Academic Programs

Registered Programs

The programs offered are registered by the State Education Department and State University of New York. Enrollment in other than a registered program may jeopardize a student's eligibility for financial aid.*

^{*} New York State Education Department, Office of Higher Education and the Professions, Cultural Education Center, Room 5B28, Albany, New York 12230 (518) 474-5851



Registered Programs	Award	Hegis #	Page #
Accounting	AS	5002	58-59
Accounting	AAS	5002	60-61
Accounting Procedures	Cert.	5002	62-63
Architectural Technology	AAS	5317	64-65
Business Administration	AS	5004	66-67
Business Management	AAS	5004	68-69
Business Studies	Cert.	5001.0	70-71
Clerical Office Assistant	Cert.	5005	72-73
Computer Information Technology (CIT)–Networking	AAS	5101	74-76
Computer Science	AS	5101	76-77
Criminal Justice	AS	5505	78-79
Criminal Justice-Police	AAS	5505	80-81
Dental Hygiene	AAS	5203	82-83
Early Childhood Development & Care	AAS	5503	84-85
Early Childhood Development & Care	Cert.	5003	86-87
Electrical Engineering Technology–Telecommunications	AAS	5310	88-89
Engineering Science	AS	5609	90-91
Exercise Studies	AS	5299.30	92-93
Honors Program			94-95
Human Services	AS	5501	96-97
International Studies	AA	5622	98-99
Jointly Registered Teacher Education Program (JRTEP)			
(Liberal Arts and Science)	AA	5649	100-105
Jointly Registered Teacher Education Program (JRTEP)			
(Liberal Arts and Science)	AS	5649	106-109
Law Enforcement/Security	Cert.	5505	110-111
Liberal Arts: Humanities & Social Science	AA	5649	112-113
Liberal Arts: Individual Studies	AS	5699	114-115
Liberal Arts & Sciences/			
Mathematics & Natural Science	AS	5649	116-117
Marketing	AAS	5004	118-119
Medical Laboratory Technology	AAS	5205	120-121
Medical Office Assistant	AAS	5005	122-123
Nursing	AAS	5208.10	124-125
Occupational Therapy Assistant	AAS	5210	126-127
Office Technologies	AAS	5005	128-129
Performing Arts: Music	AAS	5610	130-131
Physical Therapist Assistant	AAS	5219	132-133
Radiologic Technology	AAS	5207	134-135
Teaching Assistant	Cert.	5101	136-137
Visual Communications Technology: Graphic Arts/Printing	AAS	0590	138-139
SUNY General Education Course Listing			140 - 141
Guide for Social Science Requirement			142

Associate Degrees

Orange County Community College operates under the supervision of the State University of New York and is authorized by the Board of Regents of the University of the State of New York to award three degrees—the Associate in Arts (A.A.), the Associate in Science (A.S.), and the Associate in Applied Science (A.A.S.).

The Associate in Arts and the Associate in Science degrees are designed for students who intend to transfer to four-year colleges or universities. The Associate in Applied Science degree is awarded in professional/technical fields and is designed to prepare the graduate for the demands of the world of work.

One-Year Certificate Programs

Orange County Community College also offers a number of one-year certificate programs. They are designed to develop job-entry skills at the collegiate level.

General Degree Requirements

The following academic standards apply to all first degrees:

- 6 credits of Freshman English
- 2 credits of Physical Education (including PES 100 Concepts of Physical Wellness) in addition to 60 credit hours
- achievement of an overall "C" average (CQPA of 2.00)
- 30 of the total number of required credits must be taken at SUNY Orange

Each of the degrees must meet the minimum requirements as set forth by New York State Education Law. These include at least 60 credit hours of study of which 45 credits must be in the liberal arts for the A.A. degree, 30 credits for the A.S. degree and 20 credits for the A.A.S.

Students who take most of their courses at an extension center must complete a minimum of one course on the Middletown campus in order to be eligible for graduation. An online learning course cannot be substituted for this. Students may complete no more than 30 of their credits online, as the College does not offer any complete degrees online.

The degree earned depends upon the educational and career goals of the individual. Each of the degrees offered at SUNY Orange is listed by degree title on the pages that follow with a description of the purpose, goals and specific course requirements.



Accounting

Degree Awarded: Associate in Science

Accredited by the Association of Collegiate Business Schools and Programs (ACBSP) 7007 College Boulevard, Suite 420, Overland Park, KS, 66211

Recommended Course Sequence

First Semester	Credits
ENG 101 Freshman English 1	3
Restricted SUNY Election	ve* 3
MAT Math Course**	3/4
OFT 106 Keyboarding***	1
ACC 153 Financial Accounting	4
CIT 101 Microcomputer Applica	
PES 100 Concepts of Physical Well	lness 1
Second Semester	
ENG 102 Freshman English 2	3
Restricted SUNY Elective	ve* 3
MAT Math Course	**3/4
ECO 201 Macro-Economics	3
ACC 154 Managerial Accounting	4
PES Physical Education	1
Third Semester	
ECO 202 Micro-Economics	3
SUNY Natural Science	list 3/4
BUS 201 Business Law 1	3
ACC 205 Accounting w/ Micro. A	ppl. or
BUS 205 Business Statistics	3
ACC 201 Intermediate Accounting	g 1 4
Fourth Semester	
Restricted SUNY Election	ve* 3
MKT 101 Marketing or	
MGT 201 Principles of Manageme	ent 3
BUS 202 Business Law 2	3
ACC 202 Intermediate Accounting	g 2 4
BUS 203 Business Communication	ns 3
Total Cro	edits: 67-70
ACC 220 Accounting Internship+	3

^{*} Select from three different SUNY lists; do not duplicate: American History, Western Civilization, Other/World Civilization, Arts, Foreign Language.

**Select one of the following pairs: (MAT 121 and MAT 122) (MAT 122 and MAT 205) (MAT 131 and MAT 205) (MAT 205 and MAT 206)

Program Description

The Associate in Science degree program in Accounting prepares graduates to continue their education in accounting or finance at a four-year college or university.

Sudents learn the accounting cycle including preparation of financial statements in accordance with GAAP. Special projects teach analytical skills through finding, extracting and evaluating financial information to make sound decisions. Students use Excel extensively to solve a variety of accounting problems. The Financial Accounting Research System (FARS) database is introduced so that students can learn to research complex accounting issues, thus preparing them for both the CPA exam and professional practice as an accountant. Students may also complete an internship course which gives them the opportunity to build their resume and earn college credits.

Students entering the workforce after completing a baccalaureate degree in accounting benefit from a strong demand for accountants. Employment opportunities include positions in public accounting firms, private and public companies, government and not-for-profit agencies. Most will achieve the professional Certified Public Accountant (CPA) designation and many pursue graduate degrees.

Admission Criteria

Admission to this program requires that students be high school graduates or have high school equivalency diplomas (GEDs). If students are not high school graduates, they may be eligible for admission to the College's 24 Credit Hour Program. If students are home schooled, they may be eligible for admission. (See pages 7 through 13 for more details on the admission process for all applicants.)

Developmental courses should be completed before students attempt the courses in this program. Since College Algebra and Trigonometry are required sequences, students placing into lower levels are required to complete these prior to attempting College Algebra and Trigonometry.

Students entering this A.S. program should have successfully completed three or more years of college preparatory math and have an overall high school average of 75 or above.

^{***} Students with sufficient keyboarding ability who pass the keyboarding waiver exam will fulfill this requirement; they do not need to replace the 1 credit.

