type of courses generally required in the first two years of study within a five-year curriculum. Completion of a five-year curriculum is a requirement for licensing as a professional architect. An architectural education embodies the study of both art and engineering disciplines. The program's goal is to develop creative and analytical skills in both of these areas.

**Graduates of this program will be able to:**

- ▶ Analyze how the history of architecture influences current design
- ▶ Discuss what non-design factors influence building design
- ▶ Explain the technical requirements of building and construction
- ▶ Demonstrate the ability to organize a building program into building space from functional and aesthetic perspectives
- ▶ Develop three-dimensional utilization abilities through abstract design exercises
- ▶ Demonstrate architectural presentation techniques in both manual and digital formats

**Requirements**

General Education – 30 credits as described on page 50. (Students should consult their Counselor and the Architecture faculty prior to the selection of these courses.)

It's recommended that students select 30 General Education credits from among the following:

Code	Course	Credits
ENGL 121	English Composition: The Writing Process	3
ENGL 122	English Composition: Writing and Research	3
SPCH 115	Public Speaking	3
ARTH 107	History of Art: Renaissance Through Contemporary	3
MATH 152	College Algebra and Trigonometry	4
MATH 153	Pre-Calculus Mathematics	4
PHYS 111	General Physics I (non-calculus) or	4
PHYS 121	General Physics I	4
PHYS 112	General Physics II(non-calculus) or	4
PHYS 122	General Physics II	4
	Social Sciences	3
	Social Sciences or Humanities	3

**Career Studies — 38 credits as follows:**

ARCH 121	People and Their Environment	3
ARCH 131	Introduction to Design I	5
ARCH 132	Introduction to Design II	5
ARCH 151	Architectural Construction I	3
ARCH 152	Architectural Construction II	3
ARCH 245	History of Architecture: Pre-History to Gothic	3
ARCH 246	History of Architecture: Renaissance to Mid-19th Century	3
ARCH 247	History of Architecture: Industrial Revolution to Modernism	3
ARCH 261	Architectural Studio I	5
ARCH 262	Architectural Studio II	5

**Suggested Electives (beyond degree requirements):**

MATH 171	Calculus I	4
MATH 172	Calculus II	4
ARTS 111	Drawing I	3
CADD 211	Intermediate Computer Aided Drafting	3
DIGM 116	Production & Storyboarding Photoshop	3

**Degree Audit**

Your progress toward your degree is available through WebAdvisor. Refer to page 23 for details.

**Credits required for degree: 68**

**Suggested Sequence – Architecture Program A.S. Degree**

The following sequence is an example of how this degree can be completed in two years. This sequence is based on satisfaction of all Basic Skills requirements and

\*prerequisites and presumes a Fall Term start date. An individual's program may vary depending on transfer institution, career objectives, or individual needs. See your counselor for other options and to monitor your progress.

Course Code	Credits	Course Code	Credits
<b>SEMESTER 1 – Fall Term</b>		<b>SEMESTER 2 – Spring Term</b>	
ARCH 121	3	ARCH 132	5
ARCH 131	5	ARCH 152	3
ARCH 151	3	ARCH 245	3
ENGL 121	3	ENGL 122	3
MATH 152*	4	MATH 153	4
	18		18
<b>SEMESTER 3 – Fall Term</b>		<b>SEMESTER 4 – Spring Term</b>	
ARCH 246	3	ARCH 247	3
ARCH 261	5	ARCH 262	5
SPCH 115 or Social Sciences	3	Physics	4
Physics	4	Social Sciences or Humanities <sup>(1)</sup>	3
	15	ARTH 107	3
			18

\*MATH 151 may be required if prerequisites for MATH 152 are not satisfied.

<sup>(1)</sup>One course is recommended from the Cultural and Global Awareness knowledge area.

For-additional information on transfer visit the Transfer Resources website at <http://transfer.brookdalecc.edu>

# Art Option

## Humanities Program

### A.A. Degree

This option prepares the student for transfer to a four-year college or professional art school to major in the visual arts. It provides the core courses necessary for Bachelor's degree programs in art, art education, art therapy, illustrating, jewelry, ceramics design and manufacture, and commercial art. Graduates of this option may choose to find art-related work and receive on-the-job training.

#### Graduates of this program will be able to:

- ▶ Explain significant events in the history of art
- ▶ Discuss the different techniques basic to the processes of artmaking
- ▶ Develop an aesthetic sense in relation to the arts and culture

#### Requirements

General Education – 45 credits as described on page 50.

#### Career Studies – 9 credits as follows:

Code	Course	Credits
ARTS 111	Drawing I	3
ARTS 121	2-D Design	3
ARTH 106	History of Art: Ancient through Medieval or	3
ARTH 107	History of Art: Renaissance through Contemporary	3

Career Studies – 3 credits from among the following: (6 credits if ARTH 106 or ARTH 107 are used to fulfill General Education requirements)

ARTC 141	Digital Paint I	3
ARTC 142	Digital Paint II	3
ARTS 112	Drawing II	3
ARTS 122	Color Theory	3
ARTS 123*	3-D Design	3
ARTS 151	Ceramics I	3
ARTS 152	Ceramics II	3
ARTS 156**	Sculpture I	3

ARTS 161	Jewelry I	3
ARTS 162	Jewelry II	3
ARTS 213	Figure Drawing	3
ARTS 231	Painting I	3
ARTS 232	Painting II	3
ARTS 233	Acrylic Painting	3
ARTS 235***	Watercolor	3
<b>Elective</b>		<b>3</b>

**Note: Both ARTH 106 and ARTH 107 may be required for transfer. Consult your counselor.**

\*Offered spring only

\*\* Offered fall only

\*\*\*Offered summer only

#### Degree Audit

Your progress toward your degree is available through WebAdvisor. Refer to page 23 for details.

### Suggested Sequence – Humanities Program A.A. Degree Art Option

The following sequence is an example of how this degree can be completed in two years. This sequence is based on satisfaction of all Basic Skills requirements and prerequisites and presumes a Fall Term start date. An individual's program may vary depending on transfer institution, career objectives, or individual needs. See your counselor for other options and to monitor your progress.

Course Code	Credits	Course Code	Credits
<b>SEMESTER 1 – Fall Term</b>		<b>SEMESTER 2 – Spring Term</b>	
ARTS 111	3	ARTH 106 or ARTH 107 or	
ARTS 121	3	Career Studies	3
Mathematics/Science/Technological Competency or Information Literacy <sup>(1)</sup>	3-4	ENGL 122	3
ENGL 121	3	Mathematics or Science <sup>(1)</sup>	3-4
Mathematics <sup>(1)</sup>	3-4	Humanities	3
	15-17	Social Sciences	3
			15-16
<b>SEMESTER 3 – Fall Term</b>		<b>SEMESTER 4 – Spring Term</b>	
Career Studies	3	Social Sciences	3
Humanities	3	Humanities	3
Science (with lab) <sup>(1)</sup>	4	Cultural & Global Awareness <sup>(2)</sup>	3
History	3	History	3
SPCH 115	3	Electives	3
	16		15

<sup>(1)</sup> A minimum of 12 credits are required from the Mathematics, Sciences or Technological Competency or Information Literacy knowledge areas.

<sup>(2)</sup> One course is required from the Cultural & Global Awareness knowledge area. Students may meet the requirement while simultaneously fulfilling the General Education requirement for another knowledge area.

**For additional information on transfer visit the Transfer Resources website at**  
<http://transfer.brookdalecc.edu>

# Audio Production Option

## Communication Media Program A.A.S. Degree

This career option provides students with the skills necessary to take entry-level positions in the field of audio recording. Hands-on experience with an emphasis on digital technology will prepare students for positions in the audio recording industry. Students can apply skills learned to music, television, and multimedia production. This option is not designed for transfer to a four-year college. Students who wish to continue at the four-year level should consider one of the options of the Humanities A.A. Program.

Graduates of this program will be able to:

- ▶ Demonstrate expertise in field production techniques and editing
- ▶ Apply and synthesize basic concepts about the history, theories, social effects, terminology and aesthetics of communication
- ▶ Create projects that adhere to a variety of aesthetic principles

### Requirements

General Education – 20 credits as described on page 50.

Career Studies – 21 credits as follows:

Code	Course	Credits
COMM 101	Communication	3
COMM 102	Communication Media	3
COMM 115	Audio in Media	3
COMM 216*	Advanced Digital Audio/ Musical Recording	3
RDIO 101	Introduction to Radio	3
TELV 115	TV: Aesthetics and Analysis	3
TELV 121	Television Production	3

Career Studies – 12 credits from among the following:

CINE 105	Film Appreciation: The Motion Picture as an Art Form	3
COMM 295	Special Project – Communication Media	1-6
COMM 299	Communication Media Internship	1-6
MUSI 101	Fundamentals of Music	3
MUSI 115	Music Appreciation	3
MUSI 123**	Music Technology	3
TELV 122	Digital Video Production	3

Electives 7

\*Offered spring only

\*\* Offered fall only

### Degree Audit

Your progress toward your degree is available through WebAdvisor. Refer to page 23 for details.

### Credits required for degree: 60

#### Suggested Sequence – Communication Media Program A.A.S. Degree Audio Production Option

The following sequence is an example of how this degree can be completed in two years. This sequence is based on satisfaction of all Basic Skills requirements and prerequisites and presumes a Fall Term start date. An individual's program may vary depending on transfer institution, career objectives, or individual needs. See your counselor for other options and to monitor your progress.

Course Code	Credits	Course Code	Credits
<b>SEMESTER 1 – Fall Term</b>		<b>SEMESTER 2 – Spring Term</b>	
COMM 101	3	Career Studies	3
TELV 115	3	COMM 102	3
TELV 121	3	COMM 115	3
ENGL 121	3	Communications	3
Humanities	3	Mathematics or Science or Technological or Info Literacy	3-4
	15		15-16
<b>SEMESTER 3 – Fall Term</b>		<b>SEMESTER 4 – Spring Term</b>	
COMM 216*	3	Career Studies	6
RDIO 101	3	General Education <sup>(1)</sup>	6
Career Studies	3	Elective	4
Social Sciences	3		16
Elective	3		
	15		

<sup>(1)</sup> One course is recommended from the Cultural & Global Awareness knowledge area.

\* Offered spring only

# Automotive Technology Program A.A.S. Degree

## Automotive Technology Option

This program is designed to meet the continual demand for trained automotive technicians. The student participates in hands-on experiences in testing, diagnosing, and repairing automobiles. Emphasis in class and laboratory is placed on real-world, hands-on experience. Upon graduation, the student is fully qualified to work in an auto service center/dealership as an auto technician, and may lead to positions such as service advisor, service manager, parts counter person, and service writer. As an A.A.S. degree, this option is not designed for transfer to a four-year school, but many courses may prove to be transferable.

Graduates of this program will be able to:

- ▶ Demonstrate proficiency in the diagnosis of an automobile malfunction
- ▶ Demonstrate competency in the repair and service of an automobile
- ▶ Demonstrate proficiency in the repair of advanced automotive electronic and computer systems
- ▶ Communicate effectively with members of the automotive team

### Requirements

General Education – 20 credits as described on page 50.

Career Studies — 44-46 credits as follows:

Code	Course	Credits
AUTO 101	Automotive Fundamentals	4
AUTO 111	Automotive Drivelines and Transmissions	4
AUTO 123	Engine Performance I	4
AUTO 131	Automotive Steering, Suspension and Alignment	4
AUTO 132	Automotive Brake Systems	4
AUTO 141	Automotive Electricity/ Electronics I	4
AUTO 213	Automatic and Manual Transmission Overhaul	4
AUTO 222	Engine Performance II	4
AUTO 226	Automotive Engines I	4
AUTO 241	Automotive Electricity/ Electronics II	3
AUTO 243	Automotive Heating and Air Conditioning	4
AUTO 298	Automotive Capstone Seminar* OR	1
AUTO 299	Automotive Internship with Permission of Department Chair	3

\* AUTO 298 to be taken in last semester of program

### Degree Audit

Your progress toward your degree is available through WebAdvisor. Refer to page 23 for details.

### Credits required for degree: 64-66

#### Suggested Sequence – Automotive Technology Program A.A.S. Degree Automotive Technology Option

The following sequence is an example of how this degree can be completed in two years. This sequence is based on satisfaction of all Basic Skills requirements and prerequisites and presumes a Fall Term start date. An individual's program may vary depending on transfer institution, career objectives, or individual needs. See your counselor for other options and to monitor your progress.

Course Code	Credits	Course Code	Credits
<b>SEMESTER 1 – Fall Term</b>		<b>SEMESTER 2 – Spring Term</b>	
AUTO 101	4	AUTO 111	4
AUTO 131	4	AUTO 123	4
AUTO 141	4	AUTO 132	4
ENGL 121	3	Communications	3
	15	General Education <sup>(1)</sup>	3
			18
<b>SEMESTER 3 – Fall Term</b>		<b>SEMESTER 4 – Spring Term</b>	
AUTO 222	4	AUTO 213	4
AUTO 226	4	AUTO 241	3
AUTO 243	4	Humanities	3
Mathematics or Science or Technological/Info Literacy	3-4	Social Sciences	3
		General Education	2
		AUTO 298 OR	1
		AUTO 299 with permission of Dept. Chair	3
	15-16		16-18

<sup>(1)</sup> One course is recommended from the Cultural & Global Awareness knowledge area.

# Automotive Technology Program A.A.S. Degree

## Automotive Engineering Technician Option

The thrust of this option is toward employment in engineering laboratories and service industries. This option places greater emphasis on the scientific and mathematical concepts of the automobile design. Job titles include lab technician and automotive engineering assistant. As an A.A.S. degree, this option is not designed for transfer into a four-year institution, although many courses may prove to be transferable.

### Graduates of this program will be able to:

- ▶ Demonstrate proficiency in the diagnosis of an automobile malfunction
- ▶ Demonstrate competency in the repair and service of an automobile
- ▶ Demonstrate proficiency in the repair of advanced automotive electronic and computer systems
- ▶ Solve automotive engineering problems utilizing mathematical skills

### Requirements

General Education – 20 credits as described on page 50.

Career Studies – 43 credits as follows:

Code	Course	Credits
AUTO 101	Automotive Fundamentals	4
AUTO 111	Automotive Drivelines and Transmissions	4
AUTO 123	Engine Performance I	4
AUTO 131	Automotive Steering, Suspension and Alignment	4
AUTO 132	Automotive Brake Systems	4
AUTO 141	Automotive Electricity/ Electronics I	4
AUTO 222	Engine Performance II	4
AUTO 226	Automotive Engines I	4
MATH 151	Intermediate Algebra	4
MATH 152	College Algebra & Trigonometry	4
AUTO 241*	Automotive Electricity/ Electronics II	3

\* AUTO 241 to be taken in last semester of program

### Degree Audit

Your progress toward your degree is available through WebAdvisor. Refer to page 23 for details.

### Credits required for degree: 63

#### Suggested Sequence – Automotive Technology Program A.A.S. Degree Automotive Engineering Technician Option

The following sequence is an example of how this degree can be completed in two years. This sequence is based on satisfaction of all Basic Skills requirements and prerequisites and presumes a Fall Term start date. An individual's program may vary depending on transfer institution, career objectives, or individual needs. See your counselor for other options and to monitor your progress.

Course Code	Credits	Course Code	Credits
<b>SEMESTER 1 – Fall Term</b>		<b>SEMESTER 2 – Spring Term</b>	
AUTO 101	4	AUTO 111	4
AUTO 131	4	AUTO 123	4
AUTO 141	4	AUTO 132	4
ENGL 121	<u>3</u>	MATH 151	<u>4</u>
	15		16
<b>SEMESTER 3 – Fall Term</b>		<b>SEMESTER 4 – Spring Term</b>	
AUTO 222	4	AUTO 241	3
AUTO 226	4	PHYS 112	4
MATH 152	4	Humanities or Social Science	3
PHYS 111	<u>4</u>	Communications	3
	16	General Education <sup>(1)</sup>	<u>3</u>
			16

<sup>(1)</sup> One course is recommended from the Cultural & Global Awareness knowledge area.

# Automotive Technology Program A.A.S. Degree

## General Motors Automotive Service Educational Program

The GM-ASEP is a special program developed by Brookdale's Automotive Department in conjunction with General Motors Corporation to upgrade the competency and professional level of the incoming dealership technician. The two-year program will require the student to attend classes at Brookdale for a portion of each semester, and then work in a GM dealership for the remaining portion of the semester. This is a rigorous training program which requires certain testing and prerequisites prior to acceptance. For further information, please contact the Automotive Technology Department, ASEP Coordinator. The GM-ASEP program is certified by the National Automotive Technicians Education Foundation (NATEF).

### Graduates of this program will be able to:

- ▶ Demonstrate proficiency in the diagnosis of a General Motors automobile malfunction
- ▶ Demonstrate competency in the repair and service of the General Motors product
- ▶ Communicate effectively with customers and members of the automotive team
- ▶ Demonstrate professional accountability

### Requirements

General Education- 20 credits as described on page 50.

Career Studies – 47 credits as follows:

Code	Course	Credits
AUTO 106/GM	Basic Automotive Systems/ Air Conditioning	4
AUTO 111/GM	Automotive Drivelines and Transmissions	4
AUTO 123/GM	Engine Performance I	4
AUTO 135/GM	Steering, Suspension, Alignment and Brakes	4
AUTO 141/GM	Automotive Electricity/ Electronics I	4
AUTO 213/GM	Automatic and Manual Transmission Overhaul	4
AUTO 222/GM	Engine Performance II	4
AUTO 226/GM	Automotive Engines I	4
AUTO 241/GM	Automotive Electricity/ Electronics II	3
AUTO 299/GM	Dealership Internship	12

### Degree Audit

Your progress toward your degree is available through WebAdvisor. Refer to page 23 for details.

### Credits required for degree: 67

#### Suggested Sequence – Automotive Technology Program A.A.S. Degree General Motors Automotive Service Educational Program

The following sequence is an example of how this degree can be completed in two years. This sequence is based on satisfaction of all Basic Skills requirements and prerequisites and presumes a Fall Term start date. An individual's program may vary depending on transfer institution, career objectives, or individual needs. See your counselor for other options and to monitor your progress.

Course Code	Credits	Course Code	Credits
<b>SEMESTER 1 – Fall Term</b>		<b>SEMESTER 2 – Spring Term</b>	
AUTO 106	4	AUTO 123	4
AUTO 111	4	AUTO 135	4
AUTO 141	4	AUTO 299	3
Math or Science or Technological/Info Literacy	<u>3-4</u>	General Education <sup>(1)</sup>	3
	15-16	ENGL 121	<u>3</u>
			17
<b>SUMMER</b>			
AUTO 299	3		
<b>SEMESTER 3 – Fall Term</b>		<b>SEMESTER 4 – Spring Term</b>	
AUTO 222	4	AUTO 213	4
AUTO 226	4	AUTO 241	3
AUTO 299	3	AUTO 299	3
General Education	3	Communications	3
Social Sciences	<u>3</u>	Humanities	<u>3</u>
	17		16

<sup>(1)</sup> One course is recommended from the Cultural & Global Awareness knowledge area.

# Automotive Technology Program A.A.S. Degree

## Toyota Technical Educational Network (T-TEN)

The Toyota Technical Educational Network, T-TEN, is a two-year automotive technology program that has been developed by Brookdale, in conjunction with Toyota Motor Sales, Inc., to upgrade the competency and professional level of the incoming dealership technician. The program is a two-year program with part of the training taking place at Brookdale and at a sponsoring Toyota dealership. Upon successful completion of the program, the student will receive an Associate in Applied Science (A.A.S.) Degree in Automotive Technology. For further information, contact the Automotive Technology Department or the T-TEN coordinator. The Toyota T-TEN program is certified by the National Automotive Technicians Education Foundation (NATEF).

Graduates of this program will be able to:

- ▶ Demonstrate proficiency in the diagnosis of an automobile malfunction
- ▶ Demonstrate competency in the repair and service of the Toyota/Lexus product
- ▶ Communicate effectively with customers and members of the automotive team
- ▶ Demonstrate professional accountability

### Degree Audit

Your progress toward your degree is available through WebAdvisor. Refer to page 23 for details.

### Requirements

General Education – 20 credits as described on page 50.

Career Studies — 49 credits as follows:

Code	Course	Credits
AUTO 101	Automotive Fundamentals	4
AUTO 111	Automotive Drivelines and Transmissions	4
AUTO 123	Engine Performance I	4
AUTO 131	Automotive Steering, Suspension and Alignment	4
AUTO 132	Automotive Brake Systems	4
AUTO 141	Automotive Electricity/Electronics I	4
AUTO 213	Automatic and Manual Transmission Overhaul	4
AUTO 222	Engine Performance II	4
AUTO 241	Automotive Electricity/Electronics II	3
AUTO 226	Automotive Engines I	4
AUTO 243	Automotive Heating and Air Conditioning	4
AUTO 299	Dealership Internship	6

### Automotive Academic Credit Certificates of Achievement

These short training programs are designed to train students in a particular area of automotive specialization. Credits earned may later be applied toward the Automotive degree program. Persons completing these are awarded Certificates of Achievement in the particular area of study.

### Automotive Brakes, Steering, Suspension and Alignment Specialist Academic Credit Certificate of Achievement

#### Requirements

Career Studies — 16 credits as follows:

Code	Course	Credits
AUTO 101	Automotive Fundamentals	4
AUTO 131	Automotive Steering, Suspension and Alignment	4
AUTO 132	Automotive Brake Systems	4
AUTO 295	Special Project – Automotive Technology	4

### Credits required for degree: 69

#### Suggested Sequence – Automotive Technology Program A.A.S. Degree Toyota Technical Education Network (T-TEN)

The following sequence is an example of how this degree can be completed in two years. This sequence is based on satisfaction of all Basic Skills requirements and prerequisites and presumes a Fall Term start date. An individual's program may vary depending on transfer institution, career objectives, or individual needs. See your counselor for other options and to monitor your progress.

Course Code	Credits	Course Code	Credits
<b>SEMESTER 1 – Fall Term</b>		<b>SEMESTER 2 – Spring Term</b>	
AUTO 101	4	AUTO 111	4
AUTO 131	4	AUTO 141	4
AUTO 132	4	Communications	3
ENGL 121	3	Social Sciences	3
	15	Humanities	3
			17
<b>SUMMER</b>			
AUTO 299	3		
<b>SEMESTER 3 – Fall Term</b>		<b>SEMESTER 4 – Spring Term</b>	
AUTO 123	4	AUTO 222	4
AUTO 213	4	AUTO 226	4
AUTO 243	4	AUTO 241	3
Math or Science or Technological/Info Literacy	3-4	General Education <sup>(1)</sup>	4-5
	15-16		15-16
<b>SUMMER</b>			
AUTO 299	3		

<sup>(1)</sup> One course is recommended from the Cultural & Global Awareness knowledge area.

### Automotive Electrical/ Power Systems Specialist Academic Credit Certificate of Achievement

#### Requirements

Career Studies — 23 credits as follows:

Code	Course	Credits
AUTO 101	Automotive Fundamentals	4
AUTO 123	Engine Performance I	4
AUTO 141	Automotive Electricity/ Electronics I	4
AUTO 241	Automotive Electricity/ Electronics II	3
AUTO 243	Automatic Heating and Air Conditioning	4
AUTO 295	Special Project - Automotive Technology	4

### Automotive Transmission Systems Specialist Academic Credit Certificate of Achievement

#### Requirements

Career Studies — 20 credits as follows:

Code	Course	Credits
AUTO 101	Automotive Fundamentals	4
AUTO 111	Automotive Drivelines and Transmissions	4
AUTO 141	Automotive Electricity/ Electronics I	4
AUTO 213	Automatic and Manual Transmission Overhaul	4
AUTO 295	Special Project-Automotive Technology	4

### Automotive Engine Performance Specialist Academic Credit Certificate of Achievement

#### Requirements

Career Studies — 24 credits as follows:

Code	Course	Credits
AUTO 101	Automotive Fundamentals	4
AUTO 123	Engine Performance I	4
AUTO 141	Automotive Electricity/ Electronics I	4
AUTO 222	Engine Performance II	4
AUTO 226	Automotive Engines I	4
AUTO 295	Special Project - Automotive Technology	4

### Automotive Engine Remanufacturing Specialist Academic Credit Certificate of Achievement

#### Requirements

Career Studies — 20 credits as follows:

Code	Course	Credits
AUTO 101	Automotive Fundamentals	4
AUTO 123	Engine Performance I	4
AUTO 226	Automotive Engines I	4
AUTO 227	Automotive Engines II	4
AUTO 295	Special Project - Automotive Technology	4

### Advanced Automotive Technician Academic Credit Certificate of Achievement

#### Requirements

Successful completion of basic automotive technician certificate plus courses listed below.

Career Studies — 19 credits as follows:

Code	Course	Credits
AUTO 213	Automatic and Manual Transmission Overhaul	4
AUTO 226	Automotive Engines I	4
AUTO 241	Automotive Electricity/ Electronics II	3
AUTO 243	Automotive Heating and Air Conditioning	4
AUTO 295	Special Project - Automotive Technology and Standards	4

### Degree Audit

Your progress toward your degree is available through WebAdvisor. Refer to page 23 for details.

# Biology Option

## Mathematics/ Science Program A.S. Degree

Students wishing to transfer to biology or pre-medical studies should choose this option which combines biology and related scientific studies with liberal arts requirements. Bachelor's degree graduates enter medical, veterinary, dental or graduate schools or take positions as biologists, laboratory technicians and researchers.

### Graduates of this program will be able to:

- ▶ Employ the scientific method of inquiry to gather and use information for the express purposes of critical thinking, information analysis, and problem solving
- ▶ Interpret basic biological concepts
- ▶ Use appropriate technology

### Requirements

General Education – 30 credits as described on page 50.

†Career Studies – 18 credits as follows:

Code	Course	Credits
BIOL 101	General Biology I	4
BIOL 102	General Biology II	4
CHEM 203	Organic Chemistry I	5
CHEM 204	Organic Chemistry II	5

†Career Studies – 8 credits from among the following:

BIOL 205*	Invertebrate Zoology (Fall Term only)	4
BIOL 206**	Vertebrate Zoology (Spring Term only)	4
BIOL 207***	Marine Biology (Summer Term only)	4
BIOL 213	Microbiology	4
BIOL 215	Cell and Molecular Biology	4

Electives **4**

†All career studies courses must be passed with a grade of "C" or higher.

\*Offered Fall term only

\*\* Offered Spring term only

\*\*\*Offered Summer term only

### Degree Audit

Your progress toward your degree is available through WebAdvisor. Refer to page 23 for details.

## Credits required for degree: 60

### Suggested Sequence – Mathematics/Science Program A.S. Degree Biology Option

The following sequence is an example of how this degree can be completed in two years. This sequence is based on satisfaction of all Basic Skills requirements and prerequisites and presumes a Fall Term start date. An individual's program may vary depending on transfer institution, career objectives, or individual needs. See your counselor for other options and to monitor your progress.

Course Code	Credits	Course Code	Credits
<b>SEMESTER 1 – Fall Term</b>		<b>SEMESTER 2 – Spring Term</b>	
BIOL 101	4	BIOL 102	4
CHEM 101	5	CHEM 102	5
ENGL 121	3	ENGL 122	3
Social Sciences	3	Humanities	3
	<b>15</b>		<b>15</b>
<b>SEMESTER 3 – Fall Term</b>		<b>SEMESTER 4 – Spring Term</b>	
*Career Studies	4	*Career Studies	4
CHEM 203	5	CHEM 204	5
Humanities or Social Sciences	3	General Education <sup>(1)</sup>	3
Mathematics/Science/ <sup>(2)</sup>	3-4	Elective	4
Technological or Information Literacy			16
	<b>15-16</b>		

\*Take one of the following Career Studies courses:

BIOL 205, offered in Fall semester only.

BIOL 206, offered in Spring semester only.

BIOL 207, offered in Summer only.

BIOL 213

BIOL 215

<sup>(1)</sup> One course is recommended from the Cultural & Global Awareness knowledge area.

<sup>(2)</sup> A minimum of 9 credits are required from the Mathematics, Science or Technological or Information Literacy knowledge areas.

For-additional information on transfer visit the Transfer Resources website at <http://transfer.brookdalecc.edu>

# Business Administration Program A.A. Degree

This program is for students wishing to transfer to four-year colleges which offer Bachelor's degrees in business or business education. It contains a broad range of business-related courses plus the general education studies required for transfer to most four-year schools. Upon graduation from this program, and subsequent completion of a four-year degree, students will be prepared to begin careers in financial management, marketing, personnel management, sales, operations management, government, and other business-related activities with opportunities for promotion to management positions. Students who wish to become business education teachers upon completion of a four-year degree should also begin in this program.

*NOTE: Four-year colleges accredited by the American Collegiate Schools of Business may require demonstration of proficiency for selected 200-level courses.*

Graduates of this program will be able to:

- ▶ Apply business facts, terminology and concepts
- ▶ Research, analyze and present business situations
- ▶ Demonstrate common computer/technology skills to process and present information
- ▶ Demonstrate a proficiency in basic algebra and quantitative reasoning

## BACHELOR'S THROUGH BROOKDALE

This is a preferred Associate degree for students planning to pursue a Bachelor's degree in Finance, Management, Marketing or Labor Studies at Brookdale's New Jersey Coastal Communi-versity. For program details, transfer information, and preferred career studies courses, students should talk to their Student Development Specialist or call the Communi-versity at 732-280-2090.

For additional information on transfer visit the Transfer Resources website at <http://transfer.brookdalecc.edu>

### Requirements

General Education – 45 credits as described on page 50.

The following general education course is recommended for students choosing this program:

Code	Course	Credits
ECON 105	Macro Economics	3

Career Studies – 3 credits as follows:

Code	Course	Credits
BUSI 105	Introduction to Business	3

Career Studies — 9 credits from among the following:

ACCT 101	Principles of Accounting I	3
ACCT 102	Principles of Accounting II OR	3
ACCT 112	Managerial Accounting	3
BUSI 165	Computer Applications in Business	3
BUSI 205	Principles of Management	3
BUSI 221	Business Law I	3
ECON 106	Microeconomics	3
ECON 225	Business Statistics	3
MRKT 101	Introduction to Marketing	3

Elective 3

### Notes:

Students should check with their counselor on the following:

- Some career courses may not automatically transfer to a four-year college
- Student could complete either BUSI 165 or COMP 129, but should not complete both
- ECON 106 may be used for either general education social science credits or for career studies, but not both

**This degree program may also be completed online. Students may choose to take some or all of their courses online. For more information call 732-224-2089.**

### Degree Audit

Your progress toward your degree is available through WebAdvisor. Refer to page 23 for details.

## Credits required for degree: 60

### Suggested Sequence – Business Administration Program A.A. Degree

The following sequence is an example of how this degree can be completed in two years. This sequence is based on satisfaction of all Basic Skills requirements and prerequisites and presumes a Fall Term start date. An individual's program may vary depending on transfer institution, career objectives, or individual needs. See your counselor for other options and to monitor your progress.

Course Code	Credits	Course Code	Credits
<b>SEMESTER 1 – Fall Term</b>		<b>SEMESTER 2 – Spring Term</b>	
BUSI 105	3	Career Studies	3
ENGL 121	3	Mathematics or Science <sup>(2)</sup>	3-4
Humanities	3	ENGL 122	3
Mathematics <sup>(2)</sup>	3-4	Humanities	3
History	3	ECON 105 or Social Science	3
	15-16		15-16
<b>SEMESTER 3 – Fall Term</b>		<b>SEMESTER 4 – Spring Term</b>	
Career Studies	3	Career Studies	3
SPCH 115	3	Cultural & Global Awareness <sup>(1)</sup>	3
Humanities	3	Science (with lab) <sup>(2)</sup>	4
History	3	Mathematics/Science/ <sup>(2)</sup>	
ECON 105 or Social Science	3	Technological or Info Literacy	3-4
	15	Elective	3
			17

<sup>(1)</sup>One course is required from the Cultural & Global Awareness knowledge area. Students may meet the requirement while simultaneously fulfilling the General Education requirement for another knowledge area.

<sup>(2)</sup> A minimum of 12 credits are required from the Mathematics, Sciences or Technological Competency or Information Literacy knowledge areas.

# Business Management Option

## Business Program A.A.S. Degree

This career program is designed for students who desire entry-level employment in business and government careers. In addition, this degree, combined with work experience, may enhance promotion opportunities in any phase of business or government employment. The option is not designed for transfer to a four-year college, although many courses will transfer. Persons wishing to transfer should select the Business Administration A.A. program.

### Graduates of this program will be able to:

- ▶ Apply business terminology and concepts
- ▶ Analyze business situations and develop effective plans for achievement of goals
- ▶ Utilize appropriate technology to solve business-related problems
- ▶ Make decisions that reflect an understanding of how political-legal, competitive, technological, economic and social issues influence business
- ▶ Communicate an understanding of business principles in written and oral form
- ▶ Demonstrate effective team/interpersonal skills

### Requirements

General Education – 20 credits as described on page 50.

The following general education courses are recommended for students choosing this program.

Code	Course	Credits
ECON 105	Macro Economics	3
ECON 106	Micro Economics	3
ENGL 121	English Composition: Writing Process	3
SPCH 115	Public Speaking	3

### Career Studies — 30 credits as follows:

BUSI 105 <sup>(1)</sup>	Introduction to Business	3
BUSI 116**	Money Management and Personal Finance (Offered Spring term in odd years)	3
BUSI 165	Computer Applications in Business	3
BUSI 205	Principles of Management	3
BUSI 206**	Supervisory Management	3
BUSI 231*	Human Resource Management	3
BUSI 241**	Small Business Management	3
BUSI 251*	Global Business	3
BUSI 298**	Management Analysis-Capstone Course	3
ACCT 101	Principles of Accounting I	3

### Career Studies — 6 credits from among the following:

BUSI 221	Business Law I	3
BUSI 295	Special Project-Management	3
BUSI 299	Business Internship	3
MRKT 101	Introduction to Marketing	3
MRKT 105	Advertising	3

### Electives 4

<sup>(1)</sup> Recommended as first BUSI course

\*Offered Fall term only

\*\*Offered Spring term only

### Degree Audit

Your progress toward your degree is available through WebAdvisor. Refer to page 23 for details.

### Credits required for degree: 60

#### Suggested Sequence – Business Program A.A.S. Degree Business Management Option

The following sequence is an example of how this degree can be completed in two years. This sequence is based on satisfaction of all Basic Skills requirements and prerequisites and presumes a Fall Term start date. An individual's program may vary depending on transfer institution, career objectives, or individual needs. See your counselor for other options and to monitor your progress.

Course Code	Credits	Course Code	Credits
<b>SEMESTER 1 – Fall Term</b>		<b>SEMESTER 2 – Spring Term</b>	
BUSI 105	3	ACCT 101	3
BUSI 165	3	BUSI 205	3
ENGL 121	3	Career Studies	3
General Education <sup>(1)</sup>	3	Mathematics or Science or Technological or Info Literacy	3-4
Career Studies	3	BUSI 116**	3
	15		15-16
<b>SEMESTER 3 – Fall Term</b>		<b>SEMESTER 4 – Spring Term</b>	
BUSI 231*	3	BUSI 206**	3
BUSI 251*	3	BUSI 298**	3
SPCH 115	3	ECON 106	3
ECON 105	3	General Education	3
Elective	3-4	BUSI 241**	3
	15		15-16

\*Offered Fall Term only

\*\*Offered Spring Term only

<sup>(1)</sup> One course is recommended from the Cultural & Global Awareness knowledge area.

# Chemistry Option

## Mathematics/ Science Program A.S Degree

Students who wish to pursue four-year degrees in chemistry or medicine or to enter pharmacy degree programs should choose this option which combines chemistry and related science courses with liberal arts requirements. Bachelor's degree graduates may become chemists, chemical engineers, laboratory technicians and pharmacists.

### Graduates of this program will be able to:

- ▶ Explain basic chemical concepts and theories
- ▶ Apply chemical concepts, mathematical techniques and critical thinking skills to solve chemical problems
- ▶ Utilize instruments/computers to gather and analyze data and present findings

### Requirements

General Education – 30 credits as described on page 50 including the following:

Code	Course	Credits
MATH 171	Calculus I	4
PHYS 121	General Physics I	4

Since these courses are prerequisites for the Career Studies courses MATH 172 and PHYS 122, they are recommended as the MATH and SCIENCE general education courses.

### \*Career Studies – 28 credits as follows:

CHEM 101	General Chemistry I	5
CHEM 102	General Chemistry II	5
CHEM 203	Organic Chemistry I	5
CHEM 204	Organic Chemistry II	5
MATH 172	Calculus II	4
PHYS 122	General Physics II	4

\*All career studies courses must be passed with a grade of "C" or higher.

