

# DUTCHESS COMMUNITY COLLEGE PROGRAMS

HEGIS CODE	PROGRAM	Degree	Page	HEGIS CODE	PROGRAM	Degree	Page
	ART				FIRE SCIENCE		
5012	Advertising - Commercial Art (CAR)	A.A.S.	37	5507	Fire and Occupational Safety (FIR)	A.S.	64
5610	Art Studies (ASP)	A.S.	38	5507	Fire Protection Technology (FPT)	A.A.S.	65
5610	Visual Arts (VAT)	A.S.	39	5649	GENERAL STUDIES (GSP)	A.S.	66
	ARCHITECTURAL AND CONSTRUCTION TECHNOLOGIES				HUMAN SERVICES		
5304	Architectural Technology (ARC)	A.A.S.	40	5501	Human Services (HMS)	A.S.	67
5317	Construction Technology Management (CNS)	A.A.S.	41	5503	Child Care (CHC)	A.A.S.	69
	AVIATION SCIENCE: PILOT (AVI)	A.S.	42	5216	Mental Health Assistant (CMH)	A.A.S.	70
	BUSINESS			5506	Chemical Dependency Counseling (CDC)	Certificate	71
5002	Accounting (ACC)	A.A.S.	43	5503	Child Care: Direct Care (DRC)	Certificate	71
5004	Business Administration (BUS)	A.A.S.	44		LIBERAL ARTS AND SCIENCES		
5004	Business Administration (Transfer) (BAT)	A.S.	45	5649	Humanities and Social Sciences (LAH)	A.A.	72
5099	Paralegal (PAL)	A.A.S.	46	5649	Advisement Track for Creative Writing and Informational Writing	A.A.	73
5002	Bookkeeping (BOK)	Certificate	47	5649	LAH Honors Advisement Sequence		74
5099	Paralegal Certificate (PLL)	Certificate	47	5617	Mathematics (LAM)	A.A.	75
	COMMUNICATIONS AND MEDIA ARTS (COM)	A.S.	48	5649	Science (LAX)	A.S.	76
	COMPUTER INFORMATION SYSTEMS				LIBERAL ARTS AND SCIENCES - EDUCATION		
5101	Computer Information Systems (CIS)	A.A.S.	49	5649	Adolescent Education 7-12 with SUNY New Paltz:		77
5101	C++/Java Advanced Programming (CJC)	Certificate	50		Biology (EDB)	A.S.	78
5101	Computer Networking (CNC)	Certificate	50		Chemistry (EDX)	A.S.	78
5101	Computer Software Support (SSC)	Certificate	51		Earth Science (EDS)	A.S.	79
5101	Web Administration (WAC)	Certificate	51		English (EDL)	A.S.	79
5101	Information Management (INM)	A.S.	52		French (EDF)	A.S.	80
	COMPUTER SCIENCE (CPS)	A.S.	54		History/Social Studies (EDH)	A.S.	80
	CRIMINAL JUSTICE				Mathematics (EDM)	A.S.	81
5505	Criminal Justice (Transfer) (CRT)	A.S.	55		Spanish (EDP)	A.S.	81
5505	Criminal Justice - Public and Private Security (CRJ)	A.A.S.	56	5649	Childhood Education 1-6 with SUNY New Paltz (EDC)	A.S.	82
	EARLY CHILDHOOD			5649	Early Childhood Education Birth - Grade 2 with SUNY New Paltz (EDE)	A.S.	84
5503	Early Childhood (ECH)	A.A.S.	57	5649	Advisement Track for Mount Saint Mary: Options in Childhood Education, Adolescence Education, and Teaching Students with Disabilities	A.S.	86
5503	Early Childhood Caregiver (ECC)	Certificate	58	5503	Teacher Assistant (TEA)	Certificate	87
	ENGINEERING SCIENCE AND TECHNOLOGIES				MEDICAL AND ALLIED HEALTH TECHNOLOGIES		
5310	Electrical Engineering Technology (ELT)	A.A.S.	59	5205	Medical Laboratory Technology (MLT)	A.A.S.	88
5609	Engineering Science (Transfer) (ENR)	A.S.	60	5299	Emergency Medical Technician - Paramedic (PAR)	A.A.S.	89
5310	Telecommunications Technology: Verizon (TEN)	A.A.S.	61	5205	Phlebotomist (PDC)	Certificate	90
5699	Advanced Science and Mathematics Studies (ASM)	Certificate	62	5208.10	NURSING (NUR)	A.A.S.	91
5317	Air Conditioning and Refrigeration Technology (ACR)	Certificate	62		For residents of Putnam and Dutchess Counties		
	EXERCISE SCIENCE AND WELLNESS (ESW)	A.S.	63		PERFORMING ARTS		
				5610	Music Performance (MPC)	Certificate	92
				5610	Music Advisement Track	A.S.	93
				5610	Performing Arts (PFA)	A.S.	94
					Courses Applicable in All Programs		95
					Free Elective		96
					SUNY General Education Requirement		97

Dutchess Community College is part of the State University of New York system, and is accredited by the Middle States Association of Colleges and Schools.

# DUTCHESS COMMUNITY COLLEGE ACADEMIC OBJECTIVES

DCC's General Education Objectives were developed to ensure that students in all courses and programs are exposed to core skills and understandings that serve to provide a solid foundation upon which learners can build. Whether the student is planning to transfer to continue toward the baccalaureate degree, or plans to enter the workplace upon completing a course of study, the College has upheld, since its inception, the need for quality in all of its courses and programs.

The course constitutes the starting point for identifying the component skills and awarenesses that are built into the learning experience and which the student is expected to demonstrate through the products and various assignments appropriate to the content of the course. These learning outcomes become the basis on which the student's level of mastery or the ability to express the planned-for outcomes is made explicit.

**A minimum of two of the 10 DCC Academic Objectives should be met in each course. The Dutchess Community College Academic Objectives are to:**

**Develop Essential Competencies in the following areas:**

1. Critical Thinking, Problem Solving and Decision Making
2. Reading and Writing
3. Oral/Aural or Visual Communication
4. Mathematics
5. Computers & Technology

**Strengthen Student Awareness in the following areas:**

6. Literature, Fine Arts and other Humanities
7. Natural Science
8. Social and Behavioral Science
9. Cultures Other Than Our Own
10. Personal Development and Wellness



## ART ADVERTISING - COMMERCIAL ART (CAR) (HEGIS 5012)

The program introduces students to basic skills and knowledge needed to pursue a career or further study in the visual arts. Students may select courses from an area of interest (graphic design, photography, painting/illustration, ceramics) or may elect courses in a wide variety of studio areas.

The Associate in Applied Science (A.A.S.) degree is awarded upon completion of the requirements for this program.

Upon successful completion of the CAR program, students will be able to:

- Create basic drawing, two-dimensional, and three-dimensional art projects that incorporate research, visual idea development, and communication of visual concepts and schemes including structure, form, space, composition, line, color, balance, perspective, and synthesis.
- Show proficiency in creating works of art incorporating thinking (researching, creating), doing (designing, working, building), and communicating (presenting and analyzing).
- Analyze their and others' artwork in terms of description, comparison, and evaluation of design elements, principles, methods, goals, content, meaning, relevance, and perspective.
- Create a portfolio of work in one or more art areas of choice, including graphic design, ceramics, photography, calligraphy, and mixed media.

Courses should be selected in consultation with an advisor.



Course No.	Descriptive Title	Cr.Hrs.
<b>FIRST SEMESTER</b>		
ENG 101	Composition I	3
ECO 105, GOV 121, HIS 104, HIS 108		3
ART 110	Two-Dimensional Design	3
ART 111	Three-Dimensional Design	
or 120	Color Theory and Painting	3
ART 112	Drawing I	3
ART 100	Visual Arts Introductory Seminar	<u>1</u>
	<b>TOTAL</b>	<b>16</b>
<b>SECOND SEMESTER</b>		
ENG 102	Composition II	3
ART 111	Three-Dimensional Design	
or 120	Color Theory and Painting	3
ART 113	Drawing II	3
ART 101	History of Art	3
ART:	Studio (select one course) (d)	3
WFE 101	Lifetime Wellness and Fitness	<u>3</u>
	<b>TOTAL</b>	<b>18</b>
<b>THIRD SEMESTER</b>		
Science (a)		4
ART 102	History of Modern Art	3
ART:	Studio (select two courses) (d)	6
Elective (b)		<u>3</u>
	<b>TOTAL</b>	<b>16</b>
<b>FOURTH SEMESTER</b>		
Science (a)		4
BHS 103	Social Problems in Today's World	3
ART:	Studio (select two courses) (d)	6
Free Elective (c)		<u>3-4</u>
	<b>TOTAL</b>	<b>16-17</b>
	<b>TOTAL CREDIT HOURS</b>	<b>66</b>

**NOTE:** In addition to the course requirements for this curriculum, all matriculated students must demonstrate proficiency in basic quantitative skills by earning a passing score on the numerical skills placement test. Students who do not earn a passing score on this test will be required to take CSM 090 and earn a grade of C or better.

a. Science courses: Applicable four-credit courses in astronomy, biology, chemistry, geology, physical sciences, physics. See page 97.

b. Elective courses: Courses applicable in this program are: (b) courses applicable in all programs. See page 95.

c. See page 96 for a full discussion of the free elective requirement. The subject area for Art includes all courses labeled ART.

d. A studio art course is defined as any ART course with lab contact hours (with the exception of ART 260 Internship.)

## ART ART STUDIES (ASP) (HEGIS 5610)

The Art Studies program is designed for students who are interested in transferring to a baccalaureate institution in order to pursue an interest in art. Articulations exist to facilitate student transfer into Art Education programs at the bachelor's level. Students will study foundations courses in studio art and art history. The program also includes at least 30 credits to allow students to fulfill all 10 of SUNY's General Education requirements.

The Associate in Science (A.S.) degree is awarded upon completion of the requirements for this program.

Upon successful completion of the ASP program the student will:

- \* Explore possible transfer options to four-year colleges and universities as well as possible career opportunities in the field of Art.
- \* Create an Artist's Portfolio containing samples of their artwork at DCC for review by transfer institutions.
- \* Satisfy all 10 of the SUNY General Education course requirements prior to transfer to a four-year institution.
- \* Create basic drawing, two-dimensional, and three-dimensional art projects that incorporate research, visual idea development, and communication of visual concepts and schemes including structure, form, space, composition, line, color, balance, perspective, and synthesis.
- \* Analyze their own and others' artwork in terms of description, comparison, and evaluation of design elements, principles, methods, goals, content, meaning, relevance, and voice.
- \* Explore one or more Art areas of choice, including graphic design, ceramics, photography, calligraphy, and mixed media.



Course No.	Descriptive Title	Credits
<b>FIRST SEMESTER</b>		
ENG 101	English Composition I	3
	Foreign Language	3
ART 100	Visual Art Introductory Seminar	1
ART 110	Two-Dimensional Design (b) or	
ART 111	Three-Dimensional Design (b)	3
ART 112	Drawing I	3
BHS 103	Social Problems in Today's World	<u>3</u>
	<b>TOTAL</b>	<b>16</b>
<b>SECOND SEMESTER</b>		
	Studio Art (b) or Transfer Specific Course (a)	3
ART 113	Drawing II	3
ENG 102	English Composition II	3
MAT 109	Survey of Mathematics or higher	3
	American History (a)	<u>3</u>
	<b>TOTAL</b>	<b>15</b>
<b>THIRD SEMESTER</b>		
ART 101	History of Art	3
	Studio Art (b) or Transfer Specific Course (a)	3
WFE 101	Lifetime Wellness and Fitness	3
	Science (a)	4
PSY 111	Psychological Principles I	<u>3</u>
	<b>TOTAL</b>	<b>16</b>
<b>FOURTH SEMESTER</b>		
	Professional Communication (c)	3
	Human Development (a)	3
	Western Civilization (a)	3
	(ART102 unless other course required)	
	Other World Civilizations (a)	3
	Studio Art (b)/Transfer Specific Course (a)	3
	Free Elective (a) (b)	<u>3-4</u>
	<b>TOTAL</b>	<b>18</b>
	<b>TOTAL CREDIT HOURS</b>	<b>65</b>

a. Select PSY 203, PSY 204 or PSY 221 for the Human Development requirement based on the specific transfer school requirement. Students should consult with their academic advisors and with the DCC transfer counselor to match course recommendations for these areas with the specific transfer schools. In cases where there is no specific requirement for a category, another course may be selected. When selecting courses, students should be aware of prerequisite requirements for each institution. Select a SUNY General Education course on page 97.

b. Students should consult with their academic advisors and with the DCC transfer counselor to determine which studio art courses to select including foundations courses (ART 110, 111, 112, 113, 120). A studio art course is defined as any ART course with lab contact hours (with the exception of ART 260 Internship.)

c. A Professional Communication course is usually SPE 101 Public Speaking or THE 120 Performing Skills for the Classroom. Students should consult with their academic advisor for transfer specific courses.

**ART  
VISUAL ARTS (VAT)  
(HEGIS 5610)**

This program will provide an option for students who are interested in pursuing an associate degree in the Visual Arts with a goal of transferring to a baccalaureate institution. This program will provide a strong foundation in art while offering opportunities to pursue areas of particular interest in graphic design, ceramics, photography, calligraphy, and mixed media. Students may select courses from an area of interest (drawing, painting, ceramics, photography, graphic design, mixed media) or may elect courses in a variety of studio areas. Potential post-transfer careers include textile and fashion design, interior design, product and industrial design, museum and gallery work, art restoration, arts administration, art therapy, display design, motion graphics and animation, graphic design for print, web and other applications, photography and studio art. This degree will satisfy 9 out of 10 state-mandated General Education requirements, thus emphasizing the importance of liberal arts studies in preparation for the BA or BFA degree.

The Associate of Science (A.S.) degree is awarded upon completion of requirements for this program.

Upon successful completion of the VAT program, students will be able to:

- Explore possible transfer options to four-year colleges and universities as well as possible career opportunities in the field of Visual Art.
- Create a portfolio of work in one or more art areas of choice, including graphic design, ceramics, photography, calligraphy, and mixed media at DCC for review by transfer institutions.
- Create basic drawing, two-dimensional, and three dimensional art projects that incorporate research, visual idea development, and communication of visual concepts and schemes including structure, form, space, composition, line, color, balance, perspective, and synthesis.
- Show proficiency in creating works of art incorporating thinking (researching, creating), doing (designing, working, building), and communication (presenting and analyzing).
- Analyze their and others artwork in terms of description, comparison, and evaluation of design elements, principles, methods, goals, content, meaning, relevance, and perspective.

Course No.	Descriptive Title	Credits
<b>FIRST SEMESTER</b>		
ENG 101	Composition I	3
MAT 109 or higher	(b)	3
ART 110	Two-Dimensional Design	3
ART 120	Color Theory and Painting	3
ART 112	Drawing I	3
ART 100	Visual Arts Introductory Seminar	1
	<b>TOTAL</b>	<b>16</b>
<b>SECOND SEMESTER</b>		
ENG 102	Composition II	3
HIS 104, HIS 108 or GOV 121		3
ART 113	Drawing II	3
ART 111	Three-Dimensional Design	3
ART 101	History of Art	3
	<b>TOTAL</b>	<b>15</b>
<b>THIRD SEMESTER</b>		
BHS 103	Social Problems in Today's World	3
Science (c)		4
ART 102	History of Modern Art	3
ART Studio Course (a)		3
ART Studio Course (a)		3
	<b>TOTAL</b>	<b>16</b>
<b>FOURTH SEMESTER</b>		
WFE 101	Lifetime Wellness and Fitness	3
Other World Civilizations (e)		3
Free Elective (d)		3
ART Studio Course (a)		3
ART Studio Course (a)		3
	<b>TOTAL</b>	<b>15</b>
	<b>TOTAL CREDITS HOURS</b>	<b>62</b>

a. Art Studio courses: Students must select a minimum of 4-5 courses\*\* from the list of Art courses below. At least 1 course must be a 200-level course. Students should be aware of pre-requisite course requirements of the institutions to which they intend to transfer, therefore, consult with their academic advisors and the DCC transfer counselor when selecting courses listed below.

ART 140, 142, 145, 147, 150, 151, 153, 154, 155, 157, 161, 172  
ART 209, 222, 225, 226, 227, 254, 255, 257, 264, 274, 275

\*\*Note: Students preparing to concentrate in Art History at a transfer institution should take ART 103 as a concentration course and a foreign language as their free elective. Students are urged to speak with their transfer institution for possible further requirements.

b. Math: Some transfer colleges require MAT 110 or higher.

c. Science course: select one applicable 4-credit course in astronomy, biology, chemistry, geology, physical sciences, physics. See catalog page 95.

d. Free Elective: See page 96 for a full description of the free elective requirement. The subject area for ART includes all courses labeled ART.

e. Select a course from SUNY General Education Other World Civilizations courses (Appendix F) on page 97. If HIS 108 is taken third semester, select a different course from Appendix F.

**ARCHITECTURAL AND CONSTRUCTION TECHNOLOGIES**  
**ARCHITECTURAL TECHNOLOGY (ARC)**  
**(HEGIS 5304)**

This program prepares graduates for employment opportunities in the field of architecture. In addition to being architectural technicians, graduates will be qualified to be draftspersons, engineering aides, building materials and manufacturing representatives, planning aides, and detailers, and to work with city building departments and renewal and redevelopment agencies. Dutchess Community College graduates also are able to transfer many of their credits to accredited architectural colleges. Students should have completed Sequential Math Course III prior to entry into the Architectural program.

The Associate in Applied Science (A.A.S) degree is awarded upon completion of the requirements for this program.

Upon successful completion of the ARC program, graduates can be expected to have knowledge in the following areas of study.

- Communications – Student will be able to graphically, orally and in writing present architectural ideas.
- Technology – Student will have an understanding of structures, material and methods and environmental systems.
- Practice – Student will be able to move from architectural programming and predesign activities through design and construction documentation and will have an understanding of the activities, organization and ethics of the profession.
- History/Theory – Student will have awareness about precedent, ideas, culture and history of architecture.
- Design – Student will be able to apply information from all other areas of study to solve a specific architectural problem or program.

Courses should be selected in consultation with an advisor.



Course No.	Descriptive Title	Cr.Hrs.
<b>FIRST SEMESTER</b>		
ENG 101	Composition I	3
MAT 132	Technical Mathematics II (a)	3
ARC 103	Basic Architectural Drawing (b)	3
ARC 105	Bldg. Materials & Const. I	3
ARC 104	Introduction to Computer Graphics	1
ARC 113	Architecture Introductory Seminar	1
ART 101, ART 102 or ART 104		<u>3</u>
	<b>TOTAL</b>	<b>17</b>
<b>SECOND SEMESTER</b>		
ENG 102	Composition II	3
ARC 106	Bldg. Materials & Const. II	3
ARC 110	Architectural Drawing (c)	3
ARC 122	Architectural Presentation I	2
ARC 216	Design Theory	3
WFE 101	Lifetime Wellness and Fitness	<u>3</u>
	<b>TOTAL</b>	<b>17</b>
<b>THIRD SEMESTER</b>		
ECO 105, GOV 121, HIS 104, HIS 108		3
ARC 202	Mechanics of Structures	2
ARC 123	Architectural Presentation II	2
ARC 203	Architectural Design	3
ARC 205	Working Drawings	4
ARC 211	Mechanical and Electrical Systems in Bldgs	<u>3</u>
	<b>Total</b>	<b>17</b>
<b>FOURTH SEMESTER</b>		
BHS 103	Social Problems in Today's World	3
ARC 240	Capstone Project	4
ARC 207	Structural Analysis	3
ARC 214	Professional Practice	3
Elective (d)		<u>3</u>
	<b>TOTAL</b>	<b>16</b>
	<b>TOTAL CREDIT HOURS</b>	<b>67</b>

- a. Students whose mathematics background does not include intermediate algebra and trigonometry must first take MAT 131. Qualified students may take a more advanced mathematics course.
- b. ARC 100 and ARC 101, in combination, may be taken in place of ARC 103.
- c. ARC 107 and ARC 109, in combination, may be taken in place of ARC 110.
- d. Elective courses to be taken in Mathematics (Appendix A), Humanities (Appendix G), Social Sciences (Appendix C) or Natural Science (Appendix B). See page 97.

**ARCHITECTURAL AND CONSTRUCTION TECHNOLOGIES  
CONSTRUCTION TECHNOLOGY MANAGEMENT (CNS)  
(HEGIS 5317)**

The purpose of this program is to meet the educational needs of the construction industry by training entry-level construction managers and by providing continuing education for construction employees. Graduates will be qualified to be draftspersons, engineering and construction aides, building materials and manufacturing representatives, planning aides and detailers. Dutchess Community College graduates will be able to transfer many credits to accredited construction management programs at four-year colleges.

The Associate in Applied Science (A.A.S.) degree is awarded upon completion of the requirements for this program.

Upon successful completion of the CNS program, graduates can be expected to have knowledge in the following areas of study:

- Communications – Student will be able to graphically, orally and in writing meet the requirements of an entry-level project manager.
- Technology – Student will have an understanding of structures, material and methods and environmental systems.
- Field – Student will have the skills necessary to work as an entry level project manager including the ability to read and interpret construction documents, recognize and understand contract construction documents, basic estimating and scheduling skills, surveying skills as they relate to construction and will have an understanding of the activities, organization and ethics of the profession.

Courses should be selected in consultation with an advisor.



Course No.	Descriptive Title	Cr.Hrs.
<b>FIRST SEMESTER</b>		
ENG 101	Composition I	3
MAT 132	Technical Mathematics II (a)	3
ARC 103	Basic Architectural Drawing (b)	3
ARC 105	Bldg. Materials & Const. I	3
ARC 104	Introduction to Computer Graphics	1
ARC 113	Architecture Introductory Seminar	<u>1</u>
	<b>TOTAL</b>	<b>14</b>
<b>SECOND SEMESTER</b>		
ENG 102	Composition II	3
ARC 106	Bldg. Materials & Const. II	3
ARC 110	Architectural Drawing (c)	3
ARC 214	Professional Practice	3
ENR 215	Surveying I	3
Elective (e)		<u>3</u>
	<b>TOTAL</b>	<b>18</b>
<b>THIRD SEMESTER</b>		
ECO 105, GOV 121, HIS 104, HIS 108		3
ARC 202	Mechanics of Structures	2
ARC 205	Working Drawings	4
WFE 101	Lifetime Wellness and Fitness	3
ARC 211	Mechanical & Electrical Systems in Bldg.	<u>3</u>
	<b>TOTAL</b>	<b>15</b>
<b>FOURTH SEMESTER</b>		
BHS 103	Social Problems in Today's World	3
CNS 240	Capstone Project	4
ARC 207	Structural Analysis	3
Business Elective (d)		3-4
Elective (e)		<u>3</u>
	<b>TOTAL</b>	<b>16-17</b>
	<b>TOTAL CREDIT HOURS</b>	<b>63-64</b>

- a. Students whose mathematics background does not include intermediate algebra and trigonometry first must take MAT 131. Qualified students may take a more advanced mathematics course.
- b. ARC 100 and ARC 101, in combination, may be taken in place of ARC 103.
- c. ARC 107 and ARC 109, in combination, may be taken in place of ARC 110.
- d. Business Elective to be BUS 104 or ACC 104.
- e. Elective courses to be taken in Mathematics (Appendix A), Humanities (Appendix G), Social Sciences (Appendix C) or Natural Science (Appendix B). See page 97.

## AVIATION SCIENCE: PILOT (AVI) (HEGIS 5302 )

This program offers a state-of-the-art curriculum for those students who intend to enter the field of aviation as pilots. Designed primarily for students who anticipate transferring to a four-year institution to pursue a baccalaureate degree, the program contains a balance of liberal arts and sciences courses, technical courses, and flight labs.

The program specifically prepares matriculated students to meet the stringent requirements outlined by the FAA in order to acquire a Private Pilot Certificate and Commercial Pilot Certificate, both with an Airplane Category Rating and a Single Engine Class Rating. In this process, students will gain the knowledge and proficiency necessary to acquire an Instrument Rating. Students are provided with coordinated flight training in single engine airplanes and a ground trainer. Although primarily a transfer program, Aviation Science also can lead to a rewarding entry-level career in aviation support positions concerned with other multifaceted aspects of the aviation industry.

The Associate in Science (A.S.) degree is awarded upon completion of requirements for this program.

- Student will satisfy all requirements to earn a Private Pilot License.
- Student will satisfy all requirements to earn an Instrument Rating.
- Student will satisfy all requirements to earn a Commercial Pilot License.

Courses must be selected in consultation with the Program Coordinator.

**NOTE:** An important requirement for enrollment into the Aviation Science program is the successful completion of an FAA physical, leading to a 1<sup>ST</sup> or 2<sup>ND</sup> class Medical Certificate. The Medical Certificate is required by the Federal Aviation Administration in order for enrollees to act as a Pilot in Command in a commercial environment. A list of local FAA approved doctors will be provided by the Program Coordinator.

**FEES:** Aviation Science flight labs require additional and substantial lab fees (subject to change): Private \$8,638.00 per semester; Instrument C172R \$8,805.00; Commercial Special \$6,554.50 and \$7,321.50. Prospective students are strongly encouraged to contact the Aviation Science Program Chair for more information.



**NOTE:** Students are required to pass the required FAA written exam, which will be administered at the end of each specified flight class. Flight labs will require the successful completion of stage exams, flight stage checks and at course completion, final stage check or practical test. Advancement through the program requires the above requirements being met.

Course No.	Descriptive Title	Cr. Hrs.
<b>FIRST SEMESTER</b>		
AVI 100	Aviation Introductory Seminar	1
AVI 101	Introduction to Flight	4
AVI 111	Introduction to Flight Lab (a)	1
AVI 102	Aviation History	3
ENG 101	Composition I	3
CIS 111 (or higher)		3
WFE 101	Lifetime Wellness & Fitness	3
	<b>TOTAL</b>	<b>18</b>
<b>SECOND SEMESTER</b>		
AVI 104	Instrument Flight	4
AVI 114	Instrument Flight Lab (a)	1
MAT 185	Pre-Calculus	4
PHS 111	Weather and Climate	4
ENG 102	Composition II	3
	<b>TOTAL</b>	<b>16</b>
<b>THIRD SEMESTER</b>		
AVI 208	Commercial Flight	4
AVI 218	Commercial Flight Lab I (a)	1
AVI 110	Aviation Law	3
MAT 221	Calculus I	4
PHY 121	General Physics I	4
	<b>TOTAL</b>	<b>15</b>
<b>FOURTH SEMESTER</b>		
AVI 116	Flight Safety	3
AVI 209	Commercial Flight Lab II (a)	1
HIS 104, HIS 108, GOV 121		3
PHY 122	General Physics II	4
BHS 103	Social Problems	3
Free Elective (b)		3
	<b>TOTAL</b>	<b>17</b>
	<b>TOTAL CREDIT HOURS</b>	<b>66</b>

a. Students are strongly encouraged to contact the Aviation Science Program Chair for the current negotiated fee for flight training and for course/program information. Fees are contractually set each year with the Flight School and depend heavily on current fuel charges. Students are required to pass the FAA written exam, which will be administered at the end of each specified flight class. Flight labs will require the successful completion of stage exams, flight stage checks and, at course completion, final stage check or practical test. Advancement through the program requires that each of these requirements be met. Students are given an incomplete for flight lab until the appropriate Final Stage Check has successfully been completed. Students cannot progress without completing the prerequisite courses.

b. See page 96 for a full discussion of the free elective requirement.