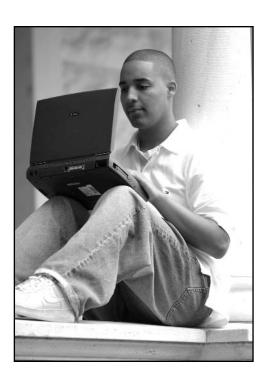
⁺ This course is an additional, optional course and does not replace any other course in this program.

Degree Awarded: Associate in Science

Student Learning Outcomes

Students will:

- demonstrate knowledge of the accounting cycle, including preparation of financial statements in accordance with Generally Accepted Accounting Principles (GAAP).
- demonstrate analytical skills through finding, extracting and evaluating financial information to make sound business decisions.
- create and edit Excel spreadsheets to solve various accounting problems.
- research answers to accounting problems using a research database (FARS).
- explain the purpose and responsibilities of the professional accountant in the business community.
- express business information effectively in both oral and written form.
- learn critical thinking skills through an analytical business report project.



Career Opportunities

- CPA (certified public accountant)
- CMA (certified management accountant)
- · financial analyst
- · financial planner

Transfer Opportunities

SUNY Orange has special relationships with upper-level colleges and universities for transfer.

These transfer institutions include:

- Franklin University
- · Marist College
- · Mercy College
- Mount St. Mary College
- · Pace University
- Ramapo College
- SUNY Albany
- · SUNY Cortland
- SUNY Empire State College
- SUNY Institute of Technology
- SUNY New Paltz

Contact Information

Accounting/Office Technologies
Department Chair
341-4411
Admissions Office
(845) 341-4030

Accounting

Degree Awarded: Associate in Applied Science

Accredited by the Association of Collegiate Business Schools and Programs (ACBSP) 7007 College Boulevard, Suite 420, Overland Park, KS, 66211

Recommended Course Sequence

First Sem	ester	Credits
ENG 101	Freshman English 1	3
	Mathematics	3 3 3 3
	Business Math	3
	Introduction to Business	3
	Accounting Principles 1	4
	Keyboarding*	1
PES 100	Concepts of Physical Wellness	1
Second Se	emester	
ENG 102	Freshman English 2	3
	Mathematics	3 3 4
	Microcomputer Applications	3
	Business & Society	3
ACC 102	Accounting Principles 2	
PES	Physical Education	1
Third Ser	mester	
	Social Science Elective	3
BUS 201	Business Law 1	3 3 3
	Business Communications	3
	Income Tax Procedures 1	-
ACC 205	Accounting with Microcompu Applications	ater 3
Fourth Se	emester	
	Social Science Elective	3
BUS 202	Business Law 2	3
ACC 214	Accounting Practice**	4
	Liberal Arts Elective	3
ACC 111	Personal Finance or	
ACC 220	Accounting Internship	3

Total Credits: 66

Program Description

The Associate in Applied Science degree program in Accounting prepares graduates to begin their careers assisting accountants as full-charge bookkeepers, junior accountants, accounting clerks or office managers in the private, public or government sectors.

Students take a sequence of accounting coursework including Accounting Principles 1 and 2, Income Tax Procedures, Accounting with Microcomputer Applications and Accounting Practice. With computer software, students learn to use correct accounting procedures through the accounting cycle. Special Excel spreadsheet and QuickBooks projects are provided to enhance the understanding of real world applications.

The accounting assistant provides bookkeeping capabilities to a variety of employers through such responsibilities as accounts receivable/payable, payroll, balance sheets, and income statements, billing, and bank statement reconciliation.

Admission Criteria

Admission to this program requires that students be high school graduates or have high school equivalency diplomas (GEDs). If students are not high school graduates, they may be eligible for admission to the College's 24 Credit Hour Program. If students are home schooled, they may be eligible for admission. (See pages 7 through 13 for more details on the admission process for all applicants.)

Developmental classes should be completed before attempting the courses in this program.

^{*} Students with sufficient keyboarding ability who pass the keyboarding waiver exam will fulfill this requirement; they do not need to replace the 1 credit.

^{**} Students must achieve a grade of C- or better to graduate from this program.

Degree Awarded: Associate in Applied Science

Student Learning Outcomes

Students will:

- demonstrate knowledge of the accounting cycle, including preparation of financial statements in accordance with Generally Accepted Accounting Principles (GAAP).
- express business information effectively in both oral and written form.
- demonstrate the ability to effectively interface with an automated accounting system.
- create and edit Excel spreadsheets to solve various accounting problems.
- learn critical thinking skills through an analytical business report project.



Career Opportunities

General accounting and bookkeeping positions exist in the following fields:

- service
- education
- travel
- entertainment
- manufacturing
- insurance
- industrial
- · media/advertising

Transfer Opportunities

While the A.A.S. is a degree leading to immediate employment, SUNY Orange has a special relationship for transfer to a B.S. degree in accounting with Franklin University. Other transfers agreements of courses exit with

- Mount St. Mary College
- · Ramapo College
- SUNY Empire State College

Contact Information

Accounting/Office Technologies
Department Chair
341-4411
Admissions Office
(845) 341-4030

Accounting Procedures

Degree Awarded: Certificate

Recommended Course Sequence

		Credits
ACC 101	Accounting Principles 1	4
BUS 101	Business Math or	
ACC 111	Personal Finance	3
BUS 103	Introduction to Business	3
CIT 101	Microcomputer Application	s 3
OFT 106	Keyboarding**	1
BUS 201	Business Law 1	3
ACC 102	Accounting Principles 2	4
BUS 105	Business and Society or	
BUS 203	Business Communications	3
ACC 205	Acctg. w/Microcomputer	
	Applications	3
ACC 214	Accounting Practice*	4

Total Credits: 31

Program Description

The Accounting Procedures certificate program prepares graduates to work in entry-level bookkeeping positions. Emphasis is placed on developing bookkeeping skills and knowledge of general business practices.

Students take a sequence of accounting coursework including Accounting Principles 1 and 2, Accounting with Microcomputer Applications, and Accounting Practice. Students learn the accounting cycle using both manual and computer software systems. Special Excel spreadsheet and QuickBooks projects are provided to enhance the understanding of real world applications.

Graduates can utilize their acquired skills in various entry-level positions such as bookkeepers, accounts receivable/payable clerks, and payroll clerks with responsibilities and abilities in balance sheets, income statements, billing and bank statement reconciliation.

Admission Criteria

Admission to this program requires that students be high school graduates or have high school equivalency diplomas (GEDs). If students are not high school graduates, they may be eligible for admission to the College's 24 Credit Hour Program. If students are home schooled, they may be eligible for admission. (See pages 7 through 13 for more details on the admission process for all applicants.)

Developmental courses should be completed before attempting the courses in this program.

^{*} Students must achieve a grade of C- or better to graduate from this program.

^{**}Students with sufficient keyboarding ability who pass the keyboarding waiver exam will fulfill this requirement; they do not need to replace the 1 credit.

Accounting Procedures

Degree Awarded: Certificate

Student Learning Outcomes

Students will:

- demonstrate knowledge of the accounting cycle, including preparation of financial statements in accordance with Generally Accepted Accounting Principles (GAAP).
- demonstrate the ability to effectively interface with an automated accounting system.
- create and edit Excel spreadsheets to solve various accounting problems.
- learn critical thinking skills through an analytical business project



Career Opportunities

General accounting and bookkeeping positions exist in the following fields:

- service
- education
- travel
- entertainment
- manufacturing
- insurance
- · industrial
- media/advertising

Transfer Opportunities

While the Certificate program leads to immediate job placement upon graduation, SUNY Orange has a special relationship with Franklin University for transfer to a B.S. degree in Applied Management or Accounting. In addition, all courses taken for this certificate may be applied to the A.A.S. Accounting degree program at SUNY Orange.