Electives	4
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### Degree Audit

Your progress toward your degree is available through WebAdvisor. Refer to page 23 for details.

## Credits required for degree: 62

### Suggested Sequence – Mathematics/Science Program A.S. Degree Chemistry Option

The following sequence is an example of how this degree can be completed in two years. This sequence is based on satisfaction of all Basic Skills requirements and \*prerequisites and presumes a Fall Term start date. An individual's program may vary depending on transfer institution, career objectives, or individual needs. See your counselor for other options and to monitor your progress.

Course Code	Credits	Course Code	Credits
<b>SEMESTER 1 – Fall Term</b>		<b>SEMESTER 2 – Spring Term</b>	
CHEM 101	5	CHEM 102	5
MATH 171*	4	MATH 172	4
ENGL 121	3	ENGL 122	3
Humanities	3	Social Sciences	3
	15		15
<b>SEMESTER 3 – Fall Term</b>		<b>SEMESTER 4 – Spring Term</b>	
CHEM 203	5	CHEM 204	5
PHYS 121	4	PHYS 122	4
Humanities or Social Sciences	3	General Education <sup>(1)</sup>	3
Mathematics or Science or Technological or Info Literacy <sup>(2)</sup>	4 16	Electives	4 16

\*MATH 151, MATH 152 and/or MATH 153 may be required if prerequisites for MATH 171 are not satisfied.

<sup>(1)</sup> One course is recommended from the Cultural & Global Awareness knowledge area.

<sup>(2)</sup> A minimum of 9 credits are required from the Mathematics, Science or Technological or Information Literacy knowledge areas.

For additional information on transfer visit the Transfer Resources website at <http://transfer.brookdalecc.edu>

# Computer-Aided Drafting and Design Technology Program A.A.S. Degree

In this technological society, the demand for trained CADD (Computer-Aided Drafting and Design) personnel continues to grow. Students have the opportunity to prepare themselves in either basic or specialized Computer-Aided Drafting and Design areas. The graduates will be fully prepared to take positions as CADD operators, drafters and design technicians.

Graduates of this program will be able to:

- ▶ Utilize AutoCAD's mode settings, drawing aids, toolbars, prototype drawings and shortcuts
- ▶ Operate the CAD work-station components including the microcomputer, input (pointing) device and output (hardcopy) devices (plotter & printer)
- ▶ Prepare and plot a complete set of working drawings, deciding which views to include, if auxiliary or section views are needed, and how to dimension and plot each drawing
- ▶ Produce professional quality two-dimensional and three-dimensional drawings using the AutoCAD software

## Computer-Aided Drafting and Design Academic Credit Certificate of Achievement

This short program is designed to train the students in the area of Computer-Aided Drafting and Design. It is tailored to meet entry-level requirements in the Computer-Aided Drafting and Design field. The credits earned may later be applied toward an A.A.S. degree program.

### Requirements

Career Studies – 25 credits as follows:

Code	Course	Credits
DRFT 106	Fundamentals of Basic Drafting	3
CADD 121	Engineering Graphics with CADD	4
CADD 211	Intermediate Computer-Aided Drafting	3
CADD 212	Computer-Aided Architectural Drafting and Design	4
CADD 214	3-D Modeling	4
CADD 220	CAD for Rendering & Animation	4
<b>Approved Technical electives</b>		<b>3</b>

### Requirements

General Education – 20 credits as described on page 50.

The following courses are recommended for students choosing this program.

Code	Course	Credits
ECON 107	Economics	3
ENGL 121	English Composition: The Writing Process	3
ENGL 122	English Composition: Writing and Research	3
HIST 105	World Civilization I	3
MATH 151	Intermediate Algebra	4
PHYS 111	General Physics I (non-calculus)	4

Career Studies — 32 credits as follows:

ARCH 151	Architectural Construction I	3
CADD 121	Engineering Graphics with CADD	4
CADD 211	Intermediate Computer-Aided Drafting	3
CADD 212	Computer-Aided Architectural Drafting and Design	4
CADD 214	3-D Modeling with CAD	4
COMP 129	Information Technology	3
DRFT 106	Fundamentals of Basic Drafting	3
ELEC 103	Electrical Skills and Techniques	4
MATH 152	College Algebra & Trigonometry	4

Technical Electives – 9-12 credits from any of following:

### Architectural

ARCH 152	Architectural Construction II	3
CADD 220	CAD for Rendering and Animation	4
CADD 225	3D Architectural CAD	4

### Computer Art

CADD 220	CAD for Rendering and Animation	4
ARTC 141	Digital Paint I	3
ARTC 142	Digital Paint II	3

### Computer Repair/Networking

COMP 145	Introduction to UNIX	3
ELEC 243	Mini/Microcomputer Interfacing	4
ELEC 244	Computer Peripherals, Data Communications and Networking	4

### Electronic

ELEC 111	Electrical Circuits I	4
ELEC 112*	Electrical Circuits II	4
PHYS 112	General Physics I (non-calculus)	4

### Website Design

COMP 140	Designing/Developing Websites	3
COMP 166	Web Design Using HTML	3
Approved Technical Elective		3-4

\*Offered Fall term only

## Degree Audit

Your progress toward your degree is available through WebAdvisor. Refer to page 23 for details.

## Credits required for degree: 61-64

### Suggested Sequence – Computer-Aided Drafting and Design Technology Program A.A.S. Degree

The following sequence is an example of how this degree can be completed in two years. This sequence is based on satisfaction of all Basic Skills requirements and prerequisites and presumes a Fall Term start date. An individual's program may vary depending on transfer institution, career objectives, or individual needs. See your counselor for other options and to monitor your progress.

STUDENTS WHO HAVE NO PREVIOUS DRAFTING EXPERIENCE MUST TAKE DRFT 106 UPON ENTRY INTO THE PROGRAM.

Course Code	Credits	Course Code	Credits
<b>SEMESTER 1 – Fall Term</b>		<b>SEMESTER 2 – Spring Term</b>	
CADD 121	4	CADD 211	3
DRFT 106	3	COMP 129	3
ELEC 103	4	Technical Elective	3-4
ENGL 121	3	ENGL 122	3
MATH 151	4	MATH 152	4
	18		16-17
<b>SEMESTER 3 – Fall Term</b>		<b>SEMESTER 4 – Spring Term</b>	
ARCH 151	3	CADD 214	4
CADD 212	4	Technical Elective	3-4
HIST 105	3	Technical Elective	3-4
PHYS 111	4	ECON 107	3
	14		13-15

# Computer Science Program A.A.S. Degree

## Programming Option

Students wishing to gain knowledge of computer programming and design should choose this program. Courses are designed to offer hands-on experience to prepare the student for an entry level computer programming position. Focus is on problem analysis, design, coding, testing and debugging. This degree is not designed to transfer, although the student will find that many of the courses which provide a foundation in computer science may transfer.

Graduates of this program will be able to:

- ▶ Analyze problems
- ▶ Create effective algorithms
- ▶ Code, debug, test, and document programs using basic control structures
- ▶ Create programs using data structures such as arrays, lists, and stacks
- ▶ Design and use classes and objects
- ▶ Create programs which use Graphical User Interfaces
- ▶ Explain functions of operating systems and computer architecture
- ▶ Understand how to store and access data using a database
- ▶ Plan and design a computer information system

See page 142 for the Web Site Development Option – Computer Science A.A.S.

### Requirements

General Education – 20 credits of general education as described on page 50.

Career Studies – 30 credits as follows:

COMP 126	Computer Logic and Design	3
COMP 135	Computer Architect – Assembly Language	3
COMP 171	Programming I	3
COMP 185	Programming in Visual Basic.NET	3
COMP 225	Operating Systems Technology	3
COMP 226	Systems Analysis and Design	3
COMP 228	Data Structures	3
COMP 269	Database Concepts	3
COMP 271	Programming II	3
COMP 296	Advanced Software Project	3

Technical Electives – 9 credits from among the following:

COMP 140	Designing/Developing Web Sites	3
COMP 145	Introduction to UNIX	3
COMP 166	Web Design Using HTML	3
COMP 299	Computer Science Internship	3

Elective 1

### Degree Audit

Your progress toward your degree is available through WebAdvisor. Refer to page 23 for details.

## Credits required for degree: 60

### Suggested Sequence – Computer Science Program A.A.S. Degree Programming Option

The following sequence is an example of how this degree can be completed in two years. This sequence is based on satisfaction of all Basic Skills requirements and prerequisites and presumes a Fall Term start date. An individual's program may vary depending on transfer institution, career objectives, or individual needs. See your counselor for other options and to monitor your progress.

Course Code	Credits	Course Code	Credits
<b>SEMESTER 1 – Fall Term</b>		<b>SEMESTER 2 – Spring Term</b>	
COMP 126	3	COMP 135	3
COMP 171	3	COMP 271	3
ENGL 121	3	Communications	3
Mathematics or Science or Technological or Info Literacy	3-4	Social Sciences	3
Technical Electives	3	Technical Electives	3
	15-16		15
<b>SEMESTER 3 – Fall Term</b>		<b>SEMESTER 4 – Spring Term</b>	
COMP 185	3	COMP 228	3
COMP 225	3	COMP 296	3
COMP 226	3	General Education <sup>(1)</sup>	6
COMP 269	3	Technical Electives	3
Humanities	3		15
	15		

<sup>(1)</sup> One course is recommended from the Cultural & Global Awareness knowledge area.

# Computer Science Program A.S. Degree

This program is designed for students who would like to transfer to a four-year program in Computer Science or related areas, such as Management Information Systems or Software Engineering. Hands-on computer courses are combined with general and mathematics courses to provide the student with the essential coursework needed to succeed beyond the Associate degree.

### Graduates of this program will be able to:

- ▶ Analyze problems
- ▶ Create effective algorithms
- ▶ Code, debug, test and document programs using basic control structures
- ▶ Create programs using data structures such as arrays, lists, and stacks
- ▶ Design and use classes and objects
- ▶ Explain functions of operating systems and computer architecture
- ▶ Understand how to store and access data using a database
- ▶ Plan and design a computer information system

### Requirements

**General Education – 30 credits of general education as described on page 50. The following general education courses are recommended for students choosing this program.**

Code	Course	Credits
ENGL 121	English Composition The Writing Process	3
ENGL 122	English Composition Writing and Research	3
MATH 171	Calculus I	4
PHYS 121	General Physics I	4
PHYS 122	General Physics II	4

### Career Studies – 35 credits as follows:

COMP 126	Computer Logic and Design	3
COMP 135	Computer Architect – Assembly Language	3
COMP 171	Programming I	3
COMP 225	Operating Systems Technology	3
COMP 226	Systems Analysis and Design	3
COMP 228	Data Structures	3
COMP 269	Database Concepts	3
COMP 271	Programming II	3
COMP 296	Advanced Software Project	3
MATH 172	Calculus II	4
MATH 273	Calculus III	4

NOTE: This program assumes that the student is prepared to take Calculus I as a first semester college level math course. Students who need to satisfy basic math requirements or who are counseled to take courses prior to Calculus will need to take additional credits. Also note that Calculus I is a prerequisite for Calculus II.

### Degree Audit

Your progress toward your degree is available through WebAdvisor. Refer to page 23 for details.

### BACHELOR'S THROUGH BROOKDALE

This is a preferred Associate degree for students planning to pursue a Bachelor's degree in Information Technology or Information Systems at Brookdale's New Jersey Coastal Communiversy. For program details and transfer information, students should talk to their Student Development Specialist or call the Communiversy at 732-280-2090.

For-additional information on transfer visit the Transfer Resources website at <http://transfer.brookdalecc.edu>

### Credits required for degree: 65

### Suggested Sequence – Computer Science Program A.S. Degree

The following sequence is an example of how this degree can be completed in two years. This sequence is based on satisfaction of all Basic Skills requirements and \*prerequisites and presumes a Fall Term start date. An individual's program may vary depending on transfer institution, career objectives, or individual needs. See your counselor for other options and to monitor your progress.

Course Code	Credits	Course Code	Credits
<b>SEMESTER 1 – Fall Term</b>		<b>SEMESTER 2 – Spring Term</b>	
COMP 126	3	COMP 135	3
COMP 171	3	COMP 271	3
MATH 171*	4	MATH 172	4
ENGL 121	3	ENGL 122	3
Social Sciences	3	Social Sciences or Humanities	3
	16		16
<b>SEMESTER 3 – Fall Term</b>		<b>SEMESTER 4 – Spring Term</b>	
COMP 225	3	COMP 228	3
COMP 226	3	COMP 296	3
COMP 269	3	PHYS 122	4
MATH 273	4	General Education <sup>(1)</sup>	3
PHYS 121	4	Humanities	3
	17		16

\*MATH 152 and/or MATH 153 may be required if prerequisites for MATH 171 are not satisfied.  
<sup>(1)</sup> One course is recommended from the Cultural & Global Awareness knowledge area.

# Creative Writing Option

## Humanities Program A.A. Degree

This option provides the writing skills and general studies to establish a foundation in creative writing across genres with some depth in specific genres and will prepare students for transfer to writing programs at the four year college level for further study. It will also prepare students for positions in writing and publishing such as writer, editor, proofreader, editorial staff positions in creative fields such as publishing, advertising, and public relations as well as a creativity worker such as author. Students interested in pursuing a BFA, MFA or PhD in Creative Writing will benefit the most from this Option, but general English majors may be interested as well.

Graduates of this program will be able to:

- ▶ Explicate a literary text and deconstruct the use of craft elements specific to certain genres of writing
- ▶ Develop and show a portfolio of original creative work as well as scholarship on contemporary literature
- ▶ Exhibit basic facility in at least two genres of creative writing
- ▶ Demonstrate familiarity with the protocols of publication both print and online.

For additional information on transfer visit the Transfer Resources website at <http://transfer.brookdalecc.edu>

### Requirements

General Education – 45 credits as described on page 50.

Career Studies - 12 credits as follows:

Career Studies – 6-9 credits from the following:

Code	Course	Credits
ENGL 221	Creative Writing	3
ENGL 223	Poetry Writing Workshop	3
ENGL 224	Fiction Writing Workshop	3
ENGL 227	Creative Non-Fiction Workshop	3

Career Studies – 3-6 credits from the following:

ENGL 128*	Writing from the Female Experience	3
ENGL 155	The Short Story	3
ENGL 156	Introduction to Poetry	3
ENGL 158	Introduction to Literature	3
ENGL 168	Contemporary Plays	3
ENGL 228**	Screenwriting Basics Workshop	3
ENGL 265*	Children's Literature	3

Elective 3

\*\*Offered Spring term only

\*Offered Fall term only

### Degree Audit

Your progress toward your degree is available through WebAdvisor. Refer to page 23 for details.

### Credits required for degree: 60

#### Suggested Sequence – Humanities Program A.A. Degree Creative Writing Option

The following sequence is an example of how this degree can be completed in two years. This sequence is based on satisfaction of all Basic Skills requirements and prerequisites and presumes a Fall Term start date. An individual's program may vary depending on transfer institution, career objectives, or individual needs. See your counselor for other options and to monitor your progress.

Course Code	Credits	Course Code	Credits
<b>SEMESTER 1 – Fall Term</b>		<b>SEMESTER 2 – Spring Term</b>	
Career Studies	3	Career Studies	3
Mathematics / Science / Technological Competency or Information Literacy <sup>(1)</sup>	3-4	ENGL 122	3
ENGL 121	3	Mathematics or Science <sup>(1)</sup>	3-4
Humanities	3	History	3
Mathematics <sup>(1)</sup>	3-4	Social Sciences	3
	15-17		15-16
<b>SEMESTER 3 – Fall Term</b>		<b>SEMESTER 4 – Spring Term</b>	
Career Studies	3	Career Studies	3
SPCH 115	3	Humanities	3
Humanities	3	Social Sciences	3
Science (with lab) <sup>(1)</sup>	4	Cultural & Global Awareness <sup>(2)</sup>	3
History	3	Electives	3
	16		15

<sup>(1)</sup> A minimum of 12 credits are required from the Mathematics, Sciences or Technological Competency or Information Literacy knowledge areas.

<sup>(2)</sup> One course is required from the Cultural & Global Awareness knowledge area. Students may meet the requirement while simultaneously fulfilling the General Education requirement for another knowledge area.

# Criminal Justice Program A.S. Degree

The Criminal Justice program is both a transfer and a career program. Students can go on to earn a B.A. Degree or take courses in an effort to find employment. The study of criminal justice provides an opportunity to learn about issues and problems in society's response to crime. Coursework also seeks to provide particular career-oriented skills. Career opportunities exist in law enforcement, court administration, corrections and security.

**Graduates of this program will be able to:**

- ▶ Identify occupational opportunities in the three sub-systems of the criminal justice system
- ▶ Analyze the constitutional rights and court decisions most important to the criminal justice system
- ▶ Analyze the structure of the New Jersey and the United States court systems
- ▶ Critique the important decision points in the criminal justice process
- ▶ Construct their own personal views on controversial issues raised about the American justice system
- ▶ Examine the issues of professional responsibility and ethical standards in the criminal justice system

**BACHELOR'S THROUGH BROOKDALE**

This is a preferred Associate degree for students planning to pursue a Bachelor's degree in Criminal Justice, National Security Studies or Fire Science at Brookdale's New Jersey Coastal Community. For program details and transfer information, students should talk to their Student Development Specialist or call the Community at 732-280-2090.

For additional information on transfer visit the Transfer Resources website at <http://transfer.brookdalecc.edu>

**Requirements**

General Education – 30 credits as described on page 50. The following courses are recommended for students in this program.

Code	Course	Credits
ENGL 121	English Composition; The Writing Process	3
POLI 115	State, County and Local Government	3
SOCI 101	Principles of Sociology	3
SPCH 115	Public Speaking	3

**Career Studies – 21 credits from among the following:**

CRJU 101	Introduction to the Criminal Justice System	3
CRJU 125	Police Role in the Community	3
CRJU 126	Introduction to Public Administration	3
CRJU 127	Introduction to Corrections	3
CRJU 131*	Introduction to Private Security	3
CRJU 151	Introduction to Criminology	3
CRJU 202	Criminal Investigation	3
CRJU 204	Forensic Investigation	3
CRJU 205	Community Corrections	3
CRJU 225	Police Organization and Administration	3
CRJU 226	Criminal Law	3
CRJU 229	Criminal Due Process	3
CRJU 235**	Loss Prevention	3
CRJU 236	Counter Terrorism	3
CRJU 245	Delinquency and Juvenile Justice	3

CRJU 295	Special Project-Criminal Justice	1-3
CRJU 299	Criminal Justice Internship	3
ENVR 126	Introduction to Geographic Information Systems (GIS)	3

**Electives 9**

\*Offered Fall term only  
\*Offered Spring term only

**Degree Audit**

Your progress toward your degree is available through WebAdvisor. Refer to page 23 for details.

**Credits required for degree: 60**

**Suggested Sequence – Criminal Justice Program A.S. Degree**

The following sequence is an example of how this degree can be completed in two years. This sequence is based on satisfaction of all Basic Skills requirements and prerequisites and presumes a Fall Term start date. An individual's program may vary depending on transfer institution, career objectives, or individual needs. See your counselor for other options and to monitor your progress.

Course Code	Credits	Course Code	Credits
<b>SEMESTER 1 – Fall Term</b>		<b>SEMESTER 2 – Spring Term</b>	
CRJU 101	3	Career Studies	6
Career Studies	3	ENGL 122	3
ENGL 121	3	Mathematics or Science or Technological or Info Literacy <sup>(2)</sup>	3-4
Social Sciences*	3	General Education <sup>(1)</sup>	3
Mathematics <sup>(2)</sup>	3-4		15-16
	15-16		
<b>SEMESTER 3 – Fall Term</b>		<b>SEMESTER 4 – Spring Term</b>	
Career Studies	6	Career Studies	3
Humanities	3	Humanities or Social Sciences*	3
Science (with Lab) <sup>(2)</sup>	4	General Education	3
Elective	3	Elective	6
	16		15

\*POLI 105 or POLI 115 strongly recommended.  
<sup>(1)</sup> One course is recommended from the Cultural & Global Awareness knowledge area.  
<sup>(2)</sup> A minimum of 9 credits are required from the Mathematics, Sciences or Technological or Information Literacy categories.

# Criminal Justice Program

## A.S. Degree

### Corrections Option

The Corrections Option is aimed at providing students with the skills and knowledge to enter a career in institutional or community-based corrections. The tremendous growth of prisons and the prison population has resulted in career opportunities in corrections for criminal justice majors. A similar expansion of community-based corrections has occurred to stem the prison building boom and reduce the cost of institutional corrections. Career opportunities in community-based corrections provide an opportunity to incorporate psychological and sociological course work in the criminal justice program. The Corrections Option is designed to provide alternative curricula for students who are interested in a career in law enforcement.

Because transfer requirements vary, students should identify transfer schools as early as possible and work closely with counselors to insure selecting appropriate courses for smooth transfer.

Graduates of this program will be able to:

- ▶ Distinguish between occupational opportunities in Community-Based Correctional Programs
- ▶ Compare and contrast the differences between Probation and Parole
- ▶ Demonstrate a strong knowledge base and practical experience in delivery of services to clients in Community- Based Programs
- ▶ Analyze the various intermediate sanctions as sentencing options between Probation and Incarceration
- ▶ Critique the mission of Community Corrections and its purpose as a vital diversion to the American Criminal Justice and Corrections System
- ▶ Construct solutions and/or make predictions involving the major issues, trends and dilemmas confronting Community Corrections

**For additional information on transfer visit the Transfer Resources website at**  
<http://transfer.brookdalecc.edu>

### Requirements

General Education – 30 credits as described on page 50.

It is strongly recommended that students select two of the following three courses to satisfy the Social Sciences requirement of general education.

Code	Course	Credits
PSYC 105	Introduction to Psychology I	3
PSYC 106	Introduction to Psychology II	3
SOCI 101	Principles of Sociology	3

**Career Studies — 18 credits. 12 credits as follows:**

CRJU 101	Introduction to the Criminal Justice System	3
CRJU 127	Introduction to Corrections	3
CRJU 205	Community Corrections	3
CRJU 245	Delinquency and Juvenile Justice	3

**Select another 6 credits from the remaining Criminal Justice curricula.**

**Career Studies — Social Science —**

**Select 12 credits from the following list of courses:**

PSYC 111	Introduction to Human Services	3
PSYC 215	Counseling Techniques	3
PSYC 216	Abnormal Psychology	3
PSYC 235	Group Dynamics	3
SOCI 105	Intercultural Communications	3
SOCI 202	Analysis of Social Problems	3
SOCI 216*	Sociology in Minorities	3

\*Offered Fall term only

### Credits required for degree: 60

#### Suggested Sequence – Criminal Justice Program A.S. Degree Corrections Option

The following sequence is an example of how this degree can be completed in two years. This sequence is based on satisfaction of all Basic Skills requirements and prerequisites and presumes a Fall Term start date. An individual's program may vary depending on transfer institution, career objectives, or individual needs. See your counselor for other options and to monitor your progress.

Course Code	Credits	Course Code	Credits
<b>SEMESTER 1 – Fall Term</b>		<b>SEMESTER 2 – Spring Term</b>	
CRJU 101	3	Career Studies	3
CRJU 127	3	CRJU 205	3
ENGL 121	3	ENGL 122	3
Social Sciences	3	Mathematics or Science or	3-4
Mathematics <sup>(2)</sup>	3-4	Technological or Info Literacy <sup>(2)</sup>	
	15-16	General Education <sup>(1)</sup>	3
			15-16
<b>SEMESTER 3 – Fall Term</b>		<b>SEMESTER 4 – Spring Term</b>	
Career Studies	6	Career Studies	9
CRJU 245	3	Humanities or Social Sciences	3
Science (with lab) <sup>(2)</sup>	4	General Education	3
Humanities	3		15
	16		

<sup>(1)</sup> One course is recommended from the Cultural & Global Awareness knowledge area.

<sup>(2)</sup> A minimum of 9 credits are required from the Mathematics, Sciences or Technological or Information Literacy categories.

### Degree Audit

Your progress toward your degree is available through WebAdvisor. Refer to page 23 for details.

# Culinary Arts Program

## A.A.S. Degree

This program is for the highly motivated career-oriented person who desires to work in a restaurant or other food service establishment as a professional chef. This fast-track, quality training program combines general education studies, career courses and hands-on professional food preparation. Potential employment opportunities exist in food preparation and supervisory positions in restaurants, food catering services, and institutional food services in schools, colleges, hospitals, nursing homes, and business establishment facilities. Prospective students must take the College Placement Test prior to entering the program.

Culinary Courses will run in three-week blocks each semester. Classes are conducted Monday through Thursday, allowing the student the weekend to pursue job opportunities in the field. Challenging externship experiences will be custom-matched to the student's individual career goals. Students have been successfully placed in local restaurants and hotels as well as in Atlantic City and in exciting externships at Disney World and other locations internationally. A mid program assessment will be administered at the end of the students' first year preceding CULA 299.

Students must successfully pass the SERV-SAFE sanitation examination to receive the degree.

### Graduates of this program will be able to:

- ▶ Demonstrate a working knowledge of the science of food and of the history of the culinary profession
- ▶ Apply computation skills pertinent to the culinary industry
- ▶ Demonstrate advanced cooking and baking techniques
- ▶ Demonstrate both customer service and management techniques
- ▶ Apply the standards of sanitation and safety that have been attained upon successful completion of the National Restaurant Association's Serv-Safe Certification

### Requirements

General Education – 20 credits as described on page 50. The following general education courses are required for students choosing this program.

Code	Course	Credits
COMP 129	Information Technology	3
ENGL 121	English Composition: The Writing Process	3

The following general education courses are recommended:

SOCI 105	Intercultural Communication	3
SPCH 115	Public Speaking	3

Career Studies — 50.5 credits as follows:

CULA 105	Introduction to Culinary Arts	1.5
CULA 107	Culinary Math	1.5
CULA 111	Basic Food Skills I	3
CULA 112	Basic Food Skills II	3
CULA 115	Sanitation and Safety	1.5
CULA 126	Brunch/Buffer Production	3
CULA 127	Ala Carte Lunch	3
CULA 131	Nutrition in the Culinary Arts	3
CULA 133	Storeroom and Purchasing Operations	2
CULA 141	Dining Room I	2
CULA 151	Baking Skills I	3
CULA 241	Dining Room II/Wines	3
CULA 251	Patisserie	3

CULA 266	Meat and Seafood Science	3
CULA 267	American Regional Cuisine	3
CULA 271	Advanced Classical Cuisine	3
CULA 272	Advanced Dining Room III/Spirits	3
CULA 275	International Regional Cuisine	3
CULA 299	Culinary Arts Externship	3

A grade of "C" or better in all career courses is required to graduate with a A.A.S. in Culinary Arts.

### Degree Audit

Your progress toward your degree is available through WebAdvisor. Refer to page 23 for details.

### Credits required for degree: 70.5

#### Suggested Sequence – Culinary Arts Program A.A.S. Degree

The following sequence is an example of how this degree can be completed in two years. This sequence is based on satisfaction of all Basic Skills requirements and prerequisites and presumes a Fall Term start date. An individual's program may vary depending on transfer institution, career objectives, or individual needs. See your counselor for other options and to monitor your progress.

Course Code	Credits	Course Code	Credits
<b>SEMESTER 1 – Fall Term</b>		<b>SEMESTER 2 – Spring Term</b>	
CULA 105	1.5	CULA 126	3
CULA 107	1.5	CULA 127	3
CULA 111	3	CULA 131	3
CULA 112	3	CULA 141	2
CULA 115	1.5	CULA 151	3
CULA 133	2	Communications	3
ENGL 121	3		17
	15.5		
<b>Summer Semester</b>		<b>SEMESTER 4 – Spring Term</b>	
CULA 299	3	CULA 271	3
		CULA 272	3
<b>SEMESTER 3 – Fall Term</b>		CULA 275	3
CULA 241	3	Humanities	3
CULA 251	3	General Education	5
CULA 266	3		17
CULA 267	3		
COMP 129	3		
Social Sciences	3		
	18		

## Culinary Arts Academic Credit Certificate

This condensed program of study provides the student with skills needed to perform a variety of basic food preparation activities required by the entry-level food service job. The student must successfully pass the SERV-SAFE sanitation examination to receive the certificate. Most credits earned may be applied to the A.A.S. degree. Upon completion, students are awarded a Certificate of Proficiency.

*A grade of "C" or better in all career courses is required to receive the Culinary Arts Academic Credit Certificate.*

### Graduates of this certificate program will be able to:

- ▶ Demonstrate a working knowledge of the science of food and of the history of the culinary profession
- ▶ Apply computation skills pertinent to the culinary industry
- ▶ Demonstrate basic cooking and baking techniques
- ▶ Apply the standards of sanitation and safety that have been attained upon successful completion of the National Restaurant Association's Serv-Safe Certification

### Requirements

#### General Education – 6 credits

ENGL 121	English Composition The Writing Process	3
	Any other General Education course	3

#### Career Studies — 27.5 credits as follows:

Code	Course	Credits
CULA 105	Introduction to Culinary Arts	1.5
CULA 107	Culinary Math	1.5
CULA 111	Basic Food Skills I	3
CULA 112	Basic Food Skills II	3
CULA 115	Sanitation and Safety	1.5
CULA 126	Brunch/Buffer Production	3
CULA 127	Ala Carte Lunch	3
CULA 131	Nutrition in the Culinary Arts	3
CULA 133	Storeroom and Purchasing Operations	2
CULA 151	Baking Skills I	3
CULA 266	Meat and Seafood Science	3

**Total Credits 33.5**

## Culinary Arts – Letter of Recognition

This intense option is for the student who needs to take only a few selective courses to meet job requirements. The student must successfully pass the SERV-SAFE sanitation examination to receive this letter. Most credits are transferable to the A.A.S. degree in Culinary Arts.

### Requirements

#### Career Studies – 1.5 credits as follows:

Code	Course	Credits
CULA 115	Sanitation and Safety	1.5

**Career Studies — 10.5 credits selected from the Culinary Arts A.A.S. degree to meet specific individual requirements. The student must meet with the Culinary Arts director for approval of course selections.**

**Total Credits 12**

## Pastry Arts Academic Credit Certificate

This option is designed for the culinary student who wants to pursue a career in pastry arts. This program consists of a select 23 credits that would benefit the individual who wants to develop their pastry skills into more advanced and elaborate patisserie, cakes, confections, and decorating. The student must pass the SERV-SAFE sanitation examination to receive the certificate. Students must take 23 career credits as follows and six general education credits, plus 1 elective credit.

*A grade of "C" or better in all career courses is required to receive the Pastry Arts Academic Credit Certificate.*

### Graduates of this certificate program will be able to:

- ▶ Demonstrate a working knowledge of the history of the culinary profession
- ▶ Apply computation skills pertinent to the culinary industry
- ▶ Demonstrate advanced baking techniques
- ▶ Apply the standards of sanitation and safety that have been attained upon successful completion of the National Restaurant Association's Serv-Safe Certification

### Requirements

#### General Education – 6 credits

ENGL 121	English Composition: The Writing Process	3
	Any other General Education course	3

#### Career Studies – 22.5 credits as follows:

Code	Course	Credits
CULA 105	Introduction to Culinary Arts	1.5
CULA 107	Culinary Math	1.5
CULA 115	Sanitation and Safety	1.5
CULA 151	Baking Skills I	3
CULA 251	Patisserie	3
CULA 252	Advanced Baking	3
CULA 253	Advanced Patisserie	3
CULA 255	Advanced Pastry Arts	3
CULA 256	Confectionery and Showpieces	3

**Electives 2**  
**Total Credits 30.5**

## Degree Audit

Your progress toward your degree is available through WebAdvisor. Refer to page 23 for details.

# Dental Hygiene Program A.A.S. Degree

An Associate in Applied Science Degree in Dental Hygiene and a Certificate in Dental Assisting are offered in cooperation with the School of Health Related Professions at the University of Medicine and Dentistry of New Jersey (UMDNJ). In both cases the diploma or certificate is awarded jointly by the two Colleges.

30 of 35 General Education credits must be taken at Brookdale. All dentistry courses are taken at UMDNJ's Scotch Plains campus. All prospective students must apply to Brookdale for admission to these programs which have limited enrollment and an entrance examination. More information about both of these programs can be obtained by calling the Office of Admissions at (732) 224-2330.

## Graduates of this program will be able to

- ▶ Exhibit competency as clinicians through demonstrated performance on the North East Regional Board Dental Hygiene Examination and the National Board Examination and feedback from Employer Surveys
- ▶ Assume responsibility for health promotion and disease prevention for individuals and communities through participation in multiple off-campus dental health education community projects
- ▶ Obtain RDH license issued by the State Board of Dentistry of New Jersey
- ▶ Perform multiple, expanded dental auxiliary functions as defined in the New Jersey State Dental Practice Act under the auspices of Dental Specialties II and Clinical Services I, II and III
- ▶ Demonstrate professional development through membership in the Student American Dental Hygienists' Association and participation in related activities
- ▶ Display professional demeanor at all times as evidenced by professional development grades achieved in all dental courses
- ▶ Prepare individuals for employment as dental hygienists according to established studies by the American Dental Hygiene Association Commission on Dental Accreditation and the American Dental Hygiene Association
- ▶ Determine student satisfaction with educational programming by assessment of course evaluations and alumni surveys
- ▶ Assess patient satisfaction with treatment service provided by students through data collection from the patient satisfaction survey
- ▶ Demonstrate competency in dental hygiene as stated in the Dental Hygiene Standard of Care and American Dental Educators Association Competencies

## Requirements

### General Education – 35 credits as follows:

Code	Course	Credits
BIOL 111	Anatomy and Physiology I	4
BIOL 112	Anatomy and Physiology II	4
BIOL 213	Microbiology	4
CHEM 136	Introduction to Inorganic, Organic and Biological Chemistry	4
ENGL 121	English Composition: The Writing Process	3
ENGL 122	English Composition: Writing and Research	3
PSYC 106	Introduction to Psychology II	3
SOCI 101	Principles of Sociology	3
SPCH 115	Public Speaking	3
MATH 145	Algebraic Modeling	4

A grade of "C" or higher is required in all General Education courses.

### Career Studies – 52 credits as follows:

ADEC 110	Introduction to the Dental Profession	4
ADEC 111	Dental Head and Neck Anatomy	3
ADEC 112	Dental Materials	3

ADEC 113	Medical Emergencies in the Dental Office	1
ADEC 114	Dental Health Education	1
ADEC 115	Dental Radiology	3
ADEC 116	Dental Specialties I	1
ADEC 117	Practice Management	1
DENH 120	Introduction to Clinical Dental Hygiene	4
DENH 121	Clinical Dental Hygiene I	3
DENH 122	Clinical Services I	3
DENH 123	Oral Histology and Embryology	2
DENH 124	Nutrition	2
DENH 231	Clinical Dental Hygiene II	2
DENH 232	Clinical Services II	3
DENH 233	Periodontology I	2
DENH 234	Dental Health Education/Community Dental Health	2
DENH 235	Oral Pathology	2
DENH 236	Pharmacology and Oral Medicine	1
DENH 242	Clinical Services III	3
DENH 243	Periodontology II	2
DENH 244	Dental Specialties II	1
DENH 245	Pain and Anxiety Control	1
DENH 246	Capstone Seminar	2

## Credits required for degree: 87

### Suggested Sequence – Dental Hygiene Program A.A.S. Degree

The following sequence is an example of how this degree can be completed in two years. This sequence is based on satisfaction of all Basic Skills requirements and prerequisites and presumes a Fall Term start date. An individual's program may vary depending on transfer institution, career objectives, or individual needs. See your counselor for other options and to monitor your progress. Students must satisfy specific requirements in order to be admitted to this program. See Admission to Health Science Programs, page 15 in this Catalog. This degree will take longer than two years to complete. Some general education courses must be taken prior to starting clinical courses. See below.