**BUSINESS  
ACCOUNTING (ACC)  
(HEGIS 5002 )**

This program prepares students for a variety of entry-level accounting positions, which provide opportunities for advancement. Typical positions for which graduates are qualified are bookkeeper, junior clerk, assistant auditor, cost accounting clerk, and assistant office manager.

Students who definitely plan to pursue a degree in accounting at a four-year school after completion of studies at DCC should enroll in the Business Administration Transfer Program.

The Associate in Applied Science (A.A.S.) degree is awarded upon completion of the requirements for this program.

Upon successful completion of the ACC program, students will be able to:

- Use a variety of accounting and business software
- Demonstrate knowledge of accounting principles
- Apply accounting knowledge to solve comprehensive accounting and business problems
- Have a variety of skills needed in the business environment
- Describe specialized career fields in the accounting profession
- Complete federal and state reporting requirements

Courses should be selected in consultation with an advisor.



<u>Course No.</u>	<u>Descriptive Title</u>	<u>Cr.Hrs.</u>
<u>FIRST SEMESTER</u>		
ENG 101	Composition I	3
ECO 105, GOV 121, HIS 104, HIS 108		3
ACC 101	Principles of Accounting	4
BUS 101	Business Mathematics (a)	
or	Math Elective (c)	3
BUS 103	Keyboarding for Information Processing	1
BUS 112	Introduction to Microsoft Word	2
ACC 100	Accounting Introductory Seminar (b)	<u>1</u>
	TOTAL	17
<u>SECOND SEMESTER</u>		
ENG 102	Composition II	3
ACC 102	Principles of Accounting II	4
ACC 205	Computerized Accounting Applications	2
BUS 102	Introduction to Business	
or 104	Business Organization & Management	3
BUS 109	Introduction to Microsoft Excel	1
BUS 110	Introduction to Microsoft Access	1
BHS 103	Social Problems in Today's World	<u>3</u>
	TOTAL	17
<u>THIRD SEMESTER</u>		
Math Elective (c) or Science (d)		3-4
ACC 204	Managerial Accounting	4
BUS 210	Business Communication	3
ACC 241	Income Tax Procedures	3
Elective (e)		<u>3</u>
	TOTAL	16-17
<u>FOURTH SEMESTER</u>		
Science (d)		4
ACC 213	Accounting Systems and the Computer	3
BUS 255	Office Practice	
or ACC 260	Accounting Internship	3
WFE 101	Lifetime Wellness and Fitness	3
Free Elective (f)		<u>3-4</u>
	TOTAL	16-17
	TOTAL CREDIT HOURS	66
<p>a. Recommended that BUS 101 be taken prior to or concurrently with ACC 101.</p> <p>b. ACC 100 must be taken in the first semester for full-time students or within the first 9 credits for part-time students. Students entering the ACC program who have successfully completed BUS 100 have fulfilled the ACC 100 requirement.</p> <p>c. Mathematics courses: MAT 100, 109, 110, 118, 121, 125, 184, 185 or 221. Students must meet math course prerequisites.</p> <p>d. Science courses: Applicable four-credit courses in astronomy, biology, chemistry, geology, physical sciences, physics. See page 95.</p> <p>e. Elective courses: Courses applicable in this program are: (a) specific courses listed above; (b) courses applicable in all programs see page 97; (c) also: all ACC and BUS courses except ACC 104 and ACC 110; BUS 215 RECOMMENDED.</p> <p>f. See page 96 for a full discussion of the free elective requirement. The subject area for Accounting includes all courses labeled ACC.</p>		

**BUSINESS  
BUSINESS ADMINISTRATION (BUS)  
(HEGIS 5004)**

This program provides a basic knowledge of essential business practices and procedures. In addition, it offers students the opportunity to select from a list of elective business courses such as professional selling, human resource management, small business management and advertising to name a few. Combined with the general education requirements of the college, the BUS program offers an excellent business foundation for entry-level employment.

Students intending to transfer to a four year institution should matriculate in the Business Administration Transfer (BAT) program. The BUS program is not a transfer program.

The Associate in Applied Science (A.A.S.) degree is awarded upon completion of the requirements for this program.

Upon successful completion of the BUS program, the student will be able to:

- write various styles of business correspondence
- demonstrate computer skills using MS Word, PowerPoint, and Excel
- interpret business reports including the income statement and balance sheet
- demonstrate data entry and accounting skills in maintaining business records
- demonstrate essential business mathematic skills
- demonstrate application of business law
- apply human relations and communication skills in the business world
- demonstrate application of basic management and marketing principles
- develop a basic business plan
- research business careers

Courses should be selected in consultation with an advisor.

<u>Course No.</u>	<u>Descriptive Title</u>	<u>Cr.Hrs.</u>
<u>FIRST SEMESTER</u>		
ENG 101	Composition I	3
BUS 100	Business Administration (a) Introductory Seminar	1
BUS 101	Business Mathematics	3
BUS 102	Introduction to Business	3
BUS 103	Keyboarding for Information Processing	1
BUS 112	Introduction to Microsoft Word	2
	Accounting Elective (a)	<u>3-4</u>
	TOTAL	16-17
<u>SECOND SEMESTER</u>		
ENG 102	Composition II	3
BUS 109	Introduction to Microsoft Excel I	1
BUS 110	Introduction to Microsoft Access	1
BUS 111	Introduction to Microsoft PowerPoint	1
BHS 103	Social Problems in Today's World	3
	Business Electives (b)	6
	Elective (c)	<u>3</u>
	TOTAL	18
<u>THIRD SEMESTER</u>		
BUS 210	Business Communication	3
BUS 215	Business Law I	3
ECO 105, GOV 121, HIS 104, HIS 108		3
	Business Elective (b)	3-4
	Free Elective (d)	<u>3-4</u>
	TOTAL	15-17
<u>FOURTH SEMESTER</u>		
	Science (e)	4
WFE 101	Lifetime Wellness and Fitness	3
	Business Elective (b)	6
BUS 290	Business Internship	
	or Business Elective (b)	<u>3</u>
	TOTAL	16
	TOTAL CREDIT HOURS	65

- a. Choose from the following:  
ACC 110 Professional Recordkeeping  
ACC 104 Financial Accounting  
ACC 101 Principles of Accounting
- b. Select any BUS or ACC course.
- c. Elective: Courses applicable in this program are: (a) any BUS or ACC courses (b) courses applicable in all programs.
- d. See page 96 for a full discussion of the free elective requirement. The subject area for Business Administration includes all courses labeled BUS and ACC.
- e. Science courses: Applicable four-credit courses in astronomy, biology, chemistry, geology, physical sciences, and physics. See page 95.

**BUSINESS  
BUSINESS ADMINISTRATION (BAT)  
(HEGIS 5004)**

(Transfer Program for Business Administration or Accounting Students)

This course of study is designed for students who plan to transfer to a senior college to pursue a baccalaureate degree in business administration, accounting, management, marketing, international business, or economics.

Students interested in the two-year A.A.S. program in Business Administration should see page 44. Students interested in the two-year A.A.S. program in Accounting should see page 43. Students interested in concentrations in Accounting or International Business for transfer to a four-year institution, should see the advisement tracks below.

The Associate in Science (A.S.) degree is awarded upon completion of the requirements for this program

Upon completion of the BAT program, the student will be able to:

- demonstrate application of basic management principles;
- demonstrate application of accounting principles;
- interpret business reports including the income statement and balance sheet;
- demonstrate application of business law;
- demonstrate application of computer technology use;
- demonstrate application of SUNY General Education core requirements;
- research business careers and upper-level educational institutions.

Select courses in consultation with an advisor.

**ACCOUNTING ADVISEMENT TRACK:**

This track is recommended for students in the BAT program who plan to major in accounting at a four-year college.

Students should select the following options:

- 1st semester: ACC 100
- 3rd semester: BUS 107
- 4th semester: ACC 221 and BUS 216 (in place of BUS 107 or BUS 244)

**INTERNATIONAL BUSINESS ADVISEMENT TRACK:**

This track is designed for students who plan to transfer to a four-year college to study in the area of International Business.

Students should select the following options:

- 1st semester: BUS 100
- 2nd semester: HIS 108,  
ECO 201 in place of BHS 103  
Note: take BHS 103 in 4th semester.
- 3rd semester: ECO 202 in place of ECO 201.  
Free Elective-Foreign Language recommended.
- 4th semester: BUS 254 International Business in place of  
ACC 221, BUS 216, CIS 213, or MAT 125.  
General Education Elective (d) GOV 219  
Global Politics recommended.  
BHS 103 in place of ECO 202.  
Foreign Language in place of 200- level English.

Course No.	Descriptive Title	Cr. Hrs.
<b>FIRST SEMESTER</b>		
ENG 101	Composition I	3
CIS111	Computer Systems and Applications	3
Math (a)	MAT 110, 125, 184, 185, or 221	3-4
ACC 104	Financial Accounting	4
BUS 100	Business Administration Introductory Seminar	
or ACC 100	Accounting Introductory Seminar	1
BUS 104	Business Organization & Management	<u>3</u>
	<b>TOTAL</b>	<b>17-18</b>
<b>SECOND SEMESTER</b>		
ENG 102	Composition II	3
HIS 104, HIS 108, GOV 121		3
ACC 204	Managerial Accounting	4
MAT 118	Elementary Statistics	3
BHS 103	Social Problems in Today's World	<u>3</u>
	<b>TOTAL</b>	<b>16</b>
<b>THIRD SEMESTER</b>		
Science (b)		4
BUS 215	Business Law I	3
ECO 201	Micro Economics	3
BUS 107	Principles of Marketing (c)	
or BUS 244	Human Resource Management (c)	3
Free Elective (e)		<u>3-4</u>
	<b>TOTAL</b>	<b>16-17</b>
<b>FOURTH SEMESTER</b>		
ACC 221, BUS 216, CIS 213, or MAT 125		3-4
General Education Elective (d)		3
ECO 202	Macro Economics	3
BUS 107	Principles of Marketing (c)	
or BUS 244	Human Resource Management (c)	3
English	Any 200-level course except 211 and 217	3
WFE 101	Lifetime Wellness and Fitness	<u>3</u>
	<b>TOTAL</b>	<b>18-19</b>
	<b>TOTAL CREDIT HOURS</b>	<b>67</b>

- a. Students must meet math course prerequisites.
- b. Science courses: Applicable four credit courses in astronomy, biology, chemistry, geology, physical sciences, and physics. See the General Education Appendix B, page 97.
- c. You may choose not to take BUS 107 or BUS 244 but may select an alternative course from page 95. No alternative BUS or ACC course(s) may be selected, except BUS 216 for Accounting transfer students.
- d. General Education Elective: Courses applicable in this program are listed in the General Education Appendices D, E, F, H, and I. Students may select a courses from Appendix D only if HIS 104 or HIS 121 have not previously been taken. Students may select a course from Appendix F only if HIS 108 has not previously been taken. See page 97 for the list of the General Education Appendices.
- e. See page 96 for a full discussion of the free elective requirement.

**BUSINESS  
PARALEGAL DEGREE PROGRAM (PAL)  
(HEGIS 5099)**

This program is designed to provide students with knowledge and skills necessary to qualify for entry-level employment as paralegals. Students enrolled in the program complete a combination of legal specialty, business, liberal arts, and elective courses which will prepare them to work in law offices, banks, insurance companies, government agencies, corporations, and other types of organizations that deal with legal matters.

Such work normally is done under the supervision of an attorney. Legal specialty courses emphasize the role of the paralegal in dealing with clients, documents, and procedures.

The Associate in Applied Science (A.A.S.) degree is awarded upon completion of the requirements for this program.

Courses should be selected in consultation with an advisor.



<u>Course No.</u>	<u>Descriptive Title</u>	<u>Cr.Hrs.</u>
<u>FIRST SEMESTER</u>		
ENG 101	Composition I	3
GOV 151	Introduction To Law	3
PAL 100	Paralegal Introductory Seminar	1
PAL 110	Fundamentals of Paralegalism	3
PAL 120	Legal Research	3
BUS 103	Keyboarding for Information Processing	1
BUS 112	Introduction to Microsoft Word	<u>2</u>
	TOTAL	16
<u>SECOND SEMESTER</u>		
ENG 102	Composition II	3
ECO 105, GOV 121, HIS 104, HIS 108		3
CIS 111	Computer Systems and Applications	3
BUS 215	Business Law I	3
PAL 210	Family Law	3
WFE 101	Lifetime Wellness and Fitness	<u>3</u>
	TOTAL	18
<u>THIRD SEMESTER</u>		
BHS 103	Social Problems In Today's World	3
Math (a)		3-4
PAL 230	Law of Business Organizations	3
PAL 240	Civil Litigation	3
Paralegal Elective (b)		<u>3-4</u>
	TOTAL	15-17
<u>FOURTH SEMESTER</u>		
PAL 220	Wills, Trusts, and Estates	3
PAL 250	Real Property Law	3
Paralegal Elective (b)		3-4
Science (c)		4
Free Elective (d)		<u>3-4</u>
	TOTAL	16-18
	TOTAL CREDIT HOURS	65

a. MAT 100 or above; BUS 101 Business Mathematics may be substituted.

b. Paralegal Electives: ACC 104, BUS 210, BUS 243, CRJ 265, GOV 222, PAL 290, PHI 107, and SPE 101.

c. Science courses: Applicable four-credit courses in astronomy, biology, chemistry, geology, physical sciences, physics. Recommended: BIO 103 Human Biology.

d. See page 96 for a full discussion of the free elective requirement. The subject area for Paralegal includes all courses labeled PAL.

**BUSINESS  
BOOKKEEPING (BOK)  
(HEGIS 5002)**  
(Applied Academic Certificate)

The objective of the one-year program is to prepare individuals for entry-level jobs as bookkeeping office employees, with opportunities for advancement to more responsible positions. If a student decides to continue toward a two-year degree in accounting or in other Business Department programs, many of the courses already completed may be applied toward that degree.

A Certificate is awarded upon completion of the requirements for this program.

Courses should be selected in consultation with an advisor.

Course No.	Descriptive Title	Cr. Hrs.
<u>FIRST SEMESTER</u>		
ACC 100	Accounting Introductory Seminar	1
ENG 101	Composition I	3
ACC 101	Principles of Accounting	4
BUS 101	Business Mathematics	3
BUS 103	Keyboarding for Information Processing	1
BUS 109	Introduction to Microsoft Excel	1
BUS 110	Introduction to Microsoft Access	1
BUS 112	Introduction to Microsoft Word	<u>2</u>
	TOTAL	16
<u>SECOND SEMESTER</u>		
	ENG 102, BHS 103, ECO 105, GOV 121, HIS 104, HIS 108	3
ACC 102	Principles of Accounting II	4
BUS 102	Introduction to Business	3
BUS 255	Office Practice	3
ACC 205	Computerized Accounting Applications	<u>2</u>
	TOTAL	15
	TOTAL CREDIT HOURS	31

**BUSINESS  
PARALEGAL CERTIFICATE (PLL)  
(HEGIS 5099)**  
(Applied Academic Certificate)

This concentrated certificate program is designed to provide students with a basic foundation of skills and knowledge needed to seek employment as a paralegal. The program's curriculum requires completion of a combination of legal specialty, business, and liberal arts courses. Legal specialty courses emphasize the role of the paralegal in dealing with clients, documents, and procedures, while working under the supervision of an attorney. Credits earned in this program may be applied to the Paralegal Associate in Applied Science degree program.

A Certificate is awarded upon completion of the requirements for this program.

Courses should be selected in consultation with an advisor.

Course No.	Descriptive Title	Cr.Hrs.
<u>FIRST SEMESTER</u>		
ENG 101	Composition I	3
GOV 151	Introduction To Law	3
BUS 103	Keyboarding for Information Processing	1
BUS 112	Introduction to Microsoft Word	2
PAL 100	Paralegal Introductory Seminar	1
PAL 110	Fundamentals of Paralegalism	3
PAL 120	Legal Research	<u>3</u>
	TOTAL	16
<u>SECOND SEMESTER</u>		
BUS 101	Business Mathematics	
or BUS 210	Business Communications	3
Paralegal Electives—select four from: BUS 215, CRJ 265, PAL 210 PAL 220, PAL 230, PAL 240, PAL 250		12
BHS 103	Social Problems in Today's World	
or GOV 222	State and Local Government	<u>3</u>
	TOTAL	18
	TOTAL CREDIT HOURS	34

## COMMUNICATIONS AND MEDIA ARTS (COM) (HEGIS 5008)

This program is designed for students interested in the mass media, broadcast journalism, video and audio production, public relations, corporate communications, visual effects, screenwriting and documentary and narrative film production. Through an organized program of study, students are provided with media theory, techniques and practices in service of creative expression and career development. Graduates will be prepared for positions in television production, video and film production facilities, radio, audio recording studios and news media or to transfer to four-year colleges. The COM program currently has articulation agreements with SUNY Fredonia, SUNY Plattsburgh, Brooklyn College and other COM and Film programs.

The Associate in Science (A.S.) degree is awarded upon completion of the requirements for this program.

Graduates of the COM program will:

- Produce a body of work suitable for transfer to a four-year institution and/or professional opportunities in their chosen field of communications and media arts.
- Solve creative problems within their field of communications and media arts, including research and synthesis of technical, aesthetic, and conceptual knowledge.
- Effectively communicate their ideas professionally and connect with their intended audience using visual, oral and written presentation skills relevant to their field.
- Effectively execute technical, aesthetic and conceptual decisions based upon an understanding of communications and media arts.
- Evaluate work in their field, including their own work, using professional terminology.
- Explain the influence of major cultural and aesthetic trends, both historical and contemporary, on communications and media arts venues.
- List and execute the professional skills and behaviors necessary to compete in the local, national and/or global marketplace for the communications and media arts industry.

<u>Course No.</u>	<u>Descriptive Title</u>	<u>Cr. Hrs.</u>
<b>FIRST SEMESTER</b>		
COM 100	Communications Introductory Seminar	1
ENG 101	Composition I	3
MATH (a)		3
COM 101	Intro. to Communications Media	3
COM 103	The Art and Craft of Editing	3
ART110, ART112, ART 150, ART 157 (c)		<u>3</u>
	TOTAL	16
<b>SECOND SEMESTER</b>		
ENG 102	Composition II	3
GOV 121, HIS 104, HIS 108		3
COM 110	Basic Video Production	3
COM 120	Intro to Media Writing	3
COM 140	Media and Society	3
SPE 100 or SPE 101 (b)		<u>3</u>
	TOTAL	18
<b>THIRD SEMESTER</b>		
BHS 103	Social Problems in Today's World	3
COM 210	Visual Effects for the Moving Image I	
or COM 233	Sound Design and Technology for Media	
or COM 249	TV Production/TV News	
or COM 221	Media Strategies for Public Relations	
or COM 262	Documentary Production I	4
Interest Area Course (d)		3
Science (e)		<u>4</u>
	TOTAL	14
<b>FOURTH SEMESTER</b>		
COM 211	Visual Effects for the Moving Image II	
or COM 234	Basic Music Production	
or COM 250	Advanced Video Production	
or COM 263	Documentary Production II	4
WFE 101	Lifetime Wellness and Fitness	3
Interest Area Course (d)		3
Science (e)		4
Free elective (f)		<u>3</u>
	TOTAL	17
	TOTAL CREDIT HOURS	65

a. Mathematics course: MAT 109 or higher. Students planning to pursue a B.A. degree at SUNY institutions should take MAT 110.

b. Students may choose between SPE 100 or SPE 101.

c. Students interested in Visual Effects should take ART 110 for their art course.

d. Interest Area Courses: Students must select two courses from the list below to complement their concentration. Substitutions may be made with approval of the department head.

**Audio Production and Music:** COM233, MUS101, MUS104, MUS115, MUS116, MUS135, MUS201, MUS202, MUS219, SPE212

**Documentary Production:** ART150, ART151, ART153, ART155, ART157, ART254, ART255, ART257, BHS206, COM233, COM280, GOV211

**Television and Video Production:** ART150, ART151, ART153, ART155, ART157, ART254, ART255, ART257, BHS206, COM/THE220, COM243, COM244, COM280, ENG226, ENG227, SPE100, SPE101, SPE102, SPE211, SPE219, THE109, THE201, THE209

**Journalism and Public Relations:** ART157, ART254, BUS102, BUS105, BUS107, BUS208, BUS210, COM280, ENG211, ENG214, GOV211, GOV219, GOV222, SPE100, SPE101, SPE115, SPE201, SPE210, SPE211, SPE219

**Visual Effects and Digital Filmmaking:** ART110, ART140, ART141, ART142, ART145, ART147, ART161, ART209, COM243, COM244, ENG226, ENG227

Students also may take a 3 credit internship as an Interest Area Course: COM261.

e. Science courses: Applicable four-credit courses in astronomy, biology, chemistry, geology, physical sciences, physics.

f. See page 96 for a full discussion of the free elective requirement.

**COMPUTER INFORMATION SYSTEMS  
COMPUTER INFORMATION SYSTEMS (CIS)  
(HEGIS 5101)**

This curriculum is designed to prepare graduates for employment opportunities in computer systems and data processing. Positions as programmers and technicians are available in various sectors of business, particularly insurance, banking, public utilities, retailing, and manufacturing firms. Schools, colleges, and government agencies also employ such individuals. Students entering this curriculum should have successfully completed elementary algebra or Sequential Math Course I.

The Associate in Applied Science (A.A.S.) degree is awarded upon completion of the requirements for this program.

Upon successful completion of the CIS program, graduates should be able to:

- Develop a creative and structured approach to solving a business problem by configuring alternate IT approaches.
- Write, test and debug a program that utilizes basic programming fundamentals such as variable declaration, iteration, conditionals, array manipulation, basic computational constructs and relational database connectivity.
- Solve a business problem or capitalize on a business opportunity utilizing the appropriate commercially available software and hardware solutions.
- Submit an analysis of a business problem/opportunity and design an IT system using industry standard techniques to satisfy the problem/opportunity.
- Identify and differentiate the basic components of computer system hardware, system software and data communication technologies from a data perspective.
- Identify the major knowledge paths in the field of information technology and acquire the necessary technical and communication skills required for future career growth.
- Identify the legal issues and moral issues facing society as a result of the IT field and contrast the various viewpoints on each issue.

Courses should be selected in consultation with an advisor.



Course No.	Descriptive Title	Cr.Hrs.
<b>FIRST SEMESTER</b>		
ENG 101	Composition I	3
BHS 103	Social Problems in Today's World	3
CIS 100	CIS Introductory Seminar	1
CIS 111	Computer Systems and Applications	3
CIS 112	Computer Programming I	4
Math (b)		<u>3</u>
	<b>TOTAL</b>	<b>17</b>
<b>SECOND SEMESTER</b>		
ENG 102	Composition II	3
CIS 114 or CIS 117	Computer Programming in C Data Communication Concepts	3
CIS 123	Computer Programming II	3
CIS 124	Computer Operating Systems	3
CIS Elective (a)		<u>3</u>
	<b>TOTAL</b>	<b>15</b>
<b>THIRD SEMESTER</b>		
CIS 214 or CIS 216	C++ Object Oriented Programming Windows Server	3
CIS 213	Data Management Concepts	3
CIS 212	Systems Analysis and Design	3
CIS Elective (a)		3
CIS 200 Level Elective (a)		3
Math/Science (b, c)		<u>3-4</u>
	<b>TOTAL</b>	<b>18</b>
<b>FOURTH SEMESTER</b>		
ECO 105, GOV 121, HIS 104, HIS 108		3
CIS 223	Computer Projects and Applications	3
CIS 200 Level Elective (a)		3
WFE 101	Lifetime Wellness and Fitness	3
Free Elective (d)		<u>3-4</u>
	<b>TOTAL</b>	<b>15</b>
	<b>TOTAL CREDIT HOURS</b>	<b>65</b>

a. Elective courses: (a) courses applicable in all programs, see page 95; (b) all courses designated CIS. Three elective credits must be chosen from courses applicable in all programs. Students should note that the program requires 6 credits of 200 level CIS courses. Elective courses may need to be chosen to fulfill the prerequisites of the upper level courses.

b. Mathematic courses: MAT 100, MAT 110, MAT 118, MAT 125, MAT 184, MAT 185, MAT 221. Students must meet course prerequisites.

c. Science courses: Applicable four-credit courses in astronomy, biology, chemistry, geology, physical sciences, physics.

d. See page 96 for a full discussion of the free elective requirement. The subject area for Computer Information Systems includes all courses labeled CIS.

**COMPUTER INFORMATION SYSTEMS  
C++/JAVA ADVANCED PROGRAMMING (CJC)  
(HEGIS 5101)  
(Applied Academic Certificate)**

This certificate will provide the student with advanced programming techniques in HTML, C, C++, JAVA and Visual Basic. The student will design and code programs using advanced data structures with an emphasis on the development of web-based programs. Students continuing into a two-year degree program are advised to consult the requirements for either the CIS or BUS Applied Science degree programs. Students must have a programming background prior to enrolling in this certificate. Students must be proficient in C programming prior to enrolling in this certificate.

A Certificate is awarded upon completion of the requirements for this program.

Courses should be selected in consultation with an advisor.

<u>Course No.</u>	<u>Descriptive Title</u>	<u>Cr.Hrs.</u>
<u>FIRST SEMESTER</u>		
ENG 101	Composition I	3
CIS 100	CIS Introductory Seminar	1
CIS 215	Internet Programming Using JAVA	3
CIS 113	Visual Basic Programming	3
CIS 107	Conducting Business on the Internet	3
CIS 160	Career Seminar, Career Exploration (a)	<u>2</u>
	TOTAL	15
<u>SECOND SEMESTER</u>		
CIS 126	UNIX/LINUX	3
CIS 214	C++ Object Oriented Programming	3
CIS 235	Advanced JAVA Programming	3
CIS 161	Career Seminar, Career Advancement (a)	2
Elective (b)		3
CIS 133 or CIS 228	Advanced Visual Basic Web Administration	<u>3</u>
	TOTAL	17
	TOTAL CREDIT HOURS	32

a. The cooperative education experience requires 10 hours per week of related work experience.

b. Students must select courses from ACC, BUS, CIS, MAT, or BUS 103.