Contact Information

Accounting/Office
Technologies Department Chair
341-4411
Admissions Office
(845) 341-4030

Architectural Technology

Degree Awarded: Associate in Applied Science

Recommended Course Sequence

First Seme	ester (Credits
	Freshman English 1	3
MAT 107	Technical Math 1	3
CAD 101	Introduction to CAD	3
ARC 101	Architectural Graphics	3
ARC 105	Bldg Materials & Methods 1	2
ARC 111	Architectural Design 1	3
Second Se	mester	
ENG 102	Freshman English 2	3
CAD 102	Computer Aided Drafting 2	2
ARC 102	Advanced Arch. Graphics	3
ARC 106	Bldg Materials & Methods 2	4
ARC 112	Architectural Design 2	3
ARC 215	Architecture to the 18th Cen	tury 3
Third Sem	nester	
	Social Science Elective	3
PHY 111	Applied Physics 1	3
ARC 211	Architectural Design 3	3
ARC 205	Working Drawings 1	3
ARC 201	Digital Portfolio	1
ARC 216	Architecture from the 19th C	3
PES 100	Concepts of Physical Wellnes	ss 1
Fourth Se	mester	
	Social ScienceElective	3
ARC 220	Mechanical and Electrical Equ	iip. 3
ARC 206	Working Drawings 2	4
ARC 212	Architectural Design 4	4
ARC 221	Strength of Materials	3
PES	Physical Education	1

Total Credits: 70

Program Description

The Associate in Applied Science degree program in Architectural Technology prepares graduates to enter the workforce as architectural team members. While other opportunities exist, the largest job opportunities are positions as interns / CAD operators for architectural firms. Graduates' skills will prepare them to produce working drawings in a variety of settings, such as engineering firms or manufacturers. If graduates have field experience in a building trade, all program outcomes are directly transferable to entry-level positions in construction management and supervision. A broad cross-section of course content is covered in the program; this familiarizes students with many aspects of the architectural profession, the work of building professionals and the construction process.

When working under the supervision of a licensed professional (i.e. Registered Architect, Professional Engineer, etc.), a graduate's primary responsibilities would include measuring and documenting existing conditions of buildings and sites, preparing construction documents, interpreting construction documents, preparing design presentations for clients or other audiences, and coordinating architectural drawings with consultants' drawings.

Fluency with computer-aided drawing (AutoCAD) and computer literacy, as it applies to generating architectural drawings, are fundamental skills graduates will possess. Meanwhile, freehand sketching is stressed wherever possible as a valuable communication method. Beyond preparing construction drawings, students will build models, prepare reports and orally present their work to groups.

Most courses in the program are a combination of lecture and lab. In the lecture component, foundational material is presented, often accompanied by samples, examples or other visual cues. In the lab component, students will either work on short-term exercises designed to hone very specific knowledge bases or skills or they will work on long-term projects designed to simulate the types of projects that they will eventually encounter in the workforce. Students should be prepared to spend a significant amount of time on projects outside the classroom.

Many students who enter this degree program plan to transfer to an upper division institution. Because these opportunities exist, second year students who intend to transfer should select their courses in careful consultation with their academic advisor. Portfolio production will be required.

For those students wishing to become Registered Architects, New York State Department of Education guidelines must be followed. To become a Registered Architect, one must earn an NAAB-accredited Bachelor of Architecture or Master of Architecture degree, fulfill NCARB internship requirements (a proscribed three year apprenticeship), and pass a challenging and comprehensive licensing examination.

Architectural Technology

Degree Awarded: Associate in Applied Science

For those students wishing to pursue baccalaureate degrees in Landscape Architecture and Construction Management, an A.S. degree from SUNY Orange with electives from the Architectural Technology degree program may be most suitable. Course selection should be made carefully in consultation with academic advisors.

Admission Criteria

Admission to this program requires that students be high school graduates or have high school equivalency diplomas (GEDs). If students are not high school graduates, they may be eligible for admission to the College's 24 Credit Hour Program. If students are home schooled, they may be eligible for admission. (See pages 7 through 13 for more details on the admission process for all applicants.)

Maintenance of a C- average or better in courses in the major is also required.

Student Learning Outcomes

Students will:

- demonstrate an understanding of building materials and methods.
- graphically communicate architectural forms and building assemblies, both two and three dimensionally.
- demonstrate fluency using AutoCAD software to produce architectural drawings.
- demonstrate an ability to visualize and manipulate three dimensional spaces.
- demonstrate an appreciation for basic forms of architectural problem solving and aesthetic appreciation.
- demonstrate an understanding of the need for architectural projects to coordinate with related professions (e.g. various forms of engineering).
- demonstrate an understanding of fundamental structural principles.
- demonstrate an understanding of basic life safety issues in buildings and an ability to apply regulatory requirements to building projects.
- utilize research from electronic and other sources (e.g. Sweet's catalog or manufacturers' literature) in architectural projects.
- identify basic methods of sustainable building practices and environmental impacts of architectural choices.
- demonstrate an understanding of the historical and social context of the development of western architecture.

Career Opportunities

- architectural firms
- engineering firms
- manufacturing firms
- · construction firms
- governmental agencies
- utility companies

Transfer Opportunities

While the A.A.S. degree leads to immediate employment, SUNY Orange students have successfully transferred to:

- Alfred State College
- New York Institute of Technology
- New Jersey Institute of Technology
- Pratt Institute
- SUNY Environmental Science and Forestry

Contact Information

Science and Engineering Department Chair (845) 341-4571 Admissions Office (845) 341-4030

Business Administration

Degree Awarded: Associate in Science

Accredited by the Association of Collegiate Business Schools and Programs (ACBSP) 7007 College Boulevard, Suite 420, Overland Park, KS, 66211

Recommended Course Sequence

First Seme	ester C	redits
ENG 101	Freshman English 1	3
COM 101	Foundations of Communication	on 3
MAT	Selected Math Courses*	3/4
MKT 101	Principles of Marketing	3
ACC 153	Financial Accounting	4
Second Se	mester	
ENG 102	Freshman English 2	3
	Restricted SUNY Elective**	3
MAT	Selected Math Courses*	3/4
ACC 154	Managerial Accounting	4
MGT 201	Principles of Management	3
PES 100	Concepts of Physical Wellness	1
Third Sem	ester	
ECO 201	Macro-Economics	3
	SUNY Natural Science list	3/4
OFT 106	Keyboarding***	1
BUS 205	Business Statistics	3
BUS 201	Business Law 1	3
MGT 205	Human Resource Managemen	it 3
PES	Physical Education	1
Fourth Ser	mester	
ECO 202	Micro-Economics	3
	SUNY Natural Science list	3/4
CIT 101	Microcomputer Applications	3
	Restricted SUNY Elective****	
BUS 207	International Business	3
BUS 202	Business Law 2	3

Total Credits: 68-72

Program Description

The Associate in Science degree program in Business Administration has been designed for those students who plan to transfer and continue their business education at a four-year college. This degree is designed to parallel the bachelor's degree requirements at most four-year colleges in the region. After transfer, graduates may major in areas such as: management, marketing, finance or human resource management. Students enrolled in this degree program acquire an understanding of the relationship between the liberal arts/social sciences and the management of business enterprises. The required mathematics, science and economics courses provide a solid grounding for making proper business decisions.

Because degree requirements vary at transferring institutions, majors are urged to see their business faculty advisors and contact the Admissions Office of the transfer institution. Business Department faculty are well-trained and experienced in their areas of expertise and highly motivated to work with students, helping them to succeed in their quest for transfer to a four-year college.

Admission Criteria

Admission to this program requires that students be high school graduates or have high school equivalency diplomas (GEDs). If students are not high school graduates, they may be eligible for admission to the College's 24 Credit Hour Program. If students are home schooled, they may be eligible for admission. (See pages 7 through 13 for more details on the admission process for all applicants.)