#### The following prerequisites must be taken prior to admission:

Course Code	Credits	Course Code	Credits
BIOL 111	4	MATH 145	4
BIOL 112	4	PSYC 106	3
BIOL 213	4	SOCI 101	3
CHEM 136	4	SPCH 115	3
ENGL 121	3		
ENGL 122	3	<b>Total Credits</b>	<b>35</b>
<b>SEMESTER 1</b>		<b>SEMESTER 2</b>	
ADEC 110	4	ADEC 114	1
ADEC 111	3	ADEC 115	3
ADEC 112	3	DENH 121	3
ADEC 113	1	DENH 122	3
DENH 120	4	DENH 123	2
	15		12
<b>SEMESTER 3</b>		<b>SEMESTER 4</b>	
ADEC 116	1	ADEC 117	1
DENH 124	2	DENH 242	3
DENH 231	2	DENH 243	2
DENH 232	3	DENH 244	1
DENH 233	2	DENH 245	1
DENH 234	2	DENH 246	2
DENH 235	2		10
DENH 236	1		
	15		

## Dental Assisting Academic Credit Certificate

### Graduates of this certificate program will be able to:

- ▶ Exhibit competency as clinicians through demonstrated performance on the Certified Dental Assistants Examination (CDA) administered by the Dental Assisting National Board and feedback from Employer Surveys
- ▶ Assume responsibility for health promotion and disease prevention for individuals and communities through participation in multiple dental health education projects
- ▶ Perform multiple, advanced level dental auxiliary functions as defined in the New Jersey State Dental Practice Act under the auspices of Clinical Assisting and Internship
- ▶ Obtain the Registered Dental Assistant credential issued by the State Board of Dentistry of New Jersey
- ▶ Demonstrate professional development through membership in the American Dental Assistants' Association and participation in related activities
- ▶ Display professionalism in the delivery of comprehensive dental health care through achievement of satisfactory grades in the section of the evaluation form for Clinical Assisting and Internship.
- ▶ Prepare individuals for employment as dental assistants
- ▶ Determine student satisfaction with educational programming

### Requirements

General Education – All 10 of the following General Education credits must be completed at Brookdale in order to be considered for admission to the Dental Assisting Program:

Code	Course	Credits
BIOL 111	Anatomy and Physiology I	4
ENGL 121	English Composition: The Writing Process	3
PSYC 106	Introduction to Psychology II	3

### Career Studies – 23 credits as follows:

Code	Course	Credits
ADEC 110	Introduction to the Dental Profession	4
ADEC 111	Dental Head and Neck Anatomy	3
ADEC 112	Dental Materials	3
ADEC 113	Medical Emergencies in the Dental Office	1
ADEC 114	Dental Health Education	1
ADEC 115	Dental Radiology	3
ADEC 116	Dental Specialties I	1
ADEC 117	Practice Management	1
DENA 110	Dental Science	2
DENA 111	Clinical Assisting	3
DENA 112	Internship	1

**Total Credits** **33**

## Degree Audit

Your progress toward your degree is available through WebAdvisor. Refer to page 23 for details.

# Diagnostic Medical Sonography A.A.S.

Students graduating with the Diagnostic Medical Sonography A.A.S. degree will have developed patient care and diagnostic medical sonographic procedure skills in order to assist in the diagnosis of pathologies. They will be able to use specialized equipment to direct non-ionizing, high frequency sound waves into areas of the patient's body in order to collect reflected echoes and forms an image that may be videotaped, transmitted, or photographed for interpretation and diagnosis by a physician. They directly aid in the diagnosis of disease for medical treatment.

Graduates will also have the ability to safely operate sonographic imaging equipment, gather patient medical histories and correlate to imaging findings, identify normal and abnormal human anomalies and pathologies, and take measurements, calculate values, and analyze the results in preliminary reports for the physicians. As a member of the health care team, they will work directly with physicians and be able to communicate with physicians and other health care professionals to clarify diagnoses or to obtain additional information for diagnostic purposes.

**Graduates of this program will be able to:**

- ▶ Demonstrate competency in the cognitive, psychomotor and affective domains of professional sonographic practice
- ▶ Assess, analyze, implement and evaluate sonographic imaging procedures
- ▶ Use critical thinking as a framework for decision making in an effort to deliver quality patient care
- ▶ Exhibit therapeutic communication skills and collaborate effectively with patients, and members of the health care team
- ▶ Teach patients and families pertinent information regarding their sonographic procedures
- ▶ Incorporate legal and ethical concepts in the implementation of imaging procedures
- ▶ Apply principles from social science, biologic sciences and humanities in their practice
- ▶ Continue personal and professional growth

**Requirements**

General Education – 20 credits as follows

Code	Course	Credits
BIOL 111	Anatomy & Physiology I	4
BIOL 112	Anatomy & Physiology II	4
ENGL 121	English Composition: Writing Process	3
ENGL 122	English Composition: Writing & Research	3
PSYC 106	Introduction to Psychology II Humanities	3

Career Studies – 43 credits as follows:

HESC 105	Medical Terminology	3
HITC 124	Pathophysiology	3
DMSO 121	Introduction to Patient Care	3
DMSO 122	Abdominal Sonography I	5
DMSO 123	Ultrasound Physics & Instrumentation I	2
DMSO 131	Cross-Sectional Anatomy	2
DMSO 132	Abdominal Sonography II	4
DMSO 133	Ultrasound Physics & Instrumentation II	2
DMSO 134	Obstetric & Gynecological Sonography I	4
DMSO 221	High Resolution Imaging	4
DMSO 222	OB-GYN Sonography II	4
DMSO 231	Vascular Imaging & Echocardiography	4
DMSO 232	Professional Issues in Ultrasonography	3
<b>Electives</b>		<b>3</b>

**Degree Audit**

Your progress toward your degree is available through WebAdvisor. Refer to page 23 for details.

**Credits required for degree: 66**

**Suggested Sequence – Diagnostic Medical Sonography A.A.S.**

The following sequence is an example of how this degree can be completed in two years. This sequence is based on satisfaction of all Basic Skills requirements and prerequisites and presumes a Fall Term start date. An individual's program may vary depending on transfer institution, career objectives, or individual needs. See your counselor for other options and to monitor your progress.

**Prerequisites - The following courses must be taken prior to admission.**

Course Code	Credits	Course Code	Credits
HESC 105	3	BIOL 111	4
		Total Credits	7
<b>SEMESTER 1 – Fall Term</b>		<b>SEMESTER 2 – Spring Term</b>	
BIOL 112	4	ENGL 122	3
ENGL 121	3	DMSO 131	2
DMSO 121	3	DMSO 132	4
DMSO 122	5	DMSO 133	2
DMSO 123	2	DMSO 134	4
	17		15
<b>SEMESTER 3 – Fall Term</b>		<b>SEMESTER 4 – Spring Term</b>	
PSYC 106	3	Humanities <sup>(1)</sup>	3
HITC 124	3	Elective	3
DMSO 221	4	DMSO 231	4
DMSO 222	4	DMSO 232	3
	14		13

<sup>(1)</sup>One course is recommended from the Cultural & Global Awareness knowledge area.

# Digital Animation and 3D Design Program A.A.S. Degree

Students graduating with the Digital Animation and 3D Design AAS degree will have developed skills in modeling, editing, rendering and storyboarding. They will have gained command of the basic technical skills required in today's highly competitive animation industry. Students will complete courses that provide them with technical skills and aesthetic proficiency. This program is designed to prepare students for entry level positions in digital animation.

**Graduates of this program will be able to:**

- ▶ Create geometry for characters, props and backgrounds
- ▶ Create materials for characters and scenes
- ▶ Animate characters
- ▶ Create lighting for animations
- ▶ Render moving pictures
- ▶ Sequence rendered frames with compositing, editing and output to tape.

## Requirements

General Education – 20 credits of general education as described on page 50 including the following required General Education course:

COMP 126 Computer Logic and Design 3

Career Studies – 42 credits as follows:

ARTS 111 Drawing I 3  
 ARTS 213 Figure Drawing 3  
 DIGM 115 Digital Editing: After Effects 3  
 DIGM 116 Production & Storyboarding: Photoshop 3  
 DIGM 121 Maya I: 3D Modeling 3  
 DIGM 122 Maya II: Fundamentals 3  
 DIGM 125 Digital Editing: Combustion 3  
 DIGM 126 Digital Modeling: ZBrush 3  
 DIGM 221 Maya III: Rendering 3  
 DIGM 222 Maya IV: Advanced Modeling and Character Rigging 3  
 DIGM 225 Digital Design and Production 6  
 DGMD 101 Introduction to Digital Media 3  
 TELV 122 Digital Video Production 3

Elective 3

## Degree Audit

Your progress toward your degree is available through WebAdvisor. Refer to page 23 for details.

## Credits required for degree: 65

### Suggested Sequence – Digital Animation and 3D Design A.A.S. Program

The following sequence is an example of how this degree can be completed in two years. This sequence is based on satisfaction of all Basic Skills requirements and prerequisites and presumes a Fall Term start date. An individual's program may vary depending on transfer institution, career objectives, or individual needs. See your counselor for other options and to monitor your progress.

Course Code	Credits	Course Code	Credits
<b>SEMESTER 1 – Fall Term</b>		<b>SEMESTER 2 – Spring Term</b>	
DGMD 101	3	DIGM 122	3
DIGM 115	3	DIGM 126	3
DIGM 116	3	ARTS 213	3
DIGM 121	3	ENGL 121	3
ARTS 111	3	General Education <sup>(1)</sup>	3
	15		15
<b>SEMESTER 3 – Fall Term</b>		<b>SEMESTER 4 – Spring Term</b>	
DIGM 221	3	DIGM 222	3
DIGM 125	3	DIGM 225	6
TELV 122	3	Social Sciences	3
Humanities	3	Elective	3
COMP 126	3	General Education	2-3
	3		17-18
Communications	3		
	18		

<sup>(1)</sup> One course is recommended from the Cultural & Global Awareness knowledge area.

# Early Childhood Education Program A.A.S. Degree

In this program, students learn the skills necessary to assist teaching personnel in public or private early childhood centers and day care centers. By taking 15 credits of Early Childhood (EDUA, EDEC, and EDUC) courses, students can apply to the State of New Jersey (Professional Impact New Jersey, advocating growth for early childhood education) for Certification as Group Teacher. The program combines practical, hands-on experience, techniques and preschool education theory with various general studies. Students will create a competency statement within each EDUA, EDEC and EDUC course that measures performances based on current Child Development Associate (CDA) credential competencies or National Association for the Education of Young Children (NAEYC) standards. Upon graduation, students qualify for such positions as day care or preschool aide, elementary school aide or social service assistant. This program is not designed for transfer to a four-year college, although many graduates make such transitions. Students wishing to become teachers should choose the appropriate Education A.A. option for transfer programs.

**Graduates of this program will be able to:**

- ▶ Identify, analyze and evaluate the variety of early childhood program delivery options
- ▶ Demonstrate understanding and applications of early childhood teaching, learning and assessment processes through developmentally appropriate delivery methods in:
  - Language arts
  - Mathematics and science
  - Creative arts
  - Music
  - Social studies, career explorations and civics
  - Health, safety and nutrition
- ▶ Maintain healthy, safe learning environments
- ▶ Advance physical and intellectual competence among typical and atypical learners
- ▶ Support social and emotional development and provide positive guidance among early learners
- ▶ Establish positive partnerships with families
- ▶ Ensure a well run classroom environment responsive to participant needs
- ▶ Demonstrate an understanding of the essential components of teaching and learning processes
- ▶ Recognize the importance of technology in early learning environments

**Requirements**

General Education – 20 credits as described on page 50. The following general education courses are recommended for students choosing this program.

Code	Course	Credits
ENGL 121	English Composition: Writing Process	3
SPCH 115	Public Speaking	3
	Social Sciences	3

**Career Studies – 24–26 credits from among the following:**

EDEC 105	Foundations of Early Childhood Education	3
EDUA 106	Language Arts in Early Childhood Programs	3
EDUA 131	Social Studies in Early Childhood Programs	3
EDUA 135	Music in Early Childhood Education	3
EDUA 145	Nutrition, Health and Safety in Early Childhood Programs	3

EDUA 205	Creative Arts in Early Childhood Programs	3
EDUA 206	Math and Science in Early Childhood Programs	3
EDUA 299	Early Childhood Assistant Internships	1-5
EDUC 216	Classroom Techniques	3
EDUC 217	Introduction to the Exceptional Child	3
EDUC 225	Literacy Development and Instruction	3

**Career Studies – 6 credits from among the following:**

ENGL 265*	Children’s Literature: An Introduction	3
PSYC 206	Human Growth and Development I	3
SOCI 105	Intercultural Communication	3

**Electives 10**

*\*Offered Fall term only*

**Degree Audit**

Your progress toward your degree is available through WebAdvisor. Refer to page 23 for details.

**Credits required for degree: 60-62**

**Suggested Sequence – Early Childhood Education Program A.A.S. Degree**

The following sequence is an example of how this degree can be completed in two years. This sequence is based on satisfaction of all Basic Skills requirements and prerequisites and presumes a Fall Term start date. An individual’s program may vary depending on transfer institution, career objectives, or individual needs. See your counselor for other options and to monitor your progress.

Course Code	Credits	Course Code	Credits
<b>SEMESTER 1 – Fall Term</b>		<b>SEMESTER 2 – Spring Term</b>	
EDEC 105	3	Career Studies	6
Career Studies	3	Communications	3
ENGL 121	3	Social Sciences	3
Humanities	3	Elective	<u>3</u>
Mathematics or Science or Technological or Info Literacy	<u>3-4</u>		15
	15-16		
<b>SEMESTER 3 – Fall Term</b>		<b>SEMESTER 4 – Spring Term</b>	
Career Studies	9	Career Studies	9
General Education <sup>(1)</sup>	3	General Education	3
Elective	<u>3</u>	Elective	<u>3-4</u>
	15		15-16

<sup>(1)</sup> One course is recommended from the Cultural & Global Awareness knowledge area.

## Early Childhood Education Academic Credit Certificate

The Early Childhood Education Academic Credit Certificate is designed for students who want to take more work in early childhood education than is required for the group teacher endorsement but who do not wish to complete the additional work required for an A.A.S. (two-year) degree.

### Degree Audit

Your progress toward your degree is available through WebAdvisor. Refer to page 23 for details.

#### Graduates of this program will be able to:

- ▶ Demonstrate understanding and applications of early childhood teaching, learning and assessment processes through developmentally appropriate delivery methods in:
  - Language arts
  - Mathematics and sciences
  - Creative arts
  - Music
  - Social studies, career explorations and civics
  - Health, safety and nutrition
- ▶ Ensure a well run classroom environment responsive to participant needs
- ▶ Demonstrate an understanding of the essential components of teaching and learning processes

#### Requirements

##### General Education - 6 credits:

Code	Course	Credits
Required:		
ENGL 121	English Composition Writing Process	3
Recommended:		
SOCI 105	Intercultural Communication	3

##### Career Studies – 28-30 credits as follows:

EDEC 105	Foundations of Early Childhood Education	3
EDUA 106	Language Arts in Early Childhood Programs	3
EDUA 131	Social Studies in Early Childhood Programs	3
EDUA 135	Music in Early Childhood Education	3
EDUA 145	Nutrition, Health and Safety in Early Childhood Programs	3
EDUA 205	Creative Arts in Early Childhood Programs	3
EDUA 206	Math and Science in Early Childhood Programs	3
EDUA 299	Early Childhood-Assistant Internship	1-3
EDUC 216	Classroom Techniques	3
ENGL 265*	Children's Literature: An Introduction	3
Total Credits		34-36

\*Offered Fall term only

# Education Program A.A. Degree

## Early Childhood Education Option

This option prepares students for transfer to four-year institutions to pursue preschool through third grade P-3 teaching certification. In addition, many courses prove relevant to the needs of parents and professionals from other fields. Students in this option take courses in education with required field experiences, coupled with general education studies required for successful transfer. Students are introduced to: the variety of early childhood education programs and constructs, inclusion education, teaching the exceptional child, emergent literacies, diversity in early childhood education, play based instruction, and professional opportunities in early childhood education. Students explore early childhood professional opportunities in business and industry. The courses offered in this option need to be taken in consultation with a College counselor.

Graduates of this program will be able to:

- ▶ Recognize, analyze and evaluate the roles and characteristics of the successful classroom teacher including:
  - skill in classroom management
  - sensitivity to diversity and special needs of young children
  - use of appropriate teaching and learning strategies in play-based and academic-based settings
  - promotion of integrated literacy
  - mastery of subject matter
  - knowledge of child growth and development as applied to a variety of theoretical and philosophical perspectives
  - appreciation of ongoing professional development
- ▶ Demonstrate an understanding of the essential components of teaching and learning processes as they are articulated in diverse early childhood educational settings
- ▶ Think critically to analyze and evaluate cultural, societal and historical influences that affect early childhood education today.

**For-additional information on transfer visit the Transfer Resources website at <http://transfer.brookdalecc.edu>**

### Requirements

General Education – 45 credits as described on page 50.

The following general education courses are recommended for students choosing this program.

Code	Course	Credits
ENGL 122	English Composition: Writing and Research	3
Humanities	Any Language course	3-6
Mathematics		3-4
Science (with lab)		4

### Career Studies – 3 credits as follows:

EDEC 105	Foundations of Early Childhood Education	3
*EDEC 199	Field Experience	0

### Career Studies – 3 credits from among the following:

EDUC 216	Classroom Techniques	3
EDUC 217	Introduction to the Exceptional Child	3
EDUC 225	Literacy Development and Instruction	3

### Degree Audit

Your progress toward your degree is available through WebAdvisor. Refer to page 23 for details.

Career Studies – 6 credits from among the following:

HGEO 105	Human Geography	3
PHIL	Philosophy Course	3
PSYC 218	Educational Psychology	3
SOCI 105	Intercultural Communication: The Person and the Process	3

Electives **3**

*\*EDEC 199 - Students who have completed EDEC 105 Foundations of Early Childhood Education, with a grade of B or better are required to complete 60 hours of observation in an approved academic setting to ensure transferability of EDEC 105 to a four-year institution.*

NOTE: It is strongly recommended that no more than six Education credits be taken in the first two years for transfer.

### BACHELOR'S THROUGH BROOKDALE

This is a preferred Associate degree for students planning to pursue a Bachelor's degree in Early Childhood Education at Brookdale's New Jersey Coastal Community University. For program details and transfer information, students should talk to their Student Development Specialist or call the Community at 732-280-2090.

### Credits required for degree: 60

#### Suggested Sequence – Education Program A.A. Early Childhood Education Option

The following sequence is an example of how this degree can be completed in two years. This sequence is based on satisfaction of all Basic Skills requirements and prerequisites and presumes a Fall Term start date. An individual's program may vary depending on transfer institution, career objectives, or individual needs. See your counselor for other options and to monitor your progress.

Course Code	Credits	Course Code	Credits
<b>SEMESTER 1 – Fall Term</b>		<b>SEMESTER 2 – Spring Term</b>	
EDEC 105	3	EDEC 199	0
ENGL 121	3	Career Studies	3
PSYC 105	3	ENGL 122	3
Humanities	3	PSYC 206	3
Mathematics <sup>(2)</sup>	3-4	Humanities	3
	15-16	Mathematics or Science <sup>(2)</sup>	3-4
			15-16
<b>SEMESTER 3 – Fall Term</b>		<b>SEMESTER 4 – Spring Term</b>	
Career Studies	3	Cultural and Global Awareness <sup>(1)</sup>	3
Mathematics/Science/Technological Competency or Information Literacy <sup>(2)</sup>	3-4	Humanities	3
SPCH 115	3	History	3
Science (with lab) <sup>(2)</sup>	4	Career Studies	3
History	3	Electives	3
	16-17		15

<sup>(1)</sup> One course is required from the Cultural and Global Awareness knowledge area. Students may meet the requirements while simultaneously fulfilling the General Education requirement for another knowledge area.

<sup>(2)</sup> A minimum of 12 credits are required from the Mathematics, Sciences or Technological Competency or Information Literacy knowledge areas.

# Education Program

## A.A. Degree

### Elementary, Middle School and Secondary Education Option

This option prepares students for transfer to four-year institutions to pursue Elementary, Middle School or Secondary Education teaching certifications. In addition, many courses prove relevant to the needs of parents and professionals from other fields. Students in this option take courses in education theory and practice and field observations coupled with the general studies required for successful transfer. Students are introduced to: foundations of education, organization and structure of schools systems, teaching the exceptional child, inclusion education, literacies: emergent and content areas, effective teaching techniques, and technology integration in teaching and learning. Students explore professional opportunities in business and industry. The courses offered in this option need to be taken in consultation with a College counselor.

Graduates of this program will be able to:

- ▶ Recognize, analyze and evaluate the roles and characteristics of the successful classroom teacher including:
  - skill in classroom management
  - sensitivity to diversity and special needs of students
  - use of appropriate learning strategies
  - promotion of literacy across the curriculum
  - mastery of subject matter
  - knowledge of child growth and development
  - appreciation of the importance of ongoing professional development
- ▶ Demonstrate an understanding of the essential components of teaching and learning processes in academic settings as they are articulated by current trends and practices in diverse educational settings
- ▶ Think critically to analyze and evaluate societal, cultural and historical influences that affect education

**For-additional information on transfer visit the Transfer Resources website at**  
<http://transfer.brookdalecc.edu>

#### Requirements

General Education – 45 credits as described on page 50.

The following general education courses are recommended for students choosing this program.

Code	Course	Credits
ENGL 122	English Composition: Writing and Research	3
Humanities	Any Language course	3-6
Mathematics		3-4
Science (with lab)		4

Career Studies – 3 credits as follows:

EDUC 105	Introduction to Education	3
*EDUC 199	Field Experience	0

Career Studies – 3 credits from among the following:

EDUC 216	Classroom Techniques	3
EDUC 217	Introduction to the Exceptional Child	3
EDUC 225	Literacy Development and Instruction	3

Career Studies – 6 credits from among the following:

HGEO 105	Human Geography	3
PHIL	Philosophy Course	3
PSYC 218	Educational Psychology	3
SOCI 105	Intercultural Communication: The Person and the Process	3

Elective 3

\*EDUC 199 - Students who have completed EDUC 105 Introduction to Education, with a grade of B or better are required to complete 60 hours of observation in an approved academic setting to ensure transferability of EDUC 105 to a 4-year institution.

**NOTE: It is strongly recommended that no more than six Education credits be taken in the first two years for transfer.**

#### Degree Audit

Your progress toward your degree is available through WebAdvisor. Refer to page 23 for details.

#### BACHELOR'S THROUGH BROOKDALE

This is a preferred Associate degree for students planning to pursue a Bachelor's degree in Elementary Education at Brookdale's New Jersey Coastal Community University. For program details and transfer information, students should talk to their Student Development Specialist or call the Community University at 732-280-2090.

#### Credits required for degree: 60

#### Suggested Sequence – Education Program A.A. Degree Elementary, Middle School and Secondary Education Option

The following sequence is an example of how this degree can be completed in two years. This sequence is based on satisfaction of all Basic Skills requirements and prerequisites and presumes a Fall Term start date. An individual's program may vary depending on transfer institution, career objectives, or individual needs. See your counselor for other options and to monitor your progress.

Course Code	Credits	Course Code	Credits
<b>SEMESTER 1 – Fall Term</b>		<b>SEMESTER 2 – Spring Term</b>	
EDUC 105	3	EDUC 199	0
ENGL 121	3	Career Studies	3
PSYC 105	3	ENGL 122	3
Humanities	3	PSYC 206	3
Mathematics <sup>(2)</sup>	3-4	Humanities	3
	15-16	Mathematics or Science <sup>(2)</sup>	3-4
			15-16
<b>SEMESTER 3 – Fall Term</b>		<b>SEMESTER 4 – Spring Term</b>	
Career Studies	3	Cultural and Global Awareness <sup>(1)</sup>	3
Mathematics/Science/Technological Competency or Information Literacy <sup>(2)</sup>	0-4	Humanities	3
SPCH 115	3	History	3
Science (with Lab) <sup>(2)</sup>	4	Career Studies	3
History	3	Elective	3
	15-17		15

<sup>(1)</sup> One course is required from the Cultural and Global Awareness knowledge area. Students may meet the requirements while simultaneously fulfilling the General Education requirement for another knowledge area.

<sup>(2)</sup> A minimum of 12 credits are required from the Mathematics, Sciences or Technological Competency or Information Literacy knowledge areas.

# Electric Utility Technology Program A.A.S Degree

## Overhead Lines

The Associate in Applied Science degree program in Electric Utility Technology is offered in partnership with FirstEnergy Corp. This program prepares students for employment opportunities in the electric utility technology industry with a specific focus on line worker training. The coursework in this program is designed to provide students the opportunity to develop both the academic skills and technical skills needed for employment in this field. Students must satisfy specific requirements in order to be admitted to this program. See page 17 of the catalog.

Graduates of this program will be able to:

- ▶ Measure and verify calculated values for standard analog laboratory instruments such as the oscilloscope, VOM, DVM, audio generator and frequency counter
- ▶ Analyze and measure circuit currents, resistance and voltages using Kirchhoff's laws, Mesh Analysis, Nodal Analysis, Thevenin's Theorem, and Norton's Theorem
- ▶ Calculate impedance, currents, voltages, and phase angles for AC circuits
- ▶ Perform work on secondary voltage circuits
- ▶ Apply proper cable pulling/bus work techniques
- ▶ Safely install, operate and maintain standard utility industry transmission and distribution equipment, as well as safely climb transmission support towers and H-Structures

### Requirements

General Education – 22 credits as described on page 50.

The following general education courses are required for students choosing this program.

Code	Course	Credits
ENGL 121	English Composition: Writing Process	3
ENGL 122	English Composition Writing and Research	3
SPCH 130*	Interpersonal Communications	3
HIST 105	World Civilization I	3
COMP 129	Information Technology	3
ECON 107	Economics	3
MATH 145	Algebraic Modeling	4

### Career Studies – 21 credits

ELEC 101	Computer Aided Circuit Analysis	3
ELEC 103	Electrical Skills and Techniques	4
ELEC 131	Electrical Circuits for Power Distribution I	4
ELEC 132	Electrical Circuits for Power Distribution II	4
ELEC 201	Electrical Transmission and Distribution	3
ELEC 202	Switchgears, Transformers and Controls	3

*\*This course satisfies a General Education requirement for this specific program. This is not a General Education course.*

### Technical Studies – 18 credits

UTIL 101	Overhead Lines Technology I	4
UTIL 102	Overhead Lines Technology II	4
UTIL 201	Overhead Lines Technology III	4
UTIL 202	Overhead Lines Technology IV	4
UTIL 299	Internship in Electric Utility	2

### Degree Audit

Your progress toward your degree is available through WebAdvisor. Refer to page 23 for details.

### Credits required for degree: 61

#### Suggested Sequence – Electric Utility Technology Program A.A.S.

The following sequence is an example of how this degree can be completed in two years. This sequence is based on satisfaction of all Basic Skills requirements and prerequisites and presumes a Fall Term start date. Students must satisfy specific requirements in order to be admitted to this program. See page 17 of the catalog.

Course Code	Credits	Course Code	Credits
<b>SEMESTER 1 – Fall Term</b>		<b>SEMESTER 2 – Spring Term</b>	
ENGL 121	3	MATH 145	4
ELEC 101	3	ELEC 131	4
COMP 129	3	ENGL 122	3
ELEC 103	4	UTIL 102	4
UTIL 101	4		
	17		15
<b>SUMMER SEMESTER</b>			
UTIL 299	2		
<b>SEMESTER 3 – Fall Term</b>		<b>SEMESTER 4 – Spring Term</b>	
HIST 105	3	ECON 107	3
ELEC 132	4	SPCH 130	3
ELEC 201	3	ELEC 202	3
UTIL 201	4	UTIL 202	4
	14		13

# Electric Utility Technology Program A.A.S Degree

## Substation Option

The Associate in Applied Science degree program in Electric Utility Technology is offered in partnership with FirstEnergy Corp. This program prepares students for employment opportunities in the electric utility industry with a specific focus on electrical substation and switchyards. The coursework in this program is designed to provide students the opportunity to develop both the academic skills and technical skills needed for employment in this field. Students must satisfy specific requirements in order to be admitted to this program. See page 17 of the catalog.

Graduates of this program will be able to:

- ▶ Measure and verify calculated values for standard analog laboratory instruments such as the oscilloscope, VOM, DVM, audio generator and frequency counter
- ▶ Analyze and measure circuit currents, resistance and voltages using Kirchhoff's laws, Mesh Analysis, Nodal Analysis, Thevenin's Theorem and Norton's Theorem
- ▶ Calculate impedance, currents, voltages, and phase angles for AC circuits
- ▶ Perform high-level maintenance in electrical substation and switchyards
- ▶ Apply proper cable/pulling bus work techniques
- ▶ Safety install and use batteries, fuses, transformers, regulators/reclosers, circuit breakers and capacitors

### Requirements

General Education – 22 credits as described on page 50.

The following general education courses are required for students choosing this program.

Code	Course	Credits
ENGL 121	English Composition: Writing Process	3
ENGL 122	English Composition Writing and Research	3
SPCH 130*	Interpersonal Communications	3
HIST 105	World Civilization I	3
COMP 129	Information Technology	3
ECON 107	Economics	3
MATH 145	Algebraic Modeling	4

### Career Studies – 21 credits

ELEC 101	Computer Aided Circuit Analysis	3
ELEC 103	Electrical Skills and Techniques	4
ELEC 131	Electrical Circuits for Power Distribution I	4
ELEC 132	Electrical Circuits for Power Distribution II	4
ELEC 201	Electrical Transmission and Distribution	3
ELEC 202	Switchgears, Transformers and Controls	3

\*This course satisfies a General Education requirement for this specific program. This is not a Brookdale General Education course.

### Technical Studies – 18 credits

UTIL 111	Substation Technology I	4
UTIL 112	Substation Technology II	4
UTIL 211	Substation Technology III	4
UTIL 212	Substation Technology IV	4
UTIL 299	Internship in Electric Utility	2

### Degree Audit

Your progress toward your degree is available through WebAdvisor. Refer to page 23 for details.

### Credits required for degree: 61

#### Suggested Sequence – Electric Utility Technology Program A.A.S. Substation Option

The following sequence is an example of how this degree can be completed in two years. This sequence is based on satisfaction of all Basic Skills requirements and prerequisites and presumes a Fall Term start date. Students must satisfy specific requirements in order to be admitted to this program. See page 17 of the catalog.

Course Code	Credits	Course Code	Credits
<b>SEMESTER 1 – Fall Term</b>		<b>SEMESTER 2 – Spring Term</b>	
ENGL 121	3	MATH 145	4
ELEC 101	3	ELEC 131	4
COMP 129	3	ENGL 122	3
ELEC 103	4	UTIL 112	4
UTIL 111	4		
	17		15
<b>SUMMER SEMESTER</b>			
UTIL 299	2		
<b>SEMESTER 3 – Fall Term</b>		<b>SEMESTER 4 – Spring Term</b>	
HIST 105	3	ECON 107	3
ELEC 132	4	SPCH 130	3
ELEC 201	3	ELEC 202	3
UTIL 211	4	UTIL 212	4
	14		13

# Electronics Technology Program A.A.S. Degree

## Electronics Engineering Technology Option

This option is designed for transfer to colleges or universities offering a Bachelor of Science in Technology or a Bachelor of Science in Engineering Technology degree, or for immediate employment in the electronics industry. Students should work with the transfer institution, their counselors, and the Electronics Technology faculty to insure correct course choices.

Graduates of this program will be able to:

- ▶ Perform engineering analysis and problem solving
- ▶ Develop an engineering design to meet given specifications
- ▶ Work effectively in diverse teams and provide leadership to teams and organizations
- ▶ Communicate effectively in oral, graphic, and written form

### Requirements

General Education – 20 credits as described on page 50.

The following general education courses are recommended for students choosing this program.

Code	Course	Credits
ENGL 121	English Composition: The Writing Process	3
ENGL 122	English Composition: Writing and Research	3
HIST 105	World Civilization I	3
MATH 151	Intermediate Algebra	4
MATH 152	College Algebra and Trigonometry	4
PHIL 105	Practical Reasoning	3

### Career Studies – 41 credits as follows:

COMP 135	Computer Architecture Using Assembly Language	3
COMP 137	Programming for Engineers	3
ECON 107	Economics	3
ELEC 101	Computer Aided Circuit Analysis	3
ELEC 103	Electrical Skills and Techniques	4
ELEC 111	Electrical Circuits I	4
ELEC 112*	Electrical Circuits II	4
ELEC 225**	Fundamentals of Analog Electronic Devices	4
ELEC 241*	Introduction to Digital Circuits	4
ELEC 298	Electronics Capstone Seminar	1

MATH 153	Pre-Calculus Mathematics	4
MATH 171	Calculus I	4

Note: Students Transferring to NJIT should take PHYS 111 and PHYS 112.

\*Offered Fall term only  
\*\*Offered Spring term only

### Degree Audit

Your progress toward your degree is available through WebAdvisor. Refer to page 23 for details.

### Credits required for degree: 61

#### Suggested Sequence – Electronics Technology Program A.A.S. Degree Electronics Engineering Technology Option

The following sequence is an example of how this degree can be completed in two years. This sequence is based on satisfaction of all Basic Skills requirements and \*prerequisites and presumes a Fall Term start date. An individual's program may vary depending on transfer institution, career objectives, or individual needs. See your counselor for other options and to monitor your progress. This program is part of a joint admissions agreement program with N.J.I.T. Students completing this program may work toward a Baccalaureate degree or may continue in the Baccalaureate Degree Program at N.J.I.T.

Course Code	Credits	Course Code	Credits
<b>SEMESTER 1 – Fall Term</b>		<b>SEMESTER 2 – Spring Term</b>	
ELEC 101	3	ELEC 111	4
ELEC 103	4	MATH 152	4
HIST 105	3	ENGL 122	3
ENGL 121	3	ECON 107	3
MATH 151	4		14
	17		
<b>SEMESTER 3 – Fall Term</b>		<b>SEMESTER 4 – Spring Term</b>	
ELEC 112*	4	COMP 135	3
PHIL 105	3	COMP 137	3
ELEC 241*	4	MATH 171	4
MATH 153	4	ELEC 225	4
	15	ELEC 298	1
			15

\*Offered Fall term only

# Electronics Technology Program A.A.S. Degree

## Electronic/Computer Technician Option

Computers and electronics have found their way into businesses and homes throughout the world. This option provides the student with the skills required to troubleshoot and repair a wide variety of computer systems and digital electronic equipment. The student learns how peripherals and computers communicate with each other. The proliferation of computer systems has created a demand for highly qualified individuals to install and maintain computer systems, peripherals, and networks.

Graduates of this program will be able to:

- ▶ Build, test, operate and maintain electrical systems
- ▶ Apply circuit analysis, problem solving and design, computer programming, analog and digital electronics, and microcomputers to the building, testing, operation, and maintenance of electrical/electronic(s) systems
- ▶ Apply scientific concepts to electrical/electronic(s) circuits in a rigorous mathematical environment at or above the level of algebra and trigonometry
- ▶ Work effectively in diverse teams and provide leadership to teams and organizations
- ▶ Communicate effectively in oral, graphic, and written form

### Degree Audit

Your progress toward your degree is available through WebAdvisor. Refer to page 23 for details.

### Requirements

General Education – 20 credits as described on page 50.

The following general education courses are recommended for students choosing this program.

Code	Course	Credits
ENGL 121	English Composition: The Writing Process	3
ENGL 122	English Composition: Writing and Research	3
HIST 105	World Civilization I	3
ECON 107	Economics	3
MATH 151	Intermediate Algebra	4
PHYS 108	Physics in Life	4

### Career Studies – 45 credits as follows:

ELEC 101	Computer Aided Circuit Analysis	3
ELEC 103	Electrical Skills and Techniques	4
ELEC 111	Electrical Circuits I	4
ELEC 112*	Electrical Circuits II	4
ELEC 225**	Fundamentals of Analog Electronic Devices	4
ELEC 241*	Introduction to Digital Circuits	4
ELEC 243	Mini/Microcomputer Interfacing	4
ELEC 298	Electronics Capstone Seminar	1
MATH 152	College Algebra & Trigonometry	4
MATH 153	Pre-Calculus Mathematics	4
COMP 135	Computer Architecture Using Assembly Language	3
COMP 137	Programming for Engineers	3
NETW 106	Introduction to Networking TCP/IP	3

\*Offered Fall term only

\*\*Offered Spring term only

## A+ Computer Repair Technician Academic Credit Certificate

At the conclusion, students can sit for A+ certification.

Graduates of this certificate program will be able to:

- ▶ Demonstrate knowledge of classifications, categories and principles of motherboards, processors, power supplies, expansion slots and memory in desktop computer systems
- ▶ Demonstrate knowledge and skills to identify, install, configure, and upgrade desktop computer modules and peripherals, as well as knowledge of basic types of printers, printer concepts and printer components
- ▶ Demonstrate knowledge of basic network concepts, terminology and security
- ▶ Demonstrate knowledge of operating systems including installation, upgrading, configuration, optimization, security and preventive maintenance
- ▶ Demonstrate the ability to diagnose and troubleshoot common problems and system malfunction as well as perform preventive maintenance.