**COMPUTER INFORMATION SYSTEMS  
COMPUTER NETWORKING (CNC)  
(HEGIS 5101)  
(Applied Academic Certificate)**

This certificate will provide the students with the necessary skills to design and manage a local area network. Upon completion of the certificate, the student, in addition to acquiring an understanding of the basic data communication concepts, will be proficient in the basic skills to manage networks. Students completing the certificate may pursue careers in network support and administration. Students continuing into two-year degree program are advised to consult the requirements for either the CIS, INM or BUS Applied Science degree programs. Prior to entry into the program the student should have a basic computer literacy.

A Certificate is awarded upon completion of the requirements for this program.

Courses should be selected in consultation with an advisor.

<u>Course No.</u>	<u>Descriptive Title</u>	<u>Cr.Hrs.</u>
<u>FIRST SEMESTER</u>		
CIS 100	CIS Introductory Seminar	1
CIS 111	Computer Systems and Applications	3
CIS 117	Data Communication Concepts	3
CIS 126	UNIX/LINUX	3
CIS 216	Windows Server	3
CIS 160	Career Seminar, Career Exploration (a)	<u>2</u>
	TOTAL	15
<u>SECOND SEMESTER</u>		
ENG 101	Composition I	3
CIS 218	Routing and Switching Technology	3
CIS 107	Conducting Business on the Internet or	
or CIS 108	Conducting Research on the Internet	3
CIS 217	Advanced Server	3
or CIS 226	Advanced Linx	
or CIS 150	Information Management Security	
CIS 161	Career Seminar, Career Advancement (a)	2
Elective (b)		<u>3</u>
	TOTAL	17
	TOTAL CREDIT HOURS	32

a. The cooperative education experience requires 10 hours per week of related work experience.

b. Students must select courses from: ACC, BUS, CIS, MAT. Students wishing to become familiar with computer programming are encouraged to register for CIS 113.

**COMPUTER INFORMATION SYSTEMS  
COMPUTER SOFTWARE SUPPORT (SSC)  
(HEGIS 5101)  
(Applied Academic Certificate)**

This certificate provides the student with advanced skills in computer applications. It is appropriate for students interested in learning the intricacies of a variety of software packages. Upon completion of the certificate, students may pursue careers as application specialists, help desk associates and software trainers. Students continuing into a two-year degree program are advised to consult the requirements for either the CIS, IMN or BUS Applied Science degree programs. No prior computer experience is required.

A Certificate is awarded upon completion of the requirements for this program.

Courses should be selected in consultation with an advisor.

<u>Course No.</u>	<u>Descriptive Title</u>	<u>Cr.Hrs.</u>
<u>FIRST SEMESTER</u>		
ENG 101	Composition I	3
CIS 100	CIS Introductory Seminar	1
CIS 111	Computer Systems and Applications	3
CIS 107	Conducting Business on the Internet	
or CIS 108	Conducting Research on the Internet	3
CIS 120	Computer Based Publishing	3
CIS 160	Career Seminar, Career Exploration (a)	<u>2</u>
	TOTAL	15
<u>SECOND SEMESTER</u>		
CIS 113	Visual Basic Programming	
or CIS 112	Computer Programming	3-4
CIS 150	Information Security Management	
or CIS 140	Healthcare Information Management	3
CIS 213	Microcomputer Systems for Business	3
CIS 161	Career Seminar, Career Advancement (a)	2
Elective (b)		<u>3</u>
	TOTAL	14
	TOTAL CREDIT HOURS	29

a. The cooperative education experience requires 10 hours per week of related work experience.

b. Students must select courses from: ACC, BUS, CIS, MAT, or BUS 103.

**COMPUTER INFORMATION SYSTEMS  
WEB ADMINISTRATION (WAC)  
(HEGIS 5101)  
(Applied Academic Certificate)**

This certificate will provide students with the skills to effectively develop and administer web server site installations. Students will develop advanced skills in both client side web software and server side software. Upon completion of the certificate, students will be well-versed in the skills necessary to pursue careers in web site administration. Students continuing into a two-year degree program are advised to consult the requirements for either the CIS, IMN or BUS Applied Science degree programs. Basic computer literacy is required to entry into the program.

A Certificate is awarded upon completion of the requirements for this program.

Courses should be selected in consultation with an advisor.

<u>Course No.</u>	<u>Descriptive Title</u>	<u>Cr.Hrs.</u>
<u>FIRST SEMESTER</u>		
CIS 100	CIS Introductory Seminar	1
CIS 111	Computer Systems and Applications	3
CIS 107	Conducting Business on the Internet	3
CIS 113	Visual Basic Programming	3
CIS 120	Computer Based Publishing	3
CIS 160	Career Seminar, Career Exploration (a)	<u>2</u>
	TOTAL	15
<u>SECOND SEMESTER</u>		
ENG 101	Composition I	3
CIS 133	Advanced Visual Basic	
or CIS 140	Healthcare Information Management	
or CIS 150	Information Security Management	3
CIS 126	UNIX/LINUX	3
CIS 228	Web Site Administration	3
CIS 161	Career Seminar, Career Advancement (a)	2
Elective (b)		<u>3</u>
	TOTAL	17
	TOTAL CREDIT HOURS	32

a. The cooperative education experience requires 10 hours per week of related work experience.

b. Students must select courses from: ART 110, ART 140, ART 145, ART 163, ART 256, ACC, BUS, CIS, MAT,. Students are encouraged to register for CIS 114 to gain additional programming skills.

**COMPUTER INFORMATION SYSTEMS  
INFORMATION MANAGEMENT (INM)  
(HEGIS 5101)**

The Information Management program is designed for students interested in transferring to a four-year baccalaureate-granting institution.

The program will provide students with a basic foundation in information systems, information technology and information management. It is recommended for transfer students planning to earn baccalaureate degrees in such programs of study as Computer Information Systems, Management Information Systems, and Information Technology, Health Information Management, Security Information Management and Computer Networking.

The Associate of Science (A.S.) degree is awarded upon completion of this program.

Upon successful completion of the INM program the student will:

1. Appropriately utilize data and information by:
  - a. differentiating between data and information,
  - b. critically discerning the quality of the data,
  - c. identifying the parameters and constraints in the storage and transmission of data.
2. Effectively manage Information Technology (IT) projects by:
  - a. identifying the scope, resources, budget, timeline, and critical path,
  - b. using project management software.
3. Effectively design and implement IT solutions based on the analysis of business needs by:
  - a. selecting the appropriate software to solve a particular business problem,
  - b. producing comprehensive and usable documentation for business solutions,
  - c. designing, organizing, and implementing database solutions to business problems,
  - d. updating, deleting and adding data to relational database management systems,
  - e. differentiating between hardware and software issues relating to the management of information,
  - f. writing programs to process data and produce information,
  - g. utilizing word processors, spreadsheets and other client software to solve a business need,
  - h. integrating the available application software to maximize the data management strengths of the individual products,
  - i. utilizing the functions of at least one operating system to implement an IT solution,
  - j. designing effective reports and choosing the appropriate software to create and update the reports.
4. Identify and apply methods to assure appropriate data security and risk management by:
  - a. identifying and mitigating the risks to data,
  - b. identifying security threats to both stored and transmitted data,
  - c. designing effective defenses for both stored and transmitted data.

Courses should be selected in consultation with an advisor.

Course No.	Descriptive Title	Cr. Hrs.
<b>FIRST SEMESTER</b>		
ENG 101	Composition I	3
CIS 111	Computer Sys & Application	3
CIS 100	Introductory Seminar	1
MAT Course (a)		3-4
CIS 112 or CIS 113 or CPS 141 (b)		3-4
BHS 103	Social Problems	3
	<b>TOTAL CREDITS</b>	<b>16-18</b>
<b>SECOND SEMESTER</b>		
ENG 102	Composition II	3
MAT Course (a)		3-4
Interest Area Course (c)		3
Interest Area Course (c)		3
General Education Course (d)		3
	<b>TOTAL CREDITS</b>	<b>15-16</b>
<b>THIRD SEMESTER</b>		
CIS 212	Systems Analysis & Design	3
HIS 104, HIS 108, GOV 121		3
Interest Area Course (c)		3
ACC/BUS/CIS/ECO Course (e)		3
Science Course (f)		4
	<b>TOTAL CREDITS</b>	<b>16</b>
<b>FOURTH SEMESTER</b>		
CIS213	Data Management Concepts	3
WFE 101	Lifetime Wellness & Fitness	3
Interest Area Course (c)		3
Interest Area Course (c)		3
Transfer Course (g)		3-4
Free Elective		3-4
	<b>TOTAL CREDITS</b>	<b>18-20</b>
	<b>TOTAL CREDIT HOURS</b>	<b>65</b>

a. Students must select from MAT110, MAT 118, MAT 125, MAT 184, MAT 185, MAT 214, MAT 221, MAT222.

b. CIS112, as an introductory programming course, is strongly recommended for most students. In particular, students undecided about choosing the Information Management degree or the Computer Information Systems degree should choose CIS112. Students, with advisement, may opt to choose CIS113 or CPS141 for transfer purposes. Also, with permission of the program chairperson, the student may select one of the courses as an Interest Area elective.

c. Interest Area Course: Students must select five courses from the following list. Courses should be selected based on the requirements of the anticipated transfer school. Consult your advisor. See Advisement Note below. ACC 104, ACC 204, BUS 104, BUS 107, BUS 215, CIS 107 or CIS 108, CIS 114, CIS 117, CIS120, CIS 123, CIS 124, CIS 126, CIS 140, CIS 150, CIS 214, CIS 215, CIS 216, CIS 217, CIS 211, CIS 218, CIS 223, CIS 226, CIS 227, CIS 228, CIS 233, CIS 235, CRJ 141, CRJ 261

Notes continue on next page.

Continued from previous page.

d. Courses which meet the SUNY General Education requirement are listed on page 97. Students should select a course from a SUNY General Education subject area not met by another elective or required courses in the program.

e. ACC/BUS/CIS/ECO Course: Students must select one course from the following list: ACC 104, ACC 204, BUS 104, BUS 107, BUS 215, CIS 107, ECO 201, ECO 202. Courses should be selected based on the requirements of the anticipated transfer school, in consultation with an advisor.

f. Students must take a science course that fulfills the natural science general education requirement see page 97.

g. Any math course listed in note (a), ECO 201, ECO 202.

*Advisement Note:* Based upon the student's interest area (c), the following courses are recommended: (Note: The courses listed in **bold** are strongly recommended)

Security Information Management: **CIS 117, CIS126, CIS150**, CIS 107, CIS 133, CIS 216, CIS 226, CRJ 141, CRJ 261

Management Information Systems: **BUS104, BUS107, BUS215**, CIS 107 or CIS 108, CIS 140, CIS150, CIS 216, CIS 217

Software Development Systems: **CIS 114, CIS 214, CIS 215**, CIS 126, CIS 226, CIS 227, CIS 235

Web Administration: **CIS107, CIS120, CIS228**, CIS126, CIS 226, CIS233, ART 163, ART 263

Business Programming: **CIS 123, CIS 211**, CIS 124, CIS 223, CIS 227, **CIS 233**

Computer Networking: **CIS 117, CIS 126, CIS 216**, CIS 124, CIS 217, CIS 218, CIS 233



## COMPUTER SCIENCE (CPS) (HEGIS 5101)

This program is recommended for transfer students planning to earn a baccalaureate degree with a major in computer science. Students should have completed at least Sequential Math Course III in high school.

The Associate in Science (A.S.) is awarded upon completion of the requirements for this program

Students who successfully complete the CPS program will:

- understand the principles of programming and will have experience programming with a high level programming language.
- have the academic coursework in mathematics, science and general education to successfully transfer to a four year Computer Science program.

Courses should be selected in consultation with an advisor



Course No.	Descriptive Title	Cr. Hrs.
<b>FIRST SEMESTER</b>		
CPS 100 (a) or CLP 101	Introductory Seminar Career Exploration and Planning	1-3
ENG 101	Composition I	3
BHS 103	Social Problems in Today's World	3
MAT 185 or 221	Precalculus Mathematics (b) Analytic Geometry and Calculus I	4
CPS 141	Introduction to Computer Science and Programming	4
	<b>TOTAL</b>	<b>15-17</b>
<b>SECOND SEMESTER</b>		
ENG 102	Composition II	3
HIS 104, HIS 108, GOV 121		3
MAT 221 or 222	Analytic Geometry and Calculus I (b) Analytic Geometry and Calculus II	4
CPS 142	Advanced Programming Techniques	3
WFE 101	Lifetime Wellness & Fitness	3
	<b>TOTAL</b>	<b>16</b>
<b>THIRD SEMESTER</b>		
Science (d)		4
MAT 222 (b) or Elective (e)	Analytic Geometry & Calculus II	4
CPS 231	Data Structures	3
General Education Elective (c)		3
Elective (e)		3
	<b>TOTAL</b>	<b>17</b>
<b>FOURTH SEMESTER</b>		
MAT 214 or 215	Discrete Mathematics Linear Algebra	3
CIS 227	Assembler Language Programming	3
Elective (e)	MAT 223 or Science strongly recommended	4
General Education Elective (c)		3
Free Elective (f)		3-4
	<b>TOTAL</b>	<b>16-17</b>
	<b>TOTAL CREDIT HOURS</b>	<b>64</b>

a. CPS students who currently are not enrolled in CPS 141, CPS 142 or CPS 231 should take CLP 101.

b. One of the following sequences required: MAT 185, 221, 222; or MAT 221, 222, elective (MAT 215 or 223 recommended).

c. General Education Elective: Courses applicable to this program are listed in the General Education Appendices D, E, F, H and I. Student may select a course from Appendix D only if GOV 121 or HIS 104 have not previously been taken. Students may select a course from Appendix F only if HIS 108 has not previously been taken. See page 97 for the list of the General Education Appendices.

d. Physics or Chemistry recommended. Many four-year colleges require a two-semester sequence in physics or chemistry. Applicable four-credit courses in astronomy, biology, chemistry, geology, physical sciences, physics. Students should select a course from General Education Appendix B, page 97.

e. Elective courses: Courses applicable in this program are: (a) Specific courses listed above; (b) courses applicable in all programs. See page 95.

f. See page 96 for a full discussion of the free elective requirement. The subject area for Computer Science includes all courses labeled CPS or CIS.

**CRIMINAL JUSTICE – TRANSFER (CRT)**  
**(HEGIS 5505)**  
 (Transfer Program for Criminal Justice Students)

A balance of general, liberal arts, and technical courses are offered to those students who intend to enter the field of criminal justice for the first time as well as those currently employed in the field. This program is designed primarily for those students who anticipate transferring to a four-year institution to pursue the baccalaureate degree. It also is recommended to those students interested in pre-law studies. This program leads to rewarding careers in law enforcement, corrections, probation, parole, rehabilitation, industrial security, and numerous other positions in related areas at the municipal, state, and federal levels.

NOTE: Students pursuing careers in criminal justice or related fields should be aware that certain aspects of health and/or character may be conditional to employment.

The Associate in Science (A.S.) degree is awarded upon completion of the requirements for this program.

Courses should be selected in consultation with an advisor.



<u>Course No.</u>	<u>Descriptive Title</u>	<u>Cr.Hrs.</u>
<u>FIRST SEMESTER</u>		
ENG 101	Composition I	3
BHS 103	Social Problems in Today's World	3
GOV 121	The American National Experience	3
CRJ 141	Introduction to Criminal Justice	3
CRJ 100	Criminal Justice Introductory Seminar	1
WFE 101	Lifetime Wellness and Fitness	3
	<b>TOTAL</b>	<b>16</b>
<u>SECOND SEMESTER</u>		
ENG 102	Composition II	3
BIO 103	Human Biology (a)	4
Math 118 (b)	Elementary Statistics	3
CRJ 265	Federal, State, & Local Laws	3
BHS 142	Criminology	3
PED 101	Self-Defense	
or PED 113	Introduction to Martial Arts	1
	<b>TOTAL</b>	<b>17</b>
<u>THIRD SEMESTER</u>		
CRJ 201	Police Organization and Administration	3
PSY 206	Social Psychology	3
BHS 242	Drug and Alcohol Use and Abuse	3
CRJ 206	Criminal & Scientific Investigation	3
	General Education Elective (c)	3
	<b>TOTAL</b>	<b>15</b>
<u>FOURTH SEMESTER</u>		
PSY 134	Group Dynamics	3
BHS 262	Juvenile Delinquency	3
CRJ 261	White Collar Crime	3
CRJ 266	Contemporary Problems and Issues in Criminal Justice	3
SPE 101	Public Speaking	3
	Free Elective (d)	3-4
	<b>TOTAL</b>	<b>18-19</b>
	<b>TOTAL CREDIT HOURS</b>	<b>66</b>

- a. BIO 104 may be substituted for BIO 103.
- b. Mathematics course. Students must meet math course prerequisites
- c. General Education Elective: Courses applicable to this program are listed in the General Education Appendices D, E, F, H and I. See page 97 for the list of the General Education Appendices.
- d. See page 96 subject area for Criminal Justice includes all courses labeled CRJ.

**CRIMINAL JUSTICE - PUBLIC AND PRIVATE SECURITY (CRJ)  
(HEGIS 5505)**

A balance of general, liberal arts, and technical courses are offered to those students who intend to enter the field of criminal justice directly upon graduation or who are currently employed within the field and do not intend to pursue the baccalaureate degree at a four-year institution. This program leads to rewarding careers in law enforcement, corrections, industrial security, and numerous other related positions at the municipal, state, and federal levels.

**Note:** Completion of this program does not preclude the student from subsequently pursuing the baccalaureate degree should he/she decide to do so. However, transfer policies vary from college to college and the student should be aware that additional coursework in the general and liberal arts education area are likely to be required at a four-year institution.

Students pursuing careers in criminal justice or related fields should be aware that certain aspects of health and or character may be conditional to employment.

The Associate in Applied Science (A.A.S.) degree is awarded upon completion of the requirements for this program.

Courses should be selected in consultation with an advisor.

<u>Course No.</u>	<u>Descriptive Title</u>	<u>Cr.Hrs.</u>
<u>FIRST SEMESTER</u>		
ENG 101	Composition I	3
BHS 103	Social Problems in Today's World	3
CRJ 100	Criminal Justice Introductory Seminar	1
CRJ 101	Introduction to Security Administration	3
CRJ 107	Communication and the Crim Just Process	3
CRJ 141	Introduction to Criminal Justice	3
PED 101	Self-Defense	
or PED 113	Introduction to Martial Arts	<u>1</u>
	TOTAL	17
<u>SECOND SEMESTER</u>		
ENG 102	Composition II	3
CRJ 265	Federal, State & Local Laws	3
GOV121	The American National Experience	3
WFE 101	Lifetime Wellness and Fitness	3
BIO 103	Human Biology	
or BIO 104	Environmental Biology	<u>4</u>
	TOTAL	16
<u>THIRD SEMESTER</u>		
BHS 242	Drug and Alcohol Use and Abuse	3
CRJ 206	Criminal and Scientific Investigation	3
CRJ 201	Criminal Justice Organization and Administration	3
CRJ 205	Forensic Photography	3
HED 134	First Aid, CPR	3
ELECTIVE (a)		<u>3</u>
	TOTAL	18
<u>FOURTH SEMESTER</u>		
PSY 134	Group Dynamics	3
CRJ 261	White Collar Crime	3
MAT 118 (c)	Elementary Statistics	
or MAT 109 (c)	Survey of Mathematics	3
PSY 205	Industrial and Business Psychology	
or PSY 206	Social Psychology	3
Free elective (b)		<u>3-4</u>
	TOTAL	15-16
	TOTAL CREDIT HOURS	66

a. Elective courses: Students wishing to take a special Spanish – language series as part of the six credit elective requirement may initiate these studies during the first semester. Courses applicable in this program are: (a) specific courses listed above; (b) courses applicable in all programs. See page 95.

b. See page 96 for a full discussion of the free elective requirement. The subject area for Criminal Justice includes all courses labeled CRJ.

c. Mathematics course: Students must meet math course prerequisites.

## EARLY CHILDHOOD (ECH) (HEGIS 5503)

This program provides students with a background in general education and specific skills necessary to work effectively with young children. The curriculum is designed to prepare students, through class and laboratory experience, to become a teacher (head of group) or assistant in preschool/day care/nursery school settings. Upon successful completion of a NYSED exam, graduates may become teacher assistants in a public school. This degree, with experience and further coursework, qualifies graduates to become the director of a child care center.

The College conducts an on-campus Laboratory Nursery School where students can gain practical teaching experience under professional supervision. Students also participate in various day care centers, pre-schools and kindergartens in the community.

The Associate in Applied Science (A.A.S.) degree is awarded upon completion of the requirements for this program.

Upon completion of the ECH program, students will be able to display knowledge and appropriate applications in the follow areas:

1. Promote child development and learning by creating a learning environment that addresses the developmental characteristics and needs of young children.
2. Build family and community relationships by demonstrating the learners' understanding of the impact on children's development and learning of families and the communities in which they live.
3. Observe, document and assess to support young children and their families by using systematic observations, documentation and other strategies to develop age-appropriate curricula and strategies to positively impact on children's development and learning and communicate with families and other professionals.
4. Actuate the teaching and learning process by integrating the knowledge of developmentally effective approaches to design, implement and evaluate learning experiences for young children in a variety of curricular areas.
5. Become a professional by illustrating an understanding of the ethical implications and consequences of decisions regarding policies and practices in early childhood.

Courses should be selected in consultation with an advisor.

Course No.	Descriptive Title	Cr.Hrs.
<b>FIRST SEMESTER</b>		
ENG 101	Composition I	3
PSY 111	Psychological Principles I	3
ECH 101	Introduction to Early Childhood	3
ECH 102	Introductory Seminar: Programs for Young Children	1
ECH 120	Infant and Toddler Curriculum	3
ECH 121	Infant and Toddler Curriculum Fieldwork (b)	1
ECH 111	Curriculum Activities for Young Children	2
	<b>TOTAL</b>	<b>16</b>
<b>SECOND SEMESTER</b>		
ENG 102	Composition II	3
ECH 107	Preparing to Teach Young Children	2
ECH 108	Early Childhood Practicum I (b)	2
PSY 221	Child Development	3
SPE 101, PSY 134, or PSY 206		3
BIO 103	Human Biology (a)	4
	<b>TOTAL</b>	<b>17</b>
<b>THIRD SEMESTER</b>		
ECH 254	Foundations and Issues in Early Childhood Education	3
ECH 205	Early Childhood Practicum II (b)	4
BHS 103	Social Problems in Today's World	3
ECO 105, GOV 121, HIS 104, HIS 108		3
WFE 101	Lifetime Wellness and Fitness	3
	<b>TOTAL</b>	<b>16</b>
<b>FOURTH SEMESTER</b>		
ECH 206	Early Childhood Practicum III (b)	4
ECH 212	Language and Literature in Early Childhood	3
ECH 214	Observation and Assessment	3
BIO 104	Environmental Biology (a)	4
Free Elective (c)		3-4
	<b>TOTAL</b>	<b>17-18</b>
	<b>TOTAL CREDIT HOURS</b>	<b>66</b>

**NOTE:** In addition to the course requirements for this curriculum, all matriculated students must demonstrate proficiency in basic quantitative skills by earning a passing score on the numerical skills placement test. Students who do not earn a passing score on this test will be required to take CSM 090 and earn a grade of C or better.

a. The sequence BIO 101-102 may be substituted for the sequence BIO 103-104.

b. Transportation to and from practicum sites is the responsibility of the student. All students are required to submit a completed physical examination form within the two weeks of the beginning of the semester. Forms are available at the College Health Office.

c. See page 96 for a full discussion of the free elective requirement. The subject area for Early Childhood includes all courses labeled ECH.

**EARLY CHILDHOOD CAREGIVER (ECC)  
(HEGIS 5503)  
(Applied Academic Certificate)**

The purpose of this program is to provide skills and a beginning credential to those individuals working with, or seeking to work with, young children in day care centers or family day care settings.

All courses in the Certificate program are applicable to the Early Childhood Associate in Applied Science degree program.

A Certificate is awarded upon completion of the requirements for this program.



<u>Course No.</u>	<u>Descriptive Title</u>	<u>Cr.Hrs.</u>
<b><u>FIRST SEMESTER</u></b>		
ENG 101	Composition I	3
PSY 111	Psychological Principles I	3
ECH 101	Introduction to Early Childhood	3
ECH 102	Introductory Seminar: Programs for Young Children	1
ECH 111	Curriculum Activities for Young Children	2
ECH 120	Infant and Toddler Curriculum	3
ECH 121	Infant and Toddler Curriculum Fieldwork (a)	1
	<b>TOTAL</b>	<b>16</b>
<b><u>SECOND SEMESTER</u></b>		
ECH 107	Preparing to Teach Young Children	2
ECH 108	Early Childhood Practicum I (a)	2
PSY 221	Child Development	3
Free Elective		3-4
BHS 103	Social Problems in Today's World	3
	<b>TOTAL</b>	<b>13-14</b>
	<b>TOTAL CREDIT HOURS</b>	<b>29</b>

Note: Students enrolled in ECH 102, ECH 121 and ECH 108 are required to have a physical examination.

a. Transportation to and from practicum sites is the responsibility of the student.

**ENGINEERING SCIENCE AND TECHNOLOGIES  
ELECTRICAL ENGINEERING TECHNOLOGY (ELT)  
(HEGIS 5310)**

This program is designed to provide students with a solid technological foundation in electrical/electronics related fields thus preparing them for successful entry level employment as a technician in the associated technology sector. The Electrical Technology (ELT) A.A.S. degree is marketable – students who graduate can expect to find successful employment that they will be eligible for immediately. Technician opportunities are available in the following technology sectors: power systems (traditional and solar), semiconductor manufacturing, telecommunications, computers, and related electrical/electronic fields. Graduates are also well prepared for successful transfer to baccalaureate programs in Electrical Engineering Technology, Electro-Mechanical Engineering Technology, and Telecommunications Technology.

**ELT Program Outcomes**

Students completing the ELT degree program will learn hands-on skills, theory, and real world examples. The tools of the technician will be used from the first semester and throughout the program to build skills in assembling and troubleshooting circuits and projects.