Students are required to complete most developmental classes before attempting the courses in this program. See the Developmental Course List on page 47. Students entering this A.S. program should have successfully completed three or more years of College Preparatory Math and have an overall high school average of 75 or above.

^{*} Select one of the following pairs of courses: MAT 121 and MAT 122; or MAT 122 and MAT 205; or MAT 131 and MAT 205, or MAT 205 and MAT 206.

^{**}SUNY American History, Western Civilization or Other/World Civilization or Arts or Foreign Language lists.

^{***}Students with sufficient keyboarding ability who pass the keyboarding waiver exam will fulfill this requirement; they do not need to replace the 1 credit.

^{****}Select from list not chosen in Second Semester Restricted SUNY Elective list above.

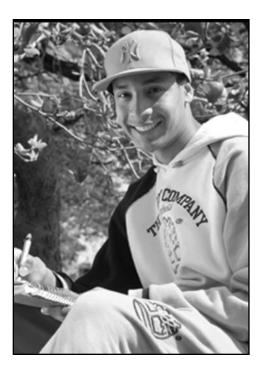
Business Administration

Degree Awarded: Associate in Science

Student Learning Outcomes

Students will:

- understand the general nature, structure, resources and operations of business organizations.
- demonstrate the ability to explain an organization's basic accounting, finance, management, marketing and legal functions.
- express business ideas and information effectively in both oral and written forms.



Career Opportunities

- management trainee
- business owner/ entrepreneur
- finance management
- insurance planning and sales
- human resource manager

Transfer Opportunities

SUNY Orange has special relationships with upper-level colleges and universities for transfer. These transfer institutions include:

- Alfred University
- Berkley College
- · Clarkson College
- Columbia University
- Fordham University
- Franklin University
- Manhattan College
- · Marist College
- Marymount College
- Mount St. Mary College
- Pace University, Lubin School of Business
- Ramapo College
- St. Thomas Aquinas College
- SUNY Albany
- SUNY Empire State College
- SUNY New Paltz
- SUNY Oswego

Please note: Because degree requirements vary at transferring institutions, majors are urged to see their business faculty advisors and contact the Admissions Office of the transfer institution.

Contact Information

Business Management Department Chair 341-4411 Admissions Office (845) 341-4030

Business Management

Degree Awarded: Associate in Applied Science

Accredited by the Association of Collegiate Business Schools and Programs (ACBSP) 7007 College Boulevard, Suite 420, Overland Park, KS, 66211

Recommended Course Sequence

First Seme	ester (Credits
ENG 101	Freshman English 1	3
	Social Science Elective	3
	Math or Liberal Arts Science	3
BUS 101	Business Math	3
BUS 103	Introduction to Business	3
PES 100	Concepts of Physical Wellnes	ss 1
Second Se	mester	
ENG 102	Freshman English 2	3
	Social Science Elective	3
	Math or Liberal Arts Science	3
BUS 105	Business and Society	3 3 3
MKT 101	Principles of Marketing	3
PES	Physical Education	1
Third Sem		
OFT 106	Keyboarding*	1
ACC 101	Accounting Principles 1	4
CIT 101	Microcomputer Applications	3
BUS 203	Business Communications	3
BUS 201	Business Law 1	3
MGT 205	Human Resource Manageme	ent 3
Fourth Sea		
ACC 102	Accounting Principles 2	4
MGT 201	Principles of Management	3
BUS 202	Business Law 2	3
MGT 203	Entrepreneurship or	3
	Internship: Business**	
	Liberal Arts Elective	3

Total Credits: 65

Program Description

The Associate in Applied Science degree program in Business Management prepares graduates to begin their careers as management trainees, first line supervisors, and higher level management positions in either profit or non-profit organizations. Students develop interpersonal and conceptual skills such as motivation, communication, performance appraisal, decision making and problem solving. Various business tools including accounting, computer information systems and law, as well as liberal arts courses, are integrated into the program.

The primary focus of the curriculum is on entrepreneurship for those interested in operating their own business or applying this managerial approach in a medium to large organization in the public or private sector. The program's concentration of business courses provides a strong background for employment. The Business Internship is a popular feature of this degree. Students work for regional companies for academic credit and real-world experience.

Business Department faculty are well-trained and experienced in their areas of expertise, and highly motivated to work with students, helping them to succeed in their quest for a job. Many students complete this degree and transfer to four-year colleges to earn a bachelor's degree; however, students who have this objective are advised that they may suffer transfer credit losses due to the concentration of business courses.

Admission Criteria

Admission to this program requires that students be high school graduates or have high school equivalency diplomas (GEDs). If students are not high school graduates, they may be eligible for admission to the College's 24 Credit Hour Program. If students are home schooled, they may be eligible for admission. (See pages 7 through 13 for more details on the admission process for all applicants.)

Students are required to complete most of the developmental classes before attempting the courses in this program. Please see the Developmental Course List on page 47.

^{*}Students with sufficient keyboarding ability who pass the keyboarding waiver exam will fulfill this requirement; they do not need to replace the 1 credit.

^{**}Students need approval of the department chair to register for this course and at least a 2.5 CQPA.

Business Management

Degree Awarded: Associate in Applied Science

Student Learning Outcomes

Students will:

- integrate management theories and tools in a variety of functional areas within an organization.
- demonstrate the ability to use a variety of analytical tools in the functional areas of business.
- express business ideas and information effectively in both oral and in written forms.

Career Opportunities

- supervisor
- management trainee
- business owner/entrepreneur
- financial insurance planning and sales
- human resource specialist trainee

Transfer Opportunities

While the A.A.S. degree leads to immediate employment, SUNY Orange students have successfully transferred to:

- Franklin University
- Mount St. Mary College
- · Ramapo College
- SUNY Empire State College

Contact Information

Business Management Department Chair 341-4411 Admissions Office (845) 341-4030

Business Studies

Degree Awarded: Certificate

Recommended Course Sequence

SUNY Orange Courses		Credits
ECO 201	Macro Economics or	
ECO 202	Micro-Economics	3
ACC 153	Financial Accounting	4
ACC 154	Managerial Accounting	4
MKT 101	Principles of Marketing	3
MGT 201	Principles of Management	3
CSC 101	Computer Science 1 or	
CIT 107	C Programming	3
MAT 205	Calculus 1	4

New Paltz Courses

33207	Macro-Economics or	3
33206	Micro-Economics	
20201	Financial Accounting	4
20202	Managerial Accounting	4
20325	Marketing	3
20252	Principles of Management	3
	Computer Program Elective	3
64245	Basic Calculus	4
20341	Fund. of Corporate Finance	3
20309	Stats. for Bus. & Econ. 1	3
20311	Stats. for Bus. & Econ. 2	4

Total: 34

Program Description

The Business Studies certificate program is a joint venture between SUNY Orange and SUNY New Paltz. It offers course work that enables students with non-business undergraduate degrees to enter SUNY New Paltz's Master of Science in Business program.

The objective of this partnership is to provide the citizens/students of the Mid-Hudson Valley Region a quality, cost-effective, geographically convenient education for those non-business students desiring entrance into a graduate business program.

Students take courses in economics, accounting, marketing, management, computer science, and calculus.

Admission Criteria

Students must have completed a non-business baccalaureate degree.

Degree Awarded: Certificate

Student Learning Outcomes

Students will:

- articulate all course content into the M.S. degree at SUNY New Paltz.
- be able to apply for finance, international business or other options in the master's program at SUNY New Paltz.

Career Opportunities

Career paths for this certificate are based upon opportunities after the completion of the master's degree at SUNY New Paltz.