### Requirements

General Education – 6 credits required:

Required:		
ENGL 121	English Composition: The Writing Process	3
Recommended:		
SPCH 115	Public Speaking	3

### Career Studies — 25 credits as follows:

ELEC 101	Computer Aided Circuit Analysis	3
ELEC 103	Electrical Skills and Techniques	4
ELEC 241*	Introduction to Digital Circuits	4
ELEC 243	Mini/Microcomputer Interfacing	4
ELEC 244	Computer Peripherals, Data Communications and Networking	4
COMP 129	Information Technology	3
COMP 137	Programming for Engineers	3
<b>Total Credits</b>		<b>31</b>

### Credits required for degree: 65

#### Suggested Sequence – Electronics Technology Program A.A.S.; Electronic/Computer Technician Option

The following sequence is an example of how this degree can be completed in two years. This sequence is based on satisfaction of all Basic Skills requirements and prerequisites and presumes a Fall Term start date. An individual's program may vary depending on transfer institution, career objectives, or individual needs. See your counselor for other options and to monitor your progress.

Course Code	Credits	Course Code	Credits
<b>SEMESTER 1 – Fall Term</b>		<b>SEMESTER 2 – Spring Term</b>	
ELEC 101	3	ELEC 111	4
ELEC 103	4	MATH 152	4
HIST 105	3	PHYS 108	4
MATH 151	4	ECON 107	3
ENGL 121	3	ENGL 122	3
	17		18
<b>SEMESTER 3 – Fall Term</b>		<b>SEMESTER 4 – Spring Term</b>	
ELEC 112*	4	COMP 135	3
NETW 106	3	COMP 137	3
ELEC 241*	4	ELEC 243	4
MATH 153	4	ELEC 225	4
	15	ELEC 298	1
			15

\*Offered Fall term only

# Engineering Program A.S. Degree

Engineering is a profession that integrates science and mathematics with design and laboratory study. It is and will continue to be the profession upon which the United States depends for its growth and ability to compete in world markets.

“Engineering offers more career options than any other discipline. It’s a profession that can take you from the depths of the ocean to the far reaches of outer space, from within the microscopic structures of the human cell to the top of the tallest skyscrapers. Whether it’s cell phones, digital cameras, DVDs, or facial recognition devices that can pick out a terrorist in a crowded football stadium, engineers are behind almost all of today’s exciting technology. Engineers are problem solvers who search for quicker, better, and less expensive ways to use the forces and materials of nature to meet today’s challenges.”<sup>1</sup>

At Brookdale Community College, the Engineering program parallels the first two years of the four-year engineering curriculum of most engineering schools throughout the country. The program leads to an Associate in Science degree in Engineering and transfers to most engineering schools. Brookdale has a Joint Admission Agreement with N.J.I.T. and an Articulation Agreement with Rutgers University. Students should consult a counselor.

There are five major areas of study:

- Chemical Engineering
- Civil Engineering
- Electrical Engineering
- Industrial Engineering
- Mechanical Engineering

### Graduates of this program will be able to:

- ▶ Perform engineering analysis and problem solving
- ▶ Develop an engineering design to meet given specifications
- ▶ Describe the social and cultural context of the engineering and technology fields
- ▶ Work well in diverse teams and organizations
- ▶ Communicate effectively in oral, graphic and written form

### Degree Audit

Your progress toward your degree is available through WebAdvisor. Refer to page 23 for details.

### Requirements

General Education – 30 credits as described on page 50. The following general education courses are recommended for the program:

Code	Course	Credits
ENGL 121	English Composition: The Writing Process	3
ENGL 122	English Composition: Writing and Research	3
ECON 107	Economics	3
MATH 171	Calculus I	4
CHEM 101	General Chemistry I	5
HIST 105	World Civilization I	3
PHYS 121	General Physics I	4
	Humanities	3
	Humanities or Social Sciences	3

### Career Studies – 39 credits as follows:

CADD 121	Engineering Graphics with CAD	4
CHEM 102	General Chemistry II	5
COMP 137	Programming for Engineers	3
ENGI 101*	Engineering Mechanics I	3
ENGI 102**	Engineering Mechanics II	3
ENGI 105 <sup>(1)</sup>	Introduction to Engineering	1
MATH 172	Calculus II	4
MATH 273	Calculus III	4
MATH 274	Elementary Differential Equations	4
PHYS 122	General Physics II	4
PHYS 223	General Physics III	4

### Technical Electives – 6–14 credits (choose one set of courses)

#### CHEMICAL ENGINEERING

CHEM 203	Organic Chemistry I	5
CHEM 204	Organic Chemistry II	5

#### CIVIL ENGINEERING

ENGI 205**	Strength of Materials	3
ENGI 206***	Material Properties and Processes	3
ENGI 261***	Surveying I	4

#### ELECTRICAL ENGINEERING

ENGI 241*	Properties of EE I (Circuits)	4
ENGI 242**	Properties of EE II (Electronics)	4
ENGI 251*	Digital I	3
ENGI 252**	Properties of EE III (Circuits)	3

#### MECHANICAL ENGINEERING

ENGI 205**	Strength of Materials	3
ENGI 206***	Material Properties and Processes	3
ENGI 216***	Kinematics and Dynamics of Machinery	3

#### INDUSTRIAL ENGINEERING

ENGI 205**	Strength of Materials	3
ENGI 206***	Material Properties and Processes	3

\*Offered Fall term only

\*\*Offered Spring term only

\*\*\*Offered Summer II term

<sup>(1)</sup> Students are required to take ENGI 105 in the first term and declare a major area of study toward the end of this course. Students should work with a counselor to satisfy requirements for major career areas.

## Credits required for degree: 75-83

### Suggested Sequence – Engineering Program A.S. Degree

The following sequence is an example of how this degree can be completed in two years. This sequence is based on satisfaction of all Basic Skills requirements and prerequisites\*\* and presumes a Fall Term start date. An individual’s program may vary depending on transfer institution, career objectives, or individual needs. See your counselor for other options and to monitor your progress. This program is part of a joint admissions agreement program with N.J.I.T. Students completing this program may work toward a Baccalaureate degree or may continue in the Baccalaureate Degree Program at N.J.I.T.

#### The following prerequisites must be taken prior to admission:

Course Code	Credits	Course Code	Credits
<b>SEMESTER 1 – Fall Term</b>		<b>SEMESTER 2 – Spring Term</b>	
ENGI 105	1	CADD 121	4
CHEM 101	5	CHEM 102	5
ENGL 121	3	ENGL 122	3
MATH 171	4	MATH 172	4
Humanities	3	PHYS 122	4
PHYS 121	4		20
	<b>20</b>		
<b>SUMMER II SEMESTER</b>			
Technical Elective	0-4		
<b>SEMESTER 3 – Fall Term</b>		<b>SEMESTER 4 – Spring Term</b>	
COMP 137	3	ENGI 102	3
ENGI 101	3	ECON 107	3
MATH 273	4	MATH 274	4
HIST 105	3	PHYS 223	4
Technical Elective	3-5	Social Sciences or Humanities	3
Technical Elective	0-4	Technical Elective	3-5
	16-22	Technical Elective	0-4
			20-26

MATH 151, MATH 152 and/or MATH 153 may be required if MATH requirements are not met.

For additional information on transfer visit the Transfer Resources website at <http://transfer.brookdalecc.edu>

<sup>1</sup>ASEE website [http://www.engineeringk12.org/students/What\\_Is\\_Engineering/default.php](http://www.engineeringk12.org/students/What_Is_Engineering/default.php)

# English Option

## Humanities Program A.A. Degree

This option is designed for transfer to a four-year college with a major in writing and/or literature. Students in this option take writing and courses concerned with specific areas of literature, coupled with liberal arts studies. Four-year English graduates enter widely diverse professions, among which may be teaching, copywriting, editing and publishing.

**Graduates of this program will be able to:**

- ▶ Identify and understand the characteristics of literary forms and genres
- ▶ Utilize a college vocabulary to identify and interpret stylistic and technical features of literary texts
- ▶ Think and write critically about various types of literary texts and support an analysis with specific textual evidence
- ▶ Think and write critically about literary texts within a cultural or historical framework

**Requirements**

General Education – 45 credits as described on page 50.

Career Studies – 12 credits from among the following:

Code	Course	Credits
ENGL 127	Business Writing	3
ENGL 128	Writing from the Female Experience	3
ENGL 150	African-American Literature	3
ENGL 155	The Short Story	3
ENGL 156	Introduction to Poetry	3
ENGL 158	Introduction to Literature	3
ENGL 168	Contemporary Plays	3
ENGL 175	Woman as Author	3
ENGL 221	Creative Writing	3
ENGL 225	Technical Writing	3
ENGL 231	British Literature I	3
ENGL 232	British Literature II	3
ENGL 235	World Literature I	3
ENGL 236	World Literature II	3
ENGL 245	American Literature I	3
ENGL 246	American Literature II	3
ENGL 265**	Children's Literature: An Introduction	3
ENGL 266	Young Adult Literature: Books and the Adolescent	3
ENGL 275	Shakespeare's Plays	3
ENGL 295	Special Project – English	1-6
<b>Elective</b>		<b>3</b>

This degree program may also be completed online. Students may choose to take some or all of their courses online. For more information call 732-224-2089.

*\*Offered Spring term only*  
*\*\*Offered Fall term only*

**Degree Audit**  
Your progress toward your degree is available through WebAdvisor. Refer to page 23 for details.

**BACHELOR'S THROUGH BROOKDALE**

This is a preferred Associate degree for students planning to pursue a Bachelor's degree in English at Brookdale's New Jersey Coastal Community. For program details and transfer information, students should talk to their Student Development Specialist or call the Community at 732-280-2090.

For additional information on transfer visit the Transfer Resources website at <http://transfer.brookdalecc.edu>

**Credits required for degree: 60**

**Suggested Sequence – Humanities Program A.A. Degree English Option**

The following sequence is an example of how this degree can be completed in two years. This sequence is based on completion of all Basic Skills requirements and prerequisites and presumes a Fall Term start date. An individual's program may vary depending on transfer institution, career objectives, or individual needs. See your counselor for other options and to monitor your progress.

Course Code	Credits	Course Code	Credits
<b>SEMESTER 1 – Fall Term</b>		<b>SEMESTER 2 – Spring Term</b>	
Career Studies	3	Career Studies	3
Mathematics/Science/Technological Competency or Information Literacy <sup>(1)</sup>	3-4	ENGL 122	3
ENGL 121	3	Mathematics or Science <sup>(1)</sup>	3-4
Humanities	3	History	3
Mathematics <sup>(1)</sup>	3	Social Sciences	3
	15-17		15-16
<b>SEMESTER 3 – Fall Term</b>		<b>SEMESTER 4 – Spring Term</b>	
Career Studies	3	Career Studies	3
SPCH 115	3	Humanities	3
Humanities	3	Cultural & Global Awareness <sup>(2)</sup>	3
Science (with lab) <sup>(1)</sup>	4	Social Sciences	3
History	3	Elective	3
	16		15

<sup>(1)</sup> A minimum of 12 credits are required from the Mathematics, Sciences or Technological Competency or Information Literacy knowledge areas.  
<sup>(2)</sup> One course is required from the Cultural & Global Awareness knowledge area. Students may meet the requirement while simultaneously fulfilling the General Education requirement for another knowledge area.

# Environmental and Earth Sciences Option

## Mathematics/ Science Program A.S. Degree

This option is designed for students who are transferring to a four-year college majoring in environmental sciences, ecology, natural resource studies, marine sciences or geology. Bachelor's degree graduates may become researchers, environmental scientists, marine biologists or natural resource managers. To maximize transfer credits, students must be guided by the transfer institution's requirements and work closely with their counselor in order to select courses wisely.

Graduates of this program will be able to:

- ▶ Utilize biological, earth, and physical science knowledge to comprehend environmental issues on a local, regional, and global scale
- ▶ Investigate the role that humans play in influencing the natural world
- ▶ Analyze the social and economic aspects of current environmental issues
- ▶ Employ the scientific method of inquiry to develop critical thinking skills and qualitative and quantitative analytical proficiency

### Requirements

General Education – 30 credits as described on page 50.

The following general education courses are recommended:

Code	Course	Credits
BIOL 101*	General Biology	4
COMP 129	Information Technology	3
MATH 151	Intermediate Algebra	4
or		
MATH 152	College Algebra & Trigonometry	4

\*Since this course is a prerequisite for career studies courses BIOL 102 and BIOL 208, it is recommended as the Science (SC) general education course.

### Career Studies – 19 credits as follows:

BIOL 102	General Biology II	4
BIOL 208*	Ecology and Field Biology	4
ENVR 107	Environmental Science	4
MATH 131	Statistics	4
POLI 228	Environmental Politics and Policy	3

### Career Studies – 11-15 credits from among the following

BIOL 205*	Invertebrate Zoology	4
BIOL 206**	Vertebrate Zoology	4
BIOL 207***	Marine Biology	4
CHEM 101	General Chemistry I	5
CHEM 102	General Chemistry II	5
CHEM 117***	Introduction to Marine Chemistry	4

ENVR 101	Physical Geology	4
ENVR 102**	Historical Geology	4
ENVR 106**	Environmental Geology	3)
ENVR 111	Oceanography	4
ENVR 121	Physical Geography	3
ENVR 126	Introduction to Geographical Information Systems	3
ENVR 127	Meteorology	4
ENVR 205***	Introduction to Coastal Geology	4
ENVR 212**	Coastal Zone Management	4
MATH 153	Precalculus	4
MATH 171	Calculus I	4
MATH 172	Calculus II	4
PHYS 111	General Physics I (non-calculus)	4
PHYS 112	General Physics II (non-calculus)	4
PHYS 121	General Physics I	4
PHYS 122	General Physics II	4

\*Offered Fall term only

\*\*Offered Spring term only

\*\*\*Offered Summer only

### Degree Audit

Your progress toward your degree is available through WebAdvisor. Refer to page 23 for details.

### Credits required for degree: 60-64

#### Suggested Sequence – Mathematics/Science Program A.S. Degree Environmental and Earth Sciences Option

The following sequence is an example of how this degree can be completed in two years. This sequence is based on satisfaction of all Basic Skills requirements and prerequisites and presumes a Fall Term start date. An individual's program may vary depending on transfer institution, career objectives, or individual needs. See your counselor for other options and to monitor your progress.

Course Code	Credits	Course Code	Credits
<b>SEMESTER 1 – Fall Term</b>		<b>SEMESTER 2 – Spring Term</b>	
ENVR 107	4	BIOL 102	4
BIOL 101	4	MATH 131	4
ENGL 121	3	Career Studies	3-4
COMP 129	3	Social Sciences	3
Humanities	3		14-15
	17		
<b>SEMESTER 3 – Fall Term</b>		<b>SEMESTER 4 – Spring Term</b>	
BIOL 208*	4	POLI 228	3
ENGL 122	3	General Education <sup>(1)</sup>	4
MATH 151 or MATH 152	4	Career Studies	5-7
Career Studies	3-4		12-14
Social Sciences or Humanities	3		
	17-18		

\*Offered Fall term only.

<sup>(1)</sup> One course is recommended from the Cultural and Global Awareness knowledge area.

For-additional information on transfer visit the Transfer Resources website at <http://transfer.brookdalecc.edu>

# Ethnic Studies Option

## Social Sciences Program A.A. Degree

This option combines aspects of pre-existing disciplines in the social sciences and humanities (sociology, history, English) in order to prepare students to transfer to a four-year college in any diversity or ethnic studies-based program. The coursework provides students with the opportunity to explore various issues in the study of ethnic diversity. The option is designed to provide an understanding of the numerous relationships between various ethnic groups throughout the world. Students will be exposed to structures that exist within societies that shape people's experiences regarding race, culture, and ethnicity. The students within this program will explore various peoples' values and ideologies through the study of philosophy, literature, history and social scientific research.

Graduates of this program will be able to:

- ▶ Communicate skills and content effectively in written and verbal form
- ▶ Discuss diverse historical, social scientific, literary, cultural and social perspectives regarding race and ethnicity in a global setting
- ▶ Analyze the conditions of different racial/ethnic groups in U.S. society
- ▶ Examine the current topics and research within the interdisciplinary field of ethnic/diversity studies
- ▶ Research and connect to transfer programs that can lead to careers in ethnic/diversity studies, psychology, sociology, political science, history, art and literature.

For-additional information on transfer visit the Transfer Resources website at <http://transfer.brookdalecc.edu>

### Requirements

General Education- 45 credits as described on page 50.

Career Studies - 9 credits as follows:

Code	Course	Credits
SOCI 101	Principles of Sociology	3
SOCI 105	Intercultural Communication	3
SOCI 216*	Sociology of Minorities	3

Career Studies - 3 credits from among the following:

ANTH 106	Cultures of the World	3
ENGL 150	African-American Literature	3
HIST 126	Dimensions of the Holocaust	3
HIST 155	Native American Studies	3
HIST 215	African Civilization	3
HIST 217*	Modern Latin American History	3
HIST 225**	History of Modern Asia	3
HIST 227**	Middle Eastern History	3
HIST 235	Immigration & Ethnicity in American History	3
PHIL 225	Comparative Religion	3

Elective 3

\*Offered Fall term only

\*\*Offered Spring term only

### Degree Audit

Your progress toward your degree is available through WebAdvisor. Refer to page 23 for details.

### Credits required for degree: 60

#### Suggested Sequence - Social Sciences Program A.A. Degree Ethnic Studies Option

The following sequence is an example of how this degree can be completed in two years. This sequence is based on satisfaction of all Basic Skills requirements and prerequisites and presumes a Fall Term start date. An individual's program may vary depending on transfer institution, career objectives, or individual needs. See your counselor for other options and to monitor your progress.

Course Code	Credits	Course Code	Credits
<b>SEMESTER 1 - Fall Term</b>		<b>SEMESTER 2 - Spring Term</b>	
ENGL 121	3	ENGL 122	3
Humanities	3	Humanities	3
Mathematics <sup>(1)</sup>	3-4	Social Science	3
SOCI 101	3	SOCI 105	3
Mathematics/Science/Technological Competency or Information Literacy <sup>(1)</sup>	3-4	Mathematics or Science <sup>(1)</sup>	3-4
	15-17		15-16
<b>SEMESTER 3 - Fall Term</b>		<b>SEMESTER 4 - Spring Term</b>	
Science (with lab) <sup>(1)</sup>	4	Social Sciences	3
Career Studies	3	Humanities	3
SPCH 115	3	History	3
History	3	Cultural & Global Awareness <sup>(2)</sup>	3
SOCI 216*	3	Elective	3
	16		15

<sup>(1)</sup> A minimum of 12 credits are required from the Mathematics, Sciences or Technological Competency or Information Literacy knowledge areas.

<sup>(2)</sup> One course is required from the Cultural & Global Awareness knowledge area. Students may meet the requirement while simultaneously fulfilling the General Education requirement for another knowledge area.  
\*Offered Fall term only

# Fashion Merchandising Program A.A.S. Degree

Students who wish to prepare for a sales, management, or buying career in the wholesale or retail fashion industry should select this program which combines fashion studies with business and general education courses. After graduation, students may either begin their careers or may choose to transfer to Bachelor degree programs in colleges which offer Fashion Merchandising degrees. Graduates of this program have been accepted with full credit to the upper division of four-year colleges which offer fashion-related Bachelor degrees.

### Graduates of this program will be able to:

- ▶ Demonstrate a working knowledge of the fashion industry from concept to consumer
- ▶ Apply computation skills pertinent to the fashion and retailing industries
- ▶ Apply appropriate visual merchandising and advertising techniques
- ▶ Demonstrate both customer service and management techniques, which apply to the fashion industry
- ▶ Demonstrate an understanding of the interrelationships between the consumer and the primary, secondary, retailing and auxiliary segments of the fashion industry

### Requirements

**General Education** – 20 credits as described on page 50.

The following general education courses are recommended for students choosing this program.

Code	Course	Credits
ARTH 106	History of Art: Ancient Through Medieval OR	3
ARTH 107	History of Art: Renaissance Through Contemporary	3
ENGL 121	English Composition: The Writing Process	3
SPCH 115	Public Speaking	3

*Students planning to transfer should see their counselors regarding general education requirements.*

### Career Studies – 30 credits as follows:

MRKT 105	Advertising	3
MRKT 111	Fundamentals of Retailing	3
FASH 121	Fashion Merchandising	3
FASH 122	Textile Science	3
FASH 205	Merchandise Planning and Control	3
FASH 212	Visual Merchandising and Display	3
FASH 213	Buying	3
FASH 223	Fashion Coordination	3
FASH 224	Case Studies & Executive Development in Fashion Merchandising	3
FASH 225	Survey of Historic Costume	3

### Career Studies – 6 credits from among the following:

COMP 129	Information Technology	3
BUSI 105	Introduction to Business	3
BUSI 206	Supervisory Management	3
ECON 105	Macro Economics	3
ECON 106	Micro Economics	3
MRKT 101	Introduction to Marketing	3
MRKT 145	Salesmanship	3
FASH 295	Special Project-Fashion	1-3
FASH 299	Fashion Merchandising Internship	3

**Electives** **4**

### Degree Audit

Your progress toward your degree is available through WebAdvisor. Refer to page 23 for details.

### Credits required for degree: 60

#### Suggested Sequence – Fashion Merchandising Program A.A.S. Degree

The following sequence is an example of how this degree can be completed in two years. This sequence is based on satisfaction of all Basic Skills requirements and prerequisites and presumes a Fall Term start date. An individual's program may vary depending on transfer institution, career objectives, or individual needs. See your counselor for other options and to monitor your progress.

Course Code	Credits	Course Code	Credits
<b>SEMESTER 1 – Fall Term</b>		<b>SEMESTER 2 – Spring Term</b>	
FASH 121	3	FASH 122	3
MRKT 111	3	MRKT 105	3
ENGL 121	3	FASH 205	3
Social Sciences	3	SPCH 115	3
Elective	4	Mathematics or Science or Technological or Info Literacy	3-4
	16		15-16
<b>SEMESTER 3 – Fall Term</b>		<b>SEMESTER 4 – Spring Term</b>	
FASH 212	3	FASH 223	3
FASH 213	3	FASH 224	3
FASH 225	3	Career Studies	3
Humanities	3	General Education <sup>(1)</sup>	6
Career Studies	3		15
	15		

<sup>(1)</sup> One course is recommended from the Cultural & Global Awareness knowledge area.

# Fine Arts Program A.F.A. Degree

## Studio Art Option

The Associate of Fine Arts Degree in Studio Art provides a well-rounded education with the adequate range of liberal studies required by four-year Bachelor of Fine Arts programs. The Studio Art Option is designed for students seeking to transfer to a four-year college or professional art school. This option provides the courses necessary at the Associate degree level to transfer to a Bachelor of Fine Arts in Studio Art or Visual Art with a concentration in Drawing, Painting, Ceramics, Jewelry, or Sculpture. Because certain requirements may vary in some B.F.A. programs, students should identify transfer schools as early as possible, and work closely with counselors to insure selecting appropriate courses for smooth transfer.

**Graduates of this program will be able to:**

- ▶ Demonstrate a proficiency in basic design elements
- ▶ Discuss the history of the visual arts
- ▶ Demonstrate a proficiency in the use of basic crafts and visual arts

**Requirements**

General Education – 20 credits as described on page 50.

Career Studies – 19 credits as follows:

Code	Course	Credits
ARTH 106	History of Art: Ancient through Medieval	3
ARTH 107	History of Art: Renaissance through Contemporary	3
ARTS 111	Drawing I	3
ARTS 121	2-D Design	3
ARTS 122	Color Theory	3
ARTS 123	3-D Design	3
*ARTS 295	Special Project – Art	1

*\*One credit special project to be used for portfolio development.*

Career Studies – 21 credits from among the following:

ARTC 141	Digital Paint I	3
ARTC 142	Digital Paint II	3
ARTS 112	Drawing II	3
ARTS 151	Ceramics I	3
ARTS 152	Ceramics II	3
ARTS 156	Sculpture I	3
ARTS 161	Jewelry I	3
ARTS 162	Jewelry II	3
ARTS 213	Figure Drawing I	3
ARTS 231	Painting I	3
ARTS 232	Painting II	3
ARTS 235	Watercolor	3
ARTS 295	Special Project – Art	1-6
ARTS 299	Art Internship	1-3
PHTY 111	Photography I	3

**Degree Audit**

Your progress toward your degree is available through WebAdvisor. Refer to page 23 for details.

**Credits required for degree: 60**

**Suggested Sequence – Fine Arts Program A.F.A. Degree Studio Art Option**

The following sequence is an example of how this degree can be completed in two years. This sequence is based on satisfaction of all Basic Skills requirements and prerequisites and presumes a Fall Term start date. An individual’s program may vary depending on transfer institution, career objectives, or individual needs. See your counselor for other options and to monitor your progress.

Course Code	Credits	Course Code	Credits
<b>SEMESTER 1 – Fall Term</b>		<b>SEMESTER 2 – Spring Term</b>	
ARTS 111	3	ARTH 106	3
ARTS 121	3	ARTS 122	3
ENGL 121	3	ARTS 123	3
Social Sciences	3	ENGL 122	3
General Education <sup>(1)</sup>	3	Mathematics or Science or Technological or Info Literacy	3-4
	15		15-16
<b>SEMESTER 3 – Fall Term</b>		<b>SEMESTER 4 – Spring Term</b>	
ARTH 107	3	Career Studies	12
ARTS 295	1	General Education	3
Career Studies	9		15
Humanities	3		
	16		

<sup>(1)</sup> One course is recommended from the Cultural & Global Awareness knowledge area.

# Game Programming Option

## Digital Animation and 3D Design Program A.A.S. Degree

This option is designed for students who are interested in the programming segment of game development. The emphasis is on developing the skills required to design, code and test programs which will ultimately become the backbone of an electronic game. This includes fundamental programming concepts as well as those demanded to develop interactive games.

Graduates of this program will be able to:

- ▶ Conceptualize an original game
- ▶ Create game documents
- ▶ Develop and test C++ code
- ▶ Use an Application Programming Interface to create 3D Programs
- ▶ Modify a game using an existing game engine

### Requirements

General Education – 20 credits of general education as described on page 50 including the following required general education course:

COMP 126 Computer Logic and Design 3

Career Studies – 36 credits as follows:

COMP 132 Structured Programming 3

Using C++

COMP 175 Game Design and Development 3

COMP 226 Systems Analysis and Design 3

COMP 233 Object Oriented Programming 3

Using C++

COMP 275 Game Programming 3

COMP 276 Game Level Design 3

DIGM 115 Digital Editing: After Effects 3

DIGM 116 Production & Storyboarding: Photoshop 3

DIGM 121 Maya I: 3D Modeling 3

DIGM 122 Maya II: Fundamentals 3

DIGM 225 Digital Design and Production 6

Technical Electives – 3 credits from among the following:

COMP 145 Introduction to UNIX 3

COMP 166 Web Design Using HTML 3

DIGM 221 Maya III Rendering 3

Elective 1

### Degree Audit

Your progress toward your degree is available through WebAdvisor. Refer to page 23 for details.

### Credits required for degree: 60

#### Suggested Sequence – Digital Animation and 3D Design A.A.S.

##### Game Programming Option

The following sequence is an example of how this degree can be completed in two years. This sequence is based on satisfaction of all Basic Skills requirements and prerequisites and presumes a Fall Term start date. An individual's program may vary depending on transfer institution, career objectives, or individual needs. See your counselor for other options and to monitor your progress.

Course Code	Credits	Course Code	Credits
<b>SEMESTER 1 – Fall Term</b>		<b>SEMESTER 2 – Spring Term</b>	
COMP 126	3	DIGM 115	3
COMP 175	3	DIGM 122	3
COMP 132	3	COMP 233	3
DIGM 121	3	COMP 275	3
ENGL 121	3	Communications	3
	15		15
<b>SEMESTER 3 – Fall Term</b>		<b>SEMESTER 4 – Spring Term</b>	
COMP 226	3	Elective	1
DIGM 116	3	DIGM 225	6
COMP 276	3	General Education <sup>(1)</sup>	5
Humanities or Social Science	3	Technical Electives	3
Mathematics or Science or	3-4		15
Technological or Info Literacy			
	15-16		

<sup>(1)</sup> One course is recommended from the Cultural & Global Awareness knowledge area.

# Graphic Design Option

## Humanities Program A.A. Degree

Students who wish to transfer with majors in graphic design should select this option which combines general education and basic production courses. The option prepares students to transfer to four-year programs which allow them to enter design fields such corporate design, illustration, graphic design, typography, corporate identity and others

Graduates of this program will be able to:

- ▶ Apply the meaning of corporate identity
- ▶ Apply the principles of good illustration
- ▶ Demonstrate graphic design
- ▶ Apply typography

### Requirements

General Education – 45 credits as described on page 50.

Career Studies – 12 credits as follows:

Code	Course	Credits
GRPH 101	Typography I	3
GRPH 102	Typography II	3
GRPH 204	Graphic Design Production	3
GRPH 216	Graphic Design Techniques	3
<b>Elective</b>		<b>3</b>

### Degree Audit

Your progress toward your degree is available through WebAdvisor. Refer to page 23 for details.

### Credits required for degree: 60

#### Suggested Sequence – Humanities Program A.A. Degree Graphic Design Option

The following sequence is an example of how this degree can be completed in two years. This sequence is based on satisfaction of all Basic Skills requirements and prerequisites and presumes a Fall Term start date. An individual's program may vary depending on transfer institution, career objectives, or individual needs. See your counselor for other options and to monitor your progress.

Course Code	Credits	Course Code	Credits
<b>SEMESTER 1 – Fall Term</b>		<b>SEMESTER 2 – Spring Term</b>	
GRPH 101	3	GRPH 102	3
Mathematics/Science/Technological Competency or Information Literacy <sup>(1)</sup>	3-4	ENGL 122	3
ENGL 121	3	History	3
Humanities	3	Mathematics or Science <sup>(1)</sup>	3-4
Mathematics <sup>(1)</sup>	3-4	Social Sciences	3
	15-17		15-16
<b>SEMESTER 3 – Fall Term</b>		<b>SEMESTER 4 – Spring Term</b>	
GRPH 204	3	GRPH 216	3
SPCH 115	3	Humanities	3
Humanities	3	Cultural & Global Awareness <sup>(2)</sup>	3
Science (with lab) <sup>(1)</sup>	4	Social Sciences	3
History	3	Elective	3
	16		15

<sup>(1)</sup> A minimum of 12 credits are required from the Mathematics, Sciences or Technological Competency or Information Literacy knowledge areas.

<sup>(2)</sup> One course is required from the Cultural & Global Awareness knowledge area. Students may meet the requirement while simultaneously fulfilling the General Education requirement for another knowledge area.

For additional information on transfer visit the Transfer Resources website at <http://transfer.brookdalecc.edu>

# Graphic Design Program

## A.A.S. Degree

This program is for students who wish to gain employment in the field of graphic art and design. Positions may be available in advertising – print and non-print – and in various visual communication fields. Employment areas may include: design production, print production, display, digital design, illustration, and photography. This program is not designed for transfer to a four-year college. Students who wish to complete Bachelors’ degrees should choose the Graphic Design Option of the Humanities A.A. Program.

**Graduates of this program will be able to:**

- ▶ Discuss the history of typography
- ▶ Utilize various software programs
- ▶ Apply pre-press techniques
- ▶ Demonstrate digital design techniques

**Requirements**

General Education – 20 credits as described on page 50.

Career Studies – 21 credits as follows:

Code	Course	Credits
ARTS 111	Drawing I	3
ARTS 121	2-D Design	3
GRPH 101	Typography I	3
GRPH 102	Typography II	3
GRPH 115	Illustration	3
GRPH 204	Graphic Design Production	3
GRPH 216	Graphic Design Techniques	3

Career Studies – 15 credits from among the following:

ARTH 107	History of Art: Renaissance through Contemporary	3
ARTC 147	Desktop Publishing I	3
GRPH 295	Special Project – Graphic Design	1-6
GRPH 299	Graphic Design Internship	1-6
MRKT 105	Advertising	3
PHTY 111	Photography I	3

Electives **4**

**Degree Audit**

Your progress toward your degree is available through WebAdvisor. Refer to page 23 for details.

**Credits required for degree: 60**

**Suggested Sequence – Graphic Design Program A.A.S. Degree**

The following sequence is an example of how this degree can be completed in two years. This sequence is based on satisfaction of all Basic Skills requirements and prerequisites and presumes a Fall Term start date. An individual’s program may vary depending on transfer institution, career objectives, or individual needs. See your counselor for other options and to monitor your progress.

Course Code	Credits	Course Code	Credits
<b>SEMESTER 1 – Fall Term</b>		<b>SEMESTER 2 – Spring Term</b>	
Career Studies	9	Career Studies	9
ENGL 121	3	Communications	3
Humanities	3	Mathematics or Science or Technological or Info Literacy	3-4
	15		15-16
<b>SEMESTER 3 – Fall Term</b>		<b>SEMESTER 4 – Spring Term</b>	
Career Studies	9	Career Studies	9
Social Sciences	3	General Education	3
General Education <sup>(1)</sup>	3	Electives	4
	15		16

<sup>(1)</sup> One course is recommended from the Cultural & Global Awareness knowledge area.

# Health Information Technology Program A.A.S. Degree

Students graduating with the Health Information Technology A.A.S. degree will have developed skills in organizing, maintaining and evaluating health records. They will be able to assemble health information, ensure that all forms are completed and properly identified and signed, and ensure that all necessary information is in the computer.

Graduates will have the ability to code patients' medical information for insurance purposes and use computer programs to tabulate and analyze data to improve patient care, provide documentation for use in legal actions or provide data for use in research studies. As members of the health care team, they will be able to communicate with physicians and other health care professionals to clarify diagnoses or to obtain additional information.

**Graduates of this program will be able to:**

- ▶ Collect, analyze, monitor, maintain, retrieve and report health care data in accordance with quality assurance principles
- ▶ Use critical thinking as a framework for decision making in information system issues in a variety of settings
- ▶ Communicate and collaborate effectively with clients, and members of the health care team.
- ▶ Practice in a legal and ethical manner exhibiting personal accountability for all actions
- ▶ Synthesize knowledge from health information technology and other disciplines to promote optimal information system function.

**Degree Audit**

Your progress toward your degree is available through WebAdvisor. Refer to page 23 for details.

**Requirements**

General Education – 20 credits as follows:

Code	Course	Credits
ENGL 121	English Composition: Writing Process	3
ENGL 122	English Composition: Writing & Research	3
ENGL 235	World Literature I	3
PSYC 106	Introduction to Psychology II	3
BIOL 111	Anatomy & Physiology I	4
BIOL 112	Anatomy & Physiology II	4

Career Studies – 41 credits as follows:

HESC 105	Medical Terminology	3
HITC 121	Introduction to Health Information Technology	3
HITC 122	Health Information in Alternative Systems	4
HITC 123	Health Information and the Law	3
HITC 124	Pathophysiology	3
HITC 221	Coding and Classification Systems I	4
HITC 222	Health Information Documentation	3
HITC 223	Health Information Reporting	3
HITC 224	Coding and Classification Systems II	4
HITC 225	Health Information Management	3
HITC 226	Clinical Practicum	4
OADM 116	Microsoft Office	4

Elective 3

## Medical Coding Academic Credit Certificate of Achievement

This program prepares individuals for employment as entry level coders in various health care settings. It allows students who do not wish to pursue a degree at this time the opportunity to gain basic skills and knowledge in the area of medical coding. Graduates will have the ability to interact with health care professionals and managed care representatives about medical coding issues. Students who have completed this program and have attained work experience may wish to pursue the Certified Coding Specialist (CCS) examination and credentials through the American Health Information Management Association (AHIMA). Credits from this program will transfer into the Health Information Technology AAS Program.

**Graduates of this certificate program will be able to:**

- ▶ Demonstrate competence as a health care coder in entry-level employment in various types of health care settings
- ▶ Communicate with health care professionals and managed care companies

**Requirements**

Code	Course	Credits
HESC 105	Medical Terminology	3
HITC 121	Introduction to Health Information Technology	3
HITC 221	Coding and Classification Systems I	4
HITC 222	Health Information Documentation	3
HITC 224	Coding and Classification Systems II	4
<b>Total Credits</b>		<b>17</b>

**Credits required for degree: 64**

**Suggested Sequence – Health Information Technology A.A.S Degree**

The following sequence is an example of how this degree can be completed in two years. This sequence is based on satisfaction of all Basic Skills requirements and prerequisites and presumes a Fall Term start date. An individual's program may vary depending on transfer institution, career objectives, or individual needs. See your counselor for other options and to monitor your progress.

Course Code	Credits	Course Code	Credits
<b>SEMESTER 1 – Fall Term</b>		<b>SEMESTER 2 – Spring Term</b>	
HITC 121	3	HITC 122	4
OADM 116	4	HITC 123	3
HESC 105	3	HITC 124	3
BIOL 111	4	BIOL 112	4
ENGL 121	3	ENGL 122	3
	17		17
<b>SEMESTER 3 – Fall Term</b>		<b>SEMESTER 4 – Spring Term</b>	
HITC 221	4	HITC 224	4
HITC 222	3	HITC 225	3
HITC 223	3	HITC 226	4
PSYC 106	3	Elective	3
ENGL 235	3		14
	16		

# History Option

## Social Sciences Program A.A. Degree

This option prepares students for a history degree for transfer to a four-year college history program, and allows students the opportunity to explore this subject for the following reasons: intellectual curiosity, expands awareness of other cultures, develops imagination and helps connect the past to contemporary concerns. Careers more typically pursued by history majors include business, law, government service, diplomacy, publishing, journalism, social work, library and museum work, as well as teaching.