Students graduating from this program should be able to:

- Explain how systems, components, and theories work, including the operating principles for common electrical, electronic, and electromechanical components and devices such as, but not limited to, ac and dc sources, resistors, capacitors, inductors, transistors, digital systems, control systems, power systems, and motors.
- Apply hands-on skills, such as use of tools, soldering, circuit assembly, analytical instrumentation skills (including use of meters and the oscilloscope), and computer simulation.
- Interpret specification sheets, circuit schematics, and mechanical drawings.
- Demonstrate organized troubleshooting skills.
- Define and demonstrate effective team building skills.
- Demonstrate technical communication skills including proficient use of word processing, spreadsheet, and presentation software.
- Research and analyze the value of information on technical topics.
- Develop solutions to open-ended problems utilizing hands-on learning approach.
- Demonstrate awareness of customer needs, quality, and continuous improvement.

Courses should be selected in consultation with an advisor.

Course No.	Descriptive Title	Cr.Hrs.
<b>FIRST SEMESTER</b>		
ENG 101	Composition I	3
	Math Elective (a)	3-4
ENR 100	Engineering Technology Introductory Seminar	1
ELT 105	DC Circuits	3
ELT 107	Intro to Prog. for Automation	3
BHS 103	Social Problems in Today's World	3
	<b>TOTAL</b>	<b>16</b>
<b>SECOND SEMESTER</b>		
	Math Elective (a)	4
ELT 106	AC Circuits	3
ELT 108	Electronics I	3
WFE 101	Lifetime Wellness and Fitness	3
ENG 102	Composition II	3
	<b>TOTAL</b>	<b>16</b>
<b>SUMMER SEMESTER</b>		
ENR 106	Statistical Process Control	3
	<b>TOTAL</b>	<b>3</b>
<b>THIRD SEMESTER</b>		
ELT 218	Electronics II	4
PHY 121	General Physics I (b)	4
ELT 213	Electro-Mechanical Devices	3
ECO 105, GOV 121, HIS 104, HIS 108		3
ELT 115	Digital Fundamentals	3
	<b>TOTAL</b>	<b>16</b>
<b>FOURTH SEMESTER</b>		
ELT 216	Automation Systems	3
ELT 250	Electronics Project Laboratory	1
	Free Elective (d)	3
	Science Elective (b)	4
	Technical Elective (c)	3
ENT 131	Technical Drawing	1
	<b>TOTAL</b>	<b>15</b>
	<b>TOTAL CREDIT HOURS</b>	<b>66</b>

Note on Electives: Students should select electives based on the industry or transfer opportunities of interest.

a. Students must complete two of the following mathematics courses: MAT 184, MAT 185, MAT 221, MAT 222. Students must meet math course prerequisites.

b. Students planning to take ELT 211 as their technical elective must complete either CHE 111 or CHE 121 in their third semester, prior to taking ELT 211 and must take PHY 121 in their fourth semester. All other students should take PHY 121 in their third semester and either PHY 122, CHE 111 or CHE 121 in their fourth semester.

c. Technical Electives: ELT 211, ELT 203, CIS 117 and ENR 220. Students planning to work in the semiconductor industry take ELT 211. Students planning to work in the power industry take ELT 203. Students planning to work in telecommunications take CIS 117. Students planning to work on microprocessors and computer systems and transfer students take ENR 220.

d. See page 96 for a full discussion of the free elective requirement. The subject area for this program includes all courses labeled ELT, EMS, ENT.

**ENGINEERING SCIENCE AND TECHNOLOGIES**  
**ENGINEERING SCIENCE (ENR)**  
**(HEGIS 5609)**

This program is for students planning to transfer upon graduation from Dutchess Community College to a four-year college granting a Bachelor of Science in an engineering discipline. Dutchess graduates readily transfer to established and respected educational institutions as third-year engineering students. Dutchess Community College's engineering science program is designed so that our students develop the skill set needed to succeed in competitive four-year engineering programs in a variety of engineering disciplines. Our engineering science program provides the appropriate mix of math, science, engineering, and liberal arts as benchmarked by ABET (Accreditation Board of Engineering and Technology) and recommended by TYESA (Two-Year Engineering Science Association). The Dutchess Community College Engineering Science program incorporates the following competencies: problem solving, design, teamwork, communication skills, quality and continuous improvement, and computer literacy.

Six advisement tracks are available to students to help them transfer to a specific engineering major at a four-year university or college.

- Biomedical Engineering
- Computer Engineering
- Chemical Engineering
- Electrical Engineering
- Civil and Environmental Engineering
- Mechanical and Aeronautical Engineering

It is recommended that students entering this program have completed high school Chemistry, Physics, and four units of high school Mathematics. Students without current college-preparatory courses in these areas may need more than two years to complete the engineering science program.

The Associates in Science (A.S.) degree is awarded upon completion of the requirements of this program.

Courses should be selected with an advisor.

Course No.	Descriptive Title	Cr.Hrs.
<b>FIRST SEMESTER</b>		
ENG 101	Composition I	3
CHE 121	General Chemistry I	4
MAT 221	Analytic Geometry and Calculus I	4
ENR 101	Introduction to Engineering	2
ENR 100	Engineering Technology Introductory Seminar	1
ENT 131	Technical Drawing	1
See footnote (a)	TOTAL	15
<b>SECOND SEMESTER</b>		
ENG 102	Composition II	3
WFE 101	Lifetime Wellness and Fitness	3
PHY 151	Engineering Physics I	4
MAT 222	Analytic Geometry and Calculus II	4
ENR 102	Computer Programming for Engineers (b)	3
See footnote (b)	TOTAL	17
<b>THIRD SEMESTER</b>		
PHY 152	Engineering Physics II	4
MAT 223	Analytic Geometry and Calculus III	4
ENR 208	Engineering Statics	3
	Technical elective (c)	3-4
BHS 103	Social Problems in Today's World	3
	TOTAL	17-18
<b>FOURTH SEMESTER</b>		
PHY 251	Engineering Physics III	4
MAT 224	Differential Equations	4
HIS 104, HIS 108, GOV 121		3
	Advanced Technical Electives (d)	6-8
	TOTAL	17-19
	TOTAL CREDIT HOURS	66

a. In addition to the listed first semester course load, Electrical and Computer Engineering students should also take ELT 115. Biomedical and Chemical Engineering students should also take WFE 101.

b. In addition to the second semester course load, Biomedical and Chemical Engineering students should take CHE 122.

c. The courses that apply as introductory technical electives are ENR 201, ENR 215, BIO 101 and CHE 231.  
 Biomedical Engineering take BIO 101  
 Electrical Engineering take ENR 201  
 Chemical Engineering take CHE 231  
 Environmental Engineering by advisement  
 Civil Engineering take ENR 215  
 Mechanical Engineering take ENR 201  
 Computer Engineering take ENR 201

d. The courses that apply as advanced technical electives are ENR 204, ENR 207, ENR 209, ENR 220, MAT 214, BIO 102, and CHE 232.  
 Biomedical Engineering take BIO 102 and ENR 207  
 Electrical Engineering ENR 209 and ENR 220  
 Chemical Engineering take CHE 232 and ENR 207  
 Environmental Engineering ENR 209 and by advisement  
 Civil Engineering take ENR 209 and ENR 204  
 Mechanical Engineering take ENR 209 and ENR 207  
 Computer Engineering take ENR 220 and MAT 214

**ENGINEERING SCIENCE AND TECHNOLOGIES  
TELECOMMUNICATIONS TECHNOLOGY: VERIZON (TEN)  
(HEGIS 5310)**

This program has been designed in cooperation with the VERIZON Communications, the Communications Workers of America and the International Brotherhood of Electrical Workers. It is offered at a number of community colleges and technical colleges throughout New York State and New England and gives qualified VERIZON employees an opportunity to earn an A.A.S. Degree. Those VERIZON employees who qualify will be given one day off from work per week with pay according to a pre-arranged schedule. Actual hours and day of the week may vary according to group scheduling, advanced standing credit, etc. Students will complete 60 credit hours of work over a 4-year period to complete the program.

The Associate in Applied Science (A.A.S.) degree is awarded upon completion of the requirements for this program.

Courses should be selected in consultation with an advisor.

Graduates of the Next Step Telecommunications Technology Program will demonstrate:

- Competency in telecommunications technology principles and services.
- Competency in electrical systems.
- Competency in problem solving processes that are prevalent in all telecommunications technology related projects.
- Competency in installing, maintaining, troubleshooting and repairing telecommunication and telecommunications enabled systems and services.
- Competency in telecommunication transmission systems, including fiber optics, local and wide area networks, and wireless communications.
- Competency in converged network systems used to transmit voice, video and data over the same transmission medium.
- Understanding of the seven-layer OSI model.
- Understanding of higher level protocols including the TCP/IP protocol suite as it applies to Verizon's core business.
- Competency in computer hardware, operating systems and software applications.
- Competency in workplace skills, including team building, project leadership, problem solving, customer focus, technology and service delivery, and quality.
- Ability to write coherently, conduct research, and engage proficiently in oral discourse.
- Understanding of the history and development of the labor movement including current issues and future perspectives.
- Understanding of the interplay of technology, work and society.

<u>Course No.</u>	<u>Descriptive Title</u>	<u>Cr.Hrs.</u>
<b>FIRST SEMESTER</b>		
MAT 128	Technical Mathematics A	4
CIS 109	Computer Applications	<u>3</u>
	TOTAL	7
<b>SECOND SEMESTER</b>		
EMS 106	Digital Electronics I	4
ENG 101	Composition I	<u>3</u>
	TOTAL	7
<b>THIRD SEMESTER</b>		
MAT 129	Technical Mathematics B	4
EMS 206	Digital Electronics II	<u>4</u>
	TOTAL	8
<b>FOURTH SEMESTER</b>		
PHY 141	Physics for Telecommunications	4
ENT 108	DC and AC Circuits	<u>4</u>
	TOTAL	8
<b>FIFTH SEMESTER</b>		
ELT 121	Electronic Systems for Telecommunications I	4
TEL 110	Applied Telecommunications I	<u>4</u>
	TOTAL	8
<b>SIXTH SEMESTER</b>		
ELT 221	Electronic Systems for Telecommunications II	4
TEL 210	Applied Telecommunications II	<u>4</u>
	TOTAL	8
<b>SEVENTH SEMESTER</b>		
ENG 102	Composition II	3
TEL 211	Applied Telecommunications III	<u>4</u>
	TOTAL	7
<b>EIGHTH SEMESTER</b>		
HIS 226	Labor History	3
TEL 212	Applied Telecommunications IV	<u>4</u>
	TOTAL	7
	TOTAL CREDIT HOURS	60

**ENGINEERING SCIENCE AND TECHNOLOGIES  
ADVANCED SCIENCE AND MATHEMATICS STUDIES (ASM)  
(HEGIS 5699)  
(Applied Academic Certificate)**

This certificate program, designed with SUNY New Paltz, prepares students with an AAS degree in Electrical Engineering Technology from Dutchess Community College to enter at Junior level status in the Electrical or Computer Engineering programs at SUNY New Paltz. Students who have achieved a 2.5 GPA in the certificate program detailed below will be accepted directly in to the fifth semester of the eight semester engineering programs offered at New Paltz.

The objective of this joint venture is to provide the citizens/students of the Mid-Hudson Valley region a quality, cost effective, geographically convenient career path for those technology graduates who would like to proceed to an engineering degree. The certificate program is geared towards students graduated from the AAS general electrical engineering technology (ELT) program.

**Certificate Prerequisites:**

All students beginning the ASM Certificate must have completed the AAS degree in the ELT program, including a grade of C or better in course MAT221: Analytic Geometry and Calculus I (5 year limit).

Students who complete the ELT program with a GPA of 3.0 or better need a grade of C or better in ENR220: Digital System Design.

Students who complete the ELT program with a GPA of less than 3.0 need a grade of B or better in ENR220: Digital System Design.

Students considering this path while in the AAS ELT program should select the following courses as their electives, to assist completion of the ASM certificate, provided they have the proper prerequisites:

- **Free Elective:** Elect to take MAT221 Analytic Geometry and Calculus I. This will prepare the student for MAT222: Analytic Geometry and Calculus II in the semester immediately following the completion of the ELT degree.
- **Science Elective:** Elect to take CHE121: General Chemistry, rather than CHE111: Intro to Chemistry.
- **Technical Elective:** Elect to take ENR220: Digital Circuit Design.
- **Physics:** Take PHY151: Engineering Physics I rather than PHY121: General Physics

Course No.	Descriptive Title	Cr.Hrs.
<u>SUMMER SEMESTER</u>		
MAT 222	Analytic Geometry and Calculus II	<u>4</u>
	TOTAL	4
<u>FALL SEMESTER</u>		
MAT 223	Analytic Geometry and Calculus III	4
CPS 141	Introduction to Computer Science	4
CHE 121	General Chemistry I	4
General Education Requirement (a)		<u>3</u>
	TOTAL	15
<u>SPRING SEMESTER</u>		
MAT 224	Ordinary Differential Equations	4
CPS 142	Advanced Programming Techniques	3
PHY 152	Engineering Physics II (b)	4
General Education Requirement (a)		<u>3</u>
	TOTAL	14
	TOTAL CREDIT HOURS	33

a. Courses to be used for this requirement include all courses from the DCC SUNY General Education Appendices in the following categories:

*(ASM continued)*  
American History (Appendix D), Western Civilization (Appendix E), Other World Civilization (Appendix F), The Arts (Appendix H) and Humanities (Appendix G – one course must be selected from Appendix G in addition to ENG 102). With the exception of an additional course in Humanities (Appendix G), students should not select a course from a category previously met.

b. The prerequisites for PHY 152 must be met as indicated in the college catalog course description. Students matriculated in the Advanced Science and Mathematics Studies Certificate Program can alternatively meet the following prerequisites: MAT 223, PHY 121 and CHE 121.

**ENGINEERING SCIENCE AND TECHNOLOGIES  
AIR CONDITIONING AND REFRIGERATION  
TECHNOLOGY (ACR)  
(HEGIS 5317)  
(Applied Academic Certificate)**

This program prepares men and women for employment in the field of commercial Air Conditioning and Refrigeration. The graduate is qualified for entry level positions in installation, repair, and maintenance of equipment in use by food markets, food processors, office buildings, apartment buildings, manufacturing plants, schools, etc. In addition, positions are available in design, sales and distribution. It is recommended that those who wish to consider air conditioning and refrigeration as a career complete high school courses in such related areas as electricity, metal working, machine shop, plumbing/heating, and blueprint reading.

A Certificate is awarded upon completion of the requirements for this program.

Courses should be selected in consultation with an advisor.

Course No.	Descriptive Title	Cr. Hrs.
<u>FIRST SEMESTER</u>		
MAT 131	Technical Math I	3
ACR 101	Air Conditioning and Refrigeration I	8
ENT 131	Technical Drawing	<u>1</u>
	TOTAL	12
<u>SECOND SEMESTER</u>		
ENG 101	Composition I	3
ACR 102	Air Conditioning and Refrigeration II	<u>8</u>
	TOTAL	11
	TOTAL CREDIT HOURS	23

Students requiring full time status should consider enrolling in PHS 103, PHS 107, BUS 104, or other courses in their area of interest.

**EXERCISE SCIENCE AND WELLNESS (ESW)  
(HEGIS 5299.30)**

This program of study is designed primarily for students who plan to transfer to a four-year institution to pursue a baccalaureate degree in Physical Education for teaching, Athletic Training, Exercise Physiology, Kinesiology, Health and Wellness, Physical Therapy or Nutritional Science. The program combines a broad foundation in the liberal arts and sciences with technical courses in the emerging and expanding field of exercise science. Graduates of the program will be encouraged to sit for the certification examination for Fitness Instructor or Personal Trainer given by the American Council on Exercise thus providing a beginning credential for those who choose to seek employment as Fitness Instructors or Personal Trainers at local health clubs and fitness centers.

The Associate of Science (A.S.) degree is awarded upon completion of the requirements for this program.

Upon successful completion of this program, students will:

- Be prepared to transfer to 4-year colleges and universities in a variety of majors such as: Physical Educator Teaching, Exercise Physiology, Kinesiology, Nutritional Science, Athletic Training, and Physical Therapy.
- Be prepared to enter the workforce immediately after graduation for positions such as Personal Trainers and various types of Fitness Instructors.
- Be prepared to successfully complete various certification examinations for Fitness Instructors or Personal Trainers.

Courses should be selected in consultation with an advisor.



<u>Course No.</u>	<u>Descriptive Title</u>	<u>Cr.Hrs.</u>
<b><u>FIRST SEMESTER</u></b>		
ENG 101	Composition	3
BHS 103	Social Problems in Today's World	3
BIO 105	General Biology I	4
HED 134	First Aid, Safety and CPR	3
WFE 101	Lifetime Wellness and Fitness	3
ESW 100	Exercise Science and Wellness Seminar	<u>1</u>
	TOTAL	17
<b><u>SECOND SEMESTER</u></b>		
ENG 102	Composition II	3
BIO 106	General Biology II	4
HED 201	Stress Management	3
ESW 101	Intro to Exercise Science	2
PSY 111	Psychological Principles I	3
PED	Physical Education (b)	<u>1</u>
	TOTAL	16
<b><u>THIRD SEMESTER</u></b>		
BIO 209	Anatomy	4
MAT 118	Elementary Statistics (a)	3
BIO 122	Nutrition	3
PED	Physical Education (b)	1
General Education Elective (c)		3
ESW 201	Exercise Testing	<u>3</u>
	TOTAL	17
<b><u>FOURTH SEMESTER</u></b>		
BIO 210	Physiology	4
HIS 104, HIS 108, GOV 121		3
SPE 101	Public Speaking	3
ESW 202	Exercise Prescription	3
Free Elective		3-4
PED	Physical Education (b)	<u>1</u>
	TOTAL	17-18
	TOTAL CREDIT HOURS	67

a. MAT 110 or higher, MAT 118 recommended. Students must meet Math course prerequisites.

b. Students may choose from any 1 credit Physical Education Class.

c. General Education Elective: Courses applicable to this program are listed in Appendices D, E, F, H and I. Students may select a course from Appendix D only if HIS 104 or GOV 121 has not previously been taken. Students may select a course from Appendix F only if HIS 108 has not been taken.

**FIRE SCIENCE  
FIRE AND OCCUPATIONAL SAFETY (FIR)  
(HEGIS 5507)**

A balance of general, liberal arts, and technical courses are offered to those students who intend to enter the field of Fire and Occupational Safety for the first time as well as those currently employed in the field. This program is designed primarily for those students who anticipate transferring to a four-year institution to pursue the baccalaureate degree. This program leads to rewarding careers in municipal fire protection, investigation and inspection, governmental agencies, industry, insurance, transportation, and educational institutions.

Students are urged to consult their advisor, the faculty and the Counseling and Career Services staff about transfer opportunities early in their academic career at DCC.

An Associate in Science (A.S.) degree is awarded upon completion of the requirements for this program.

Students who successfully complete the Associate in Science (A.S.) degree in Fire and Occupational Safety will be able to:

- Explain the history of fire service from its origin up to the present and the concept of chain of command.
- Describe the origin and role of fire prevention, fire codes and public education and the role they play in today's world.
- Define fire and combustion with its associated phenomenon and describe how to employ the proper extinguishing methods for all classes of fire.
- Cite and explain all applicable OSHA regulations and National Fire Protection Association (NFPA) standards.
- Define the different types of building construction and explain each one's characteristics as it relates to fire and gravity.
- Define and describe the fire suppression and detection systems currently employed in structures.
- Explain the properties of water as an extinguishing agent and be able to perform the calculations required for design and use of municipal water and fire protection systems.
- Cite and define applicable laws and legal issues, as they relate to emergency services.
- Employ chain of command, Standard Operating Procedures, Incident Command System and mission statements.
- Transfer as a junior into a Fire Science program at a four-year college.

In addition, depending on which other technical course(s) is/are completed, the graduate will be competent to complete at least one of the following:

- Create and apply various strategies and tactics, as appropriate, based on a variety of scenarios.
- Define and describe the various causes of fire and describe the process of determining whether they are accidental or intentional in origin. Students also will be able to define the process of conducting an investigation, as well as discuss the importance of accurate documentation.
- Develop a perspective on worker exposure, identify the primary sources of potential chemical and physical agents in the workplace, identify the techniques for assessing the risk of worker exposures, outline the principal methods of testing and monitoring the worker and his environment and identify and discuss the major techniques for the control of chemical and physical agents in the workplace.

Courses should be selected in consultation with an advisor.

Course No.	Descriptive Title	Cr. Hrs.
<b>FIRST SEMESTER</b>		
ENG 101	Composition I	3
BHS 103	Social Problems in Today's World	3
MAT 184 or MAT 132	Algebra and Trig for Precalculus Technical Mathematics II	3
FIR 100	Fire Science Intro. Seminar	1
FIR 102	Fundamentals of Fire Protection	3
FIR 104	Fundamentals of Fire Prevention	3
	<b>TOTAL</b>	<b>16</b>
<b>SECOND SEMESTER</b>		
ENG 102	Composition II	3
CHE 121	General Chemistry I	4
FIR 110	Fire Behavior & Combustion	3
FIR 112	Occupational Health and Safety	3
FIR 114	Building Construction for Fire Protection	3
	<b>TOTAL</b>	<b>16</b>
<b>THIRD SEMESTER</b>		
HIS 104, HIS 108, GOV 121		3
PHY 121	General Physics	4
FIR 204	Fire Protection Systems	3
FIR 222	Fire and Safety Admin.	3
Elective (a)		3
	<b>TOTAL</b>	<b>16</b>
<b>FOURTH SEMESTER</b>		
WFE 101	Lifetime Wellness and Fitness	3
ART 150	Black and White Photography	3
FIR 212	Fire Protection Hydraulics and Water Supply	3
FIR 214	Legal Aspects in Fire and Safety	3
FIR 224	Strategy and Tactics, or FIR 226 Fire Investigation or FIR 228 Industrial Hygiene	3
Elective (a)		3-4
	<b>TOTAL</b>	<b>18-19</b>
	<b>TOTAL CREDIT HOURS</b>	<b>66</b>

a. Students must take at least 6 credits hours of liberal arts and science courses. Courses should be selected based on the requirements of the anticipated transfer school. The following courses are highly recommended for this program: SPE 101, PSY 205, PSY 134, GOV 222, ENG 217, ECO 121, CIS 108, EMB 105, HED 201, CRJ 205, BIO 122.

**FIRE SCIENCE  
FIRE PROTECTION TECHNOLOGY (FPT)  
(HEGIS 5507)**

Public Safety has become a major concern in our society, and the complex technology of fire prevention and protection is evolving rapidly. Career and volunteer fire service personnel as well as people employed in insurance, risk management, emergency services, and municipal services have an increasing need to stay informed about cutting edge technology and other trends in this field.

The Fire Protection Technology Program provides fire fighters and related fire service personnel with specialized training. The curriculum has been developed by a local advisory committee to meet the needs of the area, including specialized fire science courses, as well as required liberal arts and science and general education courses. The program can be used as a basis for successful competition on municipal exams, volunteer fire company applications, and entry into a variety of industrial settings. Students are encouraged to meet with the Fire Sciences Program Chairperson to ensure their goals will be met.

Completion of this program does not preclude the student from pursuing a baccalaureate degree should he/she decide to do so. However, transfer policies vary from college to college and the student should be aware that additional course work in the general and liberal arts education area are likely to be required by the four-year institution.

An Associate in Applied Science (A.A.S.) degree is awarded upon completion of the requirements for this program.

Students who successfully complete the Associate in Applied Science (A.A.S.) degree in Fire Protection Technology will be able to:

- Explain the history of the fire service from its origin up to the present and the concept of chain of command.
- Describe the origin and role of fire prevention, fire codes and public education and the role they play in today's world.
- Define fire and combustion with its associated phenomenon and describe how to employ the proper extinguishing methods for all classes of fire.
- Cite and explain all applicable OSHA regulations and National Fire Protection Association (NFPA) standards.
- Define the different types of building construction and explain each one's characteristics as it relates to fire and gravity.
- Define and describe the fire suppression and detection systems currently employed in structures.
- Explain the properties of water as an extinguishing agent and be able to perform the calculations required for design and use of municipal water and fire protection systems.
- Cite and define applicable laws and legal issues, as they relate to emergency services.
- Employ chain of command, Standard Operating Procedures, Incident Command System and mission statements.

<u>Course No.</u>	<u>Descriptive Title</u>	<u>Cr. Hrs.</u>
<u>FIRST SEMESTER</u>		
ENG 101	Composition I	3
BHS 103	Social Problems	3
MAT 184	Algebra and Trig for Precalculus	
or or MAT 132	Technical Mathematics II	3
FIR 100	Fire Science Intro Seminar	1
FIR 102	Fund. of Fire Protection	3
FIR 104	Fund. Of Fire Prevention	3
	TOTAL	16
<u>SECOND SEMESTER</u>		
ENG 102	Composition II	3
CHE 111 or CHE 121		4
FIR 110	Fire Behavior & Combustion	3
FIR 112	Occup. Health and Safety	3
FIR 114	Building Construction for Fire Protection	3
	TOTAL	16
<u>THIRD SEMESTER</u>		
EMB 105	Emergency Med Tech (a)	6
GOV 121, HIS 104, HIS108		3
PHY 121	General Physics	4
FIR 204	Fire Protection Systems	3
	TOTAL	16
<u>FOURTH SEMESTER</u>		
WFE 101	Lifetime Wellness and Fitness	3
FIR 212	Fire Protection Hydraulics and Water Supply	3
Fire Career Electives (b)		7
Free Elective (c)		3-4
	TOTAL	16-17
	TOTAL CREDIT HOURS	64
a. Current Certification acceptable for credits		
b. Fire Career Elective applicable course are: Selected New York State, Department of State, Office of Fire Prevention and Control's (OFPC) Fire Training courses with verification testing. Basic Firefighter Training (229 hour academy) FIR 214, FIR 222, FIR 224, FIR 226, FIR 228, SPA 101, SPE 101, PAR 207.		
c. See page 96 for a full description of the free elective requirement		

## GENERAL STUDIES (GSP) (HEGIS 5649)

The General Studies Program, which leads to an A.S. degree, allows students substantial flexibility in course selection. In so doing, it provides them the opportunity to explore and refine their intellectual interests and permits students to develop an area of academic concentration.