Transfer Opportunities

To learn more about transfer options, contact the School of Business, SUNY New Paltz.

Contact Information

Accounting/Office
Technologies Department Chair
341-4411
Admissions Office
(845) 341-4030

Clerical Office Assistant

Degree Awarded: Certificate

Recommended Course Sequence

First Seme	ester	Credits
OFT 108	Intermediate Computer	
	Keyboarding or	
OFT 109	Advanced Computer	
	Keyboarding	3
OFT 208	Computer Fundamentals	
	for the Office or	
	Business Elective	3
OFT 209	Microsoft Word and PowerPo	oint 3
	Business Elective	3
Second Se	emester	
OFT 109	Advanced Computer	
	Keyboarding or	
	Business Elective	3
BUS 203	Business Communications	3
OFT 201	Records/Information Manage	ement 3
OFT 207	Transcription Skills	3
OFT 214	Microsoft Excel and Access	3

Total Credits: 27

Program Description

The Clerical Office Assistant certificate program provides the opportunity for graduates to either begin their careers as office assistants or to update their current office skills for re-entry into the business world. Areas of concentration include information processing, data entry, business communications and information management.

The office assistant provides office support to employers in a wide variety of settings. This support includes document production, computer software capability, records management, telephone interaction, customer service, keyboarding and data entry.

Students take a sequence of office skills courses such as keyboarding, Microsoft Word and PowerPoint, Excel and Access, and transcription. They also learn to compose business documents through the Business Communications course and to manage office documents through the Records/Information Management course.

Students learn to use modern office equipment and computer software as they apply to various work environments. Microsoft Office (Word, Excel, PowerPoint, and Access) as well as WordPerfect software programs are presented.

Admission Criteria

Admission to this program requires that students be high school graduates or have high school equivalency diplomas (GEDs). If students are not high school graduates, they may be eligible for admission to the College's 24 Credit Hour Program. If students are home schooled, they may be eligible for admission. (See pages 7 through 13 for more details on the admission process for all applicants.)

Students without sufficient keyboarding ability will be required to take Elementary Computer Keyboarding. Students with sufficient keyboarding ability to pass the waiver for Intermediate Computer Keyboarding fulfill this requirement with a business elective. To complete this program in one year, students must have basic keyboarding skills before enrolling in the program.

Degree Awarded: Certificate

Student Learning Outcomes

Students will:

- demonstrate the ability to keyboard business correspondence using various computer software programs in word/information processing.
- demonstrate the ability to keyboard straight copy for five minutes with a maximum of three errors.
- understand computer concepts and applications for the office environment.
- learn critical thinking skills through an analytical business report project.



Career Opportunities

- service
- education
- travel
- entertainment
- · manufacturing
- · legal & medical
- insurance
- · industrial
- media/advertising

Transfer Opportunities

While this certificate program leads to immediate placement upon graduation, SUNY Orange has a special relationship with Franklin University for transfer to the B.S. degree in Applied Management. In addition, all courses taken for this certificate may be applied the A.A.S. Office Technologies degree program at SUNY Orange.

Contact Information

Accounting/Office Technologies
Department Chair
341-4411
Admissions Office
(845) 341-4030

Computer Information Technology–Networking

Degree Awarded: Associate in Applied Science

Recommended Course Sequence First Semester Credits ENG 101 Freshman English 1 MAT ___ College Algebra or higher 3 3 CIT 103 Management Information Systems CIT 107 Introduction to C++ Programming 3 CIT 105 Data Communic. & Networking 3 CIT 100 Computer Literacy 3 **Second Semester** ENG 102 Freshman English 2 3 MAT ___ College Trigonometry or higher 3 CIT 112 Computer Hardware and Maint. 4 CIT 116 Networking 1 6 PES 100 Concepts of Physical Wellness 1 **Third Semester** 3 Social Science Elective Systems Analysis 3 3

C11	Systems Amarysis	J
CIT 225	Database Fundamentals	3
CIT	_Unix/Linux	3
CIT 203	Networking 2	4
PES	Physical Education	1
Fourth Semester		

Fourth Semester			
	Social Science Elective	3	
CIT	Systems Design	3	
CIT 206	Network Security	3	
CIT 230	Internship	3	
	Restricted Elective*	3	

Total Credits: 67

*Restricted Electives:

Internet & HTML Programming CIT 111

CIT 115 Visual Basic

Any course approved by department

Program Description

The Associate in Applied Science degree program in CIT-Networking prepares students for employment in a variety of entry-level careers in computer networking and information technology occupations. The theory and practical experience students gain allows them to enter jobs with highly competitive salaries.

This degree program offers the coursework that provides background information for students to take the CompTIA's A+, Security+, Networking+, Linux+ and CISCO's CNA certification exams. The primary focus of this degree program is networking computer systems including implementation, configuration, maintenance and administration of networking equipment, which includes creation of networking servers. The degree course work introduces students basic computer systems and builds on theoretical and technical knowledge and skills to develop a strong understanding of networking topologies, mediums and medium access techniques in both local area and wide area networks (LANs and WANs). Classes are designed to provide students with hands-on training utilizing state-ofthe-art computer facilities. Students are also placed in a work environment in order to provide actual service to a business through the CIT-Networking internship.

Students are encouraged to discuss their future career and/or transfer goals with a CIT-Networking advisor.

Admission Criteria

Admission to this program requires that students be high school graduates or have high school equivalency diplomas (GEDs). If students are not high school graduates, they may be eligible for admission to the College's 24 Credit Hour Program. If students are home schooled, they may be eligible for admission. (See pages 7 through 13 for more details on the admission process for all applicants.)

Computer Information Technology—Networking

Degree Awarded: Associate in Applied Science

Student Learning Outcomes

Students will:

- install and configure networking equipment.
- implement and configure network protocols.
- troubleshoot PC hardware problems.
- · assemble a PC.
- identify and summarize security threats and appropriate actions to minimize those threats.
- install, configure and manage a networking operating system.
- analyze an existing system and determine appropriate systems design implementation strategies.



Career Opportunities

- banks
- · law firms
- medical offices
- hospitals
- · small businesses
- government agencies
- · corporations
- · schools
- · colleges
- · consulting firms

Transfer Opportunities

While the A.A.S. degree leads to immediate employment, SUNY Orange students have successfully transferred to:

- Marist College
- Mount St. Mary College
- SUNY Institute of Technology

Contact Information

Applied Technology Department Chair 341-4523 Admissions Office (845) 341-4030

Computer Science

Degree Awarded: Associate in Science

Recommended Course Sequence

First Semester			
ENG 101	Freshman English 1	3	
	SUNY Social Science list	3	
CSC 101	Computer Science 1	4	
MAT 205	Calculus 1	4	
COM 101	Foundations of Communication	3	
PES 100	Concepts of Physical Wellness	1	
Second Se	mester		
ENG 102	Freshman English 2	3	
HIS		3	
MAT 206	Calculus 2	4	
CSC 102	Computer Science 2	4	
EET 104		4	
PES	Physical Education	1	
Third Sem	ester		
PHY 101	General Physics 1** or		
PHY 105	General Physics 1 w/calculus	4	
MAT 211	Linear Algebra	3	
CSC 201	Data Structures	3	
	Restricted SUNY Elective***	3	
Fourth Semester			
PHY 102	General Physics 2** or		
PHY 106	General Physics 2 w/calculus	4	
MAT 125	Introduction to Statistics	3	
MAT 136	Discrete Mathematics	3	
CSC 204	Computer Organization &		
	Assembly Language Prog.	3	
	Electives	2/4	

Total Credits: 65-67

Program Description

The Associate in Science degree program in Computer Science is designed for students of mathematics and science who wish to pursue a B.S. degree in Computer Science at senior colleges and universities. Its goal is to prepare the students for a successful transfer into such degree programs.