Graduates of this program will be able to:

- ▶ Demonstrate and summarize knowledge of historical content
- ▶ Communicate skills and content effectively in written and verbal forms
- ▶ Explain the impact of historical developments on their lives and the diverse world around them

**This degree program may also be completed online. Students may choose to take some or all of their courses online. For more information call 732-224-2089.**

**For additional information on transfer visit the Transfer Resources website at <http://transfer.brookdalecc.edu>**

### Requirements

General Education– 45 credits as described on page 50.

Career Studies – 12 credits from among the following. The selected courses must include at least one sequence of HIST 105/HIST 106, or HIST 135/HIST 136.

Code	Course	Credits
HIST 105	World Civilization I	3
HIST 106	World Civilization II	3
HIST 107	Contemporary World History	3
HIST 116	Vietnam: Historical Perspectives	3
HIST 125	Women's History Survey: Experiences, Contributions and Debates	3
HIST 135	American Civilization I	3
HIST 136	American Civilization II	3
HIST 137	Recent American History	3
HIST 138	The 1960s: Pop Music and the Counterculture	3
HIST 145*	African American History I	3
HIST 146**	African American History II	3
HIST 155	Native American Studies	3
HIST 202	History of New Jersey	3
HIST 205	History of World War II	3
HIST 215	African Civilization	3
HIST 217*	Modern Latin American History	3
HIST 225**	History of Modern Asia	3
HIST 226	History of Modern Russia	3
HIST 227**	Middle Eastern History	3
HIST 237	American Civil War	3
Elective		3

### Degree Audit

Your progress toward your degree is available through WebAdvisor. Refer to page 23 for details.

\*Offered Fall term only  
 \*\*Offered Spring term only

### Credits required for degree: 60

#### Suggested Sequence – Social Sciences Program A.A. Degree History Option

The following sequence is an example of how this degree can be completed in two years. This sequence is based on satisfaction of all Basic Skills requirements and prerequisites and presumes a Fall Term start date. An individual's program may vary depending on transfer institution, career objectives, or individual needs. See your counselor for other options and to monitor your progress.

Course Code	Credits	Course Code	Credits
<b>SEMESTER 1 – Fall Term</b>		<b>SEMESTER 2 – Spring Term</b>	
HIST 105 or HIST 135	3	HIST 106 or HIST 136	3
ENGL 121	3	ENGL 122	3
Humanities	3	History	3
Mathematics <sup>(1)</sup>	3-4	Social Sciences	3
Mathematics/ Science/Technological <sup>(1)</sup>	3-4	Mathematics or Science <sup>(1)</sup>	3-4
Competency or Information Literacy	15-17		15-16
<b>SEMESTER 3 – Fall Term</b>		<b>SEMESTER 4 – Spring Term</b>	
Career Studies	3	Career Studies	3
Communications	3	Humanities	3
Science (with lab) <sup>(1)</sup>	4	Cultural & Global Awareness <sup>(2)</sup>	3
Humanities	3	Social Sciences	3
History	3	Elective	3
	16		15

<sup>(1)</sup> A minimum of 12 credits are required from the Mathematics, Sciences or Technological Competency or Information Literacy knowledge areas.  
<sup>(2)</sup> One course is required from the Cultural & Global Awareness knowledge area. Students may meet the requirement while simultaneously fulfilling the General Education requirement for another knowledge area.

# Horticulture Academic Credit Certificate

The Horticulture Certificate prepares students to pursue this interesting and dynamic field as a profession or to enhance knowledge for personal pleasure. People of all ages and backgrounds take courses to gain or augment horticultural skills. Whether you are planning to begin your own small business, desire to expand into new, potentially-profitable areas, need better trained employees or simply want to pursue horticulture as a life-long hobby, Brookdale offers a variety of useful and stimulating courses. The 30-credit certificate combines specialized career courses with related general education studies. Students planning to transfer to two- or four-year degree programs work closely with their counselors and instructors to select appropriate courses and insure a smooth transition process. Students interested in a four-year horticulture degree, for example, will need additional science and math courses to meet specific transfer college entry requirements.

Graduates of this certificate program will be able to:

- ▶ Obtain or improve horticulture business-related job skills
- ▶ Acquire useful information and techniques to become a more knowledgeable and successful gardener

### Degree Audit

Your progress toward your degree is available through WebAdvisor. Refer to page 23 for details.

### Requirements

General Education – 6 credits as follows:

Code	Course	Credits
ENGL 121	English Composition The Writing Process	3
	Humanities/Social Science	3

\*Career Studies – 8 credits as follows:

BIOL 125	Introduction to Plants AND	4
HORT 125	Landscape Plant Materials I OR	4
HORT 126	Landscape Plant Materials II	4

\*Career Studies — 16 credits from among the following:

BUSI 241	Small Business Management (Fall Only)	3
HORT 115	Soil Science	4
HORT 125	Landscape Plant Materials I	4
HORT 135	Grounds Maintenance	3
HORT 146**	Great Gardens	2
HORT 151	Floral Design I	1
HORT 152	Floral Design II	1
HORT 153	Floral Design III	1
HORT 185	Landscape Design	4
HORT 186	Landscape Construction	3
HORT 225	Turf Management	3
HORT 235	Plant Diseases and Pests	3
HORT 245	Plant Propagation	4
HORT 295	Special Project-Ornamental Horticulture	1-6
HORT 299	Horticulture Internship	1-6

\*All career courses taken for the Horticulture Certificate Program must have a grade of "C" or higher

\*\*Students can take HORT 146 in the summer as a substitute for any of the courses in the suggested sequence.

## Floral Design Academic Credit Certificate of Achievement

Completion of the following courses will enable one to pursue a career as a floral designer and work toward operating or owning a small business selling cut flowers and floral arrangements for various occasions.

### Requirements:

Career Studies – 6 credits as follows:

Code	Course	Credits
HORT 151	Floral Design I	1
HORT 152	Floral Design II	1
HORT 153	Floral Design III	1
BUSI 241	Small Business Management	3
Recommended:		
HORT 299	Horticulture Internship	2-3

## Landscape Design Academic Credit Certificate of Achievement

Completion of the following courses will enable one to pursue a career as a landscape designer and work toward operating or owning a small business that installs attractive functional landscapes.

### Requirements:

Career Studies – 15 credits as follows:

Code	Course	Credits
HORT 125	Landscape Plant Materials I	4
HORT 126	Landscape Plant Materials II	4
HORT 185	Landscape Design	4
HORT 186	Landscape Construction	3
Recommended:		
HORT 299	Horticulture Internship	2-3

### Credits required for certificate: 30

#### Suggested Sequence – Horticulture Academic Credit Certificate

The following sequence is an example of how this degree can be completed in two years. This sequence is based on satisfaction of all Basic Skills requirements and prerequisites and presumes a Fall Term start date. An individual's program may vary depending on transfer institution, career objectives, or individual needs. See your counselor for other options and to monitor your progress.

Course Code	Credits	Course Code	Credits
<b>SEMESTER 1 – Fall Term</b>		<b>SEMESTER 2 – Spring Term</b>	
BIOL 125	4	HORT 125	4
HORT 126	4	HORT 185 or	4
	8	HORT 151, HORT 152 and HORT 153	3
			7-8
<b>SEMESTER 3 – Fall Term</b>		<b>SEMESTER 4 – Spring Term</b>	
HORT 235 or	3	HORT 115 and/or	3
HORT 245	4	HORT 225 and/or	3
HORT 135	3	HORT 186	3
ENGL 121	3	Humanities or Social Sciences	3
HORT 299*	2-3	HORT 299*	2-3
	9-13		6-15

\*Internships are recommended but not required either Fall or Spring of the 2nd year.

Note: Students may substitute BUSI 241 for one of the career courses in the suggested sequence if they wish to operate a small business.

# Human Services Program A.A.S. Degree

## Generalist

Human Services is a creative, innovative field for persons who work with, and give support to, other human beings. Students learn through a combination of classroom work and on-site performances, spending time in human services facilities. In addition to time spent in the classroom, students spend 285 hours in hospitals, mental health centers, social service agencies, substance-abuse counseling sites and other facilities. Graduates take positions as mental health workers, drug and alcohol workers, psychiatric technicians, social service interviewers, community organizers and personnel counselors. While this program is not designed for transfer, many graduates may make smooth transitions to Bachelor's programs by working with their counselors and the members of the Human Services team.

**Graduates of this program will be able to:**

- ▶ Serve Human Services clients or carry out other supportive human service agency functions
- ▶ Explain the historical and philosophical foundation of Human Services
- ▶ Identify human systems, discuss their interaction, and recognize the conditions that promote or limit optimal human functioning
- ▶ Analyze service problems, select appropriate strategies, services, or interventions, and evaluate outcomes
- ▶ Apply human service ethics, values, and attitudes in personal, educational, and professional settings with an understanding of cultural/ethnic diversity.
- ▶ Evaluate their own values, personalities, reaction patterns, interpersonal styles, and limitations

### Degree Audit

Your progress toward your degree is available through WebAdvisor. Refer to page 23 for details.

### Requirements

General Education – 20 credits as described on page 50.

Career Studies – 33 credits as follows:

Code	Course	Credits
PSYC 105	Introduction to Psychology I	3
PSYC 106	Introduction to Psychology II	3
PSYC 111	Introduction to Human Services	3
PSYC 208	Life Span Development	3
PSYC 209	Theories of Personality OR	3
PSYC 245	Introduction to Quantitative Methods	3
PSYC 212**	Community Agencies and Human Services Systems	3
PSYC 215	Counseling Techniques	3
PSYC 216	Abnormal Psychology	3
PSYC 235	Group Dynamics	3
PSYC 285	Human Services Practicum	3
CRJU 126	Introduction to Public Administration OR	3
CRJU 127	Introduction to Corrections	3
<b>Electives</b>		<b>7</b>

\*\*Offered Spring term only

## Social Services Academic Credit Certificate of Achievement

The Social Services Certificate is designed for students interested in pursuing a career in social services. Those earning a certificate will develop skills that will enable them to be competent and effective entry level social service workers. Department of Human Services (DHS) employees who complete recognized DHS training modules in one of the areas of: child protective services; mental health; or developmental disabilities will be given the opportunity to convert their training into academic credit and complete an academic certificate with additional course work.

### Requirements

General Education – 12 credits as follows:

Code	Course	Credits
ENGL 121	English Composition The Writing Process	3
PSYC 105	Introduction to Psychology I	3
SOCI 101	Principles of Sociology	3
SPCH 115	Public Speaking	3

Career Studies – 15 credits as follows:

PSYC 215	Counseling Techniques	3
PSYC 295	Special Project – Psychology	6
SOCI 295	Special Project – Sociology	6

**Total Credits 27**

## Credits required for degree: 60

### Suggested Sequence – Human Services Program A.A.S. Degree

The following sequence is an example of how this degree can be completed in two years. This sequence is based on satisfaction of all Basic Skills requirements and prerequisites and presumes a Fall Term start date. An individual's program may vary depending on transfer institution, career objectives, or individual needs. See your counselor for other options and to monitor your progress.

Course Code	Credits	Course Code	Credits
<b>SEMESTER 1 – Fall Term</b>		<b>SEMESTER 2 – Spring Term</b>	
PSYC 105	3	PSYC 106	3
PSYC 111	3	PSYC 212	3
ENGL 121	3	PSYC 215	3
SPCH 115	3	Humanities	3
SOCI 101	3	PSYC 208	3
	15		15
<b>SEMESTER 3 – Fall Term</b>		<b>SEMESTER 4 – Spring Term</b>	
General Education <sup>(1)</sup>	3	PSYC 209 or PSYC 245	3
PSYC 216	3	PSYC 285	3
PSYC 235	3	General Education	3
Mathematics or Science or Technological or Information Literacy	3-4	Elective	7
CRJU 126 or CRJU 127	3		16
	15-16		

<sup>(1)</sup> One course is recommended from the Cultural & Global Awareness knowledge area.

# Human Services Program A.A.S Degree

## Addiction Studies Option

Human Services is a creative, innovative field for persons who work with, and give support to, other human beings who are experiencing problems with addiction. Students may be able to earn college credits and certification credits simultaneously. The courses are in sequence to provide a comprehensive approach to addiction studies. In addition to time spent in the classroom, students spend 285 hours in hospitals, mental health centers, social service agencies, substance-abuse counseling sites and other facilities. Graduates take positions as mental health workers, drug and alcohol workers, psychiatric technicians, social service interviewers, community organizers and personnel counselors. While this program is not designed for transfer, many graduates may make smooth transitions to Bachelor's programs by working with their counselors and the members of the Human Services team.

Graduates of this program will be able to:

- ▶ Serve Human Services clients or carry out other supportive human service agency functions
- ▶ Explain the historical and philosophical foundation of Human Services
- ▶ Identify human systems, discuss their interaction, and recognize the conditions that promote or limit optimal human functioning
- ▶ Analyze service problems, select appropriate strategies, services, or interventions, and evaluate outcomes
- ▶ Apply human service ethics, values, and attitudes in personal, educational, and professional settings with an understanding of cultural/ethnic diversity.
- ▶ Evaluate their own values, personalities, reaction patterns, interpersonal styles, and limitations
- ▶ Apply interventions with individual clients and therapeutic groups as it relates to drug and alcohol addictions

### Degree Audit

Your progress toward your degree is available through WebAdvisor. Refer to page 23 for details.

### Requirements

General Education – 20 credits as described on page 50.

Career Studies – 39 credits as follows:

Code	Course	Credits
PSYC 106	Introduction to Psychology II	3
PSYC 111	Introduction to Human Services	3
PSYC 125*	Intro to Addiction Studies	3
PSYC 127**	Evaluation and Diagnosis of the Addicted Client	3
PSYC 208	Life Span Development	3
PSYC 212**	Community Agencies and Human Services Systems	3
PSYC 215	Counseling Techniques	3
PSYC 216	Abnormal Psychology	3
PSYC 221*	Individual Counseling for the Addicted Client	3
PSYC 222**	Social, Cultural and Familial Aspects of Addiction	3
PSYC 235	Group Dynamics	3
PSYC 285	Human Services Practicum	3
SOCI 105	Intercultural Communication	3

Electives 3

\*Offered Fall term only

\*\*Offered Spring term only

Students who complete the suggested course sequence for the addictions option A.A.S. will have fulfilled the academic competencies of the CADC credential awarded by the state of New Jersey. Brookdale does not provide supervised Praxis hours for a CADC, nor does Brookdale award the CADC credential itself. Students may apply with the NJ Board of Consumer Affairs to have their BCC credits count for the totality of the CADC coursework requirements.

Students taking the courses listed below can apply to have their credits count toward the academic portion of the CADC credential with the department of consumer affairs, CADC division. For more information go to the following web page:

<http://www.state.nj.us/lps/ca/medical/alcdrug.htm> > or call 973-504-6369

SOCI 105	PSYC 122
PSYC 105	PSYC 215
PSYC 106	PSYC 216
PSYC 111	PSYC 221
PSYC 125	PSYC 222
PSYC 127	PSYC 235
PSYC 208	

### Credits required for degree: 62

#### Suggested Sequence – Human Services Program A.A.S. Degree Addiction Studies Option

The following sequence is an example of how this degree can be completed in two years. This sequence is based on satisfaction of all Basic Skills requirements and prerequisites and presumes a Fall Term start date. An individual's program may vary depending on transfer institution, career objectives, or individual needs. See your counselor for other options and to monitor your progress.

Course Code	Credits	Course Code	Credits
<b>SEMESTER 1 – Fall Term</b>		<b>SEMESTER 2 – Spring Term</b>	
PSYC 105	3	PSYC 212	3
PSYC 111	3	PSYC 106	3
PSYC 125	3	PSYC 127	3
ENGL 121	3	PSYC 215	3
Humanities	3	ENGL 122	3
	<u>15</u>		<u>15</u>
<b>SEMESTER 3 – Fall Term</b>		<b>SEMESTER 4 – Spring Term</b>	
General Education <sup>(1)</sup>	4-5	PSYC 222	3
PSYC 216	3	PSYC 285	3
Mathematics or Science or Technological/Info Literacy	3-4	SOCI 105	3
PSYC 221	3	PSYC 208	3
PSYC 235	3	Electives	3
	<u>16-18</u>		<u>15</u>

<sup>(1)</sup>One course is recommended from the Cultural and Global Awareness knowledge area.

# Human Services Program A.A.S Degree

## Corrections Option

This option is designed to provide students in the Human Services field with basic skills for helping and empowering individuals who are experiencing problems related to the law and corrections. Particular emphasis is placed on preparing clients for successful reintegration into society as a functional, self-sufficient, law abiding citizens. Students are required to learn the fundamental principles and skills of human service work to foster personal empowerment and improve offenders' social skills. Students will learn how to assess individual needs, assist with the development of client goals and plans, and make appropriate referrals to services available in the community. Students are required to take the basic, core courses in human services, so that they attain the knowledge, skills, attitudes and values of a human services generalist. Their education will come from class work and on-site experiences (i.e., volunteer work, internships). Students are required to complete 225 hours of field work while successfully completing their courses. While this option is not designed for transfer, many of our students make smooth transitions to four-year colleges and universities. Successful completion of this option requires that students learn to efficiently and effectively work within the corrections system.

Graduates of this program will be able to:

- ▶ Serve Human Services clients or carry out other supportive human service agency functions
- ▶ Explain the historical and philosophical foundation of Human Services
- ▶ Identify human systems, discuss their interaction, and recognize the conditions that promote or limit optimal human functioning
- ▶ Analyze service problems, select appropriate strategies, services, or interventions, and evaluate outcomes
- ▶ Apply human service ethics, values, and attitudes in personal, educational, and professional settings with an understanding of cultural/ethnic diversity.
- ▶ Evaluate their own values, personalities, reaction patterns, interpersonal styles, and limitations
- ▶ Apply interventions with individual clients and therapeutic groups as it relates to corrections

### Requirements

General Education- 20 credits as described on page 50.

Career Studies - 30 credits as follows:

Code	Course	Credits
PSYC 106	Introduction to Psychology II	3
PSYC 111	Introduction to Human Services	3
PSYC 212**	Community Agencies and Human Services Systems	3
PSYC 215	Counseling Techniques	3
PSYC 216	Abnormal Psychology	3
PSYC 235	Group Dynamics	3
PSYC 285	Human Services Practicum	3
CRJU 101	Introduction to the Criminal Justice System	3
CRJU 127	Introduction to Corrections	3
CRJU 205	Community Corrections	3

Career Studies - 6 credits from the following:

CRJU 245	Delinquency and Juvenile Justice	3
PSYC 125*	Introduction to Addiction Studies	3
PSYC 127**	Evaluation and Diagnosis of the Addicted Client	3
PSYC 221*	Individual Counseling for the Addicted Client	3
PSYC 222**	Social, Cultural, and Familial Aspects of Addiction	3
SOCI 101	Principles of Sociology	3
SOCI 105	Intercultural Communications	3
SOCI 202	Analysis of Social Problems	3

Electives **4**

### Degree Audit

Your progress toward your degree is available through WebAdvisor. Refer to page 23 for details.

\*Offered Fall term only

\*\*Offered Spring term only

### Credits required for degree: 60

#### Suggested Sequence - Human Services Program A.A.S. Degree Corrections Option

The following sequence is an example of how this degree can be completed in two years. This sequence is based on satisfaction of all Basic Skills requirements and prerequisites and presumes a Fall Term start date. An individual's program may vary depending on transfer institution, career objectives, or individual needs. See your counselor for other options and to monitor your progress.

Course Code	Credits	Course Code	Credits
<b>SEMESTER 1 - Fall Term</b>		<b>SEMESTER 2 - Spring Term</b>	
PSYC 105	3	General Education	3
PSYC 111	3	PSYC 106	3
CRJU 101	3	CRJU 127	3
ENGL 121	3	PSYC 215	3
General Education <sup>(1)</sup>	3	SPCH 115	3
	15		15
<b>SEMESTER 3 - Fall Term</b>		<b>SEMESTER 4 - Spring Term</b>	
Career Studies	3	Career Studies	3
Mathematics or Science or Technological or Information Literacy	3-4	PSYC 212	3
PSYC 216	3	PSYC 285	3
CRJU 205	3	Humanities	3
PSYC 235	3	Electives	4
	15-16		16

<sup>(1)</sup> One course is recommended from the Cultural & Global Awareness knowledge area.

# Interior Design Program A.A.S. Degree

This program provides intensive, job-focused education in order to prepare students for entry-level positions in Interior Design. Career studies courses will provide training in the following categories: manual and computer-aided drafting skills, two- and three-dimensional visualization skills, space planning, universal design concepts, lighting and building systems, codes, historical developments in the built environment, trade information and business practices.

Separate policies exist for the Interior Design program, including grading. These policies can be found on the Interior Design web site.

Graduates of this program will be able to:

- ▶ Understand the historical development of architecture, furniture, and interiors
- ▶ Apply elements and principles of design
- ▶ Create interior design drawings using both manual and computer-aided drafting techniques and documents necessary for the completion of a design project
- ▶ Demonstrate the appropriate application of codes, regulations, and standards that pertain to interior environments
- ▶ Demonstrate appropriate selection of interior finishes and furnishings based on performance criteria and applicable codes and standards

### Degree Audit

Your progress toward your degree is available through WebAdvisor. Refer to page 23 for details.

### Requirements

General Education – 20 credits as described on page 50.

The following General Education courses are strongly recommended.

Code	Course	Credits
ENGL 121	English Composition: The Writing Process	3
ENGL 122	English Composition: Writing and Research	3
ANTH 106	Cultures of the World	3
ARTH 107	History of Art: Renaissance through Contemporary	3
ENVR 105	Environmental Studies	3
PHIL 227	Introduction to Ethics	3
SPCH 115	Public Speaking	3

### Career Studies – 48 credits as follows:

ARCH 151	Architectural Construction I	3
ARTH 201	History of Western Architecture	3
INTD 150	Design Elements for Interior Environments	3
INTD 152	Drafting and Graphic Presentation for Interior Design I	3
INTD 153	Drafting and Graphic Presentation for Interior Design II	3
INTD 154	Introduction to Interior Design	3

A grade of "C" or better is required in all Career Studies courses.

INTD 155	Illustrative Sketching for Interior Environments	3
INTD 161	History of Furniture and Interiors I	3
INTD 162	History of Furniture and Interiors II	3
INTD 245	Codes and Standards for Interiors	3
INTD 251	CAD for Interior Design I	3
INTD 253	Interior Design Studio I	3
INTD 254	Interior Design Studio II	3
INTD 256	Lighting and Building Systems	3
INTD 257	Textiles and Materials for Interior Design	3
INTD 258	Trade Information and Business Practices	3

### Career Studies – Choose 3-4 credits from among the following:

ARCH 121	People & Their Environment	3
ARTS 122	Color Theory	3
INTD 252	CAD for Interior Design II	3
INTD 225	3-D Architectural CAD	4
INTD 299	Internship	1-3

PLEASE NOTE: Students wishing to sit for the NCIDQ exam will need a total of 60 credits in career studies in addition to their work experience. Successful completion of the NCIDQ exam is required for interior design certification in the State of New Jersey.

## Credits required for degree: 71-72

### Suggested Sequence – Interior Design Program A.A.S. Degree

The following sequence is an example of how this degree can be completed in two years. This sequence is based on satisfaction of all Basic Skills requirements and prerequisites and presumes a Fall Term start date. An individual's program may vary depending on transfer institution, career objectives, or individual needs. See your counselor for other options and to monitor your progress.

Course Code	Credits	Course Code	Credits
<b>SEMESTER 1 – Fall Term</b>		<b>SEMESTER 2 – Spring Term</b>	
INTD 150	3	INTD 154	3
ENGL 121	3	INTD 153	3
INTD 152	3	INTD 155	3
INTD 161	3	INTD 162	3
ENVR 105	3	INTD 251	3
	15		15
<b>SUMMER</b>			
ARTH 201	3		
ENGL 122	3		
PHIL 227	3		
SPCH 115	3		
	12		
<b>SEMESTER 3 – Fall Term</b>		<b>SEMESTER 4 – Spring Term</b>	
ANTH 106	3	ARTH 107	3
ARCH 151	3	INTD 254	3
INTD 253	3	INTD 256	3
INTD 257	3	INTD 258	3
INTD 245	3	Career Studies	3
	15		15

This program may take longer than two years to complete.

# International Studies Option

## Social Sciences Program

### A.A. Degree

Students wishing to transfer to four-year colleges to prepare for careers in global history and area studies, international relations, intercultural counseling, international business, teaching, foreign service, journalism, and global mediation and conflict resolution, should choose this option. Emphasis is placed on courses that have a strong international focus. Study in another country through the International Center is highly recommended. See your counselor for advice.

#### Graduates of this program will be able to:

- ▶ Demonstrate language proficiency at the upper elementary level including an appraisal of the relationship between the language and other elements of the culture investigated
- ▶ Analyze specific discipline content from a global perspective, distinguishing and evaluating various perspectives within the discipline and the wider world
- ▶ Express and demonstrate cultural competence in a diverse global environment preferably through a study abroad experience or an intercultural community service experience
- ▶ Interpret, synthesize, and communicate diverse historical, economic, artistic, cultural and social perspectives in a global setting

#### Degree Audit

Your progress toward your degree is available through WebAdvisor. Refer to page 23 for details.

**For-additional information on transfer visit the Transfer Resources website at <http://transfer.brookdalecc.edu>**

#### Requirements

General Education – 45 credits as described on page 50. It is recommended that students choosing this program select general education courses that focus on global perspectives and international studies. However, students should check the transfer requirements of their transfer institution. It is highly recommended that students work with a Student Development Specialist to select their General Education courses.

Career Studies – 12-14 credits as follows: At least one course must be a 200 level course.

Career Studies – 6-8 credits from among the following:

\*Languages 6-8  
(Two-Semester Sequence)

Career Studies – 6 credits for students who are completing the 6-8 credit language requirement; 12 credits for students who have met the language\* requirement:

ANTH 106**	Cultures of the World	3
ANTH 205	Culture and Personality	3
ENVR 105**	Environmental Studies	3
or		
ENVR 107**	Environmental Science	4
HGEO 105**	Human Geography	3
HIST 107**	Contemporary World History	3
HIST 217**	Modern Latin American History (offered Fall only)	3
HIST 225**	History of Modern Asia (offered Spring only)	3
HIST 227**	Middle Eastern History (offered Spring only)	3

POLI 109	Current Global Topics	3
POLI 227	Comparative Politics	3
<b>Electives — 3 credits</b>		
BUSI 251***	Global Business	3

#### Study Abroad

Students are strongly encouraged to study in another country while earning credits towards their degree. The Brookdale Community College International Center will assist in placing students in a study-abroad program. It is recommended that students investigate the study-abroad option early in their course selection.

*\*Students with no prior language study are required to take two consecutive semesters of a modern language (6-8 credits). Students who can demonstrate proficiency at the upper elementary level (Completion of Level 2) can satisfy this requirement by appropriate documentation and counselor evaluation in conjunction with the Language Department. Students electing to take language courses beyond the required credits may apply them to General Education and/or Elective Requirements. Students who wish to pursue a major in international studies at a four-year school are advised that intermediate proficiency in a language is often required.*

*\*\* These General Education courses may be used to satisfy General Education requirements or career, but not both.*

*\*\*\*Recommended for students pursuing an international major in business. See your Student Development Specialist (counselor) to verify transferability.*

#### Credits required for degree: 60-62

#### Suggested Sequence – Social Sciences Program A.A. Degree International Studies Option

The following sequence is an example of how this degree can be completed in two years. This sequence is based on satisfaction of all Basic Skills requirements and prerequisites and presumes a Fall Term start date. An individual's program may vary depending on transfer institution, career objectives, or individual needs. See your counselor for other options and to monitor your progress.

Course Code	Credits	Course Code	Credits
<b>SEMESTER 1 – Fall Term</b>		<b>SEMESTER 2 – Spring Term</b>	
SOCI 105 <sup>(1)</sup>	3	Modern Language	3-4
Modern Language	3-4	ENGL 122	3
Mathematics/Science/Technological Competency or Information Literacy <sup>(2)</sup>	3-4	Humanities	3
ENGL 121	3	Social Sciences	3
Social Sciences	3	Mathematics <sup>(2)</sup>	3-4
	15-17		15-17
<b>SEMESTER 3 – Fall Term</b>		<b>SEMESTER 4 – Spring Term</b>	
Career Studies	3	Career Studies	3
SPCH 115	3	Science (with lab) <sup>(2)</sup>	4
Humanities	3	History	3
Mathematics or Science <sup>(2)</sup>	3-4	Humanities	3
History	3	Elective	3
	15-16		16

<sup>(1)</sup> One course is required from the Cultural & Global Awareness knowledge area. Students may meet the requirement while simultaneously fulfilling the General Education requirement for another knowledge area.

<sup>(2)</sup> A minimum of 12 credits are required from the Mathematics, Sciences or Technological Competency or Information Literacy knowledge areas.

# Journalism Option

## Humanities Program A.A. Degree

This option provides the writing skills and general studies necessary for transfer to a four-year college to prepare for various positions in writing and publishing, such as reporter, editor, researcher, special-interest writer, book reviewer. Skills learned in journalism are helpful for careers in advertising, law, public relations and business.

### Graduates of this program will be able to:

- ▶ Stay current on the ever-growing journalism industry and the convergence of various media types
- ▶ Explain how a story grows or changes depending upon the medium reporting the news
- ▶ Demonstrate an understanding of what constitutes good, fair and unbiased journalism and use critical thinking skills to determine when these standards are being violated
- ▶ Gather news and evaluate the credibility of news sources
- ▶ Perform basic interviewing techniques
- ▶ Follow a journalistic writing style, such as AP, to write impact-driven, concise and precise stories in a variety of formats, such as spot news, features, editorials, and reviews
- ▶ Analyze and synthesize notes and other sources to create unbiased news reports and well-argued critiques and editorials

### Requirements

General Education – 45 credits as described on page 50.

Career Studies – 6 credits as follows:

Code	Course	Credits
JOUR 101	Introduction to Journalism	3
JOUR 102	Journalism II	3

Career Studies – 6 credits from among the following:

COMM 101	Communication	3
COMM 102	Communication Media	3
COMM 115	Audio in Media	3
COMM 226	Digital Reporting	3
ENGL 127	Business Writing	3
ENGL 225	Technical Writing	3
HUMN 215	Propaganda and Critical Thinking	3
JOUR 295	Special Project – Journalism	1-6
JOUR 299	Journalism Internship	1-6
RDIO 101	Introduction to Radio	3
TELV 121	Television Production	3

Elective 3

### Degree Audit

Your progress toward your degree is available through WebAdvisor. Refer to page 23 for details.

### Credits required for degree: 60

#### Suggested Sequence – Humanities Program A.A. Degree Journalism Option

The following sequence is an example of how this degree can be completed in two years. This sequence is based on completion of all Basic Skills requirements and prerequisites and presumes a Fall Term start date. An individual's program may vary depending on transfer institution, career objectives, or individual needs. See your counselor for other options and to monitor your progress.

Course Code	Credits	Course Code	Credits
<b>SEMESTER 1 – Fall Term</b>		<b>SEMESTER 2 – Spring Term</b>	
JOUR 101	3	JOUR 102	3
Mathematics/Science/Technological Competency or Information Literacy <sup>(1)</sup>	3-4	ENGL 122	3
ENGL 121	3	Mathematics or Science <sup>(1)</sup>	3-4
Humanities	3	History	3
Mathematics <sup>(1)</sup>	3-4	Social Sciences	3
	15-17		15-16
<b>SEMESTER 3 – Fall Term</b>		<b>SEMESTER 4 – Spring Term</b>	
Career Studies	3	Career Studies	3
Humanities	3	Humanities	3
Science (with lab) <sup>(1)</sup>	4	Social Sciences	3
SPCH 115	3	Cultural & Global Awareness <sup>(2)</sup>	3
History	3	Electives	3
	16		15

<sup>(1)</sup> A minimum of 12 credits are required from the Mathematics, Sciences or Technological Competency or Information Literacy knowledge areas.

<sup>(2)</sup> One course is required from the Cultural & Global Awareness knowledge area. Students may meet the requirement while simultaneously fulfilling the General Education requirement for another knowledge area.

For additional information on transfer visit the Transfer Resources website at <http://transfer.brookdalecc.edu>

# Languages Option

## Humanities Program

### A.A. Degree

This option prepares students of Arabic, Chinese, French, German, Italian, Japanese, Russian or Spanish for transfer to a liberal arts program in foreign languages. Languages are assets to many careers, among which are foreign service, interpreting, international business, government, law enforcement, health professions, social services and education. A double major on the four-year level that combines language with any of these fields can be advantageous.

**Graduates of this program will be able to:**

- ▶ Speak, read and write in the language at the intermediate level
- ▶ Discuss and evaluate the culture, customs and current events of the countries where the language is spoken
- ▶ Interact with native speakers of the language

**Requirements**

General Education – 45 credits as described on page 50.

Career Studies – 12 credits from among the following, including at least one 200-level course:

Code	Course	Credits
ARAB 101*	Elementary Arabic I	4
ARAB 102**	Elementary Arabic II	4
CHNS 101*	Elementary Chinese I	4
CHNS 102**	Elementary Chinese II	4
FRCH 101	Elementary French I	4
FRCH 102	Elementary French II	4
FRCH 203*	Intermediate French I	3
FRCH 204**	Intermediate French II	3
FRCH 206	French Conversation & Composition I	3
FRCH 207	French Conversation & Composition II	3
GRMN 101*	Elementary German I	4
GRMN 102**	Elementary German II	4
GRMN 203*	Intermediate German I	3
GRMN 204**	Intermediate German II	3
ITAL 101	Elementary Italian I	4
ITAL 102	Elementary Italian II	4
ITAL 203	Intermediate Italian I	3
ITAL 204**	Intermediate Italian II	3

JPNS 101	Elementary Japanese I	4
JPNS 102	Elementary Japanese II	4
JPNS 203	Intermediate Japanese I	3
JPNS 204	Intermediate Japanese II	3
LANG 295	Special Project – Modern Language	1-6
RUSS 101*	Elementary Russian I	4
RUSS 102**	Elementary Russian II	4
SPAN 101	Elementary Spanish I	4
SPAN 102	Elementary Spanish II	4
SPAN 203	Intermediate Spanish I	3
SPAN 204	Intermediate Spanish II	3
SPAN 207	Spanish Conversation & Composition	3
SPAN 215	Contemporary Latin American Literature	3
SPAN 216	Spanish for Native and Near-Native Speakers	3
<b>Elective</b>		<b>3</b>

\*Offered Fall term only

\*\*Offered Spring term only

### Degree Audit

Your progress toward your degree is available through WebAdvisor. Refer to page 23 for details.

### Credits required for degree: 60

#### Suggested Sequence – Humanities Program

##### A.A. Degree

##### Languages Option

The following sequence is an example of how this degree can be completed in two years. This sequence is based on satisfaction of all Basic Skills requirements and prerequisites and presumes a Fall Term start date. An individual's program may vary depending on transfer institution, career objectives, or individual needs. See your counselor for other options and to monitor your progress.

Course Code	Credits	Course Code	Credits
<b>SEMESTER 1 – Fall Term</b>		<b>SEMESTER 2 – Spring Term</b>	
Career Studies	3-4	Career Studies	3-4
Mathematics/Science/Technological Competency or Information Literacy <sup>(1)</sup>	3-4	ENGL 122	3
ENGL 121	3	Mathematics or Science <sup>(1)</sup>	3-4
Humanities	3	History	3
Mathematics <sup>(1)</sup>	3-4	Social Sciences	3
	15-18		15-17
<b>SEMESTER 3 – Fall Term</b>		<b>SEMESTER 4 – Spring Term</b>	
Career Studies	3-4	Career Studies	3-4
SPCH 115	3	Cultural & Global Awareness <sup>(2)</sup>	3
Humanities	3	Social Sciences	3
Science (with lab) <sup>(1)</sup>	4	Humanities	3
History	3	Electives	3
	16-17		15-16

<sup>(1)</sup> A minimum of 12 credits are required from the Mathematics, Sciences or Technological Competency or Information Literacy knowledge areas.

<sup>(2)</sup> One course is required from the Cultural & Global Awareness knowledge area. Students may meet the requirement while simultaneously fulfilling the General Education requirement for another knowledge area.