The General Studies Program is geared to facilitate transfer to four-year institutions of higher learning. Those students transferring to SUNY baccalaureate-granting schools will have completed a minimum of 30 SUNY General Education credits and satisfied 10 out of 10 General Education requirements from the Appendices in the current catalog. Students intending to transfer should make certain that their course selections meet the requirements of their chosen transfer institutions. To maximize transferability of courses and ensure their overall progress, students in the General Studies Program must select courses and develop their plans of study in consultation with academic advisors.



<u>Course No.</u>	<u>Descriptive Title</u>	<u>Cr.Hrs.</u>
<u>FIRST SEMESTER</u>		
ENG 101	Composition I	3
BHS 103	Social Problems In Today's World	3
HIS 104, HIS 108, GOV 121		3
Elective (a)		3-4
WFE 101	Lifetime Wellness and Fitness	3
GSS 100	General Studies Introductory Seminar	<u>1</u>
	TOTAL	16-17
<u>SECOND SEMESTER</u>		
ENG 102	Composition II	3
Math Course (b)		3-4
Humanities (a)		3
Social Science Elective (a)		3
Elective (a)		<u>3-4</u>
	TOTAL	15-17
<u>THIRD SEMESTER</u>		
Science Course (a)		4
Electives (a)		<u>13</u>
	TOTAL	17
<u>FOURTH SEMESTER</u>		
Science (a)		4
Electives (a)		<u>12</u>
	TOTAL	16
	TOTAL CREDIT HOURS	64

a. These courses must be selected so as to satisfy all of the following requirements: At least one course from each of the ten SUNY General Education Appendices on page 97. A minimum of two science courses from Appendix B on page 97. Students may not use ENG 102 to satisfy the Humanities requirement. A 200-level English course is highly recommended. A minimum of two 200-level courses are required. Electives should be in the student's area of academic interest/concentration.

b. For students whose area of academic concentration is the social sciences, MAT 118 is highly recommended. Others should select MAT 109 or higher.

**HUMAN SERVICES  
HUMAN SERVICES (HMS)  
(HEGIS 5501)**

The Human Services program is designed for students who plan to transfer to a four-year institution to pursue a degree in Human Services, Social Work, Psychology or Sociology. The program combines a broad foundation in the liberal arts with specific courses designed for those interested in working in fields such as mental health, developmental disabilities, social services and youth correctional facilities. Through academic and field practicum experiences, skills in assisting children, adolescents or adults with a variety of special needs are obtained. There are advisement tracks to assist students in choosing the correct coursework that best suits their interests and meets the transfer school's requirements. This degree program satisfies seven to nine of the state-mandated General Education requirements, thus emphasizing the importance of the liberal arts studies in preparation for the baccalaureate degree.

The Associate in Science (A.S.) degree is awarded upon completion of requirements for this program.

Upon completion of this program, students will be able to:

1. Identify components of the Human Services Delivery System including:
  - the roles of the various members of the service delivery team.
  - client assessment/referral process.
  - the history of the field of human services.
2. Recognize and discriminate between normal and abnormal development and behavior.
3. Differentiate among the three major theoretical perspectives with treatment applications of each.
4. Demonstrate application of the client-centered counseling process.
5. Employ the concept and components of a therapeutic milieu.
6. Display an understanding and respect for the diversity of cultures, races, genders, and sexual orientations among clients and co-workers, and in society as a whole.
7. Exhibit the ability to use technology effectively.

<u>Course No.</u>	<u>Descriptive Title</u>	<u>Cr. Hrs.</u>
<u>FIRST SEMESTER</u>		
BHS 110	Intro. to Human Services	3
CHC or CMH 103	(a) Child Care and Youth Practicum I or Community Mental Health Practicum I	2
ENG 101	Composition I	3
HMS 100	Introductory Seminar	1
PSY 111	Psychological Principles I	3
PSY 134	Group Dynamics	<u>3</u>
	TOTAL	15
<u>SECOND SEMESTER</u>		
BHS 103	Social Probs. in Today's World	3
CHC or CMH 104	(a) Child Care and Youth Practicum II Community Mental Health Practicum II	2
ENG 102	Composition II	3
PSY 102	Interviewing and Counseling Skills	3
PSY 203	Developmental Psychology	3
WFE 101	Lifetime Wellness and Fitness	<u>3</u>
	TOTAL	17
<u>THIRD SEMESTER</u>		
PSY 235 or PSY 201	(a) Psychology of Exceptionality	3
PSY 202	Therapeutic Intervention Skills	3
	Elective (b)	3
Mat118 recommended	(c) Elementary Statistics	3
	Science (d)	<u>4</u>
	TOTAL	16
<u>FOURTH SEMESTER</u>		
BHS 245	Issues and Ethics in the Human Services	3
PSY 207	Creative Arts Therapy	3
GOV 121, HIS 104, HIS 108	(e)	3
	Electives (b)	6
	Free Elective (f)	<u>3</u>
	TOTAL	18
	TOTAL CREDIT HOURS	66

### PSYCHOLOGY ADVISEMENT TRACK:

This track is designed for students seeking a Bachelor's degree in the Psychology field. It is recommended that students select the following courses:

- First semester: CMH 103 Community Mental Health Practicum I
- Second semester: CMH 104 Community Mental Health Practicum II
- Third semester: PSY 201 Abnormal Psychology  
MAT 109 or higher (MAT118 recommended)
- Fourth semester: PSY 204 and/or PSY 206 Adolescent Psychology  
and/or Social Psychology recommended for  
elective areas.

### SOCIOLOGY ADVISEMENT TRACK:

This track is designed for students seeking a Bachelor's degree in the Sociology field. It is recommended that students select the following courses:

- First semester: CHC 103 Child Care and Youth Practicum I
- Second semester: CHC 104 Child Care and Youth Practicum II
- Third semester: PSY 235 The Psychology of Exceptionality  
MAT 109 or higher (MAT118 recommended)
- Fourth semester: BHS 203 – Sociology is recommended for an  
elective area.

### SOCIAL WORK ADVISEMENT TRACK:

This track is designed for students seeking a Bachelor's degree in the field of Social Work. It is recommended that students select the following courses:

- First semester: CMH 103 Community Mental Health Practicum I
- Second semester: CMH 104 Community Mental Health Practicum II
- Third semester: MAT 109 or higher (but not MAT 110 or MAT 184)  
PSY 201 Abnormal Psychology
- Fourth semester: GOV 121 The American National Experience  
PHI 201 Philosophy: The Primary Issues  
recommended for the elective area  
PHI 203 Major Religions of the World  
recommended for the elective area

NOTES: Students transferring to Marist should be aware that the courses from Appendix H that satisfy the core requirement for the Arts are: ART 101, ART 102, ART 103, MUS 101, MUS 201, MUS 202, DAN 108, or THE 105.

- a. Students need to select the course appropriate for their advisement track.
- b. Students need to select from SUNY General Education Appendices, see page 97, to satisfy SUNY General Education requirements not already met by other program requirements. Refer to appropriate advisement track for recommended course selection.
- c. MAT 109 or higher. MAT 118 recommended. See advisement track for more specific information.
- d. Science courses: Applicable four credit courses in astronomy, biology, chemistry, geology, physical sciences, and physics. See the General Education Appendix B, page 97.
- e. If choosing the Social Work advisement track, student must choose GOV 121. See page 96 for a discussion of the free elective requirement.
- f. See page 96 for a discussion of the free elective.



**HUMAN SERVICES  
CHILD CARE (CHC)  
(HEGIS 5503)**

This program is designed to prepare students to work with children, adolescents, or adults with mental, emotional or physical handicaps in a variety of settings, such as residential and day schools, group homes, crisis intervention centers, youth correctional facilities, and special needs day care centers. Skills for working with persons with special needs are developed through study and practical field experience. Emphasis also is placed on the personal growth and development of the individual student as it relates to their work with clients. Graduates of the program are qualified as human services generalists. Graduates may transfer credits from this program to a variety of senior colleges offering a baccalaureate degree in such fields as social work, psychology, and human services.

The Associate in Applied Science (A.A.S.) degree is awarded upon completion of the requirements for this program.

Upon completion of this program students will be able to:

1. Identify components of the Human Services Delivery System including:
  - the roles of the various members of the service delivery team.
  - client assessment/referral process.
  - the history of the field of human services.
2. Recognize and discriminate between normal and abnormal development and behavior.
3. Differentiate among the three major theoretical perspectives with treatment applications of each.
4. Demonstrate application of the client-centered counseling process.
5. Employ the concept and components of a therapeutic milieu.
6. Display an understanding and respect for the diversity of cultures, races, genders, and sexual orientations among clients and co-workers, and in society as a whole.
7. Exhibit the ability to use technology effectively.

Courses should be selected in consultation with an advisor.

<u>Course No.</u>	<u>Descriptive Title</u>	<u>Cr.Hrs.</u>
<b><u>FIRST SEMESTER</u></b>		
BHS 110	Intro. to Human Services	3
PSY 111	Psychological Principles I	3
CHC 103	Child Care and Youth Practicum I	2
ENG 101	Composition I	3
HMS 100	Introductory Seminar	1
PSY 134	Group Dynamics	<u>3</u>
	<b>TOTAL</b>	<b>15</b>
<b><u>SECOND SEMESTER</u></b>		
PSY 203	Developmental Psychology	3
CHC 104	Child Care and Youth Practicum II	2
ENG 102	Composition II	3
BHS 103	Social Probs. in Today's World	3
PSY 102	Interviewing and Counseling Skills	3
WFE 101	Lifetime Wellness and Fitness	<u>3</u>
	<b>TOTAL</b>	<b>17</b>
<b><u>THIRD SEMESTER</u></b>		
BIO 104	Environmental Biology (a)	4
CHC 203	Child Care and Youth Practicum III	3
PSY 235	Psychology of Exceptionality	3
ECO 105, GOV 121, HIS 104, HIS 108		3
PSY 202	Therapeutic Intervention Skills	<u>3</u>
	<b>TOTAL</b>	<b>16</b>
<b><u>FOURTH SEMESTER</u></b>		
BIO 103	Human Biology (a)	4
PSY 207	Creative Arts Therapy	3
BHS 245	Issues and Ethics in the Human Services	3
CHC 206	Child Care and Youth Practicum IV	3
Free Elective (b)		<u>3-4</u>
	<b>TOTAL</b>	<b>16-17</b>
	<b>TOTAL CREDIT HOURS</b>	<b>64</b>

**NOTES**

1. In addition to the course requirements for this curriculum, all matriculated students must demonstrate proficiency in basic quantitative skills by earning a passing score on the numerical skills placement test. Students who do not earn a passing score on this test will be required to take CSM 090 and earn a grade of C or better.

2. All CHC students are required to submit a completed physical examination form prior to field placement. All immunizations indicated on the form must be current. When this form is on file, the College Health Office will issue a waiver clearing the student for field placement. Hepatitis B Vaccine series is highly recommended and may be required by the placement site under the OSHA Standard on Exposure to Blood borne Pathogens.

a. The sequence BIO 101-102 may be substituted for the sequence BIO 103-104.

b. See page 96 for a full discussion of the free elective requirement. The subject area for Child Care includes all courses labeled CHC.

**HUMAN SERVICES  
MENTAL HEALTH ASSISTANT (CMH)  
(HEGIS 5216)**

This program is designed to prepare students to serve in a variety of mental health and social services settings. Graduates could function in any one of the following roles: caseworker aide, outreach worker, client advocate, therapy aide, community organizer, and other human services generalist's positions. Students will learn through academic and field practicum experiences, sound methods of assisting individuals in developing productive responses to personal and social problems. Emphasis also will be placed on the personal growth and development of the individual student as it relates to their work with clients.

Graduates may transfer credits from this program to a variety of senior colleges offering a baccalaureate degree in such fields as social work, psychology and human services.

The Associate in Applied Science (A.A.S.) degree is awarded upon completion of the requirements for this program.

Upon completion of this program, students will be able to:

1. Identify components of the Human Services Delivery System including:
  - the roles of the various members of the service delivery team.
  - client assessment/referral process.
  - the history of the field of human services.
2. Recognize and discriminate between normal and abnormal development and behavior.
3. Differentiate among the three major theoretical perspectives with treatment applications of each.
4. Demonstrate application of the client-centered counseling process.
5. Employ the concept and components of a therapeutic milieu.
6. Display an understanding and respect for the diversity of cultures, races, genders, and sexual orientations among clients and co-workers, and in society as a whole.
7. Exhibit the ability to use technology effectively.

Courses should be selected in consultation with an advisor.

Course No.	Descriptive Title	Cr.Hrs.
<b>FIRST SEMESTER</b>		
ENG 101	Composition I	3
PSY 111	Psychological Principles I	3
PSY 134	Group Dynamics	3
BHS 110	Introduction to Human Services	3
CMH 103	Community Mental Health Practicum I	2
HMS 100	Introductory Seminar	1
	<b>TOTAL</b>	<b>15</b>
<b>SECOND SEMESTER</b>		
ENG 102	Composition II	3
BHS 103	Social Problems in Today's World	3
PSY 102	Interviewing & Counseling Skills	3
PSY 203	Developmental Psychology	3
CMH 104	Community Mental Health Practicum II	2
WFE 101	Lifetime Wellness and Fitness	3
	<b>TOTAL</b>	<b>17</b>
<b>THIRD SEMESTER</b>		
BIO 104	Environmental Biology	4
ECO 105, GOV 121, HIS 104, HIS 108		3
PSY 202	Therapeutic Intervention Skills	3
CMH 203	Community Mental Health Practicum III (a)	3
PSY 201	Abnormal Psychology	3
	<b>TOTAL</b>	<b>16</b>
<b>FOURTH SEMESTER</b>		
Science (b)		4
PSY 207	Creative Arts Therapy	3
BHS 245	Issues and Ethics in the Human Services	3
CMH 204	Community Mental Health Practicum IV (a)	3
Elective (c)		3
Free Elective (d)		3
	<b>TOTAL</b>	<b>19</b>
	<b>TOTAL CREDIT HOURS</b>	<b>67</b>

**NOTE:**

1. In addition to the course requirements for this curriculum, all matriculated students must demonstrate proficiency in basic quantitative skills by earning a passing score on the numerical skills placement test. Students who do not earn a passing score on this test will be required to take CSM 090 and earn a grade of C or better.
2. All CMH students are required to submit a completed physical examination form prior to field placement. All immunizations indicated on the form must be current. When this form is on file, the College Health Office will issue a waiver clearing the student for field placement. Hepatitis B Vaccine series is highly recommended and may be required by the placement site under the OSHA Standard on Exposure to Blood Borne Pathogens.
  - a. Students wishing to earn both the Mental Health Assistant degree and the Chemical Dependency Counseling Certificate can substitute CDC 203 and CDC 204 for CMH 203 and CMH 204.
  - b. Science courses: Applicable four-credit courses in astronomy, biology, chemistry, geology, physical sciences, physics. BIO 103 is strongly recommended.
  - c. Elective courses: Courses applicable in this program are: (a) specific courses listed above; (b) courses applicable in all programs, See page 96.
  - d. See page 96 for a full discussion of the free elective requirement. The subject area for Mental Health Assisting includes all courses labeled CMH.

**HUMAN SERVICES  
CHEMICAL DEPENDENCY COUNSELING (CDC)  
(HEGIS 5506)  
(Applied Academic Certificate)**

This program is designed to provide individuals with the skills and competencies necessary for employment as paraprofessionals in the field of chemical dependency counseling. Specifically, the program will provide instruction enabling those completing the program to function in rehabilitation or therapeutic communities, or in correctional or mental health facilities.

In addition, the curriculum provides continuing education for those currently employed in the field of chemical dependency counseling or related fields, such as law enforcement, corrections, or in mental health.

All courses with the exception of BHS 242 count toward the A.A.S. degree in Mental Health Assistant.

A Certificate is awarded upon completion of the requirements for this program.

Courses should be selected in consultation with an advisor.

<u>Course No.</u>	<u>Descriptive Title</u>	<u>Cr.Hrs.</u>
<u>FIRST SEMESTER</u>		
ENG 101	Composition I	3
PSY 102	Interviewing and Counseling Skills	3
BHS 242	Drug and Alcohol Use and Abuse	3
CDC 103	Chemical Dependency Counseling Practicum I	2
HMS 100	Introductory Seminar	1
CDC 203	Chemical Dependency Counseling Practicum III	3
	TOTAL	15
<u>SECOND SEMESTER</u>		
PSY 134	Group Dynamics	3
BHS 103	Social Problems in Today's World	3
PSY 111	Psychology Principles I	3
CDC 104	Chemical Dependency Counseling Practicum II	2
CDC 204	Chemical Dependency Counseling Practicum IV	3
BHS 201	Contemporary Problems and Issues in Substance Abuse	2
	TOTAL	16
	TOTAL CREDIT HOURS	31

**NOTE:**

All CDC students are required to submit a completed physical examination form prior to field placement. All immunizations indicated on the form must be current. When the form is on file, the College Health Office will issue a waiver clearing the student for field placement. Hepatitis B vaccine series is highly recommended and may be required by the placement site under the OSHA Standard on Exposure to Blood Borne Pathogens.

**HUMAN SERVICES  
CHILD CARE: DIRECT CARE (DRC)  
(HEGIS 5503)  
(Applied Academic Certificate)**

This program is designed primarily for individuals currently employed in human services agencies who have little or no formal education in human services, or for individuals with no human services experience, who wish to enter this field. The program enables those individuals to acquire the theoretical background, basic techniques, and skills needed to function as significant members of the treatment team at their worksites. All of the credit hours earned in the Direct Care certificate Program are applicable to the Child Care Associate Degree Program.

A Certificate is awarded upon completion of the required courses.

Courses should be selected in consultation with an advisor.

<u>Course No.</u>	<u>Descriptive Title</u>	<u>Cr.Hrs.</u>
<u>FIRST SEMESTER</u>		
BHS 110	Introduction to Human Services	3
CHC 103	Child Care and Youth Practicum I	2
PSY 134	Group Dynamics	3
HMS 100	Introductory Seminar	1
PSY 111	Psychological Principles I	3
CHC 203	Child Care and Youth Practicum III	3
	TOTAL	15
<u>SECOND SEMESTER</u>		
PSY 102	Interviewing and Counseling Skills	3
CHC 104	Child Care and Youth Practicum II	2
PSY 235	Psychology of Exceptionality	3
BHS 242	Drug and Alcohol Use and Abuse	3
CHC 206	Child Care and Youth Practicum IV	3
ENG 101	Composition I	3
	TOTAL	17
	TOTAL CREDIT HOURS	32

**NOTE:**

All DRC students are required to submit a completed physical examination form prior to field placement. All immunizations indicated on the form must be current. When this form is on file, the College Health Office will issue a waiver clearing the student for field placement. Hepatitis B Vaccine series is highly recommended and may be required by the placement site under the OSHA Standard on Exposure to Blood Borne Pathogens.

**LIBERAL ARTS AND SCIENCES  
HUMANITIES AND SOCIAL SCIENCES (LAH)  
(HEGIS 5649)**

This curriculum is designed for the student who intends to transfer to a four-year institution to earn a baccalaureate degree. The program provides a broad, balanced exposure to the liberal arts by incorporating courses in the humanities, social sciences, mathematics, and sciences. A global perspective requirement further broadens the exposure. By appropriate selection of courses, a student may build a suitable background for further study in a variety of majors, such as literature, journalism, history, political science, economics, dance, foreign language, music, philosophy, psychology, sociology, speech and theater or for a variety of career goals, such as social work, law, government service, or teaching, writing or editing.

Dutchess Community College transfers students to a variety of four-year, public and private colleges and universities. Both formal and informal transfer agreements exist. Students are urged to consult their advisors, the faculty, and the Counseling and Career Services staff about transfer opportunities early in their career at Dutchess.

Students with strong academic backgrounds who are seeking a special challenge may select a sequence of honors-level courses to fulfill, in part, the A.A. degree requirements. Honors-level courses are open to qualified students only. Interested students should contact the Registrar's Office for further information and advisement.

The Associate in Arts (A.A.) degree is awarded upon completion of the requirements for this program.

Courses should be selected in consultation with an advisor.

**NOTE:** The letters in parentheses correspond to important footnotes listed below. Please read these footnotes carefully.

Course No.	Descriptive Title	Cr. Hrs.
<b>FIRST SEMESTER</b>		
ENG 101	Composition I	3
HIS 104, HIS 108, GOV 121		3
WFE 101	Lifetime Wellness and Fitness	3
	Humanities Recommended: Foreign language (a)	3
	Science (b)	4
LAH 100	Liberal Arts Humanities Intro. Seminar	1
	<b>TOTAL</b>	<b>17</b>
<b>SECOND SEMESTER</b>		
BHS 103	Social Problems in Today's World	3
ENG 102	Composition II	3
Humanities	Recommended: Foreign language (a)	3
Math (c)		3
Science (b)		4
	<b>TOTAL</b>	<b>16</b>
<b>THIRD &amp; FOURTH SEMESTERS</b>		
	English courses (d)	6
	Other World Civilizations course (e)	3
	Humanities (a)	3
	Social Science courses (f)	9
Electives (g)	(7-6 credits)	
Free Elective (h)	(3-4 credits)	10
	<b>TOTAL</b>	<b>31</b>
	<b>TOTAL CREDIT HOURS</b>	<b>64</b>

a. Humanities Courses: Students must select at least one course from General Education Appendices H or I, page 97. Students may not use ENG 102 to satisfy the Humanities requirement. After selecting one course from Appendices H or I, students may choose additional courses in Art, Dance, French, German, Humanities, Italian, Music, Philosophy, Spanish, Speech, and Theater. Students must choose at least two fields.

b. Science courses: Applicable four-credit courses in astronomy, biology, chemistry, geology, physical science, physics. See the General Education Appendix B, page 97.

c. Mathematics courses: Students must meet the math course prerequisites. Students planning to meet the SUNY General Education requirements for transfer to SUNY institutions should select a course from Appendix A, page 97. MAT 109 satisfies the mathematics requirement of the Associate in Arts degree program in Humanities and Social Science.

d. English courses: Any 200-level course except ENG 211 and 217.

e. Other World Civilization courses: Select a course from SUNY General Education Requirements Appendix F, page 97.

f. Social Science courses: Students must select courses from the fields of the Behavioral Sciences, Economics, Geography, Government, History, or Psychology. Students must complete a total of nine credits and choose courses from at least two fields. BHS 103 may not be used to satisfy the Social Science requirement.

g. Elective courses: Any applicable course. Courses applicable in this program are: (a) specific courses listed above; (b) courses applicable in all programs, see page 95. Recommended courses are listed in the General Education Appendices D, E, F, and H; see page 97. Students may select a course from Appendix D only if HIS 104 has not previously been taken. Students may select a course from Appendix F only if HIS 108 has not previously been taken. Free elective: See page 96 for a full discussion.

**LIBERAL ARTS AND SCIENCE  
HUMANITIES AND SOCIAL SCIENCES:  
ADVISEMENT TRACKS FOR CREATIVE WRITING AND INFORMATIONAL WRITING  
(HEGIS 5649)**

This advisement track is designed for the student who intends to transfer to a four-year institution to earn a baccalaureate degree. The program provides a broad, balanced exposure to the liberal arts by incorporating courses in the humanities, social sciences, mathematics, and sciences. An Other World Civilizations requirement further broadens the exposure.

Students may choose between two intensive writing tracks. The Creative Writing Track allows a student to build a suitable background for further study in a variety of creative writing majors such as drama, fiction, non-fiction and poetry. The Informational Writing Track provides a suitable background for further study in a variety of informational writing majors such as journalism, business and/or technical writing, advertising or public relations.

The Associate in Arts (A.A.) degree is awarded upon completion of the requirements for this program.

Courses should be selected in consultation with an advisor.

<u>Course No.</u>	<u>Descriptive Title</u>	<u>Cr.Hrs.</u>
<b>FIRST SEMESTER</b>		
ENG 101	Composition I	3
HIS 104, HIS 108, GOV 121		3
WFE 101	Lifetime Wellness & Fitness	3
Humanities: Foreign Language		3
Science (a)		4
LAH 100	Liberal Arts Humanities Intro.Sem.	1
	<b>TOTAL</b>	<b>17</b>
<b>SECOND SEMESTER</b>		
BHS 103	Social Problems in Today's World	3
ENG 102	Composition II	3
Humanities: Foreign Language		3
Math (b)		3
Science (a)		4
	<b>TOTAL</b>	<b>16</b>
<b>THIRD SEMESTER</b>		
English course (c)		3
Other World Civilizations courses (d)		3
Humanities Courses (e)		3
Social Science Courses (f)		6
	<b>TOTAL</b>	<b>15</b>
<b>FOURTH SEMESTER</b>		
English course (c)		3
Social Science courses (f)		3
Electives (g)		7
Free Elective (h)		3-4
	<b>TOTAL</b>	<b>16-17</b>
	<b>TOTAL CREDIT HOURS</b>	<b>64</b>

**Notes:**

- a. Science courses: Creative Writing Track: students may select applicable courses in astronomy, biology, chemistry, geology, physical science, physics. See General Education Appendix B, page 97. Informational Writing Track: PHS 101 and BIO 103 or BIO 104 recommended.
- b. Mathematics courses: Creative and Informational Writing Tracks: MAT 118 recommended.
- c. English courses: Creative Writing Track: students should take ENG 209, ENG 210 and/or ENG 214. Informational Writing Track: students should take ENG 226 and ENG 218.
- d. Other World Civilization courses: Select a course from SUNY General Education Requirements Appendix F, page 97.
- e. Humanities courses: Creative Writing Track: PHI 107 recommended. Informational Writing Track: ART 145 or ART 157 recommended.
- f. Social Science Courses: Students must select one Social Science course from the following: BHS 204, 208, 210, 214, GEO 102, GOV 219, 220, 223, HIS 107, 108, 206. Students may choose additional courses in Behavioral Science, Economics, Geography, Government, History, HGE 101 and Psychology. Students may choose additional courses in Behavioral Science, Economics, Geography, Government, History, HGE 101 and Psychology. Students must complete a total of nine credits and choose at least two fields. BHS 103 may not be used to satisfy the Social Science requirement.
- g. Electives: Creative Writing Track: students should take ENG 218 and ENG 226 and another relevant writing course. Informational Writing Track: students should take ENG 217 and ENG 211.
- h. Free Elective: see page 96 for a full discussion.

## LIBERAL ARTS AND SCIENCES HUMANITIES AND SOCIAL SCIENCES: HONORS ADVISEMENT SEQUENCE

The Honors Advisement Sequence challenges students with an enriched liberal arts education through correlated courses and an upper level interdisciplinary seminar. The Sequence is designed for students who, upon completing the program, intend to continue work toward a Bachelor's Degree.