The curriculum is structured to emphasize scientific applications and the theoretical concepts which underlie computer design and development, languages, and systems. The program provides the core courses that would be encountered in the first two years of study at most four-year institutions.

Associate degree core courses in calculus, linear algebra, discrete math, digital electronics, computer science, data structures and assembly language programming constitute the nucleus of this program. Selected courses in the liberal arts support and enhance this central core.

To initiate this plan of study, students must have tested into college algebra (MAT 121) or higher on the Mathematics placement test. Students who do not meet the math requirement can be successful in reaching their academic goals by taking foundation courses and extending the program to three years.

Admission Criteria

Admission to this program requires that students be high school graduates or have high school equivalency diplomas (GEDs). If students are not high school graduates, they may be eligible for admission to the College's 24 Credit Hour Program. If students are home schooled, they may be eligible for admission. (See pages 7 through 13 for more details on the admission process for all applicants.)

^{*}SUNY American History or Western Civilization or Other/World Civilization.

^{**}Consult catalog of the college to which you intend to transfer. Some require the General Physics with calculus.

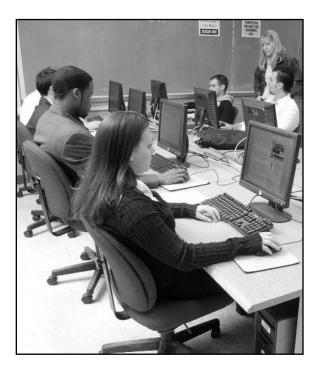
^{***}SUNY Arts or Foreign Language lists or any list not selected from in Second Semester SUNY History Elective above.

Degree Awarded: Associate in Science

Student Learning Outcomes

Students will:

- demonstrate ability in problem solving and communicating algorithms clearly, utilizing structures/top-down algorithm design processes.
- demonstrate familiarity with a wide variety of abstract data structures and data encapsulation concepts.
- demonstrate knowledge of assembler language programming as it applies to computer architecture and operating systems.
- demonstrate ability in computational methods of mathematics and physical science necessary for computer modeling.



Career Opportunities

- computer engineering
- computer systems analysis
- education
- computer programming
- cryptology
- applied mathematics
- · financial analysis

Transfer Opportunities

SUNY Orange has special relationships with upper-level colleges and universities for transfer.

These transfer institutions include:

- · Clarkson University
- Florida Memorial University
- Marist College
- R.P.I.(Rensselaer Polytechnic Institute)
- SUNY Binghamton
- SUNY Buffalo SUNY Institute of Technology
- SUNY New Paltz
- SUNY Oneonta
- · SUNY Purchase

Contact Information

Math/Computer Science Department Chair (845) 341-4560 Admissions Office (845) 341-4030

Criminal Justice

Degree Awarded: Associate in Science

Recommended Course Sequence

First Semester		Credits	
ENG 101	Freshman English 1	3	
CRJ 101	_	3	
CRJ 105	Police Community Relations	3	
CRJ 107	Industrial/Private Security o	r	
CRJ 106	Patrol Operations	3	
CRJ 215	Criminal Investigation 1	3	
PES 100	Concepts of Physical Wellness	s 1	
Second Se	mester		
ENG 102	Freshman English 2	3	
CRJ 111	Criminology	3	
MAT	College Algebra (MAT 121)		
	or higher*	3/4	
CRJ 213	Police Organization Admn.	3	
CRJ 216	Criminal Investigation 2	3	
PES	Physical Education	1	
Third Sem	nester		
PSY 101	General Psychology 1 or		
SOC 120	Social Problems	3	
CRJ 109	Critical Issues in Law Enforce	cement3	
	SUNY Natural Science list	3/4	
CRJ 226		3	
	Restricted SUNY Elective**	3	
Fourth Semester			
COM 101	Foundations of Communica	tion 3	
	Restricted SUNY Elective**	3	
CRJ 213	Understanding the Juvenile		
	Offender	3	
CRJ 211	Criminal Law	3	
	Elective	3	

Total Credits: 62-64

Program Description

The Associate in Science degree program in Criminal Justice prepares students to continue their education in four-year degree programs in criminal justice or related liberal arts areas of study. These may include forensic psychology, public administration, sociology, cyber security, criminology and pre-law. It is designed to facilitate the acquisition of technological and critical thinking skills that are essential for success in the criminal justice field. Graduates of this degree program will have both the general educational background as well as the criminal justice expertise to pursue careers in the many diverse criminal justice areas of study.

The program is regularly reviewed to insure that course content is current with contemporary issues that impact the criminal justice system, such as homeland security, terrorism, cyber security, technological advancements, diversity and ethics. The program courses explore contemporary criminal justice issues such as the nature and causes of crime, crime as a public policy issue, racial profiling and global issues such as transnational terrorism. There are specific courses devoted to the institutional treatment of the adult and juvenile offender as well as an internship program where students are afforded the opportunity to utilize their newly acquired skills and knowledge in an actual criminal justice related work environment. This program assures the students of a solid foundation to pursue higher education and rewarding careers in criminal justice.

Admission Criteria

Admission to this program requires that students be high school graduates or have high school equivalency diplomas (GEDs). If students are not high school graduates, they may be eligible for admission to the College's 24 Credit Hour Program. If students are home schooled, they may be eligible for admission. (See pages 7 through 13 for more details on the admission process for all applicants.)

^{*} Students must complete MAT 121 (or higher). MAT 102 can be counted as an elective.

^{**} Select two from SUNY Western Civilization or Other/World Civilization or Arts or Foreign Language or American History lists. Do not duplicate category.

Degree Awarded: Associate in Science

Student Learning Outcomes

Students will:

- develop critical thinking skills and apply these skills in discussing complex issues in criminal justice.
- identify common concepts relevant to the understanding of the criminal justice system and be able to critically assess and debate these issues.
- develop problem solving skills and be able to apply these skills to issues that impact the diverse areas of the criminal justice system.
- develop an understanding of our legal system, constitutional law, procedural law and substantive law.
- be able to understand and discuss the complex issues of diversity and ethics and their impact on the criminal justice system.



Career Opportunities

- Federal Bureau of Investigation (FBI)
- Immigration and Naturalization Service (INS)
- park police
- · postal inspector
- secret service agent
- secret service uniformed
- deputy sheriff
- state police/trooper
- police officer
- district attorney
- · defense counsel
- · correction officer
- forensics specialist
- · court clerk
- judge

Transfer Opportunities

SUNY Orange has special relationships with upper-level colleges and universities for transfer.

These transfer institutions include:

- John Jay College of Criminal Justice
- Pace University
- State University of New York (SUNY)

Contact Information

Criminal Justice Department Chair 845-341-4355 Admissions Office (845) 341-4030

Criminal Justice-Police

Degree Awarded: Associate in Applied Science

Recommended Course Sequence

First Semester C		Credits	
ENG 101	Freshman English 1	3	
	Criminal Justice	3	
CRJ 105	Police/Community Relations	3	
CRJ 107	•	3	
CRJ 215	Criminal Investigation 1	3	
PES 100	Concepts of Physical Wellnes	s 1	
Second Se	mester		
ENG 102	Freshman English 2	3	
PSY	Psychology Course	3	
CRJ 111	Criminology	3	
CRJ 106	Patrol Operations	3	
CRJ 216	Criminal Investigation 2	3	
PES	Physical Education	1	
Third Sen	nester		
SOC 120	Social Problems or		
SOC 101	Introduction to Sociology	3	
CRJ 213	Understanding the Juvenile		
	Offender	3	
	Math or Liberal Arts Science	3	
CRJ 213	Police Organization &		
	Administration	3	
CRJ 226	Criminalistics	3	
Fourth Semester			
COM 101	Foundation of Communication	on 3	
POL 102	U.S. Gov't-State & Local	3	
CRJ 211	Criminal Law	3	
	Math or Liberal Arts Science	-	
	Elective*	3	

Total Credits: 62

Program Description

The Associate in Applied Science degree program in Criminal Justice–Police provides the student with the necessary credits required to apply for employment in one of the many local, state or federal criminal justice agencies.