**For-additional information on transfer visit the Transfer Resources website at <http://transfer.brookdalecc.edu>**

# Liberal Education Option

## Humanities Program A.A. Degree

This option is designed for the student who is planning to transfer to a four-year institution and for the student who desires two years of collegiate liberal education. There is considerable freedom in course selection. Aptitude and interest testing is available from a counselor to help the student make a career choice.

Graduates of this program will be able to:

- ▶ Research and write college level reports and papers
- ▶ Create original works that adhere to a variety of aesthetic principles
- ▶ Demonstrate an appreciation for the arts and humanities
- ▶ Apply fundamental concepts about the theories, social effects and terminology of communication

### Requirements

General Education – 45 credits as described on page 50.

Career Studies – 12 credits from selected courses in Art, Graphic Design, Communications Media, Dance, English, Journalism, Languages, Music, Speech and Theater.

Elective 3

### Degree Audit

Your progress toward your degree is available through WebAdvisor. Refer to page 23 for details.

**This degree program may also be completed online. Students may choose to take some or all of their courses online. For more information call 732-224-2089.**

### BACHELOR'S THROUGH BROOKDALE

This is a preferred Associate degree for students planning to pursue a Bachelor's degree in Liberal and Labor Studies at Brookdale's New Jersey Coastal Communiversy. For program details and transfer information, students should talk to their Student Development Specialist or call the Communiversy at 732-280-2090.

### Credits required for degree: 60

#### Suggested Sequence – Humanities Program A.A. Degree Liberal Education Option

The following sequence is an example of how this degree can be completed in two years. This sequence is based on completion of all Basic Skills requirements and prerequisites and presumes a Fall Term start date. An individual's program may vary depending on transfer institution, career objectives, or individual needs. See your counselor for other options and to monitor your progress.

Course Code	Credits	Course Code	Credits
<b>SEMESTER 1 – Fall Term</b>		<b>SEMESTER 2 – Spring Term</b>	
Career Studies	3	Career Studies	3
Mathematics/Science/Technological Competency or Information Literacy <sup>(1)</sup>	0-4	ENGL 122	3
ENGL 121	3	Mathematics or Science <sup>(1)</sup>	3-4
Humanities	3	History	3
Mathematics <sup>(1)</sup>	3-4	Social Sciences	3
	14-17		15-16
<b>SEMESTER 3 – Fall Term</b>		<b>SEMESTER 4 – Spring Term</b>	
Career Studies	3	Career Studies	3
Communications	3	Cultural & Global Awareness <sup>(2)</sup>	3
Humanities	3	Humanities	3
Science (with lab) <sup>(1)</sup>	4	Social Sciences	3
History	3	Electives	3
	16		15

<sup>(1)</sup> A minimum of 12 credits are required from the Mathematics, Sciences or Technological Competency or Information Literacy knowledge areas.

<sup>(2)</sup> One course is required from the Cultural & Global Awareness knowledge area. Students may meet the requirement while simultaneously fulfilling the General Education requirement for another knowledge area.

For additional information on transfer visit the Transfer Resources website at <http://transfer.brookdalecc.edu>

# Liberal Studies Transfer Academic Credit Certificate

The Liberal Studies Transfer Academic Credit Certificate is designed for students who plan to transfer to another school after only a short time at Brookdale Community College. This program outlines a one-year program of study designed to enable students to tailor their program to meet the admissions requirements of any four year institution, public or private, in-state or out-of-state. Students who have earned 30 transferable credits at Brookdale may apply to most four year institutions and be evaluated solely on their college record. Students whose SAT scores and/or high school records did not meet freshman entrance requirements have a second opportunity to be admitted to competitive colleges based on their college performance only.

This Certificate provides a general education foundation with general education course choices that will transfer to meet the general education requirements of most colleges and universities. Your Student Development Specialist (Counselor) will help you select the best courses for the college you wish to transfer to. The NJ Transfer website at [www.njtransfer.org](http://www.njtransfer.org) provides information on which courses will meet general education requirements at participating New Jersey colleges and universities. Students selecting this certificate should be aware that completing an Associates degree in a transfer program may increase the transferability of coursework and opportunities for scholarships. Students who complete this Certificate Program may declare a major and continue to earn an Associates degree in a transfer program. See your Student Development Specialist for additional information.

Graduates of this certificate program will be able to:

- ▶ Research and write college level reports and papers
- ▶ Use social science theories and concepts to analyze human behavior and social and political institutions and to act as responsible citizens
- ▶ Analyze works in the humanities

**For-additional information on transfer visit the Transfer Resources website at <http://transfer.brookdalecc.edu>**

General Education - 30 Credits as follows

General Education Knowledge Areas	Transfer Certificate GE Knowledge Area Requirements		Maximum Number of Credits for GE Knowledge Area
Communications (C) credits	ENGL 121 English Composition; The Writing Process	6	9
	ENGL 122 English Composition; Writing & Research		
Humanities (HU)	3	3	9
Social Sciences (SS)	3		6
Mathematics (M)	3**		8
Sciences (SC)			8
Technological or Information Literacy Competency (IT)			4
History (HI)			6
*Cultural and Global Awareness (CG)			3
Ethical Dimension (E)	0		0
Additional Credits from any category not to exceed Category Maximums	12**		
<b>Total Credits</b>	<b>30</b>		

*\*It is recommended that students complete a Cultural and Global Awareness (CG) course.  
\*\*It is recommended that students take a college level Mathematics course. Students should consult a counselor.*

**Degree Audit**

Your progress toward your degree is available through WebAdvisor. Refer to page 23 for details.

### Suggested Sequence – Liberal Studies Transfer Academic Credit Certificate

The following sequence is an example of how this degree can be completed in one year. This sequence is based on satisfaction of all Basic Skills requirements and prerequisites and presumes a Fall Term start date. An individual's program may vary depending on transfer institution, career objectives, or individual needs. See your counselor for other options and to monitor your progress.

Course Code	Credits	Course Code	Credits
<b>SEMESTER 1 – Fall Term</b>		<b>SEMESTER 2 – Spring Term</b>	
ENGL 121	3	ENGL 122	3
Humanities	3	Social Sciences	3
Mathematics or Science or Technological or Information Literacy <sup>(1)</sup>	3	Humanities or Social Sciences	3
General Education <sup>(2)</sup>	3	General Education	3
General Education	3	General Education	3
	15		15

<sup>(1)</sup> College level Mathematics course is recommended.  
<sup>(2)</sup> Course is recommended from the Cultural and Global Awareness knowledge area.

# Marketing Program A.A.S. Degree

Students who wish to pursue a career in a marketing-related field such as sales, research analyst, retail buying, merchandise distribution, purchasing, advertising and management training should choose this program. While this program is not specifically designed for transfer, many courses prove to be transferable. Students should work with counselors to satisfy requirements for major career areas.

## Graduates of this program will be able to:

- ▶ Analyze marketing mix variables and environments
- ▶ Recognize problems and design research projects aimed at solution
- ▶ Develop promotional strategy within its social, ethical, and regulatory confines
- ▶ Evaluate the merchandising practices of differing retail establishments, analyze both layout and display strategies
- ▶ Design presentation applying accepted sales strategies
- ▶ Differentiate and analyze marketing strategies, appraising the success or failure of such strategies, and articulate conclusion

## Requirements

General Education – 20 credits as described on page 50.

The following general education courses, while not required, are recommended for students choosing this program.

Code	Course	Credits
ENGL 121	English Composition: The Writing Process	3
SPCH 115	Public Speaking	3
<b>Career Studies – 21-22 credits as follows:</b>		
BUSI 105	Introduction to Business	3
COMP 129	Information Technology OR	3
BUSI 165	Computer Applications in Business OR	3
OADM 116	Microsoft Office	4
MRKT 101	Introduction to Marketing	3
MRKT 105	Advertising	3
MRKT 111	Fundamentals of Retailing	3
MRKT 145	Salesmanship	3
*MRKT 202	Marketing in Contemporary Society	3

\*Courses offered only during the Spring term

Career Studies – 9-10 credits from among the following:

BUSI 205	Principles of Management	3
BUSI 221	Business Law I	3
COMP 105	Introduction to the Internet	1
ECON 105	Macro Economics	3
ECON 106	Micro Economics	3
ECON 225	Business Statistics	3
FASH 121	Fashion Merchandising	3
FASH 213	Buying	3
FASH 224	Case Studies and Executive Development in Fashion Merchandising	3

**Electives** **9-10**

## Degree Audit

Your progress toward your degree is available through WebAdvisor. Refer to page 23 for details.

## Credits required for degree: 60

### Suggested Sequence – Marketing Program A.A.S. Degree

The following sequence is an example of how this degree can be completed in two years. This sequence is based on satisfaction of all Basic Skills requirements and prerequisites and presumes a Fall Term start date. An individual's program may vary depending on transfer institution, career objectives, or individual needs. See your counselor for other options and to monitor your progress.

Course Code	Credits	Course Code	Credits
<b>SEMESTER 1 – Fall Term</b>		<b>SEMESTER 2 – Spring Term</b>	
MRKT 101	3	MRKT 111	3
ENGL 121	3	BUSI 105	3
Social Science	3	SPCH 115	3
General Education <sup>(1)</sup>	3	Humanities	3
Elective	3	BUSI 165 or COMP 129 or OADM 116	3-4
	15		15-16
<b>SEMESTER 3 – Fall Term</b>		<b>SEMESTER 4 – Spring Term</b>	
MRKT 105	3	*MRKT 202	3
Career Studies	6	MRKT 145	3
Mathematics or Science or Technological or Information Literacy	3-4	Career Studies	3-4
Elective	3	General Education	3
	15-16	Elective	3
			15-16

\*Courses offered only during the Spring term

<sup>(1)</sup>One course is recommended from the Cultural & Global Awareness knowledge area.

# Mathematics Option

## Mathematics/Science Program A.S. Degree

Students wishing, upon acquisition of a Bachelor's degree, to enter such positions as mathematician, statistician, stock or financial analyst, economist, or researcher should choose this transfer option which combines mathematics with liberal studies.

### Graduates of this program will be able to:

- ▶ Define and explain basic concepts and theories of differential and integral calculus
- ▶ Identify strategies for solving application problems using derivatives and integrals, and correctly solve these problems
- ▶ Apply the appropriate mathematical skills to find derivatives and integrals
- ▶ Communicate about mathematics problems, explain methods to solve the problems, and interpret results in the context of the problems
- ▶ Use mathematical software to apply concepts and solve problems

### Requirements

General Education – 30 credits as described on page 50.

The following general education courses are recommended for students choosing this program.

Code	Course	Credits
ENGL 121	English Composition: The Writing Process	3
ENGL 122	English Composition: Writing and Research	3
MATH 131	Statistics	4

**\*\*Career Studies – 20 or 22 credits as follows:**

MATH 171	Calculus I	4
MATH 172	Calculus II	4
MATH 273	Calculus III	4
*PHYS 121	General Physics I	4
*PHYS 122	General Physics II	4

*\*The above Physics sequence is highly recommended. However, subject to counselor approval, students may substitute the BIOL 101/102 sequence or the CHEM 101/102 sequence.*

**\*\*Career Studies – 3 or 4 credits from among the following:**

MATH 226	Discrete Mathematics	4
MATH 274	Elementary Differential Equations	4
MATH 285	Linear Algebra	3

**Electives – 4 to 7 credits. One of the following courses is highly recommended, or a course may be selected from Career Studies above:**

COMP 137	Programming for Engineers	3
	OR	
COMP 132	Structured Programming Using C++	3
	OR	
COMP 171	Programming I	3

*\*\*All career studies courses must be passed with a grade of "C" or higher.*

### Credits required for degree: 60

#### Suggested Sequence – Mathematics/Science Program A.S. Degree Mathematics Option

The following sequence is an example of how this degree can be completed in two years. This sequence is based on satisfaction of all Basic Skills requirements and \*prerequisites and presumes a Fall Term start date. An individual's program may vary depending on transfer institution, career objectives, or individual needs. See your counselor for other options and to monitor your progress.

Course Code	Credits	Course Code	Credits
<b>SEMESTER 1 – Fall Term</b>		<b>SEMESTER 2 – Spring Term</b>	
MATH 171*	4	MATH 172	4
ENGL 121	3	**PHYS 121	4
Humanities	3	ENGL 122	3
Mathematics <sup>(1)</sup>	4	Science (with lab) <sup>(1)</sup>	4
	14		15
<b>SEMESTER 3 – Fall Term</b>		<b>SEMESTER 4 – Spring Term</b>	
MATH 273	4	***Career Studies	3-4
PHYS 122	4	Mathematics or Science or	3-4
Humanities or Social Science	3	Technological or Info Literacy <sup>(1)</sup>	
Social Sciences	3	General Education <sup>(2)</sup>	4
Elective	3	Elective	4
	17		14-16

\*MATH 151, MATH 152 and/or MATH 153 may be required if prerequisites for MATH 171 are not satisfied.

\*\*The Physics sequence is highly recommended. However, subject to counselor approval, students may substitute the BIOL 101/102 sequence or the CHEM 101/102 sequence.

\*\*\*Take one of the following courses: MATH 274 (offered in Spring and Summer 2 terms), MATH 226 (offered only in the Summer 2 term) or MATH 285 (offered only in Summer 2 term). It is strongly advised that students taking MATH 274 have had Physics.

<sup>(1)</sup> A minimum of 9 credits are required from the Mathematics, Sciences or Technological or Information Literacy categories.

<sup>(2)</sup> One course is recommended from the Cultural and Global Awareness knowledge area.

### Degree Audit

Your progress toward your degree is available through WebAdvisor. Refer to page 23 for details.

**For additional information on transfer visit the Transfer Resources website at <http://transfer.brookdalecc.edu>**

# Media Studies Option

## Humanities Program A.A. Degree

Students who wish to transfer to four-year communications degree programs should choose this option. Mass media theory and production courses are coupled with liberal arts. Four-year graduates may enter such positions as television producer/director, corporate communications specialist, media specialist and communication researcher/analyst.

Graduates of this program will be able to:

- ▶ Apply basic concepts about the history, theories, social effects, terminology and aesthetics of communication
- ▶ Apply concepts to the analysis of media content
- ▶ Investigate and synthesize information on topics and questions related to course concepts
- ▶ Demonstrate basic knowledge of related video and audio recording and editing equipment

### Requirements

General Education – 45 credits as described on page 50.

Career Studies – 6 credits as follows: s

Code	Course	Credits
COMM 101	Communication	3
COMM 102	Communication Media	3

Career Studies – 6 credits from the following:

Code	Course	Credits
<b>THEORY</b>		
CINE 105	Film Appreciation: Motion Picture/Art	3
TELV 115	TV: Aesthetics and Analysis	3
JOUR 101	Introduction to Journalism	3
RDIO 101	Introduction to Radio	3

### VIDEO PRODUCTION

TELV 121	Television Production	3
TELV 122	Digital Video Production	3

### AUDIO RECORDING

COMM 115	Audio in Media	3
COMM 216*	Advanced Digital Recording/Musical Recording	3

### RADIO

RDIO 101	Introduction to Radio	3
COMM 226	Digital Reporting	3

### Elective

3

\*Offered Spring term only

### Degree Audit

Your progress toward your degree is available through WebAdvisor. Refer to page 23 for details.

## Credits required for degree: 60

### Suggested Sequence – Humanities Program A.A. Degree Media Studies Option

The following sequence is an example of how this degree can be completed in two years. This sequence is based on satisfaction of all Basic Skills requirements and prerequisites and presumes a Fall Term start date. An individual's program may vary depending on transfer institution, career objectives, or individual needs. See your counselor for other options and to monitor your progress.

Course Code	Credits	Course Code	Credits
<b>SEMESTER 1 – Fall Term</b>		<b>SEMESTER 2 – Spring Term</b>	
COMM 101	3	COMM 102	3
Mathematics/Science/Technological Competency or Information Literacy <sup>(1)</sup>	3-4	ENGL 122	3
ENGL 121	3	Mathematics or Science <sup>(1)</sup>	3-4
Humanities	3	History	3
Mathematics <sup>(1)</sup>	3-4	Social Sciences	3
	15-17		15-16
<b>SEMESTER 3 – Fall Term</b>		<b>SEMESTER 4 – Spring Term</b>	
Career Studies	3	Career Studies	3
Humanities	3	Humanities	3
Science (with lab) <sup>(1)</sup>	4	Social Sciences	3
SPCH 115	3	Cultural & Global Awareness <sup>(2)</sup>	3
History	3	Elective	3
	16		15

<sup>(1)</sup> A minimum of 12 credits are required from the Mathematics, Sciences or Technological Competency or Information Literacy knowledge areas.

<sup>(2)</sup> One course is required from the Cultural & Global Awareness knowledge area. Students may meet the requirement while simultaneously fulfilling the General Education requirement for another knowledge area.

For additional information on transfer visit the Transfer Resources website at <http://transfer.brookdalecc.edu>

# Medical Laboratory Technology A.A.S. Degree

This program prepares students for entry level positions as medical laboratory technicians. Students will work with a variety of specimens including blood, urine, and other body fluids and tissues. They will learn to perform laboratory techniques and methodologies and how to apply them to patient specimens and clinical needs. Students will demonstrate knowledge of how to interpret the tests and procedures to provide information that will help detect, diagnose, and treat disease. Clinical experiences are required of all students.

Medical laboratory scientists are critical members of the health care team. Graduates are employed by hospitals, pharmaceutical companies, research labs, physicians and in community based medical laboratories. Upon completion of the program the student will be eligible to sit for the national certification exam administered by the American Society of Clinical Pathology (ASCP), 33 West Monroe Street, Suite 1600, Chicago, Illinois, 60603, (312) 541-4999.

Specific admission criteria for the program are outlined in the college catalog. Separate policies exist for the Medical Laboratory Technology program, including grading. These policies can be found in the Medical Laboratory Technology Handbook.

All MDLT courses will be taken at Meridian Health.

### Graduates of this program will be able to:

- ▶ Assess, analyze, implement and evaluate laboratory tests and results, incorporating measures of quality assurance
- ▶ Utilize critical thinking as a framework for decision making, analyzing information and solutions and solving problems
- ▶ Practice effective communication skills with clients, and members of the health care team
- ▶ Demonstrate legal and ethical accountability for professional practice
- ▶ Incorporate principles from social sciences, biological sciences, and humanities into the practice of a medical laboratory technician
- ▶ Practice within the limits of a nationally certified medical laboratory technician

### Requirements

#### General Education – 24 credits as follows:

Code	Course	Credits
BIOL 111	Anatomy & Physiology I	4
BIOL 112	Anatomy & Physiology II	4
ENGL 121	English Composition: Writing Process	3
ENGL 122	English Composition: Writing & Research OR	3
SPCH 115	Public Speaking	3
PSYC 106	Introduction to Psychology II	3
MATH 131	Statistics	4
	Humanities	3

#### Career Studies – 48 credits as follows:

BIOL 213	Microbiology	4
CHEM 136	Introduction to Inorganic, Organic and Biological Chemistry	4
MDLT 151	Clinical Microbiology I	3
MDLT 152	Clinical Hematology I and Phlebotomy	4

MDLT 153	Clinical Chemistry I	3
MDLT 154	Immunoematology I	3
MDLT 251	Clinical Microbiology II and Immunology	4
MDLT 252	Clinical Hematology II	3
MDLT 253	Clinical Chemistry II and Urine	4
MDLT 254	Immunoematology II	3
MDLT 261	Clinical Microbiology III	3
MDLT 262	Clinical Hematology III	3
MDLT 263	Clinical Chemistry III	3
MDLT 264	Clinical Management, Education and Research	2
MDLT 265	Hemostasis	2

### Degree Audit

Your progress toward your degree is available through WebAdvisor. Refer to page 23 for details.

### Credits required for degree: 72

#### Suggested Sequence – Medical Laboratory Technology Program A.A.S.

The following sequence is an example of how this degree can be completed in two years. This sequence is based on satisfaction of all Basic Skills requirements and prerequisites and presumes a Fall Term start date. An individual's program may vary depending on transfer institution, career objectives, or individual needs. Students must satisfy specific requirements in order to be admitted to this program. See Admission to Health Sciences Programs page 15 in the catalog.

Course Code	Credits	Course Code	Credits
<b>SEMESTER 1 Fall term</b>		<b>SEMESTER 2 Spring term</b>	
BIOL 111	4	BIOL 112	4
CHEM 136	4	MATH 131	4
PSYC 106	3	Humanities <sup>(1)</sup>	3
ENGL 121	3	ENGL 122 or SPCH 115	3
	14		14

#### SUMMER TERM

BIOL 213	4
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Semester 3, 4 and 5 for this program are offered in one academic year from September 1 through July 30.

Course Code	Credits	Course Code	Credits
<b>SEMESTER 3</b>		<b>SEMESTER 4</b>	
MDLT 151	3	MDLT 251	4
MDLT 152	4	MDLT 252	3
MDLT 153	3	MDLT 253	4
MDLT 154	3	MDLT 254	3
	13		14
<b>SEMESTER 5</b>			
MDLT 261	3		
MDLT 262	3		
MDLT 263	3		
MDLT 264	2		
MDLT 265	2		
	13		

<sup>(1)</sup> One course is recommended from the Cultural & Global Awareness knowledge area.

# Music Option

## Humanities Program

### A.A. Degree

Students in this option should take music and music theory courses, coupled with the liberal arts studies necessary for transfer to a four-year college.

Graduates of this program will be able to:

- ▶ Demonstrate technical and artistic technique in their major instrument
- ▶ Perform in student recitals and in other Brookdale events such as classroom demonstrations, music club lectures and events off campus
- ▶ Demonstrate the artistic development and technical skills required of a complete creative artist

#### Requirements

General Education – 45 credits as described on page 50.

Career Studies – 12 credits:

Career Studies – 6 to 9 credits as follows:

Code	Course	Credits
MUSI 101	Fundamentals of Music	3
	OR	
MUSI 102	Comprehensive Musicianship I (based on placement test)	3
MUSI 103**	Ear Training	3
MUPF 101	Group Piano I or successful completion of placement test	3

Career Studies – 3 to 6 credits from among the following:

Code	Course	Credits
<b>GENERAL MUSIC</b>		
MUSI 102	Comprehensive Musicianship I	3
MUSI 115	Music Appreciation	3
MUSI 116	History of Jazz	3
MUSI 121**	Song Writing	3
MUSI 122	Commercial Composition II	3
MUSI 123*	Music Technology I	3
MUSI 201	Comprehensive Musicianship II	3
MUSI 221**	Music Technology II	3

#### PIANO

MUPF 102	Group Piano II	3
MUPF 103	Group Piano III	3
MUPF 201	Group Piano IV	3
MUPF 202	Group Piano V	3
MUPF 203	Group Piano VI	3

#### VOICE

MUPF 111	Voice I	3
MUPF 112	Voice II	3
MUPF 211	Voice III	3
MUPF 212	Voice IV	3

#### GUITAR/INSTRUMENTAL

MUPF 121	Jazz Ensemble I	3
MUPF 122	Jazz Ensemble II	3
MUPF 131	Group Guitar I	3
MUPF 132	Group Guitar II	3

#### Elective

3

\*\*Offered Fall term only

\*\*Offered Spring term only

### Credits required for degree: 60

#### Suggested Sequence – Humanities Program A.A. Degree Music Option

The following sequence is an example of how this degree can be completed in two years. This sequence is based on satisfaction of all Basic Skills requirements and prerequisites and presumes a Fall Term start date. An individual's program may vary depending on transfer institution, career objectives, or individual needs. See your counselor for other options and to monitor your progress.

Course Code	Credits	Course Code	Credits
<b>SEMESTER 1 – Fall Term</b>		<b>SEMESTER 2 – Spring Term</b>	
Career Studies	3	Career Studies	3
Mathematics/Science/Technological Competency or Information Literacy <sup>(1)</sup>	3-4	ENGL 122	3
ENGL 121	3	Mathematics or Science <sup>(1)</sup>	3-4
Humanities	3	History	3
Mathematics <sup>(1)</sup>	3-4	Social Sciences	3
	15-17		15-16
<b>SEMESTER 3 – Fall Term</b>		<b>SEMESTER 4 – Spring Term</b>	
Career Studies	3	Career Studies	3
Humanities	3	Cultural & Global Awareness <sup>(2)</sup>	3
Science (with lab) <sup>(1)</sup>	4	Humanities	3
SPCH 115	3	Social Sciences	3
History	3	Elective	3
	16		15

<sup>(1)</sup> A minimum of 12 credits are required from the Mathematics, Sciences or Technological Competency or Information Literacy knowledge areas.

<sup>(2)</sup> One course is required from the Cultural & Global Awareness knowledge area. Students may meet the requirement while simultaneously fulfilling the General Education requirement for another knowledge area.

#### Degree Audit

Your progress toward your degree is available through WebAdvisor. Refer to page 23 for details.

For additional information on transfer visit the Transfer Resources website at <http://transfer.brookdalecc.edu>

# Music Technology A.A.S. Degree

This innovative program in Music Technology provides students with the skills and expertise necessary to enter the field of computer-generated music. The curriculum provides a complete education in the software used in the digital music industry such as ProTools®, Digidesign®, Finale® and NOTION Music®. Graduates of this program will have the skills and expertise necessary to obtain employment in music preparation, orchestration, recording, performance and the video-gaming industry.

**Graduates of this program will be able to:**

- ▶ Examine the theoretical, historical, and technological perspectives required to create and perform music
- ▶ Apply the fundamentals of music theory and principles
- ▶ Utilize industry-standard equipment and applications for the production of music and multimedia

**Requirements**

General Education – 20 credits as described on page 50.

The following general education course is recommended for students choosing this program:

Code	Course	Credits
<b>Humanities:</b>		
MUSI 115	Theater Appreciation OR	3
THTR 135	Musical Theater	3

**Career Studies – 30-36 credits as follows:**

MUSI 101*	Fundamentals of Music	3
MUPF 101*	Group Piano I	3
MUTC 101	Pro Tools® I	3
MUTC 102	Pro Tools® II	3
MUTC 201	Pro Tools® III	3
MUTC 202	Pro Tools® IV	3
MUTC 111	Finale® I	3
MUTC 112	Finale® II	3
MUTC 211	Finale® III	3
MUTC 212	Finale® IV	3
MUTC 105	Introduction to NOTION Music®	3
MUTC 205	Advanced NOTION Music®	3

**Elective:** 4-10

**Recommended:**  
MUSI 103 Ear Training 3

*\*Students with no prior music study are required to take MUSI 101 and MUPF 101. Students with the requisite music skills will have an opportunity to take a placement test. Students who are not required to take MUSI 101 and MUPF 101 are required to take elective credits to complete the 60-credit degree requirement.*

**Degree Audit**

Your progress toward your degree is available through WebAdvisor. Refer to page 23 for details.

**Credits required for degree: 60**

**Suggested Sequence – Music Technology A.A.S.**

The following sequence is an example of how this degree may be completed in two years. This sequence is based on satisfaction of all Basic Skills requirements and prerequisites and presumes a Fall Term start date. An individual's program may vary depending on transfer institution, career objectives, or individual needs. See your counselor for other options and to monitor your progress.

**Prerequisites:**

Students with no prior music study are required to take the following prerequisite courses before taking MUTC 101, MUTC 105 or MUTC 111. Students with the requisite music skills will have an opportunity to take placement tests.

Course Code	Credits	Course Code	Credits
MUSI 101	3	MUPF 101	3
<b>SEMESTER 1 – Fall Term</b>		<b>SEMESTER 2 – Spring Term</b>	
MUTC 101	3	MUTC 102	3
MUTC 111	3	MUTC 112	3
ENGL 121	3	ENGL 122 or SPCH 115	3
General Education	3	Mathematics or Science or Technological or Info Literacy	3-4
Elective	0-3	Elective	3
	12-15		15-16
<b>SEMESTER 3 – Fall Term</b>		<b>SEMESTER 4 – Spring Term</b>	
MUTC 201	3	MUTC 202	3
MUTC 211	3	MUTC 212	3
MUTC 105	3	MUTC 205	3
Humanities or Social Science	3	General Education <sup>(1)</sup>	5-6
Elective	0-4		
	12-16		14-15

<sup>(1)</sup> One course is recommended from the Cultural & Global Awareness knowledge area.

# Network Information Technology A.A.S.

The network information technology program prepares students as LAN and WAN network administrators. Successful completion of the program provides students with the essential skills of networking (TCP/IP, Routing, Switching, Wireless, Security, and PC Repair and Maintenance). Students will design, install, configure, maintain, optimize, and troubleshoot networks using a variety of network operating systems (Windows, Linux, and Mac OS X), vendor tools (Microsoft®, Cisco®, Juniper Networks® and Foundry®) and hardware platforms and protocols. Upon completion of the program, students are prepared for numerous computer related certification exams.

**Graduates of this program will be able to:**

- ▶ Install, configure, and troubleshoot network operating systems
- ▶ Configure, maintain, troubleshoot, & secure routers, switches, and other networking hardware
- ▶ Evaluate current and emerging technologies and assess their applicability to address the users' needs
- ▶ Solve problems individually and in a team environment
- ▶ Communicate effectively with clients, users and peers both verbally and in writing
- ▶ Understand the impact of technology on individuals, organizations and society, including ethical, legal, security and global policy issues.

**Requirements**

General Education – 20 Credits as described on page 50.

**Career Studies – 41 credits as follows:**

NETW 106	Introduction to Networking	3
NETW 107	Introduction to Security	3
NETW 110	Introduction to UNIX Network Administration	3
NETW 111	UNIX Network Administration II	4
NETW 125	Introduction to Wireless	3
NETW 151	Router Internetworking/CCNA	6
NETW 152	Virtual LANs and WANs/CCNA	6
NETW 190	MCTS Guide to Windows Vista	3
NETW 191	MCSE Managing and Maintaining a Microsoft Windows Server	3
NETW 253	Juniper Network Routers	3
ELEC 243	Mini/Microcomputer Interfacing	4

**Degree Audit**

Your progress toward your degree is available through WebAdvisor. Refer to page 23 for details.

**Credits required for degree: 61**

**Suggested Sequence – Network Information Technology A.A.S.**

The following sequence is an example of how this degree can be completed in two years. This sequence is based on satisfaction of all Basic Skills requirements and prerequisites and presumes a Fall Term start date. An individual's program may vary depending on transfer institution, career objectives, or individual needs. See your counselor for other options and to monitor your progress.

Course Code	Credits	Course Code	Credits
<b>SEMESTER 1 – Fall Term</b>		<b>SEMESTER 2 – Spring Term</b>	
NETW 106	3	NETW 125	3
NETW 107	3	NETW 191	3
NETW 190	3	ELEC 243	4
ENGL 121	3	Communications	3
Mathematics or Science or Technological or Info Literacy	3-4	Social Sciences	3
	15-16		16
<b>SEMESTER 3 – Fall Term</b>		<b>SEMESTER 4 – Spring Term</b>	
NETW 110	3	NETW 111	4
NETW 151	6	NETW 152	6
Humanities	3	NETW 253	3
General Education <sup>(1)</sup>	3	General Education	3
	15		16

NOTE: Students may find it advisable to take some of the General Education courses during the summer. After the Spring term of the first year, students may be ready to begin taking the Microsoft MCSE Certification Exams. After the Spring term of the second year, students may be ready to take the A+ and Network+ certification exams.

<sup>(1)</sup> One course is recommended from the Cultural & Global Awareness knowledge area.

### Computer LAN/WAN Technician Academic Credit Certificate/CCNA

Combines A+ with Networking. At the conclusion, students could sit for the following certifications:

- A+
- Network+
- CCNA

Graduates of this certificate program will be able to:

- ▶ Demonstrate the fundamental concepts of computer networking and converged networks such as voice, wireless and videos as well as the function of network devices and the limitation of the network media and apply the principles to the design of basic networks
- ▶ Propose a network topology and an addressing scheme for a given network design scenario
- ▶ Demonstrate the ability to assemble and test network cables and use them appropriately to interconnect networking devices
- ▶ Perform router configurations, IOS management, distant vector and link state routing protocol configuration as well as ACL configuration and assignments
- ▶ Demonstrate knowledge of VLSM, Ethernet switch configurations, IOS management, VLAN, STP (Spanning Tree protocol) and RSTP (Rapid Spanning Tree protocol)
- ▶ Understand the protocols used to connect remote sites over a wide area network, as well as selecting the appropriate technologies for WAN interconnections based on available resources and information
- ▶ Propose private addressing implementations using Network Address Translation or equivalent solutions such as Port Address Translation

#### Requirements

General Education – 6 credits required.

Code	Course	Credits
<b>Required:</b>		
ENGL 121	English Composition: The Writing Process	3
<b>Recommended:</b>		
SPCH 115	Public Speaking	3

Career Studies — 24 credits as follows:

ELEC 103	Electrical Skills and Techniques	4
NETW 151	Router Internetworking/CCNA	6
NETW 152	Virtual LANs and WANs/CCNA	6
ELEC 243	Mini/Microcomputer Interfacing	4
ELEC 244	Peripheral and Data Communications	4

**Total Credits** **30**

### CISCO CCNA Certification

This option is designed for those who wish to learn how to design, install, and configure LANs, Virtual LANs, and WANs. After successful completion of this Certification Option, the student will have learned all the material, and configured Cisco routers and switches in preparation for taking the CCNA Certification exam. The student will also have learned most of the material necessary to take the Network+ exam.

- CCNA

#### Requirements

NETW 151	Router Internetworking/CCNA	6
NETW 152	Virtual LANs and WANs/CCNA	6

**Total Credits** **12**

### Degree Audit

Your progress toward your degree is available through WebAdvisor. Refer to page 23 for details.

# Nursing Program

## A.A.S. Degree

This program prepares the student for entry-level nursing positions in hospitals or comparable facilities. Clinical learning experiences are required for all courses. Upon completion of the program, students are eligible to sit for the National Council Licensing Exam for Registered Nursing. Successful completion of this examination results in licensure as a Registered Nurse (RN).

This program is accredited by the State Board of Nursing, Department of Law & Public Safety Division of Consumer Affairs, 124 Halsey Street, Sixth Floor, Newark, New Jersey 07101, (973) 504-6403, and by the National League for Nursing Accrediting Commission, 61 Broadway, New York, New York 10006-2701, (212) 363-5555, extension 153.

Specific admission criteria for the program are outlined on page 15 of this catalog. Separate policies exist for the Nursing Program, including grading. These policies can be found in the Nursing Student Handbook.

Graduates of this program will be able to:

- ▶ Practice holistic patient centered nursing care using human needs as a framework
- ▶ Use critical thinking and self-reflection to guide clinical decision making in the implementation of the nursing process
- ▶ Communicate and collaborate effectively with clients, groups, and members of the health care team incorporating the use of current technology
- ▶ Coordinate and manage care for diverse individuals and groups in various care environments
- ▶ Demonstrate a commitment to the profession of nursing and demonstrate legal and ethical accountability for safe professional practice
- ▶ Synthesize knowledge from nursing and other disciplines to promote health through evidence-based practice

### Degree Audit

Your progress toward your degree is available through WebAdvisor. Refer to page 23 for details.

### Requirements

General Education – 26 credits as follows

Code	Course	Credits
BIOL 111	Anatomy and Physiology I	4
BIOL 112	Anatomy and Physiology II	4
ENGL 121	English Composition The Writing Process	3
ENGL 122	English Composition Writing and Research OR	3
SPCH 115	Public Speaking	3
PSYC 106	Introduction to Psychology II	3
PSYC 208	Life Span Development Humanities	3
SOCI 101	Principles of Sociology OR	3
ANTH 105	Cultural Anthropology	3
<b>Career Studies – 43 credits as follows:</b>		
BIOL 213	Microbiology	4
NURS 160	Introduction to Human Needs	3
NURS 161	Nursing and Human Needs I	7
NURS 162	Nursing and Human Needs II	8
NURS 163	Nursing and Human Needs in the Community	2
NURS 165 (E)	Issues in Nursing	2
NURS 261	Nursing and Human Needs III	8
NURS 262	Nursing and Human Needs IV	6
NURS 263	Managing and Coordinating Nursing Care	3
Electives		3

### Advanced Placement in Nursing

There is a process in place for advanced placement for practical nurses who hold a current New Jersey license. The Health Science Administrator may be contacted for more information.

### Bachelor's Through Brookdale

Students may pursue a Bachelor's degree in Nursing at Brookdale's New Jersey Coastal Communiiversity. For program details and transfer information, students should talk to their Student Development Specialist or call the Communiiversity at 732-280-2090.

### Credits required for degree: 72

### Suggested Sequence – Nursing A.A.S. Program Degree

The following sequence is an example of how this degree can be completed. This sequence is based on satisfaction of all Basic Skills requirements and prerequisites and presumes a Fall Term start date. An individual's program may vary depending on transfer institution, career objectives, or individual needs. See your counselor for other options and to monitor your progress. Students must satisfy specific requirements in order to be admitted to this program. See Admission to Health Science Programs, page 15 in this catalog.