The Sequence features small classes, including a freshman seminar which familiarizes students with campus life and provides a forum for questions and concerns. Each semester's course offerings emphasize a central theme. The first semester focuses on global intellectual and cultural tradition; the second and third semesters focus on recent American political, literary and historical development; and the final semester emphasizes the complexities and richness of the contemporary world.

Individual academic advisement and intensive counseling prepare students for transfer to competitive four-year institutions. In the past, DCC Honors students have transferred to Colgate, Cornell, New York University, Vassar and Williams as well as the State University's more selective four-year campuses.

Students are selected for the Honors Sequence on the basis of high school achievement and an individual interview. Qualified LAH students may enter the Honors Sequence after their first or second semester at DCC and after an individual interview with the Honors Coordinator. Capable students unable to commit themselves to the entire Honors Sequence may enroll in selected Honors courses with the written permission of the Honors course's instructor or the Coordinator of the Honors Sequence.

**The Associate in Arts degree in Liberal Arts and Sciences: Humanities and Social Sciences is awarded upon completion of the requirements of the Honors Advisement Track.**

A minimum of 24 credits of Honors courses, the completion of LSS 201, and a GPA of 3.2 or higher are required for a student to receive certification for the completion of the Honors Sequence.

NOTE: The letters in parentheses correspond to important footnotes listed. Please read them carefully.

Course No.	Descriptive Title	Cr. Hrs.
<b>FIRST SEMESTER</b>		
BHS 103-H	Social Problems in Today's World	3
ENG 101-H	Composition I (a)	3
HIS 107-H	History of World Civilization (a)	3
PHI 107-H	Introduction to the Art of Reasoning	3
LSS 100	Honors Introductory Seminar	1
Humanities	Foreign Language recommended (b)	<u>3</u>
	<b>TOTAL</b>	<b>16</b>
<b>SECOND SEMESTER</b>		
ENG 102-H	Composition II	3
Electives (f)		4
PSY 111-H	Psychological Principles I	3
Math (c)		3
Humanities (b)		<u>3</u>
	<b>TOTAL</b>	<b>16</b>
<b>THIRD SEMESTER</b>		
ENG 204-H	American Literature: Civil War to the Present (a)	3
HIS 104-H	History of the United States II (a)	3
WFE 101	Lifetime Wellness and Fitness	3
Elective	Humanities or Social Science (d)	3
Science (e)		<u>4</u>
	<b>TOTAL</b>	<b>16</b>
<b>FOURTH SEMESTER</b>		
ENG 264-H	Global Literature (a)	3
GOV 219-H	Global Politics (a)	3
LSS 201-H	Liberal Studies Seminar	3
Science (e)		4
Free Elective (g)		<u>3</u>
	<b>TOTAL</b>	<b>16</b>
	<b>TOTAL CREDIT HOURS</b>	<b>64</b>

a. When offered concurrently, the following courses are recommended to be taken together.

ENG 101-H and HIS 107-H

ENG 204-H and HIS 104-H

ENG 264-H and GOV 219-H

Other English 200 level courses may be offered and are applicable for the completion of the Honors Sequence.

b. Humanities courses: A foreign language is strongly recommended. Applicable courses in art, dance, French, humanities, Italian, music, philosophy, Spanish, speech, theatre. Students must choose two semesters of a language or courses in two fields.

c. Mathematics courses: MAT 109-H or MAT 118-H recommended; Mat 109 or higher is required.

d. Humanities/Social Science courses: ART (ART 101 recommended), BHS (BHS 204-H recommended), DAN, ECO, FRE, GEO, GOV, HIS, HUM, ITL, MUS, PHI, PSY, SPA, SPE, THE and 200-level ENG courses (except ENG 211 and 217).

e. Science courses: AST 132 H recommended. Applicable four-credit courses in AST, BIO, CHE, GLG, PHS, PHY.

f. Elective courses: INT 801 recommended. Courses applicable in this program are: (a) Specific courses listed above; (b) courses applicable in all programs. See page 95.

g. For a full discussion of the free elective see page 96.

**LIBERAL ARTS AND SCIENCES**  
**LIBERAL ARTS AND SCIENCES - MATHEMATICS (LAM)**  
**(HEGIS 5617)**

This program of study is recommended for transfer students planning to earn a baccalaureate degree with a major in mathematics. It is recommended that students entering the program have four units of high school academic math.

The Associate in Arts (A.A.) degree is awarded upon completion of the requirements for this program.

Students who complete the LAM program will:

- successfully transfer to a four-year institution of higher learning to earn a baccalaureate degree in mathematics or mathematics education;
- have a broad and enriched background in the liberal arts;
- use contemporary technology to explore mathematical ideas and effectively communicate their observations.
- use mathematics in a non-trivial way in physics.

Courses should be selected in consultation with an advisor



<u>Course No.</u>	<u>Descriptive Title</u>	<u>Cr.Hrs.</u>
<b>FIRST SEMESTER</b>		
LAM 100 or LAH 100 (a)	Mathematics Introductory Seminar	1
CPS 141	Introduction to Computer Science (c)	4
ENG 101	Composition I	3
MAT 221	Analytic Geometry and Calculus I	4
WFE 101	Lifetime Wellness and Fitness	3
	<b>TOTAL</b>	<b>15</b>
<b>SECOND SEMESTER</b>		
ENG 102	Composition II	3
HIS 104, HIS 108, GOV 121		3
MAT 222	Analytic Geometry and Calculus II	4
PHY 151	Engineering Physics I (b)	4
General Education Elective (d)		3
	<b>TOTAL</b>	<b>17</b>
<b>THIRD SEMESTER</b>		
BHS 103	Social Problems in Today's World	3
MAT 223	Analytic Geometry and Calculus III	4
	General Education Elective (d)	3
MAT 214 or 217	Discrete Mathematics Introduction to Proofs (g)	3
PHY 152	Engineering Physics II (b)	4
	<b>TOTAL</b>	<b>17</b>
<b>FOURTH SEMESTER</b>		
MAT 215	Introduction to Linear Algebra	3
MAT 224	Differential Equations	4
Electives (e)	(4-6 credits)	
Free Elective (f)	(3-4 credits)	8-10
	<b>TOTAL</b>	<b>15-17</b>
	<b>TOTAL CREDIT HOURS</b>	<b>64</b>

- a. LAM students enrolled in MAT 185, 215, 221, 223 or 224 take LAM 100. All others take LAH 100.
- b. PHY 121/122 is an acceptable alternative to PHY 151/152 at some transfer colleges. Check with your advisor concerning a waiver.
- c. Two of the following courses CIS 112, 114, 214, may be substituted for CPS 141.
- d. General Education Elective: Courses applicable to this program are listed in the General Education Appendices D, E, F, G, H and I. Students may select a course from Appendix D only if HIS 104 has not previously been taken. Students may select a course from Appendix F only if HIS 108 has not previously been taken. See page 97 for the list of the General Education Appendices.
- e. Courses applicable to this program are: (a) specific courses listed above; (b) courses applicable in all programs, see page 95; CPS 142, CPS 231 with department approval. A minimum of 8 elective credits including the free elective is required.
- f. See page 96 for a full discussion of the free elective requirement. The subject area for Mathematics includes all courses labeled MAT.
- g. Students should select either MAT 214 or MAT 217 based on the requirements of their prospective transfer colleges.

**LIBERAL ARTS AND SCIENCES**  
**LIBERAL ARTS AND SCIENCES - SCIENCE (LAX)**  
**(HEGIS 5649)**

This curriculum is designed for the student who intends to transfer to a four-year institution to earn a baccalaureate degree in a natural or physical science. The program provides a broad background in the liberal arts and sciences. By appropriate selection of courses, a student may build a suitable background for further study in a senior college leading to the baccalaureate degree in biology, chemistry, environmental science and conservation, geology, health education or physics.

Dutchess Community College transfers students to a variety of four-year, public and private colleges and universities. Both formal and informal transfer agreements exist. Students are urged to consult their advisor, the faculty and the Counseling and Career Services staff about transfer opportunities early in their academic career at Dutchess.

The Associate in Science (A.S.) degree is awarded upon completion of the requirements for this program.

Students who successfully complete the Associate in Science (A.S.) degree in Liberal Arts and Sciences – Science (LAX) will:

- Qualify to transfer as a junior to a four-year institution of higher learning to earn a baccalaureate degree in a natural or physical science;
- Have successfully completed an enriched and broadened background in the liberal arts;
- Have successfully completed courses in a particular field of interest in the natural and/or physical sciences;
- Have met the SUNY General Education requirements in mathematics, writing and critical thinking;
- Have developed the technological skills and expertise in computer use for data collection/analysis, laboratory procedures, and field work as appropriate to their area of concentration, necessary for success in junior-senior courses at their respective transfer institutions.

Courses should be selected in consultation with an advisor.



Course No.	Descriptive Title	Cr. Hrs.
ENG 101	Composition I	3
ENG 102	Composition II	3
HIS 104, HIS 108, GOV 121		3
BHS 103	Social Problems in Today's World	3
Science (a) (c)		16
SCI 100 (d)	Science Introductory Seminar	1
Math (b) (c)		4
Humanities (e)		3
Social Science (f)		3
General Education Elective (g)		3-4
Electives (h) (15-16 credits)		
Free Elective (i) (3-4 credits)		19
WFE 101	Lifetime Wellness and Fitness	3
TOTAL		
TOTAL CREDIT HOURS		64

- a. The following science courses are recommended for students planning to transfer in: Biology: BIO 105-106, eight BIO 200-level credits; CHE 121-122, CHE 231-232. Chemistry: CHE 121-122; 231-232; PHY 121-122 or 151-152. Earth Science: CHE 121- 122; GLG 121, 124; AST 131; PHS 111; PHY 121-122. Environmental Science: BIO 107, 108, 221, 225, 226, 230; CHE 121 and CHE 122, ESC 230 or ESC 231. Health: BIO 105-106, 209-210. Physics: PHY 151-152, 251, PHY 252 or ENR 207; CHE 121-122.
- b. Mathematics course: MAT 185 or a 200-level math course. Students must meet the math course prerequisites. The following mathematics courses are recommended for students planning to transfer in: Biology: MAT 221, 222, 223, 224. Environmental Science: MAT 118 and MAT 185 or 221. Chemistry: MAT 221, 222, 223, 224. Health: MAT 118 and MAT 185. Earth Science: MAT 221, 222. Physics: MAT 221, 222, 223, 224.
- c. A minimum of one 200-level course is required in either math or science.
- d. The Introductory Seminar is required in the first semester after matriculation in LAX.
- e. Humanities courses: Applicable courses are listed in the General Education Appendices. Students may not use ENG 102 to satisfy the Humanities requirement.
- f. Social Science courses: Applicable courses in behavioral science, economics, geography, government, history, HGE 101, psychology. Students may not use BHS 103 to satisfy the Social Science requirement.
- g. General Education Elective: Courses applicable to this program are listed in the General Education Appendices D, E, F, H and I. Students may select a course from Appendix D only if HIS 104 has not been previously taken. Students may select a course from Appendix F only if HIS 108 has not been previously taken. See page 97 for the list of the General Education Appendices.
- h. Elective courses: Courses applicable in this program are: (a) specific courses listed above; (b) courses applicable in all programs, and courses listed in the General Education Appendices D, E, F, and H. Students may select a course from Appendix D only if HIS 104 or HIS 121 have not been previously taken. Students may select a course from Appendix F only if HIS 108 has not been previously taken. See page 97 for the list of the General Education Appendices.
- i. For a full discussion of the free elective see page 96.

**LIBERAL ARTS AND SCIENCES - EDUCATION  
ADOLESCENT EDUCATION 7-12 WITH SUNY NEW PALTZ  
(HEGIS 5649)**

These jointly registered programs in adolescent education are designed to facilitate the transfer of students preparing to become certified teachers in grades 7-12 from Dutchess Community College to The College at New Paltz. The curricula for the two years at Dutchess Community College is shown for each program.

Students admitted to the jointly registered programs at Dutchess are simultaneously admitted to the College at New Paltz. Upon completion of the A.S. degree, students may transfer to The College at New Paltz and begin study toward the baccalaureate degree. If they achieve a grade point average of 2.75 in their first semester at New Paltz, they will be admitted to Curriculum I (the professional core) of the adolescent education program.

The two years at DCC are designed to meet the general education requirements of New Paltz, to complete approximately one-half of the academic major at New Paltz required for teacher certification, and to begin to prepare students for the New York State Teacher Certification Examination.

**NOTE:** These jointly registered programs are designed for students who plan to transfer to The College at New Paltz in adolescent

**Liberal Arts & Sciences Adolescent Education 7-12 with SUNY New Paltz**

**Notes:**

- a. Students planning an academic major in science at New Paltz should start their sequence in biology or earth science. Other students may take applicable four credit (laboratory science) courses in astronomy, biology, chemistry, geology, physical sciences or physics. See General Education, Appendix B, page 97.
- b. All students are required to take two semesters of a foreign language. Foreign language instructors should be consulted for assistance in selecting the appropriate course. Students planning on an academic major in foreign language at New Paltz must choose French or Spanish. If the two semester foreign language requirement has been satisfied students should speak to the program coordinator and/or an academic advisor to select an academic concentration course.
- c. MAT 109 or higher required.
- d. The baccalaureate degree in adolescent education requires a minimum of 30 credit hours in an academic major. Students should plan their individual programs in order to have a minimum of 12 or, if possible, 15 credits toward the major at New Paltz when they complete the associate degree. It is essential that students consult their advisor when selecting elective courses for the academic major.
- e. Students planning an academic major in history at New Paltz should choose GOV 121, HIS 104.
- f. Other World Civilization courses: Select a course from SUNY General Education Requirements Appendix f, page 97.
- g. Western Civilization courses: Select a course from SUNY General Education Requirements Appendix E, page 97.
- h. Elective courses: any applicable courses. See page 95.
- i. Most students will need to select as their free elective a course which will count toward their academic major at New Paltz. See page 96 for a full discussion of the free elective requirement.
- j. Students also may take CIS 113 or CPS 141 and CPS 142 or CPS 231. Consult an advisor for more information.
- k. Additional applicable courses are: MAT 221, MAT 222, GLG 121, PHY 121, PHY 122, CHE 231, and CHE 232. Students may also enroll in one of the following: MAT 118 or CPS 141 and CPS 142.
- l. SUNY New Paltz requires the grade of B or better in both ENG 101 and ENG 102.

**LIBERAL ARTS AND SCIENCES - EDUCATION  
Adolescent Education 7-12 with SUNY New Paltz**

**BIOLOGY (EDB)**

<u>Course No.</u>	<u>Descriptive Title</u>	<u>Cr.Hrs.</u>
<u>FIRST SEMESTER</u>		
ENG 101	Composition I	3
PSY 111	Psychological Principles I	3
MAT 185	Precalculus	4
BIO 105	General Biology I	4
Foreign Language (b)		3
LAT 100	Education Introductory Seminar	<u>1</u>
	TOTAL	18
<u>SECOND SEMESTER</u>		
ENG 102	Composition II	3
HIS 104, HIS 108, GOV 121 (e)		3
BHS 103	Social Problems in Today's World	3
Foreign Language (b)		
or CHE 121	General Chem I	3-4
BIO 106	General Biology II	<u>4</u>
	TOTAL	16-17
<u>THIRD SEMESTER</u>		
BHS 207	Education in America	3
PSY 204	Adolescent Psychology	3
Other World Civilizations (f)		3
CHE 121	General Chem I	
or CHE 122	General Chem II	4
BIO 107 or BIO 204 or BIO 205 (l)		<u>4</u>
	TOTAL	17
<u>FOURTH SEMESTER</u>		
Western Civilization (g)		3
THE 120	Performing Skills for the Classroom	3
WFE 101	Lifetime Fitness and Wellness	3
CHE 122	General Chem II	
or choice of BIO 107 or BIO 204 or BIO 205 (l)		4
LAT 201	Ed Settings: Adol Learning Envir	1
Free Elective (i)		<u>3-4</u>
	TOTAL	17-18
	TOTAL CREDIT HOURS	68
<b>Notes: See page 77</b>		

**LIBERAL ARTS AND SCIENCES - EDUCATION  
Adolescent Education 7-12 with SUNY New Paltz**

**CHEMISTRY (EDX)**

<u>Course No.</u>	<u>Descriptive Title</u>	<u>Cr.Hrs.</u>
<u>FIRST SEMESTER</u>		
ENG 101	Composition I (I)	3
PSY 111	Psychological Principles	3
Foreign Language (b)		3
MAT 221	Analytic Geometry Calculus I	4
CHE 121	General Chem I	4
LAT 100	Education Introductory Seminar	<u>1</u>
	TOTAL	18
<u>SECOND SEMESTER</u>		
ENG 102	Composition II (I)	3
BHS 103	Social Problems in Today's World	3
Other World Civilizations (f)		3
Foreign Language (b)		
or MAT 222	Analytic Geometry Calculus II	3-4
CHE 122	General Chem II	<u>4</u>
	TOTAL	16-17
<u>THIRD SEMESTER</u>		
BHS 207	Education in America	3
PSY 204	Adolescent Psychology	3
HIS 104, HIS 108, GOV 121 (e)		3
CHE 231	Organic Chem I	4
PHY 151	Engineering Physics I	<u>4</u>
	TOTAL	17
<u>FOURTH SEMESTER</u>		
Western Civilization (g)		3
THE 120	Performing Skills for the Classroom	3
WFE 101	Lifetime Fitness and Wellness	3
CHE 232	Organic Chem II	4
PHY 152	Engineering Physics II	<u>4</u>
	TOTAL	17
	TOTAL CREDIT HOURS	68
<b>Notes: See page 77</b>		

**LIBERAL ARTS AND SCIENCES - EDUCATION**  
**Adolescent Education 7-12 with SUNY New Paltz**

**EARTH SCIENCE (EDS)**

Course No.	Descriptive Title	Cr.Hrs.
<u>FIRST SEMESTER</u>		
ENG 101	Composition I (I)	3
PSY 111	Psychological Principles I	3
Foreign Language (b)		3
MAT 221	Analytic Geometry & Calculus I	4
GLG 121	Physical Geology	4
LAT 100	Education Introductory Seminar	<u>1</u>
	TOTAL	18
<u>SECOND SEMESTER</u>		
ENG 102	Composition II (I)	3
HIS 104, HIS 108, GOV 121 (e)		3
BHS 103	Social Problems in Today's World	3
Foreign Language (b)		3-4
or CHE 121	General Chem I	<u>4</u>
GLG 124	The Earth Through Time	<u>4</u>
	TOTAL	16-17
<u>THIRD SEMESTER</u>		
BHS 207	Education in America	3
PSY 204	Adolescent Psychology	3
Other World Civilizations (f)		3
CHE 121	General Chemistry I	4
or CHE 122	General Chemistry II	<u>4</u>
PHY 121	General Physics	<u>4</u>
	TOTAL	17
<u>FOURTH SEMESTER</u>		
Western Civilization (g)		3
THE 120	Performing Skills for the Classroom	3
WFE 101	Lifetime Fitness and Wellness	3
CHE 122	General Chemistry II	4
or PHS 111	Weather and Climate	<u>4</u>
PHY 122		<u>4</u>
	TOTAL	17
	TOTAL CREDIT HOURS	68

Notes: See page 77

**LIBERAL ARTS AND SCIENCES - EDUCATION**  
**Adolescent Education 7-12 with SUNY New Paltz**

**ENGLISH (EDL)**

Course No.	Descriptive Title	Cr.Hrs.
<u>FIRST SEMESTER</u>		
ENG 101	Composition I (I)	3
PSY 111	Psychological Principles I	3
Math (c)		3-4
Science (a)		4
Foreign Language (b)		3
LAT 100	Education Introductory Seminar	<u>1</u>
	TOTAL	17-18
<u>SECOND SEMESTER</u>		
ENG 102	Composition II (I)	3
HIS 104, HIS 108, GOV 121 (e)		3
BHS 103	Social Problems in Today's World	3
Foreign Language (b)		3
Science (a)		<u>4</u>
	TOTAL	16
<u>THIRD SEMESTER</u>		
BHS 207	Education in America	3
PSY 204	Adolescent Psychology	3
Other World Civilizations (f)		3
Academic Concentration (d) Suggested: ENG 201, ENG 202, ENG 203		<u>9</u>
	TOTAL	18
<u>FOURTH SEMESTER</u>		
Western Civilization (g)		3
THE 120	Performing Skills for the Classroom	3
WFE 101	Lifetime Fitness and Wellness	3
Academic Concentration (d) Suggested: ENG 204 Lit of the U.S.		3-5
LAT 201	Ed Settings: Adol Learning Envir	1
Free Elective (i)		<u>3-4</u>
	TOTAL	16-19
	TOTAL CREDIT HOURS	67

Notes: See page 77

**LIBERAL ARTS AND SCIENCES - EDUCATION**  
**Adolescent Education 7-12 with SUNY New Paltz**

**FRENCH (EDF)**

Course No.	Descriptive Title	Cr.Hrs.
<b>FIRST SEMESTER</b>		
ENG 101	Composition I (I)	3
PSY 111	Psychological Principles I	3
Math (c)		3-4
Science (a)		4
Foreign Language (b*)		3
LAT 100	Education Introductory Seminar	1
	<b>TOTAL</b>	<b>17-18</b>
<b>SECOND SEMESTER</b>		
ENG 102	Composition II (I)	3
HIS 104, HIS 108, GOV 121 (e)		3
BHS 103	Social Problems in Today's World	3
Foreign Language (b*)		3
Science (a)		4
	<b>TOTAL</b>	<b>16</b>
<b>THIRD SEMESTER</b>		
BHS 207	Education in America	3
PSY 204	Adolescent Psychology	3
Other World Civilizations (f)		3
Academic Concentration (b*)		9
	<b>TOTAL</b>	<b>18</b>
<b>FOURTH SEMESTER</b>		
Western Civilization (g)		3
THE 120	Performing Skills for the Classroom	3
WFE 101	Lifetime Fitness and Wellness	3
Foreign Language (b*)		3
LAT 201	Ed Settings: Adol Learning Envir	1
Free Elective (i)		3-4
	<b>TOTAL</b>	<b>16-17</b>
	<b>TOTAL CREDIT HOURS</b>	<b>67</b>

\*b. Foreign Language majors are available in French or Spanish. Students selecting one of these languages should complete:  
**French:** FRE 101 and FRE 102 or FRE 199 and FRE 201, FRE 202, FRE 301, FRE 302. FRE 271, FRE 272, FRE 273 may be used for elective credits. [A student can transfer 18 credits in French.]  
**See additional Notes on page 77.**

**LIBERAL ARTS AND SCIENCES - EDUCATION**  
**Adolescent Education 7-12 with SUNY New Paltz**

**HISTORY/SOCIAL STUDIES (EDH)**

Course No.	Descriptive Title	Cr. Hrs.
<b>FIRST SEMESTER</b>		
ENG 101	Composition I (I)	3
PSY 111	Psychological Principles I	3
Math (c)		3-4
Science (a)		4
Foreign Language (b)		3
LAT 100	Education Introductory Seminar	1
	<b>TOTAL</b>	<b>17-18</b>
<b>SECOND SEMESTER</b>		
ENG 102	Composition II (I)	3
HIS 104, HIS 108 or GOV 121 (e)		3
BHS 103	Social Problems in Today's World	3
Foreign Language (b)		3
or Academic Concentration (d) Suggested:		
GOV 121 American National Experience		3
Science (a)		4
	<b>TOTAL</b>	<b>16</b>
<b>THIRD SEMESTER</b>		
BHS 207	Education in America	3
PSY 204	Adolescent Psychology	3
Other World Civilizations (f)		3
Academic Concentration (d)		
Required: HIS 103 History of U.S.		
Suggested: GOV 121, HIS 207, HIS 210		6-9
	<b>TOTAL</b>	<b>15-18</b>
<b>FOURTH SEMESTER</b>		
Western Civilization (g)		3
THE 120	Performing Skills for the Classroom	3
WFE 101	Lifetime Fitness and Wellness	3
Academic Concentration (d) Suggested: ECO 201, ECO 202, GOV 219, HIS 220/GOV 220, GOV 221, BHS 204		3-5
LAT 201	Ed Settings: Adol Learning Envir	1
Free Elective (i)		3-4
	<b>TOTAL</b>	<b>16-19</b>
	<b>TOTAL CREDIT HOURS</b>	<b>64</b>

**Notes: See page 77**

**LIBERAL ARTS AND SCIENCES - EDUCATION**  
**Adolescent Education 7-12 with SUNY New Paltz**

**MATHEMATICS (EDM)**

Course No.	Descriptive Title	Cr. Hrs.
<b>FIRST SEMESTER</b>		
ENG 101	Composition I (I)	3
PSY 111	Psychological Principles I	3
MAT 221	Analytic Geometry Calculus I	4
WFE 101	Lifetime Fitness and Wellness	3
Foreign Language (b)		3
LAT 100	Education Introductory Seminar	1
	<b>TOTAL</b>	<b>17</b>
<b>SECOND SEMESTER</b>		
ENG 102	Composition II (I)	3
Foreign Language (b)		3
BHS 103	Social Problems in Today's World	3
MAT 222	Analytic Geometry Calculus II	4
PHY 151	Engineering Physics I	4
	<b>TOTAL</b>	<b>17</b>
<b>THIRD SEMESTER</b>		
BHS 207	Education in America	3
PSY 204	Adolescent Psychology	3
PHY 152	Engineering Physics II	4
MAT 223 (k)	Analytic Geometry Calculus III	4
MAT 217 (k)	Introduction to Proofs	
or MAT 214 (k)	Discrete Mathematics	3
	<b>Total</b>	<b>17</b>
<b>FOURTH SEMESTER</b>		
Western Civilization (g)		3
THE 120	Performing Skills for the Classroom	3
Other World Civilizations (f)		3
MAT215 (k)	Intro to Linear Algebra	3
LAT 201	Ed Settings: Adol Learning Envir	1
HIS 104, HIS 108, GOV 121(e)		3
	<b>TOTAL</b>	<b>16</b>
	<b>TOTAL CREDIT HOURS</b>	<b>67</b>

**Notes: See page 77**

**LIBERAL ARTS AND SCIENCES - EDUCATION**  
**Adolescent Education 7-12 with SUNY New Paltz**

**SPANISH (EDP)**

Course No.	Descriptive Title	Cr.Hrs.
<b>FIRST SEMESTER</b>		
ENG 101	Composition I (I)	3
PSY 111	Psychological Principles I	3
Math (c)		3-4
Science (a)		4
Foreign Language (b*)		3
LAT 100	Education Introductory Seminar	1
	<b>TOTAL</b>	<b>17-18</b>
<b>SECOND SEMESTER</b>		
ENG 102	Composition II (I)	3
HIS 104, HIS 108, GOV 121 (e)		3
BHS 103	Social Problems in Today's World	3
Foreign Language (b*)		3
Science (a)		4
	<b>TOTAL</b>	<b>16</b>
<b>THIRD SEMESTER</b>		
BHS 207	Education in America	3
PSY 204	Adolescent Psychology	3
Other World Civilizations (f)		3
Academic Concentration (b*)		9
	<b>TOTAL</b>	<b>18</b>
<b>FOURTH SEMESTER</b>		
Western Civilization (g)		3
THE 120	Performing Skills for the Classroom	3
WFE 101	Lifetime Fitness and Wellness	3
Foreign Language (b*)		3
LAT 201	Ed Settings: Adol Learning Envir	1
Free Elective (i)		3-4
	<b>TOTAL</b>	<b>16-17</b>
	<b>TOTAL CREDIT HOURS</b>	<b>67</b>

\*b. Foreign Language majors are available in French or Spanish.  
**Spanish:** SPA 101 and SPA 102, or SPA 199 and SPA 201, SPA 202, SPA 301, SPA 302. SPA 204 and SPA 205 when overseas courses are offered. SPA 271, SPA 272, SPA 273 may also be used for elective credit. [A student may transfer 18 credits in Spanish.]  
**See additional Notes on page 77**

**LIBERAL ARTS AND SCIENCES - EDUCATION  
CHILDHOOD EDUCATION 1-6 WITH SUNY NEW PALTZ (EDC)  
(HEGIS 5649)**

This jointly registered program in Childhood Education is designed to facilitate the transfer of students preparing to become certified teachers in grades 1-6 from Dutchess Community College to The College at New Paltz. The program for the two years at Dutchess Community College and the following two years at the College at New Paltz is shown below.