The overall program design is to prepare the student for a career path in law enforcement, security, law, probation, parole, juvenile justice and investigation. The coursework provides study and practice in the necessary critical thinking and technological skills the student will need to function effectively in the law enforcement field. The program offers courses on criminal investigations that cover all aspects of an investigation, including interviewing techniques, rights of the accused, search warrant requirements and wiretapping. It also includes a complete course of criminalistics which focuses on fingerprinting and fingerprint classification and identification, blood analysis and crime scene photography. Contemporary law enforcement issues are examined, including searching without a warrant, automobile stops, racial profiling, transnational terrorism and police-community relations are thoroughly discussed and critically evaluated. All classes emphasize interactive critical assessment of contemporary policing issues as well as hands-on practical application of skills. All instructors, in addition to their advanced educational backgrounds, are experienced practitioners in the fields of law enforcement, courts and corrections.

Admission Criteria

Admission to this program requires that students be high school graduates or have high school equivalency diplomas (GEDs). If students are not high school graduates, they may be eligible for admission to the College's 24 Credit Hour Program. If students are home schooled, they may be eligible for admission. (See pages 7 through 13 for more details on the admission process for all applicants.)

^{*} Recommend taking CRJ 109 Critical Issues in Law Enforcement

Degree Awarded: Associate in Applied Science

Student Learning Outcomes

Students will:

- develop critical thinking skills and apply these skills in discussing complex issues that confront police administrators.
- be able to identify the origins of policing systems and be able to assess problems that confront modern policing systems.
- be able to identify relevant issues of constitutional, procedural and substantive law.
- be able to understand and critically discuss the complex issues involving diversity and ethics as they relate to professional policing.
- be able to understand the importance of crime scene protection and be able to demonstrate the proper methods of gathering and presenting evidence properly.



Career Opportunities

- Federal Bureau of Investigation (FBI)
- Immigration and Naturalization Service (INS)
- · park police
- · postal inspector
- secret service agent
- secret service uniformed
- · deputy sheriff
- state police/trooper
- police officer
- · district attorney
- · defense counsel
- · correction officer
- · forensics specialist
- · court clerk
- · ballistics specialist
- fingerprint specialist
- security

Transfer Opportunities

SUNY Orange has special relationships with upper-level colleges and universities for transfer.

These transfer institutions include:

- · Pace University
- State University of New York (SUNY)

Contact Information

Criminal Justice Department Chair (845) 341-4355 Admissions Office (845) 341-4030

Dental Hygiene

Degree Awarded: Associate in Applied Science

Accredited by the Commission on Dental Accreditation, American Dental Association 211 East Chicago Avenue, Chicago, Illinois 60611, (312) 440-2500.

Recommended Course Sequence

First Seme	ester Crec	lits	
ENG 101	Freshman English 1	3	
BIO 115		4	
	General and Biological	-	
011111 110	Chemistry	3	
DNT 101	Preventive Oral Health Services 1	5	
	Maxillofacial Anatomy	_	
21,1100	and Oral Histology	4	
Second Se	mester		
ENG 102	Freshman English 2	3	
	Preventive Oral Health Services 2		
DNT 104	Dental Radiology		
	Oral Health Education	3 2 2	
DNT 108	Pharmacology	2	
	Microbiology for Health		
	Professionals	3	
Summer S	ession 1		
DNT 110	Pain Management in Dentistry	2	
Third Sem	ester		
BIO 125	Nutrition	3	
DNT 201	Preventive Oral Health		
	Services III	5	
DNT 203	Oral Pathology	2	
	Periodontology	2	
DNT 207	Dental Bio-Materials and		
	Advanced Functions	3	
PES 100	Concepts of Physical Wellness	1	
Fourth Semester			
COM 101		3	
PSY 101	General Psychology 1	3	
SOC 101	Introduction to Sociology	3	
DNT 202			
2111 202	Services IV	5	
DNT 206	Community Dental Health	2	
PES	•	1	
	J : —	-	
	T 1 0 11	70	

Note: An additional requirement is current certification in CPR. "BLS (Basic Life Support) for Healthcare Providers" is the recommended course (American Heart Association). Certification documentation must be submitted at the beginning of the second semester.

Total Credits: 72

Program Description

The Associate in Applied Science degree program in Dental Hygiene prepares students for licensing by the State Board for Dentistry of New York to practice dental hygiene. Dental hygienists work under the supervision of a licensed dentist. They provide preventive, therapeutic and educational services within the parameters of the state law governing the practice of dental hygiene. In addition to traditional skills, these responsibilities include the administration of local infiltration anesthesia and nitrous oxide sedation.

The curriculum is focused on the three professional Standards of Care: professionalism, health promotion and disease prevention, and patient care. Coursework includes requirements in English, social sciences, the sciences, and program-specific courses and laboratory experiences. In order to develop necessary skills, students first practice on peers. Then they actively participate in clinical dental hygiene experiences in the College dental hygiene clinic, as well as at off-campus sites including hospitals. Dental hygiene courses are offered once each year. Courses must be taken in the sequence in which they are offered without interruption. Dental hygiene courses cannot be taken on a part-time basis. A minimum grade of C (75%) is required in all dental hygiene courses. Program requirements for graduation also include the presentation of table clinics at off-campus locations, portfolio development and casebased clinical case presentations. Membership in the Student American Dental Hygienists' Association is mandatory.

Students who are considering this program must understand that they are required to provide their own transportation to these off-campus facilities and are required to purchase their own instruments and related supplies. They must also have a yearly physical examination and TB test. The Hepatitis B vaccine is strongly recommended. Students with disabilities should meet with the Coordinator of Special Services upon entering the program. Foreign students must have permanent residence status to obtain a dental hygiene license in New York State. An individual who has charges pending or has ever been convicted of a felony or misdemeanor and/or has been found guilty of professional misconduct or negligence may not be eligible for licensure. Contact the Office of Professional Discipline, New York State Education Department prior to applying to this program. Finally, pregnant or potentially pregnant students should note that there is a risk associated with exposure to nitrous oxide gas. Students who are unwilling or unable to sit as patients should not apply to this program.

Degree Awarded: Associate in Applied Science

Admissions Criteria

Academic Requirements:

- · High school diploma or GED
- Eligible to take or have completed Freshman English 1 or equivalent
- Eligible to take Intermediate Algebra or equivalent, or have completed Elementary Algebra or equivalent with a 2.0 or higher
- Completed high school AP Biology (score of 3, 4 or 5); Introduction to Biology; or General Biology; or Anatomy & Physiology 1, or higher, with a grade of 2.0 or better (within 5 years of applying)
- Completed high school Regents Chemistry with a grade of 75 or better; or a college Chemistry course (with a lab) with a grade of 2.0 or better (within 5 years of applying)
- GPA: students must attain a minimum GPA of 2.5 but will receive more points for a higher GPA (4.0-3.75=5 pts; 3.74-3.50=4 pts; 3.49-3.25=3 pts; 2.99-2.50=1 pt.)
- Number of acceptable credits completed towards the degree: (27 23 completed = 3 pts; 22 18 completed = 2 pts; 17 12 completed = 1 pt.; < 12 completed = 0 pts.)