Course Code	Credits	Course Code	Credits
<b>SEMESTER 1</b>		<b>SEMESTER 2</b>	
NURS 160	3	NURS 161	7
BIOL 111	4	BIOL 112	4
PSYC 106	3	PSYC 208	3
ENGL 121	3	SOCI 101 or ANTH 105	3
NURS 165	2		
	15		17
<b>SEMESTER 3</b>		<b>SEMESTER 4</b>	
NURS 162	8	NURS 261	8
NURS 163	2	ENGL 122 or SPCH 115	3
BIOL 213	4	Humanities	3
	14		14
<b>SEMESTER 5</b>			
NURS 262	6		
NURS 263	3		
Elective	3		
	12		

This degree may take longer than two years to complete. BIOL 111 may be taken either before admission to the Nursing program or concurrently with NURS 160. BIOL 111 must be completed before progression into NURS 161. The other general education courses may be taken before starting clinical courses or with the nursing courses.

# Paralegal Studies Program A.A.S. Degree

The Paralegal Studies Program is approved by the American Bar Association, Standing Committee on Legal Assistants, 541 North Fairbanks Court, Chicago, IL 60611, (312) 988-5522, and is also an institutional member of the American Association for Paralegal Education (AAfPE), and maintains a chapter of the Lambda Epsilon Chi (LEX) Honor Society.

The purpose of this program is to train paralegals/legal assistants. It is not intended to be a program for training lawyers or legal administrators. A paralegal/legal assistant may not engage in the practice of law by accepting cases, giving legal advice, appearing in court, setting fees, etc. Engaging in the unauthorized practice of law is a criminal offense in the State of New Jersey.

The New Jersey State Bar Association defines a paralegal/ legal assistant as “an individual qualified through education, training or work experience who is retained by a lawyer, law office, governmental agency or other entity to perform, under the direction and supervision of a lawyer, specifically delegated substantive legal work, which for the most part requires sufficient knowledge of legal concepts and which, absent the paralegal or legal assistant, would be performed by a lawyer.”

The Code of Ethics and Professional Responsibility of the National Association of Legal Assistants, Inc., in its Preamble, provides that it is the responsibility of every paralegal/legal assistant to adhere strictly to the accepted standards of legal ethics and to live by general principles of proper conduct. The performance of duties of the paralegal/legal assistant is governed by specific canons of ethics in order that justice will be served and the goals of the profession attained.

This program, while not designed for transfer, may transfer in part or in its entirety to four-year schools.

## Degree Audit

Your progress toward your degree is available through WebAdvisor. Refer to page 23 for details.

Graduates of this program will be able to:

- ▶ Draft legal documents
- ▶ Exhibit technology skills
- ▶ Perform computerized legal research
- ▶ Utilize legal software programs
- ▶ Utilize word processing to draft legal documents
- ▶ Demonstrate ethical/professional responsibility

### Requirements

**General Education – 20 credits as described on page 50. MUSI courses and COMP 129 may not be used to satisfy the 20-credit general education requirement.**

**Career Studies – 16 credits as follows:**

Code	Course	Credits
PLGL 105	Introduction to Law and Litigation	3
PLGL 106	Legal Research and Writing	4
PLGL 145	Professional Standards in Ethics for Legal Assistants	3
PLGL 205**	Litigation Assistance Procedures	3
PLGL 210	Computer Applications in Law	3

**Career Studies —12 credits from among the following:**

PLGL 125*	Real Property Transactions	3
PLGL 135*	Family Law	3
PLGL 215**	Criminal Procedure	3
PLGL 225	Wills, Estates and Probate	3
PLGL 226*	Corporate Law Procedure	3
PLGL 227**	Introduction to Bankruptcy	1
PLGL 228**	Introduction to Workers' Compensation	1
PLGL 237**	Elder Law	3
PLGL 245**	Introduction to Social Security Disability	1
PLGL 299	Paralegal Internship	3

**Career Studies – 9 credits from courses remaining above, or from the following:**

BUSI 221	Business Law I	3
BUSI 222**	Business Law II	3
PLGL 126*	Constitutional Law	3
PLGL 206**	Torts	3
PLGL 207	Moot Court	4
PLGL 235***	Entertainment Law I	3
PLGL 295	Special Project – Paralegal Studies	1-4

**Elective 3**

\*Offered Fall Term only  
 \*\*Offered Spring Term only  
 \*\*\*Offered Summer Term only

## Credits required for degree: 60

### Suggested Sequence – Paralegal Studies Program A.A.S. Degree

The following sequence is an example of how this degree can be completed in two years. This sequence is based on satisfaction of all Basic Skills requirements and prerequisites and presumes a Fall Term start date. An individual's program may vary depending on transfer institution, career objectives, or individual needs. See your counselor for other options and to monitor your progress.

Course Code	Credits	Course Code	Credits
<b>SEMESTER 1 – Fall Term</b>		<b>SEMESTER 2 – Spring Term</b>	
PLGL 105	3	Career Studies	6
Career Studies	3	PLGL 106	4
ENGL 121	3	SPCH 115	3
Social Science	3	Humanities	3
PLGL 145	3		16
	15		
<b>SEMESTER 3 – Fall Term</b>		<b>SEMESTER 4 – Spring Term</b>	
PLGL 210	3	PLGL 205**	3
Career Studies	6	Career Studies	6
Mathematics or Science or Technological or Info Literacy	3-4	General Education	3
General Education <sup>(1)</sup>	3	Elective	3
	15-16		15

\*\*Offered Spring Term only  
 (1) One course is recommended from the Cultural & Global Awareness knowledge area.

## Paralegal Studies Academic Credit Certificate

This accelerated program is designed for students who possess a bachelor's or associate's degree and want to complete the requirements necessary to perform as a paralegal in a law office, corporate environment, or government office by offering the necessary paralegal courses to achieve competency in this profession.

### Graduates of this program will be able to:

- ▶ Draft legal documents in selected areas of law
- ▶ Exhibit technology skills
- ▶ Perform computerized and manual legal research
- ▶ Utilize legal software programs
- ▶ Utilize word processing to draft legal documents
- ▶ Demonstrate ethical and professional responsibility

### Requirements

General Education- 6 credits as follows:

Code	Course	Credits
ENGL 121	English Composition Writing Process	3
	Any other General Education Course that follows the A.A.S. degree [MUSI courses and COMP 129 may not be used to satisfy the General Education requirement.]	3

Career Courses – 25 credits as follows:

PLGL 105	Introduction to Law and Litigation for Paralegals	3
PLGL 106	Legal Research and Writing	4
PLGL 125*	Real Property Transactions	3
PLGL 135*	Family Law	3
PLGL 145	Professional Standards in Ethics for Legal Assistants	3
PLGL 210	Computer Applications in Law	3
PLGL 205**	Litigation Assistance Procedures	3
PLGL 225	Wills, Estates and Probate	3

\*Offered Fall Term Only

\*\*Offered Spring Term Only

### Credits required for Certificate: 31

#### Suggested Sequence – Paralegal Studies Academic Credit Certificate

The following sequence is an example of how this degree can be completed in one year, with a Fall Term start date.

Course Code	Credits	Course Code	Credits
<b>SEMESTER 1 – Fall Term</b>		<b>SEMESTER 2 – Spring Term</b>	
PLGL 105	3	PLGL 145	3
PLGL 125*	3	PLGL 205**	3
PLGL 106	4	PLGL 210	3
PLGL 135*	3	PLGL 225	3
ENGL 121	3	General Education	3
	<u>16</u>		<u>15</u>

\*Offered Fall Term Only

\*\*Offered Spring Term Only

### Degree Audit

Your progress toward your degree is available through WebAdvisor. Refer to page 23 for details.

# Philosophy Option

## Social Sciences Program A.A. Degree

This option prepares students for transfer to a four-year college Philosophy Program in preparation for academic professions such as teaching or scholarly research/ writing. Skills developed in this program are highly valued in many types of employment such as Law, Business, Bioethics, Nursing, Education, Religious Ministry, Employee Relations, Government, Technical Writing and Publishing.

### Graduates of this program will be able to:

- ▶ Assess critically arguments found in public discourse, using deductive and inductive logic and other critical thinking techniques
- ▶ Develop a metaphysical, epistemological, ethical, and/or religious synthesis in the formulation of their own opinions
- ▶ Present ideas clearly in written form about difficult issues, such as life and death, truth and reality

### Requirements

General Education– 45 credits as described on page 50.

Career Studies – 12 credits as follows:

Code	Course	Credits
PHIL 115	Introduction to Philosophy	3
PHIL 225	Comparative Religion	3
PHIL 226	Logic	3
PHIL 227	Introduction to Ethics	3

Elective **3**

### Degree Audit

Your progress toward your degree is available through WebAdvisor. Refer to page 23 for details.

### Credits required for degree: 60

#### Suggested Sequence – Social Sciences Program A.A. Degree

#### Philosophy Option

The following sequence is an example of how this degree can be completed in two years. This sequence is based on satisfaction of all Basic Skills requirements and prerequisites and presumes a Fall Term start date. An individual's program may vary depending on transfer institution, career objectives, or individual needs. See your counselor for other options and to monitor your progress.

Course Code	Credits	Course Code	Credits
<b>SEMESTER 1 – Fall Term</b>		<b>SEMESTER 2 – Spring Term</b>	
PHIL 115	3	Career Studies	3
ENGL 121	3	ENGL 122	3
Mathematics <sup>(1)</sup>	3-4	Humanities	3
Social Sciences	3	Social Sciences	3
Elective	3	Mathematics or Science <sup>(1)</sup>	<del>3-4</del>
	15-16		15-16
<b>SEMESTER 3 – Fall Term</b>		<b>SEMESTER 4 – Spring Term</b>	
Career Studies	3	Career Studies	3
SPCH 115	3	Cultural & Global Awareness <sup>(2)</sup>	3
Humanities	3	History	3
Science (with lab) <sup>(1)</sup>	4	Humanities	3
History	3	Mathematics/ Sciences/Technological	<del>3-4</del>
	16	Competency or Information Literacy <sup>(1)</sup>	15-17

<sup>(1)</sup> A minimum of 12 credits are required from the Mathematics, Sciences or Technological Competency or Information Literacy knowledge areas.

<sup>(2)</sup>One course is required from the Cultural & Global Awareness knowledge area. Students may meet the requirement while simultaneously fulfilling the General Education requirement for another knowledge area.

**For-additional information on transfer visit the Transfer Resources website at <http://transfer.brookdalecc.edu>**

# Photography Option

## Humanities Program A.A. Degree

This option should be selected by the student who wishes to transfer with a major in photography. Theoretical and applied photography courses coupled with liberal arts prepare the student to transfer and prepare for employment as photographic artists, photo-journalists, photo-illustrators, photo lab technicians, commercial or medical photographers.

### Graduates of this program will be able to:

- ▶ Demonstrate a mastery of basic and intermediate photographic principles and techniques
- ▶ Evaluate photographic images based on technical and artistic quality
- ▶ Think critically about the documentary, aesthetic, and metaphoric potential of the photographic medium
- ▶ Explain the history and impact of photography on society and the arts
- ▶ Distinguish between photographers of historic and artistic significance
- ▶ Demonstrate the ability to utilize the photographic medium as a means of communication and personal expression

### Requirements

General Education – 45 credits as described on page 50.

Career Studies – 12 credits:

Career Studies – 9 credits as follows:

Code	Course	Credits
PHTY 105*	The History and Aesthetics of Photography	3
PHTY 111	Photography I	3
PHTY 120	Digital Photography I	3

Career Studies – 3 credits from among the following: (6 credits if PHTY 105 is used to fulfill a General Education requirement.)

PHTY 212	Photography II	3
PHTY 216	Portfolio Development	3
PHTY 225	Digital Photography II	3
PHTY 235	Large Format Photography	3
PHTY 295	Special Project-Photography	1-6

Elective **3**

*\*It is recommended that students take PHTY 105 to fulfill a General Education requirement in the Humanities knowledge area. Students choosing this option will need to take six credits from career studies as noted above.*

### Degree Audit

Your progress toward your degree is available through WebAdvisor. Refer to page 23 for details.

### Credits required for degree: 60

#### Suggested Sequence – Humanities Program A.A. Degree Photography Option

The following sequence is an example of how this degree can be completed in two years. This sequence is based on satisfaction of all Basic Skills requirements and prerequisites and presumes a Fall Term start date. An individual's program may vary depending on transfer institution, career objectives, or individual needs. See your counselor for other options and to monitor your progress.

Course Code	Credits	Course Code	Credits
<b>SEMESTER 1 – Fall Term</b>		<b>SEMESTER 2 – Spring Term</b>	
PHTY 105	3	PHTY 120	3
PHTY 111	3	ENGL 122	3
ENGL 121	3	Mathematics or Science <sup>(1)</sup>	3-4
Humanities	3	Humanities	3
Mathematics <sup>(1)</sup>	3-4	Social Sciences	3
	15-16		15-16
<b>SEMESTER 3 – Fall Term</b>		<b>SEMESTER 4 – Spring Term</b>	
Career Studies	3	History	3
History	3	Social Sciences	3
Science (with lab) <sup>(1)</sup>	4	Cultural & Global Awareness <sup>(2)</sup>	3
SPCH 115	3	Humanities	3
Mathematics/Science/Technological Competency or Information Literacy <sup>(1)</sup>	3-4	Elective	3
	16-17		15

<sup>(1)</sup> A minimum of 12 credits are required from the Mathematics, Sciences or Technological Competency or Information Literacy knowledge areas.

<sup>(2)</sup> One course is required from the Cultural & Global Awareness knowledge area. Students may meet the requirement while simultaneously fulfilling the General Education requirement for another knowledge area.

For additional information on transfer visit the Transfer Resources website at <http://transfer.brookdalecc.edu>

## Physics Option Mathematic/Science Program A.S. Degree

This transfer option is designed for the student who wishes to attain a Bachelor's degree in physics and become a physicist, engineer, or researcher. It combines study of physics and related sciences with liberal arts courses necessary for transfer.

Graduates of this program will be able to:

- ▶ Communicate the basic concepts of experimental and theoretical physics
- ▶ Apply the scientific method, fundamental principles of physics and mathematical techniques to solve problems
- ▶ Use instruments/computers to gather and analyze data and present findings

### Requirements

General Education – 30 credits as described on page 50.

\*Career Studies – 24 credits as follows:

Code	Course	Credits
MATH 171	Calculus I	4
MATH 172	Calculus II	4
MATH 273	Calculus III	4
PHYS 121	General Physics I	4
PHYS 122	General Physics II	4
PHYS 223	General Physics III	4

Electives **6**

*\*All career studies courses must be passed with a grade of "C" or higher.*

### Degree Audit

Your progress toward your degree is available through WebAdvisor. Refer to page 23 for details.

### Credits required for degree: 60

#### Suggested Sequence – Mathematics/Science Program A.S. Degree Physics Option

The following sequence is an example of how this degree can be completed in two years. This sequence is based on satisfaction of all Basic Skills requirements and prerequisites and presumes a Fall Term start date. An individual's program may vary depending on transfer institution, career objectives, or individual needs. See your counselor for other options and to monitor your progress.

Course Code	Credits	Course Code	Credits
<b>SEMESTER 1 – Fall Term</b>		<b>SEMESTER 2 – Spring Term</b>	
MATH 171*	4	MATH 172	4
Mathematics <sup>(2)</sup>	3-4	PHYS 121	4
ENGL 121	3	ENGL 122	3
Social Sciences	3	Humanities	3
General Education <sup>(1)</sup>	3		14
	16-17		
<b>SEMESTER 3 – Fall Term</b>		<b>SEMESTER 4 – Spring Term</b>	
MATH 273	4	PHYS 223	4
PHYS 122	4	Social Sciences or Humanities	3
Science (with lab) <sup>(2)</sup>	4	General Education	3
Mathematics or Science or Technological or Info Literacy <sup>(2)</sup>	3-4	Electives	6
	14-16		16

\*MATH 151, MATH 152 and/or MATH 153 may be required if prerequisites for MATH 171 are not satisfied.

<sup>(1)</sup> One course is recommended from the Cultural and Global Awareness knowledge area.

<sup>(2)</sup> A minimum of 9 credits are required from the Mathematics, Sciences or Technological or Information Literacy categories.

For-additional information  
on transfer visit the Transfer  
Resources website at  
<http://transfer.brookdalecc.edu>

# Political Science Option

## Social Sciences Program A.A. Degree

This option combines political science and other liberal arts courses required for transfer to a four-year college political science program. Upon the receipt of either an Associate's or Bachelor's degree, a student may enter such occupations as Federal, State, county or local government service, political consulting, interest group staffs, political parties, international business or government service; the teaching of civics and history courses, journalism, law enforcement or law.

Graduates of this program will be able to:

- ▶ Communicate skills and content effectively in written and verbal forms
- ▶ Complete written assignments demonstrating skills of political analysis
- ▶ Explain political science methodology
- ▶ Compare and contrast political ideologies and theories of governance
- ▶ Describe the workings of a democratic civil society
- ▶ Summarize the content of important political documents such as the Declaration of Independence, the US Constitution, the Bill of Rights, and the UN Charter on Human Rights
- ▶ Illustrate in written and oral form the diversity of global political life and the impact of such diversity on their personal lives

For additional information on transfer visit the Transfer Resources website at <http://transfer.brookdalecc.edu>

### Requirements

General Education – 45 credits as described on page 50.

Career Studies – 12 credits from among the following:

Code	Course	Credits
POLI 101	Introduction to Political Science	3
POLI 105	American National Government	3
POLI 109	Current Global Topics	3
POLI 115	State, County and Local Government	3
POLI 225	International Relations	3
POLI 227	Comparative Politics	3
POLI 228	Environmental Politics and Policy	3
POLI 299	Political Science Internship	3
<b>Elective</b>		<b>3</b>

### Degree Audit

Your progress toward your degree is available through WebAdvisor. Refer to page 23 for details.

### BACHELOR'S THROUGH BROOKDALE

This is a preferred Associate degree for students planning to pursue a Bachelor's degree in Political Science at Brookdale's New Jersey Coastal Community. For program details and transfer information, students should talk to their Student Development Specialist or call the Community at 732-280-7090.

### Credits required for degree: 60

#### Suggested Sequence – Social Sciences Program A.A. Degree Political Science Option

The following sequence is an example of how this degree can be completed in two years. This sequence is based on satisfaction of all Basic Skills requirements and prerequisites and presumes a Fall Term start date. An individual's program may vary depending on transfer institution, career objectives, or individual needs. See your counselor for other options and to monitor your progress.

Course Code	Credits	Course Code	Credits
<b>SEMESTER 1 – Fall Term</b>		<b>SEMESTER 2 – Spring Term</b>	
Career Studies	3	Career Studies	3
ENGL 121	3	ENGL 122	3
Humanities	3	History	3
Mathematics <sup>(1)</sup>	3-4	Social Sciences	3
Mathematics/ Science/Technological <sup>(1)</sup>	3-4	Mathematics or Science <sup>(1)</sup>	3-4
Competency or Information Literacy	15-17		15-16
<b>SEMESTER 3 – Fall Term</b>		<b>SEMESTER 4 – Spring Term</b>	
Career Studies	3	Career Studies	3
SPCH 115	3	Social Sciences	3
Science (with lab) <sup>(1)</sup>	4	Cultural & Global Awareness <sup>(2)</sup>	3
Humanities	3	Humanities	3
History	3	Elective	3
	16		15

<sup>(1)</sup> A minimum of 12 credits are required from the Mathematics, Sciences or Technological Competency or Information Literacy knowledge areas.

<sup>(2)</sup> One course is required from the Cultural & Global Awareness knowledge area. Students may meet this requirement while simultaneously fulfilling the General Education requirement for another knowledge area.

# Psychology Option

## Social Sciences Program A.A. Degree

This option prepares students to transfer to a baccalaureate psychology program. The coursework is designed to foster an appreciation and understanding of (1) the scientific study, (2) measurement, and (3) perspectives and concepts (both historical and contemporary) of behaviors and mental processes fundamental to psychology. Program graduates will learn fundamental knowledge concerning psychological processes and research methods for investigating basic and applied problems in psychology. Students will apply relevant research to analyze and evaluate psychological perspectives and concepts.

Graduates of this program will be able to:

- ▶ Examine the essential elements of the history of Psychology
- ▶ Compare and contrast the concepts of the various contemporary perspectives within the field
- ▶ Appraise the scientific study and measurement of psychology and its concepts
- ▶ Evaluate the basic physical, cognitive, social, and emotional aspects of development through the lifespan
- ▶ Discuss the basic structure and physiology of the nervous and endocrine systems
- ▶ Express informed personal views, based upon current research, regarding controversial topics in the field

### BACHELOR'S THROUGH BROOKDALE

This is a preferred Associate degree for students planning to pursue a Bachelor's degree in Psychology at Brookdale's New Jersey Coastal Community. For program details and transfer information, students should talk to their Student Development Specialist or call the Community at 732-280-2090.

For additional information on transfer visit the Transfer Resources website at <http://transfer.brookdalecc.edu>

### Requirements

General Education – 45 credits as described on page 50.

Career Studies – 9 credits as follows:

Code	Course	Credits
PSYC 105	Introduction to Psychology I	3
PSYC 208	Life Span Human Development	3
PSYC 245	Introduction to Quantitative Methods in Social Science	3

Career Studies – 3-4 credits from the following:

PSYC 106	Introduction to Psychology II	3
PSYC 107	Personality and Adjustment	3
PSYC 205	Industrial/Organizational Psychology	3
PSYC 206	Human Growth and Development I	3
PSYC 207	Human Growth and Development II	3
PSYC 209	Theories of Personality	3
PSYC 216	Abnormal Psychology	3
PSYC 217	Social Psychology	3
PSYC 218	Educational Psychology	3
PSYC 219	Positive Psychology	3
PSYC 246	Quantitative Methods Lab	1
<b>Elective</b>		<b>3</b>

This degree program may also be completed online. Students may choose to take some or all of their courses online. For more information call 732-224-2089.

### Degree Audit

Your progress toward your degree is available through WebAdvisor. Refer to page 23 for details.

### Credits required for degree: 60-61

#### Suggested Sequence – Social Sciences Program A.A. Degree Psychology Option

The following sequence is an example of how this degree can be completed in two years. This sequence is based on satisfaction of all Basic Skills requirements and prerequisites and presumes a Fall Term start date. An individual's program may vary depending on transfer institution, career objectives, or individual needs. See your counselor for other options and to monitor your progress.

Course Code	Credits	Course Code	Credits
<b>SEMESTER 1 – Fall Term</b>		<b>SEMESTER 2 – Spring Term</b>	
PSYC 105	3	Career	3-4
ENGL 121	3	PSYC 208	3
Humanities	3	ENGL 122	3
Mathematics/Science/Technological Competency or Information Literacy <sup>(1)</sup>	3-4	Mathematics or Science <sup>(1)</sup>	3-4
Mathematics <sup>(1)</sup>	3-4	Social Sciences	3
	15-17		15-17
<b>SEMESTER 3 – Fall Term</b>		<b>SEMESTER 4 – Spring Term</b>	
PSYC 245	3	Humanities	3
Communications	3	Social Science	3
Science (with Lab) <sup>(1)</sup>	4	Cultural & Global Awareness <sup>(2)</sup>	3
History	3	History	3
Humanities	3	Elective	3
	16		15

<sup>(1)</sup> A minimum of 12 credits are required from the Mathematics, Sciences or Technological Competency or Information Literacy knowledge areas.

<sup>(2)</sup> One course is required from the Cultural & Global Awareness knowledge area. Students may meet this requirement while simultaneously fulfilling the General Education requirement for another knowledge area.

# Public Administration Option

## Social Sciences Program A.A. Degree

This option combines government, political science and management courses with liberal arts studies for students who wish to transfer to a four-year college with majors in public service, government or pre-law. Upon receipt of bachelor's degrees, students enter such fields as urban planning, economics, labor relations, federal service.

Graduates of this program will be able to:

- ▶ Communicate the skills and content effectively in written and verbal forms
- ▶ Describe the structure and functions of State, County, and Local Government
- ▶ Compare and contrast different perspectives of social systems and their application to everyday work and community experiences
- ▶ Display knowledge of social science research methodology
- ▶ Appraise different perspectives of individual and group decision-making processes and how these processes affect the workplace and community relations
- ▶ Apply principles of public administration and management

### Degree Audit

Your progress toward your degree is available through WebAdvisor. Refer to page 23 for details.

For additional information on transfer visit the Transfer Resources website at <http://transfer.brookdalecc.edu>

### Requirements

General Education – 45 credits as described on page 50.

The following courses are recommended for students in this program:

Code	Course	Credits
POLI 115	State, County and Local Government	3
PSYC 105	Introduction to Psychology I	3
SOCI 101	Principles of Sociology	3
SPCH 115	Public Speaking	3

### Career Studies – 3 credits as follows:

CRJU 126	Introduction to Public Administration	3
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### Career Studies — 9 credits from among the following:

BUSI 205	Principles of Management	3
CRJU 101	Introduction to the Criminal Justice System	3
CRJU 151	Introduction to Criminology	3
CRJU 225	Police Organization and Administration	3
ECON 105	Macro Economics	3
POLI 105	American National Government	3
POLI 115	State and Local Government	3
POLI 295	Special Project – Political Science	1-3
PSYC 205	Industrial/Organizational Psychology	3
PSYC 212**	Community Agencies and Human Services Systems	3
SOCI 101	Principles of Sociology	3
SOCI 202	Analysis of Social Problems	3
SOCI 295	Special Project–Sociology	1-6

Elective 3

\*\*Offered Spring term only

### Credits required for degree: 60

#### Suggested Sequence – Social Sciences Program A.A. Degree Public Administration Option

The following sequence is an example of how this degree can be completed in two years. This sequence is based on satisfaction of all Basic Skills requirements and prerequisites and presumes a Fall Term start date. An individual's program may vary depending on transfer institution, career objectives, or individual needs. See your counselor for other options and to monitor your progress.

Course Code	Credits	Course Code	Credits
<b>SEMESTER 1 – Fall Term</b>		<b>SEMESTER 2 – Spring Term</b>	
Career Studies*	3	CRJU 126	3
ENGL 121	3	ENGL 122	3
Humanities	3	Humanities	3
Social Sciences	3	Social Sciences	3
Mathematics <sup>(1)</sup>	3-4	Mathematics or Science <sup>(1)</sup>	3-4
	15-16		15-16
<b>SEMESTER 3 – Fall Term</b>		<b>SEMESTER 4 – Spring Term</b>	
Career Studies	3	Career Studies	3
Communications	3	History	3
Science (with lab) <sup>(1)</sup>	4	Cultural & Global Awareness <sup>(2)</sup>	3
History	3	Mathematics/Science/Technological <sup>(1)</sup>	3-4
Humanities	3	Competency or Information Literacy	3
	16	Elective	3
			15-16

\*CRJU 101 strongly recommended.

<sup>(1)</sup> A minimum of 12 credits are required from the Mathematics, Sciences or Technological Competency or Information Literacy knowledge areas.

<sup>(2)</sup> One course is required from the Cultural & Global Awareness knowledge area. Students may meet the requirement while simultaneously fulfilling the General Education requirement for another knowledge area.

# Public Relations Option

## Humanities Program A.A. Degree

Designed for transfer, this option combines communication/mass media courses with liberal arts requirements. Bachelor's degree graduates may take such positions as communications specialist, public relations specialist, copywriter for news and media releases, advertising worker, community relations specialist, lobbyist, speech writer and media advisor.

Graduates of this program will be able to:

- ▶ Evaluate their potential success in public relations through a broad examination of the topic
- ▶ Demonstrate understanding of the definition, history, function, tools, and techniques of public relations
- ▶ Investigate the characteristics of the practitioner, organizational structures, and job opportunities
- ▶ Practice the necessary skills and meet practicing professionals

### Requirements

General Education – 45 credits as described on page 50.

Career Studies – 12 credits as follows:

Code	Course	Credits
COMM 101	Communication	3
COMM 102	Communication Media	3
COMM 106	Introduction to Public Relations	3
JOUR 101	Introduction to Journalism	3

**Elective** **3**

### Degree Audit

Your progress toward your degree is available through WebAdvisor. Refer to page 23 for details.

### Credits required for degree: 60

#### Suggested Sequence – Humanities Program A.A. Degree Public Relations Option

The following sequence is an example of how this degree can be completed in two years. This sequence is based on satisfaction of all Basic Skills requirements and prerequisites and presumes a Fall Term start date. An individual's program may vary depending on transfer institution, career objectives, or individual needs. See your counselor for other options and to monitor your progress.

Course Code	Credits	Course Code	Credits
<b>SEMESTER 1 – Fall Term</b>		<b>SEMESTER 2 – Spring Term</b>	
COMM 101	3	COMM 102	3
Mathematics/Science/Technological Competency or Information Literacy <sup>(1)</sup>	3-4	ENGL 122	3
ENGL 121	3	History	3
Humanities	3	Mathematics or Science <sup>(1)</sup>	3-4
Mathematics <sup>(1)</sup>	3-4	Social Sciences	3
	15-17		15-16
<b>SEMESTER 3 – Fall Term</b>		<b>SEMESTER 4 – Spring Term</b>	
COMM 106	3	JOUR 101	3
Humanities	3	Cultural & Global Awareness <sup>(2)</sup>	3
Science (with lab) <sup>(1)</sup>	4	Humanities	3
SPCH 115	3	Social Sciences	3
History	3	Elective	3
	16		15
		<b>Total Credits for Degree</b>	<b>60</b>

<sup>(1)</sup> A minimum of 12 credits are required from the Mathematics, Sciences or Technological Competency or Information Literacy knowledge areas.

<sup>(2)</sup> One course is required from the Cultural & Global Awareness knowledge area. Students may meet the requirement while simultaneously fulfilling the General Education requirement for another knowledge area.

**For-additional information on transfer visit the Transfer Resources website at <http://transfer.brookdalecc.edu>**

# Radiologic Technology Program A.A.S. Degree

This program prepares students for entry-level positions in diagnostic imaging. Students work with patients, performing a full range of diagnostic radiographic procedures. Clinical experiences are required of all students. Graduates are employed by hospitals, clinics, diagnostic imaging centers and physician's offices. Upon completion of the Radiologic Technology Program, students will be eligible to sit for the American Registry of Radiologic Technologists examination in Radiography. After successful completion of this examination and application to the Board of Radiologic Technology Examiners, the graduate is also eligible for state licensure. The program is accredited by the Joint Review Committee on Education in Radiologic Technology, 20 North Wacker Drive, Suite 900, Chicago, Illinois 60606, (312) 704-5300. Specific admission criteria for the program are outlined on page 15 of this catalog. Separate policies exist for the Radiologic Technology Program, including grading. These policies can be found in the Radiologic Technology Student Handbook.

## Graduates of this program will be able to:

- ▶ Assess, analyze, implement, and evaluate imaging procedures
- ▶ Teach diverse patients and families pertinent information regarding their imaging procedures
- ▶ Perform image quality control activities
- ▶ Incorporate ethical and legal considerations in the implementation of imaging procedures
- ▶ Exhibit effective communication skills
- ▶ Practice as a member of the interdisciplinary healthcare team
- ▶ Continue professional growth
- ▶ Apply principles from the social sciences, biologic sciences, and humanities to their practice
- ▶ Practice within the limits and scope of a licensed radiologic technologist

## Degree Audit

Your progress toward your degree is available through WebAdvisor. Refer to page 23 for details.

## Requirements

### General Education – 20 credits as follows:

Code	Course	Credits
BIOL 111	Anatomy and Physiology I	4
BIOL 112	Anatomy and Physiology II	4
ENGL 121	English Composition: The Writing Process	3
ENGL 122	English Composition: Writing and Research or	3
SPCH 115	Public Speaking Humanities	3 3
PSYC 106	Introduction to Psychology II	3

### Career Studies – 51 credits as follows:

Code	Course	Credits
HESC 105	Medical Terminology	3
RADT 150	Introduction to Radiologic Technology	2
RADT 151	Radiographic Exposures I	3
RADT 152	Radiographic Procedures I	6
RADT 153	Introduction to Patient Care	3
RADT 155	Principles of Radiobiology	2
RADT 156	Equipment Operation I	2
RADT 157	Radiographic Procedures II	6
RADT 158	Clinical Practicum I	2
RADT 250	Equipment Operation II	2
RADT 251	Advanced Medical Imaging Modalities	3
RADT 252	Advanced Imaging Procedures	6
RADT 255	Radiographic Pathology	2
RADT 256	Issues in Health Care	2
RADT 257	Radiographic Procedures III	6
RADT 258	Clinical Practicum II	1

## Credits required for degree: 71

### Suggested Sequence – Radiologic Technology Program A.A.S. Degree

The following sequence is an example of how this degree can be completed in two years. This sequence is based on satisfaction of all Basic Skills requirements and prerequisites and presumes a Fall Term start date. An individual's program may vary depending on transfer institution, career objectives, or individual needs. See your counselor for other options and to monitor your progress. Students must satisfy specific requirements in order to be admitted to this program. See Admissions to Health Sciences Programs, page 15 in the catalog

#### The following degree requirement must be taken prior to admission:

Course Code	Credits	Course Code	Credits
HESC 105 – Medical Terminology	3		
<b>SEMESTER 1 – Fall Term</b>		<b>SEMESTER 2 – Spring Term</b>	
RADT 150	2	RADT 155	2
RADT 151	3	RADT 156	2
RADT 152	6	RADT 157	6
RADT 153	3	BIOL 112	4
BIOL 111	4	ENGL 121	3
	18		17
<b>SUMMER TERM</b>		<b>SEMESTER 3 – Fall Term</b>	
RADT 158	2	RADT 250	2
		RADT 251	3
		RADT 252	6
		PSYC 106	3
		ENGL 122 or SPCH 115	3
	17	Humanities <sup>(1)</sup>	3
			13
<b>SUMMER TERM</b>		<b>SEMESTER 4 – Spring Term</b>	
RADT 258	1	RADT 255	2
		RADT 256	2
		RADT 257	6

This degree may take longer than two years to complete. Although not required to be taken prior to beginning the program, general education courses may be taken before starting clinical courses or during the summer terms.

<sup>(1)</sup> One course is recommended from the Cultural & Global Awareness knowledge area.

# Respiratory Therapy Program A.A.S. Degree

This program prepares students for entry-level positions in respiratory care. Students work with patients in the treatment, management and control of problems and abnormalities associated with the cardiopulmonary system. Graduates work closely with patients, doctors, and nurses to provide diagnostic testing, therapeutics, education, rehabilitation, monitoring, life support and other specialized methods of treatment. Clinical learning experiences are required of all students. Upon completion of the program students are eligible to sit for the National Board of Respiratory Care (NBRC) Examination. After successful completion of this examination and application to the Respiratory Care Board, the graduate is also eligible for state licensure as a Certified Respiratory Therapist. Once licensed, graduates are eligible to take the Advanced Practitioner Examinations to become a Registered Respiratory Therapist (RRT). This program is accredited by the Commission on Accreditation for Respiratory Care (www.coarc.com), 1248 Harwood Road, Bedford, Texas 76021-4244 (817)283-2835. Specific admission criteria for the program are outlined on page 15 of this catalog. Separate policies exist for the Respiratory program including grading. These policies can be found in the Respiratory Therapy Student Handbook.

### Graduates of this program will be able to:

- ▶ Assess, analyze, implement and evaluate respiratory care
- ▶ Incorporate ethical/legal considerations into the respiratory action plan
- ▶ Exhibit therapeutic communication skills
- ▶ Apply basic principles of management in the care of groups of patients
- ▶ Incorporate principles from the social sciences, biologic sciences and humanities into their practice
- ▶ Continue personal and professional growth
- ▶ Practice as a member of the interdisciplinary healthcare team
- ▶ Practice within the limits and scope of a licensed respiratory therapist

### Requirements

General Education – 23 credits as follows:

Code	Course	Credits
BIOL 111	Anatomy and Physiology I	4
BIOL 112	Anatomy and Physiology II	4
COMP 129	Information Technology	3
ENGL 121	English Composition: Writing Process	3
	Communications	3
	Humanities	3
	Social Sciences	3

Career Studies – 41 credits as follows:

BIOL 213	Microbiology	4
RESP 161	Cardiopulmonary Anatomy and Physiology	3
RESP 162	Fundamental Skills in Respiratory Therapy	6
RESP 163	Cardiopulmonary Pathophysiology	4
RESP 164	Patient Assessment and Diagnostics	5
RESP 261	Neonatal and Pediatric Respiratory Care	2
RESP 262	Adult Critical Care	7
RESP 263	Subacute Respiratory Care	2
RESP 264	Respiratory Care Practice	6
RESP 265	Issues and Trends in Health Care	2

Elective **3**

### Advanced Placement in Respiratory Therapy

Certified Respiratory Therapists and persons with previous experience in Respiratory Therapy may be eligible for Advanced Placement. Applicants for Advanced Placement must have met all criteria for Allied Health admission and have completed all program requirements in order to be eligible for graduation. The process and criteria for Advanced Placement are available by request from the Allied Health Office.