Students wishing to prepare to be elementary school teachers with a major in English, French, Spanish, history, mathematics, biology, or earth science may complete two years of their program at Dutchess Community College.

Students admitted to the jointly registered program at Dutchess are simultaneously admitted to the College at New Paltz. Upon completion of the A.S. degree, students may transfer to the College at New Paltz and begin study toward the baccalaureate degree. If they achieve a grade point average of 2.75 in their first semester at New Paltz, they will be admitted to Curriculum I (the professional core) of the elementary education program.

The two years at DCC described is designed to meet the general education requirements of New Paltz, to complete approximately one-half of the academic major at New Paltz required for teacher certification, and to begin to prepare students for the New York State Teacher Certification Examination.

**NOTE:** The joint admission program is designed for students who plan to transfer to The College at New Paltz in childhood education with the academic majors listed above. Students also may prepare to transfer with other majors to New Paltz or to other education programs through the Liberal Arts and Sciences: Humanities and Social Sciences A.A. degree program or the Early Childhood A.A.S. degree program. Students planning to transfer to an education program at a school other than the College at New Paltz might wish to discuss their plans with a Transfer Counselor in Counseling and Career Services, SSB 301, or at 431-8040. This program will be modified to comply with changes to the requirements for teacher certification in New York State. Students entering the program in Fall, 2000 or later will be required to provide documentation of experience working with children and, as part of the transfer process, will be required to have an interview with the program staff at SUNY New Paltz.

The Associate in Science (A.S.) degree is awarded upon completion of the requirements for this program.

Course No.	Descriptive Title	Cr.Hrs.
<b>FIRST SEMESTER</b>		
ENG 101	Composition I	3
PSY 111	Psychological Principles I	3
MAT 107 (c)	Science (a)	3-4
	Foreign Language (b)	4
LAT 100	Elementary Education Introductory Seminar	3
	TOTAL	<u>1</u>
		17-18
<b>SECOND SEMESTER</b>		
ENG 102	Composition II	3
HIS 104, HIS 108, GOV 121 (e)		3
THE 120	Performing Skills for the Classroom	3
	Foreign Language (b) or Academic Concentration (d)	3
	Science (a)	<u>4</u>
	TOTAL	16
<b>THIRD SEMESTER</b>		
BHS 207	Education in America	3
PSY 203 or 221	Developmental Psychology or Child Development	3
	Other World Civilizations (f)	3
	Academic Concentration (d)	<u>6-8</u>
	TOTAL	15-17
<b>FOURTH SEMESTER</b>		
	Western Civilization (g)	3
BHS 103	Social Problems in Today's World	3
WFE 101	Lifetime Fitness and Wellness	3
	Academic Concentration (d)	3-4
LAT 200	Learner Diversity	3
	Free Elective (h)	<u>3-4</u>
	TOTAL	18-20
	TOTAL CREDIT HOURS	66

a. Students planning an academic major in science at New Paltz should start their sequence in biology or earth science. Other students may take applicable four-credit (laboratory science) courses in astronomy, biology, chemistry, geology, physical sciences or physics. See General Education, Appendix B page 97.

b. All students are required to satisfy the foreign language requirement, prior to transfer. If the student has no previous foreign language study, or wishes to begin a language not previously studied, two semesters are required. For individuals with previous foreign language study who wish to continue with that language, it may be possible to satisfy the requirement with one semester of foreign language study. Foreign language instructors should be consulted for assistance in selecting the appropriate course. Students planning an academic major in foreign language at New Paltz must choose French or Spanish.

c. Students may elect to take MAT 117, to complete the two course mathematics requirement for this program. Students planning concentrations in mathematics must meet math prerequisites and should consult an advisor on course selection.

d. The baccalaureate degree in elementary education requires a minimum of 30 credit hours in an academic major. Students should plan their individual programs in order to have a minimum of 12 or, if possible, 15 credits toward the major at New Paltz (**English, French, Spanish, history, mathematics, biology, or earth science**) when they complete the associate degree. It is essential that students consult their advisor when selecting elective courses for the academic major.

e. Students planning an academic major in history at New Paltz should choose GOV 121 or HIS 104.

f. Other World Civilization courses: Select a course from SUNY General Education Requirements Appendix f, page 97.

g. Western Civilization courses: Select a course from SUNY General Education Requirements Appendix E, page 97.

h. Elective courses: any applicable courses. See page 95.

i. Most students will need to select as their free elective a course which will count toward their academic major at New Paltz. See page 96 for a full discussion of the free elective requirement.



## Childhood Education 1-6 with SUNY New Paltz (EDC)

<u>Dutchess Course</u>		<u>Equivalent New Paltz Course</u>	
BHS207	Education in American Society	38340	Social & Philosophical Foundations of Education
MAT107	Math for Elementary Teachers	64140	Mathematics for Elementary School Teachers
PSY221	Child & Adolescence Psychology	38371	Child Psychology & Development

<u>Course No.</u>	<u>Descriptive Title</u>	<u>Cr. Hrs.</u>
<u>FIFTH SEMESTER/NEW PALTZ</u>		
48273	Basic Physical Geography	3
64240	Mathematics for Elementary School Teachers II	3
35370	Introduction to the Education of Diverse Populations in Early Childhood and Elementary School Settings	3
	Liberal Arts Major	3-4
	Liberal Arts Major	3-5
	Total Credits	15-18

<u>SIXTH SEMESTER/NEW PALTZ</u>		
35375	Teaching Reading in the Elementary School	3
39350	Creating Inclusive Elementary School Classrooms	3
	Liberal Arts Major	3
	Liberal Arts Major	3-4
	Liberal Arts Major	3-4
	Total Credits	15-17

<u>SEVENTH SEMESTER/NEW PALTZ</u>		
35371	Developmentally Appropriate Practices for Grades 1-6	3
35381	Teaching English, Language Arts and Social Studies in the Elementary School	6
35380	Teaching Mathematics, Science and Technology in the Elementary School	6
	Total Credits	15

<u>EIGHTH SEMESTER/NEW PALTZ</u>		
35404	Student Teaching (1 <sup>st</sup> through 3 <sup>rd</sup> grade)	6
35405	Student Teaching (4 <sup>th</sup> through 6 <sup>th</sup> grade)	6
	Total Credits	12

**LIBERAL ARTS AND SCIENCES - EDUCATION  
EARLY CHILDHOOD EDUCATION BIRTH THROUGH GRADE 2 WITH SUNY NEW PALTZ (EDE)  
(HEGIS 5649)**

This is a jointly registered program in early childhood education. It is designed to facilitate the transfer of students from Dutchess Community College to the College at New Paltz to prepare to become NYS certified teachers in grades Pre-K, K, 1 and 2. Students admitted to the jointly registered program at Dutchess are simultaneously admitted to The College at New Paltz and may complete two years of their program at Dutchess Community College. Students will need to select an academic major in either English, French, Spanish, history, mathematics, biology or earth science. Upon completion of the A.S. degree, with a grade point average of 2.75 or better and a grade of B- or better in all early childhood courses, students may transfer to The College at New Paltz and begin study toward the baccalaureate degree.

The program for the two years at Dutchess Community College and the following two years at The College at New Paltz is shown. The two years at DCC are designed to meet the general education requirements of New Paltz, complete education courses which will transfer to New Paltz, fulfill the needed hours of field experience and begin to prepare students for the New York State Teachers Certification Examination.

**NOTE:** The joint admission program is designed for students who plan to transfer to The College at New Paltz in early childhood education with the academic majors listed above. Students wishing to transfer to an education program at a school other than New Paltz or pursue a degree leading to employment as a child care center administrator should discuss their plans with the Early Childhood Program Chair, Ellen Wild (Taconic 207/431-8348).

The Associate in Science (A.S.) degree is awarded upon completion of the requirements of this program.

Course No.	Descriptive Title	Cr. Hrs
<b>FIRST SEMESTER</b>		
ENG 101	Composition I	3
PSY 111	Psychological Principles I	3
ECH 101	Introduction to Early Childhood	3
ECH 102	Introductory Seminar: Programs for Young Children (i)	1
ECH 120	Infant and Toddler Curriculum	3
ECH 121	Infant and Toddler Curriculum Fieldwork (i)	1
Math 107	Math for Elementary School Teachers (c)	3
	TOTAL	17
<b>SECOND SEMESTER</b>		
ENG 102	Composition II	3
BHS 103	Social Problems in Today's World	3
	Foreign Language (b)	3
PSY 221	Child Development	3
HIS 104, HIS 108, GOV 121 (e)		3
THE 120	Performing Skills for the Classroom	3
	TOTAL	18
<b>THIRD SEMESTER</b>		
ECH 254	Foundations and Issues in Diverse Early Childhood/Childhood Classrooms	3
	Science (a)	4
	Academic Concentration (d)	3-4
	Other World Civilizations (f)	3
	Western Civilization (g)	3
	TOTAL	16-17
<b>FOURTH SEMESTER</b>		
ECH 214	Observation and Assessment in Developmentally Appropriate Early Childhood/Childhood Classrooms	3
	Science (a)	4
WFE 101	Lifetime Wellness and Fitness	3
	Free Elective (h)	3-4
	Academic Concentration (d)	3-4
ECH 207	Observation and Assessment in Developmentally Appropriate Classrooms Fieldwork (i)	1
	TOTAL	17-19
	TOTAL CREDIT HOURS	68

**Note:** Students enrolled in ECH 102, ECH 121 and ECH 207 are required to submit a completed physical examination form to the Health Office.

a. Students planning an academic major in science at New Paltz should start their sequence in biology or earth science. Other students may take applicable four credit (laboratory science) courses in astronomy, biology, chemistry, geology, physical sciences or physics. See General Education, Appendix B, page 97.

b. Foreign language instructors should be consulted for assistance in selecting the appropriate course for individuals with previous foreign language study.

c. Students may elect to take MAT 117, to complete the two course mathematics requirement for this program. Students planning concentrations in mathematics must meet math prerequisites and should consult an advisor on course selection.

d. The baccalaureate degree in early childhood education requires a minimum of 30 credit hours in an academic major. Students should plan their individual programs in order to have a minimum of 6 – 9 credits toward the major at New Paltz (**English, French, Spanish, history, mathematics, biology, or earth science**) when they complete the associate degree. It is essential that students consult their advisor when selecting elective courses for the academic major.

e. Students planning an academic major in history at New Paltz should choose GOV 121 or HIS 104.

f. Other World Civilization Courses: ART 103; BHS 204, 208, 210, 214; DAN 108, ENG 213, 264, 267; GEO 102, GOV 219, 220, 223; HIS 107, 108, 206, 207, 209; PHI 203.

g. Western Civilization courses: ART 102, HIS 101, 102; MUS 201, 202; PHI 201, ENG 212.

h. Most students will need to select as their free elective a course which will count toward their academic major at New Paltz. See page 98 for a full discussion of the free elective requirement.

i. Transportation to and from fieldwork sites is the responsibility of the student.



## Early Childhood Education Birth through Grade 2 with SUNY New Paltz (EDE) (HEGIS 5649)

In addition to the completion of the general education courses required by SUNY New Paltz at DCC, the following is a listing of courses taken in the ECE program and equivalent courses at SUNY New Paltz.

Dutchess Course	Equivalent New Paltz Course
ECH 120 Infant and Toddler Curriculum	35411 Curriculum I: Infants and Toddler
ECH 121 Infant and Toddler Curriculum Fieldwork*	
ECH 214 Observation and Assessment in Early Childhood	35414 Developmentally Appropriate Practice for Children Birth through Second Grade
ECH 207 Observation and Assessment in Early Childhood Fieldwork*	
ECH 254 Foundations and Issues in Early Childhood Education	35370 Introduction to the Education of Diverse Populations in Early Childhood and Elementary School Settings
ECH 102 Introductory Seminar: Programs for Young Children	
MAT 107 Math for Elementary Teachers	64140 Mathematics for Elementary School Teachers
PSY 221 Child & Adolescence Psychology	38371 Child Psychology & Development

\* DCC Fieldwork courses allow students to complete required work with children of a variety of ages, as required by SUNY New Paltz.

Course No.	Descriptive Title	Cr. Hrs
<u>FIFTH SEMESTER/NEW PALTZ</u>		
38340	Social and Philosophical Foundations of Education	3
64240	Mathematics for Elementary School Teachers II	3
	Liberal Arts Major/Concentration	3
	Liberal Arts Major/Concentration	3-4
	Liberal Arts Major/Concentration	<u>3-5</u>
	TOTAL	15-18
<u>SIXTH SEMESTER/NEW PALTZ</u>		
48273	Basic Physical Geography	3
	Liberal Arts Major/Concentration	3
	Liberal Arts Major/Concentration	3
	Liberal Arts Major/Concentration	3-4
	Liberal Arts Major/Concentration	<u>3-4</u>
	TOTAL	15-17
<u>SEVENTH SEMESTER/NEW PALTZ</u>		
39350	Creating Inclusive Elementary School Classrooms	3
35375	Teaching Reading in the Elementary School	3
35415	Development of Symbolic Representation, Language and Literacy	3
35412	Curriculum II: Preschool and Kindergarten	3
35413	Curriculum III: First and Second Grades	<u>3</u>
	TOTAL	15
<u>EIGHTH SEMESTER/NEW PALTZ</u>		
35493	Student Teaching (Birth through Kindergarten)	6
35404	Student Teaching (1 <sup>st</sup> through 3 <sup>rd</sup> grade)	<u>6</u>
	TOTAL	12

**LIBERAL ARTS AND SCIENCES  
ADVISEMENT TRACK FOR TRANSFER TO MOUNT SAINT MARY COLLEGE:  
OPTIONS IN CHILDHOOD EDUCATION, ADOLESCENCE EDUCATION AND  
TEACHING STUDENTS WITH DISABILITIES**

This advisement track is designed for students who plan to transfer and pursue a baccalaureate degree in preparation to become certified teachers in one of the following areas: Childhood Education, grades 1-6, Childhood Education and Teaching Students with Disabilities, grades 1-6, Adolescence Education, grades 7-12, Adolescence Education and Teaching Students with Disabilities, grades 7-12. The program provides for the first two years of study to be completed at Dutchess Community College and the following two years at Mount Saint Mary College.

Students preparing for transfer to Mount Saint Mary College must do the following while at Dutchess Community College: choose an academic concentration, earn a minimum grade of C in all teacher certification courses, pass three proficiency tests required by the Division of Education at MSM College and complete at least 30 of the 150 hours of supervised fieldwork required by the State Education Department.

Students pursuing a career in teaching must pass three New York State Teaching Certification Tests. While two of the three tests will be administered after transfer to Mount Saint Mary College, students are encouraged to take the Liberal Arts and Sciences Test (LAST) just prior to or immediately after completing an Associate degree at Dutchess Community College.

The Associate in Science (A.S.) degree is awarded upon completion of the requirements of this program.

<u>Course No.</u>	<u>Descriptive Title</u>	<u>Cr. Hrs.</u>
<b>FIRST SEMESTER</b>		
ENG 101	Composition I	3
PSY 111	Psychological Principles I	3
	Foreign Language (a)	3
	Science (b)	4
	Math (c)	3-4
LAT 100	Introductory Seminar for Teaching	1
	<b>TOTAL</b>	<b>17-18</b>
<b>SECOND SEMESTER</b>		
ENG 102	Composition II	3
	Academic Major (d)	3-4
	HIS 104, HIS 108, GOV 121	3
	Science (b)	4
	PSY 221, PSY 203 OR PSY 204 (e)	3
	<b>TOTAL</b>	<b>16-17</b>
<b>THIRD SEMESTER</b>		
	PHI 107 OR PHI 201	3
	PSY 235 Psychology of Exceptionality	3
	Academic Major (d)	6-8
	Humanities (f)	3
	<b>TOTAL</b>	<b>15-17</b>
<b>FOURTH SEMESTER</b>		
BHS 103	Social Problems in Today's World	3
PHI 203	Major Religions of the World	3
WFE 101	Lifetime Wellness & Fitness	3
	Academic Major (d)	3-4
	LAT 200 Learner Diversity	
	or LAT 201 Educational Settings: Adolescent Learning Environments	1-3
	Elective (g)	1-3
	<b>TOTAL</b>	<b>16-19</b>
	<b>TOTAL CREDIT HOURS</b>	<b>64</b>

- a. All students are required to complete one semester of foreign language study prior to transfer. Individuals with previous foreign language study who wish to continue with that language should consult the foreign language instructor for assistance in selecting the appropriate course.
- b. Students should select a course from Appendix B, Natural Science.
- c. MAT 107 recommended only for students who choose options in Childhood Education. MAT 184 or higher recommended for students choosing options in Adolescent Education and concentrations in Mathematics and Science. MAT 109 or higher recommended for students choosing options in Adolescent Education and concentrations other than Mathematics and Science.
- d. The baccalaureate degree in Childhood Education/Teaching Students with Disabilities, grades 1-6 requires a minimum of 30 credit hours in an academic major. Students should plan to complete between 12 and 16 credits toward the major at Mount Saint Mary College (Biology, English, Hispanic Studies, History/Political Science, Mathematics, Social Science with a concentration in History or History/Political Science).
- e. PSY 221 or PSY 203 is required for students who choose options in Childhood Education. PSY 204 is required for students who choose options in Adolescent Education.
- f. THE 120 Performing Skills for the Classroom is recommended or students should select a course in Art, Music, Theater or Dance from Appendix H, The Arts.
- g. A demonstration of minimum computer literacy is a requirement at MSM College. This requirement can be met if a student takes CIS 111 at DCC or passes a proficiency test administered at MSM. It is recommended that students who choose not to take CIS 111 select a course that will apply to their academic major.

**LIBERAL ARTS AND SCIENCES - EDUCATION  
TEACHER ASSISTANT CERTIFICATE PROGRAM (TEA)  
(HEGIS 5503)**

The purpose of this program is to provide an option for in-service paraeducators (teacher assistants, teacher aides, monitors) and other individuals who plan to seek employment in various public school settings to earn appropriate college-level credits to meet the certification requirements to work in the above job titles.

All courses in the Certificate program are applicable to the Associate in Science (A.S.) degree programs in either EDE, EDC, or to the various Adolescent Education options.

A Certificate is awarded upon completion of the requirements for this program.

Course No.	Descriptive Title	Cr.Hrs.
<b>SEMESTER 1</b>		
ENG 101	Composition	3
BHS 103	Social Problems in Today's World	3
PSY 111	Psychological Principles	3
THE 120	Performing Skills for the Classroom	3
	TOTAL	12
<b>SEMESTER 2</b>		
ECH 101 (a) or BHS 207 (c)	Introduction to Early Childhood Education Education in American Society	3
ECH 212 (a) or ENG 102 (b)	Language and Literature in Early Childhood Composition II	3
PSY 221 (d) or PSY 204 (e)	Child and Adolescent Development Adolescent Psychology	3
ELECTIVE		3-4
	TOTAL	12-13
	TOTAL CREDIT HOURS	24

**Notes:**

- a. Courses with ECH prefixes will meet some of the requirements for students pursuing degrees/certificates to work with learners from Birth-Grade 2.
- b. ENG 102 will meet requirements for students pursuing degrees/certificates to work with learners at any of the certification levels, Early Childhood, Birth-Grade 2, Childhood, Grades 1-6 and Adolescent Education, Grades 7-12.
- c. BHS 207 will meet requirements for students pursuing degrees/certificates to work with learners at the certification levels Childhood Education, Grades 1-6 and Adolescent Education, Grades 7-12. Students focusing on learners from Birth-Grade 2 should enroll in ECH 101, Introduction to Early Childhood Education.
- d. PSY 221 will meet the Human Development requirement for Individuals seeking degrees/certificates to work with learners both at the certification levels Early Childhood, Birth-Grade 2, and Childhood Education, Grades 1-6.
- e. PSY 204 is the only course that will meet the requirement for individuals seeking to work with Adolescents in Grades 7-12.



**MEDICAL AND ALLIED HEALTH TECHNOLOGIES  
MEDICAL LABORATORY TECHNOLOGY (MLT)  
(HEGIS 5205)**

This program prepares students for a career in the field of Medical Laboratory Technology. The medical laboratory technician performs laboratory procedures designed to assist physicians in the diagnosis and treatment of disease. These procedures include physical, chemical, or microscopic analyses of body fluids and tissues. Proficiency in these skills is achieved through practice in College laboratories and affiliated clinical laboratories in the community.

Training includes both manual and automated experiences. High school courses in biology, chemistry and mathematics are strongly recommended for those planning to enter this program. Students satisfactorily completing this program may choose to transfer to earn a baccalaureate degree in medical technology or biological sciences. This program is accredited by the National Accrediting Agency for Clinical Laboratory Sciences. (NAACLS, 5600 N. River Rd., Suite 720, Rosemont, IL 60018)

The number of students in the program is limited on the basis of clinical facilities available. Upon completion of this program, the graduate is eligible to take the New York State examination for certification as a Clinical Laboratory Technician and national board examinations. Graduation from the Medical Laboratory Technology program does not guarantee admittance to the state certifying examination. Individuals who have prior convictions, felony or misdemeanor, exclusive of parking violation, are advised to contact the New York State Board of Clinical Laboratory Technology for advice on legal limitations for certification.

The Associate in Applied Science (A.A.S.) degree is awarded upon completion of the requirements for this program.

Students who successfully complete the A.A.S. degree in Medical Laboratory Technology will be prepared to:

- obtain New York State certification as a clinical laboratory technician and secure employment;
- collect, process and analyze biological specimens and other substances;
- perform analytical tests of body fluids, cells, and other substances;
- recognize factors that affect procedures and results, and take appropriate actions within predetermined limits when corrections are indicated;
- monitor quality control within predetermined limits;
- perform preventive and corrective maintenance of equipment and instruments or refer to appropriate sources for repairs;
- apply principles of safety;
- demonstrate professional conduct and interpersonal communication skills with patients, laboratory personnel, other health care professionals, and the public;
- recognize the responsibilities of other laboratory and health care personnel and interact with them with respect for their jobs and patient care;
- apply basic scientific principles in learning new techniques and procedures;
- relate laboratory findings to common disease processes;
- recognize and act upon individual needs for continuing education as a function of growth and maintenance of professional competence.

Courses should be selected in consultation with an advisor.

**Students who experience a break of more than three semesters between their first MLT course and MLT 207/208 may need to repeat one or more MLT courses or take qualifying examinations. Contact the program chairperson.**

<u>Course No.</u>	<u>Descriptive Title</u>	<u>Cr.Hrs.</u>
<u>FIRST SEMESTER</u>		
AHS 100	Allied Health Introductory Seminar	1
BIO 105	General Biology I	4
CHE 121	General Chemistry I	4
MAT 118	Elementary Statistics	3
MLT 105	Clinical Hematology	4
	TOTAL	16
<u>SECOND SEMESTER</u>		
BIO 106	General Biology II (a)	4
ENG 101	Composition I	3
CHE 122	General Chemistry II (a)	4
CIS 111	Computer Systems and Applications	3
MLT 101	Clinical Microbiology (a)	4
	TOTAL	18
<u>THIRD SEMESTER</u>		
BHS 103	Social Problems in Today's World	3
ENG 102	Composition II (b)	3
MLT 106	Immunohematology/Serology (a)	3
MLT 202	Parasitology/Body Fluids (a)	3
MLT 203	Clinical Chemistry I (a)	4
WFE 101	Lifetime Fitness and Wellness (b)	3
	TOTAL	19
<u>FOURTH SEMESTER</u>		
MLT 204	Clinical Chemistry II (a)	3
ECO 105, GOV 121, HIS 104, HIS 108		3
MLT 207	Externship I (a) (d)	4
MLT 208	Externship II (a) (d)	4
Free Elective (c)		3-4
	TOTAL	17-18
	TOTAL CREDIT HOURS	70

**NOTE:** All MLT students are required to submit a completed physical examination form prior to clinical assignment. All immunizations indicated on the form must be current. When this form is on file, the College Health Office will issue a waiver clearing the student for clinical assignments. Hepatitis B Vaccine series is highly recommended and may be required by the clinical facility under the OSHA Standard on Exposure to Blood borne Pathogens.

- a. A grade of C or better in a previous course is required. See course description for details.
- b. A 2-credit proficiency for the lecture portion of this course is available for students in the Medical Laboratory Technology program. All students will be required to take the 1-credit laboratory component of the course.
- c. See page 96 for a full discussion of the free elective requirement. The subject area for Medical Laboratory Technology includes all courses labeled MLT, BIO, CHE.
- d. Criminal background checks and drug screens are required for clinical placement.

**MEDICAL AND ALLIED HEALTH TECHNOLOGIES  
EMERGENCY MEDICAL TECHNICIAN - PARAMEDIC (PAR)  
(HEGIS 5299)**

This program fulfills the requirements set by state and national agencies for credentialing of the Emergency Medical Technician-Paramedic. Students will become proficient in the art and science of out-of-hospital medicine in conjunction with medical direction. The program stresses mastery in advanced life support skills which will be accomplished in College laboratories, affiliated hospitals and advanced life support ambulances. Competency in theory, knowledge and molding the students' professional attitude consistent with the expectations of the public and the profession also is stressed.