### Degree Audit

Your progress toward your degree is available through WebAdvisor. Refer to page 23 for details.

### Credits required for degree: 67

#### Suggested Sequence – Respiratory Therapy Program A.A.S. Degree

The following sequence is an example of how this degree can be completed in two years. This sequence is based on satisfaction of all Basic Skills requirements and prerequisites and presumes a Fall Term start date. An individual's program may vary depending on transfer institution, career objectives, or individual needs. See your counselor for other options and to monitor your progress. Students must satisfy specific requirements in order to be admitted to this program. See Admission to Health Science Programs, page 15 in this catalog.

Course Code	Credits	Course Code	Credits
<b>SEMESTER 1 – Fall Term</b>		<b>SEMESTER 2 – Spring Term</b>	
RESP 161	3	RESP 163	4
RESP 162	6	RESP 164	5
BIOL 111	4	BIOL 112	4
COMP 129	3	ENGL 121	3
	16		16
<b>SEMESTER 3 – Fall Term</b>		<b>SEMESTER 4 – Spring Term</b>	
RESP 261	2	RESP 263	2
RESP 262	7	RESP 264	6
BIOL 213	4	RESP 265	2
Humanities <sup>(1)</sup>	3	Communications	3
Social Sciences	3	Elective	3
	19		16

This degree may take longer than two years to complete. The above sequence is an example of how this degree can be completed in two years. Although not required to be taken prior to beginning the program, general education courses may be taken before starting clinical courses or during the summer terms.

<sup>(1)</sup> One course is recommended from the Cultural & Global Awareness knowledge area.

# Science Option

## Mathematics/ Science Program A.S. Degree

Students wishing a concentration in science combined with liberal studies needed for transfer to four-year colleges or special professional institutions may choose this option. This option may fulfill the needs of students planning to major in Marine Science, Geology, or Environmental Science at a four-year college. The flexibility offered by this option allows for differences in entrance and transferability requirements of these schools. To maximize transfer credits, students must be guided by the transfer institution's requirements and work closely with their counselor in order to select courses wisely.

### Graduates of this program will be able to:

- ▶ Employ the scientific method of inquiry to gather and use information for the express purposes of critical thinking, information analysis and problem solving
- ▶ Identify and interpret basic scientific concepts
- ▶ Use appropriate technology

### Degree Audit

Your progress toward your degree is available through WebAdvisor. Refer to page 23 for details.

For additional information on transfer visit the Transfer Resources website at <http://transfer.brookdalecc.edu>

### Requirements

General Education – 30 credits as described on page 50.

<sup>1</sup>Career Studies – 8 credits as follows:

Code	Course	Credits
MATH 152	College Algebra and Trigonometry	4
MATH 153	Pre-Calculus Mathematics	4

<sup>1</sup>Career Studies – 24–26 credits from among the following. The selected courses must include at least one two-semester sequence of courses chosen from BIOL 101/102, BIOL 111/112, CHEM 101/102, ENVR 101/102, MATH 171/172, PHYS 111/112, PHYS 121/122. (The Math/Science Division may approve another sequence based on the requirements of the transfer institution.) It is suggested that the student complete both courses in any two-semester sequence begun. Consult with your counselor or Math/Science Division Chairperson.

BIOL 101	General Biology I	4
BIOL 102	General Biology II	4
BIOL 111	Anatomy and Physiology I	4
BIOL 112	Anatomy and Physiology II	4
BIOL 205*	Invertebrate Zoology	4
BIOL 206**	Vertebrate Zoology	4
BIOL 207***	Marine Biology	4
BIOL 213	Microbiology	4
BIOL 215	Cell and Molecular Biology	4

CHEM 101	General Chemistry I	5
CHEM 102	General Chemistry II	5
CHEM 117***	Introduction to Marine Chemistry	4
CHEM 136	Introduction to Inorganic, Organic and Biological Chemistry	4
CHEM 203	Organic Chemistry I	5
CHEM 204	Organic Chemistry II	5
CHEM 235	Fundamentals of Organic and Biological Chemistry	5
CHEM 236	Biochemistry	5
ENVR 101	Physical Geology	4
ENVR 102**	Historical Geology	4
ENVR 205***	Introduction to Coastal Geology	4
MATH 171	Calculus I	4
MATH 172	Calculus II	4
ENVR 111	Oceanography	4
ENVR 212**	Coastal Zone Management	4
PHYS 111	General Physics I (non-calculus)	4
PHYS 112	General Physics II (non-calculus)**	4
PHYS 121	General Physics I	4
PHYS 122	General Physics II	4
PHYS 223	General Physics III	4

<sup>1</sup>All career studies courses must be passed with a grade of "C" or higher.

\*Offered Fall term only

\*\*Offered Spring term only

\*\*\*Offered Summer term only

### Credits required for degree: 62-66

#### Suggested Sequence – Mathematics/Science Program A.S. Degree; Science Option

The following sequence is an example of how this degree can be completed in two years. This sequence is based on satisfaction of all Basic Skills requirements and prerequisites and presumes a Fall Term start date. An individual's program may vary depending on transfer institution, career objectives, or individual needs. See your counselor for other options and to monitor your progress.

Course Code	Credits	Course Code	Credits
<b>SEMESTER 1 – Fall Term</b>		<b>SEMESTER 2 – Spring Term</b>	
Career Studies	4	Career Studies	4-5
**MATH 152	4	MATH 153	4
ENGL 121	3	ENGL 122	3
Humanities	3	Social Sciences	3
Mathematics <sup>(2)</sup>	3-4	General Education <sup>(1)</sup>	3
	17-18		17-18
<b>SEMESTER 3 – Fall Term</b>		<b>SEMESTER 4 – Spring Term</b>	
*Career Studies	8-10	*Career Studies	8-10
Science (with lab) <sup>(2)</sup>	4	Mathematics or Science or Technological or Info Literacy <sup>(2)</sup>	3-4
Humanities or Social Sciences	3	General Education	3
	15-17		14-17

\*Take one of the following courses. Overall, the selected courses must include at least one two-semester sequence of courses as indicated above.

BIOL 101	BIOL 215	CHEM 235	MATH 171
BIOL 102	CHEM 101	CHEM 236	MATH 172
BIOL 111	CHEM 102	ENVR 101	PHYS 111
BIOL 112	CHEM 117	ENVR 102	PHYS 112
BIOL 205	CHEM 136	ENVR 205	PHYS 121
BIOL 206	CHEM 203	ENVR 111	PHYS 122
BIOL 207	CHEM 204	ENVR 212	PHYS 223
BIOL 213			

\*\*MATH 151 may be required if prerequisites to MATH 152 are not satisfied.

<sup>(1)</sup> One course is recommended from the Cultural & Global Awareness knowledge area.

<sup>(2)</sup> A minimum of 9 credits are required from the Mathematics, Sciences or Technological or Information Literacy categories.

# Social Sciences Program

## A.A. Degree

The Social Sciences A.A. degree program is designed for students seeking a broad general education or transfer to a four-year institution. This program also provides personal enrichment in the social sciences. Students planning to major in the following areas should enroll in this program and choose from the following concentrations: anthropology, economics, history, interdisciplinary studies, philosophy, political science, psychology or sociology. The Social Sciences A.A. degree program will prepare students for transfer to degree programs leading to careers in the mental health professions, law, teaching, consulting, or the ministry.

Graduates of this program will be able to:

- ▶ Demonstrate how culture and personal experience impacts individuals in everyday life
- ▶ Analyze and interpret philosophical and theoretical perspectives found in a variety of Social Science schools of thought
- ▶ Investigate and evaluate the research methods used in various Social Science disciplines
- ▶ Synthesize and communicate the applications of Social Science concepts in a global setting
- ▶ Distinguish between the many career paths and transfer options available to Social Science students

### Degree Audit

Your progress toward your degree is available through WebAdvisor. Refer to page 23 for details.

**For-additional information on transfer visit the Transfer Resources website at <http://transfer.brookdalecc.edu>**

### Requirements

General Education – 45 credits as described on page 50.

Career Studies – 12 credits from among the Social Sciences, with at least 6 credits in one of the following concentrations: anthropology, economics, history, interdisciplinary studies, philosophy, political science, psychology, sociology.

Elective – 3 credits

**This degree program may also be completed online. Students may choose to take some or all of their courses online. For more information call 732-224-2089.**

### BACHELOR’S THROUGH BROOKDALE

This is a preferred Associate degree for students planning to pursue a Bachelor’s degree in Liberal and Labor Studies at Brookdale’s New Jersey Coastal Communiiversity. For program details and transfer information, students should talk to their Student Development Specialist or call the Communiiversity at 732-280-2090.

### Credits required for degree: 60

#### Suggested Sequence – Social Sciences Program A.A. Degree

The following sequence is an example of how this degree can be completed in two years. This sequence is based on satisfaction of all Basic Skills requirements and prerequisites and presumes a Fall Term start date. An individual’s program may vary depending on transfer institution, career objectives, or individual needs. See your counselor for other options and to monitor your progress.

Course Code	Credits	Course Code	Credits
<b>SEMESTER 1 – Fall Term</b>		<b>SEMESTER 2 – Spring Term</b>	
Mathematics/Science/Technological Competency or Information Literacy <sup>(1)</sup>	3-4	ENGL 122	3
ENGL 121	3	Mathematics or Science <sup>(1)</sup>	3-4
Humanities	3	History	3
Mathematics <sup>(1)</sup>	3-4	Social Sciences	3
Career Studies	3	Career Studies	3
	15-17		15-16
<b>SEMESTER 3 – Fall Term</b>		<b>SEMESTER 4 – Spring Term</b>	
Career Studies	3	Career Studies	3
Communications	3	Humanities	3
Humanities	3	Social Sciences	3
History	3	Cultural & Global Awareness <sup>(2)</sup>	3
Science (with lab) <sup>(1)</sup>	4	Elective	3
	16		15

<sup>(1)</sup> A minimum of 12 credits are required from the Mathematics, Sciences or Technological Competency or Information Literacy knowledge areas.

<sup>(2)</sup>One course is required from the Cultural & Global Awareness knowledge area. Students may meet the requirement while simultaneously fulfilling the General Education requirement for another knowledge area.

# Sociology Option

## Social Sciences Program A.A.

This option prepares students for transfer in order to complete a Bachelor's degree in sociology. This program provides a framework for the scientific study of individual social interaction, social inequality, and major social institutions. The curriculum will introduce students to the various sub-disciplines in sociology and related fields. Upon completion of the sociology option, students will be able to identify a potential career path and/or specialization within the field of social science. Finally, students who complete the program will be introduced to the study of social inequality, social structures, and social problems. This will provide students with opportunities in areas that include but are not limited to social and human services, government offices, community and non-profit organizations, business, and education.

### Graduates of this program will be able to:

- ▶ Communicate major sociological concepts verbally and in writing
- ▶ Identify and define the social features of human beings and the ways in which they interact and change
- ▶ Demonstrate and summarize knowledge regarding the components of social structure as well as the major agents of socialization
- ▶ Compare and contrast the different sub-disciplines and theoretical perspectives in the study of sociology and social inequality

**For-additional information on transfer visit the Transfer Resources website at**  
<http://transfer.brookdalecc.edu>

### Requirements

General Education – 45 credits as described on page 50.

Career Studies: 12 credits as follows:

Code	Course	Credits
SOCI 101	Principles of Sociology	3

Career Studies: 9 credits from among the following courses:

Code	Course	Credits
SOCI 105	Intercultural Communication	3
SOCI 202	Analysis of Social Problems	3
SOCI 215	Sociology of Marriage and the Family	3
SOCI 216*	Sociology of Minorities	3
SOCI 226	Drugs and Society	3
SOCI 235	Sociology of Sport	3
CRJU 151	Introduction to Criminology	3

Elective 3

\*Offered Fall term only

### Degree Audit

Your progress toward your degree is available through WebAdvisor. Refer to page 23 for details.

### Credits required for degree: 60

#### Suggested Sequence – Social Sciences Program A.A. Degree Sociology Option

The following sequence is an example of how this degree can be completed in two years. This sequence is based on satisfaction of all Basic Skills requirements and prerequisites and presumes a Fall Term start date. An individual's program may vary depending on transfer institution, career objectives, or individual needs. See your counselor for other options and to monitor your progress.

Course Code	Credits	Course Code	Credits
<b>SEMESTER 1 – Fall Term</b>		<b>SEMESTER 2 – Spring Term</b>	
SOCI 101	3	Career Studies	3
ENGL 121	3	ENGL 122	3
Humanities	3	Humanities	3
History	3	History	3
Mathematics <sup>(1)</sup>	3-4	Mathematics or Science <sup>(1)</sup>	3-4
	15-16		15-16
<b>SEMESTER 3 – Fall Term</b>		<b>SEMESTER 4 – Spring Term</b>	
Career Studies	3	Career Studies	3
Science (with lab) <sup>(1)</sup>	4	Humanities	3
Mathematics/Science/Technological Competency or Information Literacy <sup>(1)</sup>	3-4	Social Sciences	3
SPCH 115	3	Cultural & Global Awareness <sup>(2)</sup>	3
Social Sciences	3	Elective	3
	16-17		15

<sup>(1)</sup> A minimum of 12 credits are required from the Mathematics, Sciences or Technological Competency or Information Literacy knowledge areas.

<sup>(2)</sup> One course is required from the Cultural & Global Awareness knowledge area. Students may meet the requirement while simultaneously fulfilling the General Education requirement for another knowledge area.

# Speech Communication Option

## Humanities Program A.A. Degree

This Option is for students who wish to transfer to a four-year college with a major in Speech Communication or Communication. Career Options open to four-year Speech Communication majors include teaching, advertising, sales, corporate training, public relations and broadcast journalism. Students taking this option are urged to participate in Brookdale's competitive speech team. The combination of theoretical and applied oral communication courses within liberal arts studies allow students to transfer to four-year colleges and universities as Speech, Speech Communication or Communication majors.

**Graduates of this program will be able to:**

- ▶ Demonstrate rhetorical competence by effectively delivering oral presentations in a variety of contexts
- ▶ Utilize critical thinking to create and evaluate oral messages
- ▶ Demonstrate information literacy by collecting, analyzing, organizing and evaluating information to create effective oral messages
- ▶ Utilize appropriate technology to communicate with others, create and use visual aids, and/or create mediated messages
- ▶ Utilize personal development skills by meeting course deadlines, meeting attendance requirements and managing communication apprehension
- ▶ Utilize effective oral communication skills with culturally diverse and/or multiple audiences
- ▶ Practice oral communication skills to work effectively within teams to complete tasks; demonstrate effective conflict resolution skills in both small group and interpersonal settings

**For-additional information on transfer visit the Transfer Resources website at <http://transfer.brookdalecc.edu>**

### Requirements

General Education – 45 credits as described on page 50.

Career Studies: 3 credits required:

Code	Course	Credits
SPCH 130	Interpersonal Communication	3

Career Studies – 9 credits from among the following:

SPCH 125	Oral Interpretation	3
SPCH 126	Small Group Discussion	3
SPCH 127	Voice and Diction	3
SPCH 215*	Argumentation and Debate	3
SPCH 225	Advanced Public Speaking	3
SPCH 226	Speech Practicum	1-3
SPCH 295	Special Project – Speech	1-3
SOCI 105	Intercultural Communication	3

Elective **3**

*\*Offered Spring term in odd years.*

### Degree Audit

Your progress toward your degree is available through WebAdvisor. Refer to page 23 for details.

### Credits required for degree: 60

#### Suggested Sequence – Humanities Program A.A. Degree Speech Communication Option

The following sequence is an example of how this degree can be completed in two years. This sequence is based on satisfaction of all Basic Skills requirements and prerequisites and presumes a Fall Term start date. An individual's program may vary depending on transfer institution, career objectives, or individual needs. See your counselor for other options and to monitor your progress.

Course Code	Credits	Course Code	Credits
<b>SEMESTER 1 – Fall Term</b>		<b>SEMESTER 2 – Spring Term</b>	
SPCH 115	3	SPCH 130	3
ENGL 121	3	History	3
Humanities	3	ENGL 122	3
Mathematics <sup>(1)</sup>	3-4	Science (with lab) <sup>(1)</sup>	4
Mathematics/Science/Technological Competency or Information Literacy <sup>(1)</sup>	3-4 15-17	Social Sciences	3
<b>SEMESTER 3 – Fall Term</b>		<b>SEMESTER 4 – Spring Term</b>	
Career Studies	3	Career Studies	3
Career Studies	3	Cultural & Global Awareness <sup>(2)</sup>	3
History	3	Humanities	3
Humanities	3	Mathematics or Science <sup>(1)</sup>	3-4
Social Sciences	3	Elective	3
	15		15-16

<sup>(1)</sup> A minimum of 12 credits are required from the Mathematics, Sciences or Technological Competency or Information Literacy knowledge areas.

<sup>(2)</sup>One course is required from the Cultural & Global Awareness knowledge area. Students may meet the requirement while simultaneously fulfilling the General Education requirement for another knowledge area.

# Sustainable Energy A.A.S. Degree

This program is designed to prepare graduates for careers in energy services. Scientific, engineering, and business principles are integrated for workplace application in the emerging green industries. Graduates can function in a variety of employment opportunities including construction, marketing, and energy services. This program, while not designed for transfer, may transfer in part or in its entirety to four-year schools.

## Graduates of this program will be able to:

- ▶ Analyze the sustainability of current energy resources
- ▶ Discuss the environmental impact of energy consumption
- ▶ Conduct energy audits
- ▶ Incorporate basic business principles into energy management
- ▶ Demonstrate knowledge of basic electrical skills
- ▶ Utilize wind and biomass knowledge to manage energy issues
- ▶ Communicate in a manner that reflects an understanding of the sustainable energy field
- ▶ Use the scientific method to develop critical thinking skills and quantitative analytical proficiency

## Requirements

General Education – 24 credits as described below:

Code	Course	Credits
ENGL 121	English Composition: Writing Process	3
SPCH 115	Public Speaking OR	3
ENGL 122	English Composition: Writing and Research	3
ECON 105	Macro Economics	3
MATH 151	Intermediate Algebra	4
CHEM 116	Chemistry in Life	4
PHYS 108	Physics in Life	4
HIST 107	Contemporary World History	3

## Career Studies - 37 credits

Code	Course	Credits
BUSI 105	Introduction to Business	3
BUSI 205	Principles of Management	3
ELEC 103	Electrical Skills and Techniques	4
ELEC 111	Electrical Circuits	4
ENEG 125	Introduction to Sustainable Energy	3
ENEG 126	Principles of Energy Management	3
ENEG 225	Wind and Wave Technology	3
ENEG 226	Photovoltaic and Biofuel Technology	4
ENVR 107	Environmental Science	4
ENVR 121	Physical Geography	3
POLI 228	Environmental Politics and Policy	3

## Degree Audit

Your progress toward your degree is available through WebAdvisor. Refer to page 23 for details.

## Credits required for degree: 61

### Suggested Sequence – Sustainable Energy A.A.S.

The following sequence is an example of how this degree may be completed in two years. This sequence is based on satisfaction of all Basic Skills requirements and prerequisites and presumes a Fall Term start date. An individual's program may vary depending on transfer institution, career objectives, or individual needs. See your counselor for other options and to monitor your progress.

Course Code	Credits	Course Code	Credits
<b>SEMESTER 1 – Fall Term</b>		<b>SEMESTER 2 – Spring Term</b>	
ENGL 121	3	SPCH 115 or ENGL 122	3
MATH 151	4	BUSI 105	3
ENVR 107	4	CHEM 116	4
ENVR 121	3	ELEC 103	4
ENEG 125	3	ENEG 126	3
	17		17
<b>SEMESTER 3 – Fall Term</b>		<b>SEMESTER 4 – Spring Term</b>	
ECON 105	3	HIST 107	3
PHYS 108	4	POLI 228	3
ELEC 111	4	BUSI 205	3
ENEG 225	3	ENEG 226	4
	14		13

# Technical Studies Program A.A.S. Degree

## Business Management Option

This career program is designed for students with prior work experience and apprenticeship training to earn an Associate's degree and pursue a business career related to their technical expertise. Students may be granted up to 25 college credits from training programs approved by the American Council on Education. Students complete course work that provides management training for employment opportunities in business or in establishing their own business.

### Graduates of this program will be able to:

- ▶ Analyze business situations and develop effective plans for achievement of goals
- ▶ Utilize appropriate technology to solve business-related problems
- ▶ Make decisions that reflect an understanding of how political-legal, competitive, technological, economic and social issues influence business
- ▶ Communicate an understanding of business principles in written and oral form
- ▶ Demonstrate effective team/interpersonal skills

### Requirements

General Education – 20 credits as described on page 50.

Technical Core – A maximum of 25 credits (if student does not have 25 technical credits, the remaining credits can be elective credits approved by assigned counselor or can be completed through the apprenticeship program while also taking Brookdale courses) from the following:

Apprenticeship Training	
Military Training	
Trade/Proprietary Education	25

### Career Studies – 18 credits as follows:

BUSI 105	Introduction to Business	3
BUSI 165	Computer Applications in Business	3
BUSI 205	Principles of Management	3
BUSI 206**	Supervisory Management	3
BUSI 231*	Human Resource Management	3
BUSI 241**	Small Business Management	3

**Total Credits for Degree** **63**

\*Offered Fall term only

\*\*Offered Spring term only

### Degree Audit

Your progress toward your degree is available through WebAdvisor. Refer to page 23 for details.

### Credits required for degree: 63

#### Suggested Sequence – Technical Studies A.A.S. Degree Business Management Option

The following sequence is an example of how this degree can be completed in two years. This sequence is based on satisfaction of all Basic Skills requirements and prerequisites and presumes a Fall Term start date. An individual's program may vary depending on transfer institution, career objectives, or individual needs. See your counselor for other options and to monitor your progress.

Course Code	Credits	Course Code	Credits
<b>SEMESTER 1 – Fall Term</b>		<b>SEMESTER 2 – Spring Term</b>	
ENGL 121	3	Communications	3
General Education <sup>(1)</sup>	3	BUSI 165	3
BUSI 105	3	Mathematics or Science or Technological or Info Literacy	3-4
Technical Core	<u>6</u>	Technical Core	<u>7</u>
	15		16-17
<b>SEMESTER 3 – Fall Term</b>		<b>SEMESTER 4 – Spring Term</b>	
Humanities	3	BUSI 206**	3
BUSI 205	3	BUSI 241**	3
BUSI 231*	3	General Education	2-3
Social Sciences	3	Technical Core	6
Technical Core	<u>6</u>		14-15
	18		

\*Offered Fall Term only

\*\*Offered Spring Term only

<sup>(1)</sup> One course is recommended from the Cultural & Global Awareness knowledge area.

# Theater Option

## Humanities A.A.

Students who wish to specialize in acting or musical theater should select this option. Upon successful completion of the option, students will be prepared for the rigors of a Bachelor of Arts, Bachelor of Fine Arts, or his/her immediate entry into the market place. This option provides students an opportunity to select a career path in either acting or musical theater. The student will focus on and receive the fundamental and advanced acting skills or voice skills along with the practical training necessary for success in improvisation, basic and advanced character development, movement and auditioning techniques. The skills students develop in this option will prove valuable in career fields such as sales, government, public relations and broadcasting.

Graduates of this program will be able to:

- ▶ Examine the history, traditions, and literary richness of theater
- ▶ Research and organize the text to clearly, critically and creatively make logical decisions and choices on character development
- ▶ Evaluate information from a variety of sources for efficient and effective creative expression
- ▶ Communicate effectively through oral, physical, and aesthetic interpretation and interaction with the text, cast and audience
- ▶ Apply basic principles of stage performance, design, and technical skills
- ▶ Apply advanced principles of stage performance, design, and technical skills **(Acting Specialization)**
- ▶ Produce an optimal vocal quality and sound for any number of musical styles, interpretations or techniques **(Musical Theater Specialization)**

**For additional information on transfer visit the Transfer Resources website at <http://transfer.brookdalecc.edu>**

### Requirements

General Education – 45 credits as described on page 50.

The following general education courses are recommended for students choosing this program:

#### HUMANITIES:

THTR 135	Musical Theater	3
	OR	
THTR 105	Theater Appreciation	3

#### Career Studies – 12 credits as described below:

THTR 111	Acting I	3
THTR 112	Acting II	3

#### Career Studies – 6 credits from among the following:

*Students seeking to specialize in Musical Theater should select the following:*

MUPF 111	Voice I	3
MUPF 112	Voice II	3

*Students seeking to specialize in Acting should select the following:*

THTR 213	Acting III	3
THTR 222	Acting IV	3

#### Elective 3

Recommended:

DANC 111	Introduction to Dance I (for Musical Theater students)	3
THTR 121	Basic Directing (for Acting students)	3

### Degree Audit

Your progress toward your degree is available through WebAdvisor. Refer to page 23 for details.

### Credits required for degree: 60

#### Suggested Sequence – Humanities A.A. Theater Option

The following sequence is an example of how this degree can be completed in two years. This sequence is based on satisfaction of all Basic Skills requirements and prerequisites and presumes a Fall Term start date. An individual's program may vary depending on transfer institution, career objectives, or individual needs. See your counselor for other options and to monitor your progress.

Course Code	Credits	Course Code	Credits
<b>SEMESTER 1 – Fall Term</b>		<b>SEMESTER 2 – Spring Term</b>	
THTR 111	3	THTR 112	3
ENGL 121	3	ENGL 122	3
Humanities	3	Mathematics or Science <sup>(1)</sup>	3-4
Mathematics <sup>(1)</sup>	3-4	SPCH 115	3
Social Sciences	3	THTR 105 or THTR 135	3
	15-16		15-16
<b>SEMESTER 3 – Fall Term</b>		<b>SEMESTER 4 – Spring Term</b>	
MUPF 111 or THTR 213	3	MUPF 111 or THTR 213	3
Science (with lab) <sup>(1)</sup>	3	History	3
Humanities	4	Social Sciences	3
History	3	Cultural & Global Awareness <sup>(2)</sup>	3
Mathematics/Science/Technological Competency or Information Literacy <sup>(1)</sup>	3-4 16-17	Elective	3
			15

<sup>(1)</sup> A minimum of 12 credits are required from the Mathematics, Sciences or Technological Competency or Information Literacy knowledge areas.

<sup>(2)</sup> One course is required from the Cultural & Global Awareness knowledge area. Students may meet the requirement while simultaneously fulfilling the General Education requirement for another knowledge area.

# Video Production Option

## Communication Media Program A.A.S. Degree

This option prepares students for entry-level positions in the video industry. Hands-on experience, with an emphasis on digital technology, provides the skills necessary to plan programming and assist production as a camera operator, audio recordist, technical director, or general crew member. Students who wish to continue at the four-year level should consider one of the options of the Humanities A.A. Program.

### Graduates of this program will be able to:

- ▶ Demonstrate proficiency with television studio equipment, digital audio and digital video technology
- ▶ Create projects that adhere to a variety of aesthetic principles
- ▶ Apply concepts about the history and nature of television production

### Requirements

General Education – 20 credits as described on page 50.

Career Studies – 21 credits as follows:

Code	Course	Credits
COMM 101	Communication	3
COMM 102	Communication Media	3
COMM 115	Audio in Media	3
TELV 115	TV: Aesthetics and Analysis	3
TELV 121	Television Production	3
TELV 122	Digital Video Production	3
TELV 224	Video Editing and Post Production	3

Career Studies – 15 credits from among the following:

CINE 105	Film Appreciation: The Motion Picture as an Art Form	3
COMM 216*	Advanced Digital Audio/Musical Recording	3
DGMD 101	Introduction to Digital Media	3
DIGM 115	Digital Editing: After Effects	3
DIGM 116	Production & Storyboarding: Photoshop	3
TELV 295	Special Projects–Television	1-6
TELV 299	Television Internship	1-6

Electives **4**

*\*Offered Spring term only*

### Degree Audit

Your progress toward your degree is available through WebAdvisor. Refer to page 23 for details.

## Credits required for degree: 60

### Suggested Sequence – Communication Media A.A.S. Program Degree Video Production Option

The following sequence is an example of how this degree can be completed in two years. This sequence is based on satisfaction of all Basic Skills requirements and prerequisites and presumes a Fall Term start date. An individual's program may vary depending on transfer institution, career objectives, or individual needs. See your counselor for other options and to monitor your progress.

Course Code	Credits	Course Code	Credits
<b>SEMESTER 1 – Fall Term</b>		<b>SEMESTER 2 – Spring Term</b>	
COMM 101	3	COMM 102	3
TELV 115	3	TELV 122	3
TELV 121	3	Communication	3
ENGL 121	3	Social Sciences	3
Humanities	3	General Education <sup>(1)</sup>	3
	<u>15</u>		<u>15</u>
<b>SEMESTER 3 – Fall Term</b>		<b>SEMESTER 4 – Spring Term</b>	
COMM 115	3	TELV 224	3
TELV 224 or		Career Studies	6
Career Studies	3	General Education	3
Career Studies	6	Elective	4
Mathematics or Science or			16
Technological or Info Literacy	3-4		
	<u>15-16</u>		

<sup>(1)</sup> One course is recommended from the Cultural & Global Awareness knowledge area.

# Web Site Development Option

## Computer Science Program A.A.S. Degree

Students wishing to gain a technical proficiency and expertise in planning, design, development, implementation and maintenance of web sites should choose this option. Upon completion, the student will be prepared to enter the web developer field. Students will learn the necessary languages, tools, concepts and technical skills. This degree is not designed to transfer, although the student will find that many of the courses which provide for a foundation in computer science may transfer.

### Graduates of this program will be able to:

- ▶ Analyze problems
- ▶ Create effective algorithms
- ▶ Code, debug, test, and document programs using basic control structures
- ▶ Create programs which use Graphical User Interfaces
- ▶ Plan and develop interactive web sites
- ▶ Enable access to databases
- ▶ Efficiently use HTML, XML and web site development tools
- ▶ Enhance web sites through scripting and programming
- ▶ Analyze and design systems

### Degree Audit

Your progress toward your degree is available through WebAdvisor. Refer to page 23 for details.

### Requirements

General Education – 20 credits of general education as described on page 50.

### Career Studies – 30 credits as follows:

COMP 126	Computer Logic and Design	3
COMP 145	Introduction to UNIX	3
COMP 166	Web Design Using HTML	3
COMP 171	Programming I	3
COMP 185	Programming in Visual Basic.NET	3
COMP 226	Systems Analysis and Design	3
COMP 267	Client Side Using JavaScript	3
COMP 268	Server Side Scripting	3
COMP 269	Database Concepts	3
COMP 296	Advanced Software Project	3

### Technical Electives – 9 credits from among the following:

BUSI 171	E-Business Technologies	3
COMP 140	Designing/Developing Web Sites	3
COMP 265	Spreadsheets Using EXCEL	3
COMP 299	Computer Science Internship	3
NETW 115	E-Commerce System Design	3

Electives 1

### Graduates of this certificate program will be able to:

- ▶ Plan and develop interactive web sites
- ▶ Enable access to databases
- ▶ Efficiently use HTML, XML and web site development tools
- ▶ Enhance web sites through scripting and programming

### Requirements

General Education – 6 credits:

Code	Course	Credits
<b>Required:</b>		
ENGL 121	English Composition: The Writing Process	3

### Recommended:

COMP 129	Information Technology	3
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### Career Studies – 21 credits as follows:

COMP 126	Computer Logic and Design	3
COMP 145	Introduction to UNIX	3
COMP 166	WEB Design Using HTML	3
COMP 171	Programming I	3
COMP 267	Client Side Using JavaScript	3
COMP 268	Server Side Scripting	3
COMP 269	Database Concepts	3

## Webmaster Administration Academic Credit Certificate

Students wishing to gain a technical proficiency and expertise in planning, developing, implementing and maintaining web sites should choose this certificate program. Upon completion of the certificate coursework students will be prepared to enter the webmaster administration field.

### Technical Electives - 3 credits from among the following:

BUSI 171	E-Business Technologies	3
COMP 140	Designing/Developing WEB Sites	3
COMP 265	Spreadsheets Using EXCEL	3
NETW 115	E-Commerce System Design	3

**Total Certificate Credits 30**

### Credits required for degree: 60

#### Suggested Sequence – Computer Science Program A.A.S. Degree

#### Web Site Development Option

The following sequence is an example of how this degree can be completed in two years. This sequence is based on satisfaction of all Basic Skills requirements and prerequisites and presumes a Fall Term start date. An individual's program may vary depending on transfer institution, career objectives, or individual needs. See your counselor for other options and to monitor your progress.

Course Code	Credits	Course Code	Credits
<b>SEMESTER 1 – Fall Term</b>		<b>SEMESTER 2 – Spring Term</b>	
COMP 126	3	COMP 171	3
COMP 145	3	COMP 269	3
COMP 166	3	Communications	3
ENGL 121	3	Mathematics or Science or Technological or Info Literacy	3-4
Humanities	3	Technical Electives	3
	15		15-16
<b>SEMESTER 3 – Fall Term</b>		<b>SEMESTER 4 – Spring Term</b>	
COMP 185	3	COMP 296	3
COMP 226	3	Technical Electives	6
COMP 267	3	General Education <sup>(1)</sup>	6
COMP 268	3		
Social Sciences	3		
	15		15

<sup>(1)</sup> One course is recommended from the Cultural & Global Awareness knowledge area.

# Women’s Studies Option

## Humanities Program A.A. Degree

This option is designed for students interested in women’s issues, concerns and experiences across disciplines and in a global context. Women’s roles in – and contributions to – history, literature, culture, and science will also be examined. Students choosing this option may transfer to a four-year college where Women’s Studies is offered as a major or minor or paired with another discipline such as Literature, History, Psychology or Sociology. Knowledge of Women’s Studies is an asset for students choosing careers in teaching, counseling, research, social work, human services, and other areas.

Graduates of this program will be able to:

- ▶ Discuss and appreciate diverse historical, scientific, economic, literary, artistic, cultural, and social perspectives of women
- ▶ Describe and express awareness of the conditions of women through written and verbal communication in classroom and community settings
- ▶ Examine issues, perspectives, methodologies and research in the interdisciplinary, multicultural, academic field of Women’s Studies
- ▶ Discuss the intersection of identities such as gender, race, class, sexuality, ability and age
- ▶ Describe how the word “feminism” has been used and misused from historical to contemporary times

### Requirements

General Education – 45 credits as described on page 50.

Career Studies – 3 credits

Code	Course	Credits
HUMN 129	Issues in Women’s Studies	3

Career Studies – 9 credits from among the following:

ENGL 128*	Writing from the Female Experience	3
ENGL 175	Woman as Author	3
HIST 125	Women’s History Survey: Experiences, Contributions and Debates	3
HUMN 230**	Women and Science	3

Elective **3**

\*\*Offered Spring term only

\*Offered Fall term only

### Degree Audit

Your progress toward your degree is available through WebAdvisor. Refer to page 23 for details.

### Credits required for degree: 60

#### Suggested Sequence – Humanities Program A.A. Degree Women’s Studies Option

The following sequence is an example of how this degree can be completed in two years. This sequence is based on satisfaction of all Basic Skills requirements and prerequisites and presumes a Fall Term start date. An individual’s program may vary depending on transfer institution, career objectives, or individual needs. See your counselor for other options and to monitor your progress.

Course Code	Credits	Course Code	Credits
<b>SEMESTER 1 – Fall Term</b>		<b>SEMESTER 2 – Spring Term</b>	
HUMN 129	3	Career Studies	3
Mathematics/Science/Technological Competency or Information Literacy <sup>(1)</sup>	3-4	ENGL 122	3
ENGL 121	3	Mathematics or Science <sup>(1)</sup>	3-4
Humanities	3	History	3
Mathematics <sup>(1)</sup>	3-4	Social Sciences	3
	15-17		15-16
<b>SEMESTER 3 – Fall Term</b>		<b>SEMESTER 4 – Spring Term</b>	
Career Studies	3	Career Studies	3
Humanities	3	Social Sciences	3
Science (with lab) <sup>(1)</sup>	4	Cultural & Global Awareness <sup>(2)</sup>	3
SPCH 115	3	Humanities	3
History	3	Elective	3
	16		15

<sup>(1)</sup> A minimum of 12 credits are required from the Mathematics, Sciences or Technological Competency or Information Literacy knowledge areas.

<sup>(2)</sup> One course is required from the Cultural & Global Awareness knowledge area. Students may meet the requirement while simultaneously fulfilling the General Education requirement for another knowledge area.

**For-additional information on transfer visit the Transfer Resources website at <http://transfer.brookdalecc.edu>**