This program is accredited by the Committee on Accreditation of Educational Programs for the Emergency Medical Services Professions. (CoAEMSP, 1248 Harwood Road, Bedford, Texas 76021)

High school courses in biology, human anatomy and mathematics are strongly recommended for those planning to enter this program. New York State Emergency Medical Technician (or reciprocity) is a prerequisite.

The number of students in the program is limited on the basis of clinical facilities available. Upon completion of this program graduates are eligible to take the New York State and National Registry certifying Paramedic exams.

Courses should be selected in consultation with the EMS Program Coordinator.

An Associate in Applied Science (A.A.S.) degree is awarded upon completion of the requirements for this program.

Students who successfully complete the A.A.S degree in Emergency Medical Technician – Paramedic will be able to:

- obtain New York State certification and secure employment;
- perform advanced assessment of the sick and injured patients in a pre-hospital setting;
- utilize personal protective and safety equipment and be aware of exposure control response plan;
- assess, triage and treat multiple patients simultaneously;
- develop and implement appropriate treatment plans;
- analyze and properly interpret diagnostic test results;
- apply extrication principles to ensure the safe removal of patients from hazardous or life threatening environments;
- document all aspects of patient care from dispatch to transfer of patient;
- interface professionally with a wide variety of allied health professionals;
- utilize, troubleshoot and maintain advanced medical diagnostic equipment;
- properly provide leadership and coordination among varying emergency services responders;
- dispose of infectious waste;
- integrate the concepts of emergency vehicle operations with priority dispatch;
- recognize the need for personal well being as a priority in providing patient care;
- integrate the principles of therapeutic communications to communicate with diverse populations;
- interact through radio and telephone communication with 911 centers;
- identify key performance indicators for quality assurance and quality improvement and incorporate into EMS system performance;
- interpret maps and directions under extreme conditions and pressure;
- provide initial stabilization and response coordination of large scale disasters;
- recognize the need for continuing education as a means to maintain competency and certification

<u>Course No.</u>	<u>Descriptive Title</u>	<u>Cr. Hrs.</u>
<u>FIRST SEMESTER</u>		
ENG101	Composition I	3
EMB105	Emergency Medical Technician - Basic	6
PAR100	Intro to EMT-Paramedic	1
BIO115	Anatomy & Physiology for PAR	5
MAT100	Intermediate Algebra	3
	TOTAL	18
<u>SECOND SEMESTER</u>		
PAR101	Advanced Airway Management	1
PAR102	Pathophysiology & Life Span Dev	3
PAR106	Pharmacology and IV Therapy	3
PAR120	Clinical I	2
PAR107	EMS Operations	2
BHS103	Social Problems in Today's World	3
WFE101	Wellness & Fitness Education	3
	TOTAL	17
<u>THIRD SEMESTER</u>		
ENG102	Composition II	3
PAR201	Trauma	3
PAR203	Cardiology & Respiratory	4
PAR205	Medical Emergencies I	4
PAR220	Clinical II	2
	TOTAL	16
<u>FOURTH SEMESTER</u>		
ECO105, GOV121, HIS104, HIS108		3
PAR206	Patient Assessment	3
PAR209	Medical Emergencies II	3
PAR230	Clinical III	2
PAR240	Summative Evaluation	4
Free Elective (a)		3-4
	TOTAL	18-19
	TOTAL CREDIT HOURS	69

NOTE: All PAR students are required to submit a completed physical exam form prior to clinical assignments. All immunizations indicated on the form must be current. When this form is on file, the College Health Office will issue a waiver clearing the student for clinical assignments. Hepatitis B Vaccine series is highly recommended and its completion or a signed waiver is required by the clinical facilities under the **OSHA Standard on Exposure to Blood Borne Pathogens**.

a. Free elective: See page 96 for a full discussion.

**MEDICAL AND ALLIED HEALTH TECHNOLOGIES  
PHLEBOTOMIST (PDC)  
(HEGIS 5205)  
(Applied Academic Certificate)**

This program prepares students for a career as a Phlebotomist/Data Clerk. Phlebotomist/data clerks primarily work in a outpatient blood drawing centers, clinical laboratories, physician offices or blood donor collection agencies. Their primary responsibilities are to draw blood specimens for the purpose of analysis and to enter and retrieve data from the computer. Phlebotomists also prepare and maintain equipment for obtaining blood specimens, insure proper care for specimens and enter test procedures into the computer for specimen analysis. An internship provides students with supervised workplace experience.

Manual dexterity is essential in this program.

Graduates of this program are eligible for national board examinations. Graduates may also receive advanced standing in the Medical Laboratory Technology A.A.S. degree program.

A Certificate is awarded upon completion of the requirements for this program.



<u>Course No.</u>	<u>Descriptive Title</u>	<u>Cr.Hrs.</u>
<b>FIRST SEMESTER</b>		
ENG 101	Composition I	3
AHS 100	Allied Health Introductory Seminar	1
PDC 101	Basic Concepts of Phlebotomy	4
BIO 103	Human Biology	4
MSO 102	Medical Terminology	<u>2</u>
	<b>TOTAL</b>	<b>14</b>
<b>SECOND SEMESTER</b>		
PDC 102	Phlebotomy Internship (a) (b)	4
HED 134	First Aid, Safety and CPR	3
CIS 111	Computer Systems and Applications	3
BIO 112	A Biomedical View of HIV/AIDS	<u>3</u>
	<b>TOTAL</b>	<b>13</b>
	<b>TOTAL CREDIT HOURS</b>	<b>27</b>

**NOTE:** All PDC students are required to submit a completed physical examination form prior to clinical assignment. All immunizations indicated on the form must be current. When this form is on file, the College Health Office will issue a waiver clearing the student for clinical assignment. Hepatitis B Vaccine series is highly recommended and may be required by the clinical facility under the OSHA Standard on Exposure to Blood Borne Pathogens.

- a. A grade of C or better in a previous course is required. See course description for details.
- b. Criminal background checks and drug screens are required for clinical placement.

## NURSING (NUR) (HEGIS 5208.10)

Accredited by the National League for Nursing Accrediting Commission (NLNAC), this rigorous program is designed for students interested in preparing for professional practice as a Registered Nurse (RN). Classroom lectures, college laboratories, and clinical experience in local health care agencies provide the foundation of knowledge.

Due to an overwhelming interest in Nursing, entrance into the DCC program is highly competitive and open to residents of Dutchess and Putnam counties only.

Nursing is offered as a day or evening program. Interested students should review the handbook, "The guide for pre-nursing students," available on the department webpage <http://www.sunydutchess.edu/academics/departments/Nursing/> for additional information regarding costs and requirements for admission and progression into the day or evening program. Often, students require six or more semesters to complete the entire program. Typically, once the student enters the clinical nursing courses, the course of study for completion is four semesters.

Upon completion of the program, the student is eligible to sit for the National Council Licensure Examination for RNs (NCLEX-RN). Graduation from the program does not guarantee admission to licensing. Individuals who have prior convictions are advised to contact the New York State Board for Nursing for advice on legal limitations. After graduation, many students transfer to upper division baccalaureate nursing programs through articulation agreements. Personal background checks are required at some of the health care agencies utilized for clinical placement.

The Associate in Applied Science (A.A.S.) degree is awarded upon completion of this program.

Upon the completion of this program the graduate will:

- Be a competent professional.
- Practice within the scope of the New York State Nurse Practice Act and the ANA Code of Ethics.
- Practice according to the National League for Nursing Core Components and Competencies.



Course No.	Descriptive Title	Cr.Hrs.
<b>FIRST SEMESTER</b>		
ENG 101	Composition I	3
PSY 111	Psychological Principles I	3
BIO 131	Anatomy & Physiology I	4
NUR 100	Nursing Introductory Seminar	1
NUR 105	Nursing Science I (a)	6
NUR 107	Survey of Professional Nursing (a)	1
	<b>TOTAL</b>	<b>18</b>
<b>SECOND SEMESTER</b>		
ENG 102	Composition II	3
PSY 203	Developmental Psychology	3
BIO 132	Anatomy & Physiology II	4
NUR 112	Nursing Science II	8
	<b>TOTAL</b>	<b>18</b>
<b>THIRD SEMESTER</b>		
BHS 103	Social Problems in Today's World	3
BIO 212	Microbiology	4
NUR 213	Nursing Science III (b)	8
NUR 215	Parent-Child Nursing	3
	<b>TOTAL</b>	<b>18</b>
<b>FOURTH SEMESTER</b>		
ECO 105, GOV 121, HIS 104, HIS 108		3
NUR 204	Professional Issues in Nursing (a) (d)	1
NUR 216	Nursing Science IV (a) (d)	4
NUR 218	Nursing Synthesis (a) (d)	2
Free Elective (b)		3-4
WFE 101	Lifetime Fitness and Wellness (c)	3
	<b>TOTAL</b>	<b>16-17</b>
	<b>TOTAL CREDIT HOURS</b>	<b>70</b>

### NOTES:

1. Students are admitted to the Nursing program on a space-available basis. Once admitted, students are expected to enroll in the nursing courses in sequence. Students who deviate from the sequence cannot be guaranteed re-entry into either a particular course or a particular semester.
2. Entry into Clinical Nursing courses requires that a student is CPR certified.
3. All NUR students are required to submit a completed physical examination form prior to clinical courses. All immunizations indicated on the form must be current. When this form is on file, the College Health Office will issue a waiver clearing the student for clinical courses. Hepatitis B Vaccine series is highly recommended and may be required by the clinical facility under the OSHA Standard on Exposure to Blood borne Pathogens.
4. The four-semester sequence is possible only if the student has matriculated prior to March 15, and tests into ENG 101, and BIO 131. For further information about the four-semester sequence, the student may request the guide for pre-nursing students from the registrar's office.
  - a. These courses may not be repeated. An appeal process is outlined in the Nursing Program Handbook.

Notes continue on next page.

Continued from previous page

b. See page 97 for a full discussion of the free elective requirement. The subject area for nursing includes all courses labeled NUR. Nursing students may not use BIO 117, HED 132, 134, 224, MSO 102 for free elective credit.

c. Students who wish to take the proficiency test must follow the "Procedures for Student Enrollment in WFE 103, copies of which are available in the Registrar's Office.

d. These courses must be taken in the semester immediately preceding graduation.

**COURSE SEQUENCE FOR PART-TIME EVENING STUDENTS IN NURSING**

Course	Credits
<b>Semester 1 - Fall</b>	
NUR 100	1
ENG 101 (ENG 092)	3
PSY 111	3
	<u>7</u>
<b>Semester 2 - Spring</b>	
ENG 102 (ENG 101)	3
BHS 103	3
BIO 130	4
	<u>7-10</u>
<b>Semester 3 - Fall</b>	
BIO 131	4
HIS option	3
(ENG 102)	3
	<u>7-10</u>
<b>Semester 4 - Spring</b>	
BIO 132	4
PSY 203	3
WFE 101	3
	<u>10</u>
<b>Semester 5 - Fall</b>	
BIO 212	4
Free Elective	3-4
	<u>7-8</u>
<b>Semester 6 - Spring</b>	
NUR 105	6
NUR 107	1
	<u>7</u>
<b>Semester 7 - Fall</b>	
NUR 112	8
<b>Semester 8 - Spring</b>	
NUR 213	8
<b>Summer</b>	
NUR 215	3
<b>Semester 9 - Fall</b>	
NUR 216	4
NUR 218	2
NUR 204	1
	<u>7</u>

**PERFORMING ARTS  
MUSIC PERFORMANCE (MPC)  
(HEGIS 5610)  
(Applied Academic Certificate)**

This intensive musical performance preparation program is designed for the student who wishes further musical study before auditioning for entrance as an applied music major at a four-year college or music conservatory. In addition to musical performance preparation, the program provides foundations in music theory and history and freshman-level English language skills.

This program is not designed as a substitute for the freshman year at a four-year college or conservatory, but some of the credits may be accepted for transfer credit by some colleges. Students should contact the college they plan to enter for its transfer policy.

A Certificate is awarded upon completion of the requirements for this program.

Courses should be selected in consultation with an advisor.

Course No.	Descriptive Title	Cr.Hrs.
<b>FIRST SEMESTER</b>		
ENG 101	Composition I	3
MUS 113	Aural Skills I	1
MUS 115	Theory I	3
MUS 201	History of Music I	3
MUS 210	Advanced Music Performance I	3
*Choice of at least one, but not more than two:		
MUS 121	Chorus I	
MUS 131	Jazz Ensemble I	
MUS 136	Orchestra I	
MUS 143	Guitar Consort I	
MUS 151	Chamber Choir I	1-2
	<b>TOTAL</b>	<u>14-15</u>
<b>SECOND SEMESTER</b>		
ENG 102	Composition II	3
MUS 114	Aural Skills II	1
MUS 116	Theory II	3
MUS 202	History of Music II	3
MUS 211	Advanced Performance II	3
*Choice of at least one, but not more than two:		
MUS 122	Chorus II	
MUS 132	Jazz Ensemble II	
MUS 137	Orchestra II	
MUS 144	Guitar Consort II	
MUS 152	Chamber Choir II	1-2
	<b>TOTAL</b>	<u>14-15</u>
	<b>TOTAL CREDIT HOURS</b>	<u>28</u>

\*MPC students who play standard orchestral instruments must choose MUS 136 Orchestra I and MUS 137 Orchestra II as their required ensemble. MPC students who play saxophone, drum set or electric bass must choose MUS 131 Jazz Ensemble I and MUS 132 Jazz Ensemble II as their required ensemble. MPC students who play guitar must choose MUS 143 Guitar Consort I and MUS 144 Guitar Consort II as their required ensemble. All MPC voice majors must choose MUS 121 Chorus I and MUS 122 Chorus II as their required ensemble.

**PERFORMING ARTS (PFA)  
(HEGIS 5610)  
MUSIC ADVISEMENT TRACK**

(for students interested exclusively in music)

This program lets students develop their individual skills in several performing arts course areas, especially Dance, Music, and Theater. It allows for coherent combinations of these courses to be taken to meet special interests such as training in musical theater. Upon completion of the degree students may wish to seek professional employment in New York City or participation in local performing arts organizations or transfer to a college offering more advanced study. This is a good foundation not only for the student planning on transferring in the performing arts but also for those who may ultimately pursue a B.A. or B.S. degree in another field and wish to be active in community performances.

The Associate of Science (A.S.) degree is awarded upon completion of the requirements for this program.

Courses should be selected in consultation with an advisor.

Students following this outline will also have completed the requirements to be awarded the Music Performance Certificate.

\*During the first week of classes, students who do not pass the placement exam for Theory I and Aural Skills I will be recommended to follow a modified program including MUS 104.

NOTE: Students in the Performing Arts program who are interested exclusively in theater or dance should take performance courses in those areas. Students in the Performing Arts program who are interested exclusively in musical theater should take performance courses in music, dance, and theater.



Course No.	Descriptive Title	Cr. Hrs.
<b>FIRST SEMESTER</b>		
PFA 100	Performing Arts Introductory Seminar	1
ENG 101	Composition I	3
THE 105	Introduction to the Theater	3
DAN 101	Foundations of Dance	3
MUS 161	Performance and Applied Music I	1
*MUS 115	Theory I	3
*MUS 113	Aural Skills I	1
Choice of one of the following:		1
MUS 121 Chorus I, MUS 131 Jazz Ensemble I, MUS 136 Orchestra I, MUS 143 Guitar Consort I or MUS 151 Chamber Choir I		
TOTAL		16
<b>SECOND SEMESTER</b>		
ENG 102	Composition II	3
WFE 101	Lifetime Wellness and Fitness	3
BHS 103	Social Problems in Today's World	3
MUS 162	Performance and Applied Music II	1
MUS 116	Theory II	3
MUS 114	Aural Skills II	1
Any 1-credit 200-level music performance course		1
Choice of one of the following:		1
MUS 122 Chorus II, MUS 132 Jazz Ensemble II, MUS 137 Orchestra II, MUS 144, Guitar Consort II or MUS 152 Chamber Choir II		
TOTAL		16
<b>THIRD SEMESTER</b>		
MAT 109 or higher (d)		3
ART 101 or ART 104		3
HIS 104, HIS 108, GOV 121		3
MUS 141	Piano I	1
MUS 210	Advanced Music Performance I	3
MUS 201	History of Music I	3
Choice of one of the following:		1
MUS 221 Chorus III, MUS 231 Jazz Ensemble III, MUS 236 Orchestra III, MUS 243 Guitar Consort III, or MUS 251 Chamber Choir III		
TOTAL		17
<b>FOURTH SEMESTER</b>		
Science (a)		4
MUS 211	Advanced Music Performance II	3
Free elective (c)		3
MUS 142	Piano II	1
MUS 202	History of Music II	3
Choice of one of the following:		1
MUS 222 Chorus IV, MUS 232 Jazz Ensemble IV, MUS 237 Orchestra IV, MUS 244 Guitar Consort IV, or MUS 252 Chamber Choir IV		
TOTAL		15
<b>TOTAL CREDIT HOURS</b>		<b>64</b>

**PERFORMING ARTS (PFA)  
(HEGIS 5610)**

This program lets students develop their individual skills in several performing arts course areas, especially Dance, Music, and Theater. It allows for coherent combinations of these courses to be taken to meet special interests such as training in musical theatre. Upon completion of the degree students may wish to seek professional employment in New York City or participation in local performing arts organizations or transfer to a college offering more advanced study. This is a good foundation not only for the student planning on transferring in the performing arts but also for those who may ultimately pursue a B.A. or B.S. degree in another field and wish to be active in community performances.

The Associate of Science (A.S.) degree is awarded upon completion of the requirements for this program.

Upon completion of this program, students will:

- 1) Identify personal goals, and construct a workable individual plan for transfer and success to a four-year university or conservatory.
- 2) Some students may identify personal goals and construct a workable individual plan to embark on a professional career in the performing arts, and/or to become involved in local music, dance, and theatrical productions.
- 3) Identify and illustrate relevant professional performing arts contributions in terms of achievement and social significance in the past and present.
- 4) Display basic proficiency in one or more areas of the performing arts in class theater scenes, music juries, and dance recitals.
- 5) Create an appropriate and versatile repertoire of audition pieces in the student's performance area.
- 6) Take part in a fully integrated live theatrical, music, or dance performance in a public venue at the college, community and/or in NYC.

Courses should be selected in consultation with an advisor.



Course No.	Descriptive Title	Cr.Hrs.
<b>FIRST SEMESTER</b>		
PFA 100	Performing Arts Introductory Seminar	1
ENG 101	Composition I	3
HIS 104, HIS 108, GOV 121		3
MUS 101, MUS 201, or MUS 212		3
THE 105	Introduction to the Theatre	3
DAN 101	Foundations of Dance	3
	<b>TOTAL</b>	<b>16</b>
<b>SECOND SEMESTER</b>		
ENG 102	Composition II	3
WFE 101	Lifetime Wellness and Fitness	3
BHS 103	Social Problems in Today's World	3
	Performance courses (b)	7-8
	<b>TOTAL</b>	<b>16-17</b>
<b>THIRD SEMESTER</b>		
MAT 109 or higher (d)		3
ART 101 or ART 104		3
THE 161 or MUS 210 or MUS 211		3
	Performance courses (b)	7-8
	<b>TOTAL</b>	<b>16-17</b>
<b>FOURTH SEMESTER</b>		
Science (a)		4
	Performance courses (b)	9-10
	Free Elective (c)	3
	<b>TOTAL</b>	<b>16-17</b>
	<b>TOTAL CREDIT HOURS</b>	<b>64</b>

a. **Science courses:** Applicable four-credit courses in astronomy, biology, chemistry, geology, physical sciences, physics. See the General Education Appendix B, page 97.

b. **Performance courses:** Students must take at least 23 credit hours of performance courses, of which at least 9 credit hours need to be second tier courses. Students who take private lessons, or participate in performing ensembles may accrue some performance course credits by taking music lessons, participating in a music ensemble, or taking 1-credit dance courses 3-4 semesters in a row. Students must follow all prerequisites and are thus encouraged to plan their sequence early with the aid of an advisor.

**FIRST TIER PERFORMANCE COURSES**

DAN 102, DAN 106, DAN 107, DAN 109, DAN 146/147, MUS 100, MUS 101, MUS 104, MUS 113, MUS 114, MUS 115, MUS 116, MUS 121, MUS 122, MUS 131, MUS 132, MUS 135, MUS 136, MUS 137, MUS 141, MUS 142, MUS 143, MUS 144, MUS 151, MUS 152, MUS 161, MUS 162, SPE 102, SPE 111, SPE 116, THE 103, THE 106, THE 109, THE 110, THE 161

**SECOND TIER PERFORMANCE COURSES**

DAN 104, DAN 108, DAN 246/247, MUS 201, MUS 202, MUS 205, MUS 206, MUS 210, MUS 211, MUS 212, MUS 219, MUS 221, MUS 222, MUS 231, MUS 232, MUS 236, MUS 237, MUS 241, MUS 242, MUS 243, MUS 244, MUS 251, MUS 252, MUS 261, MUS 262, SPE 212, THE 201, THE 209, THE 220, THE 261

c. See page 96 for full description of the free elective. Students interested in theater are strongly advised to take ENG 207 or ENG 208 as their free elective.

d. Students planning to meet the SUNY General Education requirements for transfer to SUNY institutions should complete MAT 109 or higher. Students must meet math course prerequisites.

## COURSES APPLICABLE IN ALL PROGRAMS

The following table lists courses that are applicable in all programs with exceptions noted. Modifying data under individual programs takes precedence. This table is for reference purposes only. Students are strongly urged to consult their individual program requirements and their academic advisors. Please note that Introductory Seminars\* and Study Skills courses are excluded from the list below.

PREFIX	LIST OF APPLICABLE COURSES	PROGRAM EXCEPTIONS
ACC	ACC104, ACC204	ACC: ACC104 not applicable
ARC	ARC216	
ART	All courses except ART 140, 142, 145, 153, 154	CAR: ART104 not applicable
ASL	ASL101, ASL102	
AST	All courses	
BHS	All courses	
BIO	All courses except BIO 001, 003, 030	LAX: BIO103, BIO104, BIO115, BIO130, BIO131, BIO132, BIO212 not applicable NUR: BIO 117 not applicable
BUS	BUS102, BUS103, BUS104, BUS109, BUS110, BUS111, BUS112, BUS162, BUS215, BUS216, BUS254	CPS and LAM: BUS102, BUS103 not applicable
CHE	All courses	CPS, ENR, LAM, LAX: CHE111, CHE112 not applicable
CIS	CIS107, CIS108, CIS111, CIS112, CIS113	CPS or LAM: CIS107, CIS108, CIS111, CIS112, CIS113 not applicable
CLP	CLP101	
COM	COM101, COM110, COM220, COM240	
CPS	CPS141	
CRJ	CRJ141	
DAN	All courses	
ECO	All courses	BAT: ECO105 not applicable
ENG	All courses except ENG 001, 002, 091, 092, 095, 096	BAT, EDC, LAH, LAX: ENG211 not applicable
ENR	ENR101, ENR207	CPS, ENR, LAM: ENR101, ENR207 not applicable
ESW	All courses	
FRE	All courses	
GEO	All courses	
GER	All courses	
GLG	All courses	
GOV	All courses	
HED	All courses	NUR: HED134, HED 203, HED224 not applicable
HIS	All courses except HIS004	
HUM	All courses	
INT	INT801	
ITL	All courses	
MAT	All courses except MAT 091, 107, 125, 128, 129, 131, 132	<ul style="list-style-type: none"> <li>• ACC, BAT, BUS, CIS: MAT125 IS applicable</li> <li>• ARC, ELT: MAT100, MAT109 not applicable</li> <li>• CPS, ENR, LAM, LAX: MAT100, MAT109, MAT110, MAT 184 not applicable</li> <li>• EDC, EDE: MAT 107 IS applicable</li> <li>• ENR, LAM: MAT 185 not applicable</li> <li>• EDE, EDM, EDS, EDC, EDX, EDB: MAT100 not applicable</li> </ul>
MSO	All courses	NUR: MSO102 not applicable
MUS	All courses	
PED	All courses	
PHI	All courses	
PHS	All courses	ELT, ENR, LAM, LAX: PHS101 not applicable
PHY	All courses except PHY141	ENR: PHY121, PHY122 not applicable
PSY	All courses	
REA	REA100, REA103, REA105	
SPA	All courses	
SPE	All courses	
THE	All courses except THE120	

\*Introductory Seminars: Students may only apply one Introductory Seminar course toward graduation requirements. Introductory Seminar courses taken in one program may be applied to graduation requirements for another program except in the case of the NUR and ECH programs. The grade for an Introductory Seminar course applied across programs will be included in the student's CPA.



## FREE ELECTIVE

The free elective provides each student with the opportunity to select a course that might not otherwise be applicable to his or her degree. Its aim is to broaden the educational experience at Dutchess Community College or to meet a particular interest or need. To achieve the aim of the free elective, the course chosen should be outside the subject area of the student's degree program.

The free elective course should be chosen thoughtfully with the assistance of the faculty advisor (full-time students) or a Registrar's Office advisor (part-time students). A student may choose for the free elective a course that is either applicable or non-applicable to his or her program. A student may not choose a course that is a prerequisite for a required course in his or her program.

If the free elective course chosen is applicable to the student's program, the grade and credit earned for the course will automatically count in the semester in which the course was taken.

If the free elective course chosen is normally non-applicable to the student's program, the grade and credit earned will not count until the course is designated as the free elective course. Ordinarily, this is done at the time of the student's graduation application. The student may cause the grade and credit earned to count at a time earlier than graduation by filling out a Free Elective Designation Form in the Office of the Registrar.

Students receiving TAP or APTS must fill out a Free Elective Designation Form when they pre-register for a non-applicable course as a free elective to avoid jeopardizing their financial aid.

Ordinarily, a student may fill out the Free Elective Designation Form only once.

## RESERVED RIGHTS OF THE COLLEGE

*Dutchess Community College is not obligated to offer any courses described in this catalog for which enrollment is insufficient. A degree or certificate program with a history of limited enrollment may become inactive. The College also reserves the right to modify curriculum requirements, courses, tuition and fee schedules, and policies pertaining to its educational program without further notice.*

*A student who needs a course to complete graduation requirements which is not offered or which is fully enrolled should confer with the Registrar. Students are requested to contact the Registrar's Office for the most current information regarding course offerings, class schedules, or tuition and fees.*