Department Specific Requirements:

- Dental Hygiene observation (16 hour min. with documentation)
- Attendance at a Dental Hygiene department pre-admission orientation where students will receive and sign off on information pertaining to health forms and criminal policies

Note: All Dental Hygiene Admissions Eligibility Requirements must be completed before February 1 in order for a student to be considered for acceptance into the program for the fall semester. Priority in admission to all Health Professions programs goes to currently enrolled Orange County Community College students who are legal Orange County residents. Meeting the admission requirements for a Health Professions program does not guarantee admission into the program.

Student Learning Outcomes

Students will:

- discern and manage the ethical issues of dental hygiene practice in a rapidly changing environment.
- acquire and synthesize information in a critical, scientific and effective manner.
- be concerned with improving the knowledge, skills and values of the profession.
- provide planned educational services using appropriate interpersonal communication skills and educational strategies to promote optimal health.
- initiate and assume responsibility for health promotion and disease prevention activities for diverse populations.
- systematically collect, analyze and accurately record baseline data on the general, oral and psychosocial health status of the client using methods consistent with medicolegal principles.
- discuss the condition of the oral cavity, the actual and potential problems identified, the etiological and contributing factors, as well as recommended and alternative treatments available.
- provide treatment that includes preventive and therapeutic procedures to promote and maintain oral health and assist the client in achieving oral health goals.
- evaluate the effectiveness of planned clinical and educational services and modify them as necessary.

Career Opportunities

- private practice
- hospitals
- · health service agencies
- overseas
- military

Transfer Opportunities

While the A.A.S. degree leads to immediate employment, SUNY Orange students have successfully transferred to:

- Manhattan College
- Northeastern University
- Pennsylvania College of Technology

Contact Information

Dental Hygiene Department Chair 341-4306 Admissions Office (845) 341-4030

Degree Awarded: Associate in Applied Science

Recommended Course Sequence

First Seme	ester Credi	its	
ENG 101	Freshman English 1	3	
PSY 101	_	3	
EDU 105	Preparing to Teach Young		
	Children	2	
EDU 101	Child Development 1++	3	
EDU 111	Childhood Health and Safety	3	
EDU 107	Mandated Training	1	
PES 100	Concepts of Physical Wellness	1	
Second Se	emester		
ENG 102	Freshman English 2	3	
EDU 102	Child Development 2++#	3	
	SUNY Gen Ed Elective**	3	
MAT	SUNY Math*	3	
EDU 208	Home, School, Community#	3	
	Physical Education	1	
Third Sem	ester		
COM 101	Foundations of Communication	3	
	Fundamentals of Early Childhood		
	Language Arts	3	
EDU 203	Child Care Curriculum		
	Development 1++	5	
EDU 201	Observation & Assessment++	3	
	SUNY Gen Ed Elective	3	
Fourth Semester			
PED 156	Infant/Child First Aid & CPR	1	
EDU 202	Infant and Toddler Care++#	3	
EDU 204	Child Care Curriculum		
	Development 2++#	5	
EDU 206	÷		
	Management#++	3	
	SUNY Gen Ed Elective	3	

Total Credits: 64

Program Description

The Associate in Applied Science degree program in Early Childhood Development and Care prepares students for responsible and effective employment in positions ranging from aide to head teacher in a variety of early childhood settings. The program provides theory, practical information and extensive supervised experience concerning normal early human development, developmental difficulties, caring for and educating young children, methods for fostering child development, and the operation and management of early childhood facilities.

The primary goals of the Early Childhood Development and Care program are to develop cognitive and critical thinking skills through an integrated education plan; to promote the use of applied knowledge of developmentally appropriate practices in both the College classroom and early learning field site environments; to furnish opportunities for self-directed, creative, professional learning activities; to provide field experiences ranging from minimal observation to full participation, allowing students to demonstrate increasing technical skills working with young children.

Because current research shows that the early years are among the most vital in human development, professional and appropriate educational experiences will develop the ECDC student's thinking, practical and personal skills necessary to teach and care for young children. These activities take place in College classes and seminars, and also in local area field sites. In the field, extensive "handson" observation and participation give opportunities to apply education principles, receive individual guidance and feedback, and be involved first-hand, with day-to-day activities in diverse early childhood learning environments. Students will experience 235 hours of such "hands-on" occasions.

A grade of C (2.00) or better is required in all EDU courses for progression in the program and graduation with an A.A.S. or Certificate in Early Childhood Development and Care.

Admission Criteria

Admission to this program requires that students be high school graduates or have high school equivalency diplomas (GEDs). If students are not high school graduates, they may be eligible for admission to the College's 24 Credit Hour Program. If students are home schooled, they may be eligible for admission. (See pages 7 through 13 for more details on the admission process for all applicants.)

⁺⁺ Local daytime observations beyond college classroom required.

[#] Offered Spring semester ONLY

^{*} MAT 102 or higher (MAT 111 recommended)

^{**} These electives MUST satisfy three (3) different SUNY General Education categories chosen ONLY from Category 2 (Natural Sciences), 4 (American History), 5 (Western Civilization), 6 (Other World Civilizations), 8 (Arts), 9 (Foreign Languages), with at least ONE from either Category 4, 5 or 6.

Degree Awarded: Associate in Applied Science

Student Learning Outcomes

Students will:

- demonstrate knowledge of physical, intellectual, language, creative, social and emotional domains by incorporating developmentally appropriate practices in an early childhood environment.
- apply knowledge by effectively planning relevant stage and age level learning activities using varied curricula and lesson plan formats.
- provide a balanced learning atmosphere evidenced by an appropriate physical environment and supportive cognitive and affective methods.
- welcome and integrate into their classroom an unbiased understanding and appreciation of a population that is diverse in appearance, performance, ability and culture.
- demonstrate effective communication skills with children, colleagues and parents.
- develop and exhibit professional and ethical standards of integrity, confidentiality, personal growth and collaborative teamwork in College classrooms and field assignments.



Career Opportunities

- · center director
- head teacher (non-public settings)
- · teacher assistant
- family child care provider
- early childhood business owner
- · nanny or au pair
- early intervention specialist
- · recreation leadership
- · home visitor
- · child care resource and referral
- curriculum consultant

Transfer Opportunities

While the A.A.S. degree leads to immediate employment, SUNY Orange students have successfully transferred. Please check with the intended transfer school for details.

Contact Information

Education Department Chair 341-4354 Admissions Office (845) 341-4030

Degree Awarded: Certificate

Recommended Course Sequence

First Semester Cred			
ENG 101	Freshman English 1	3	
PSY 101	General Psychology 1	3	
EDU 105	Preparing to Teach Young		
	Children	2	
EDU 101	Child Development 1++	3	
EDU 107	Mandated Training	1	
EDU 201	Observation & Assessment++	3	
Second Semester			
ENG 102	Freshman English 2	3	
EDU 102	Child Development 2++#	3	
PED 156	Infant/Child First Aid & CPR	1	
EDU 111	Child Health and Safety	3	
EDU 202	Infant/Toddler Care++#	3	
EDU 206	Admin & Management# or		
EDU 208	Home, School, and Community	y# 3	

Total Credits: 31

Program Description

The Early Childhood Development and Care certificate program is designed to develop professional career skills in preparation for entry level positions in a variety of early childhood fields. Students will complete 60 hours of observation in local early learning centers in addition to College classroom time. This field work provides an opportunity to link theory with hands-on practice. Students will be required to demonstrate an understanding of the theories related to child development, the techniques for fostering such development and the operation of a child care facility. Nine of the 12 courses in the ECDC certificate program directly relate to early childhood. All courses apply to an Associate in Applied Science (A.A.S.) degree in Early Childhood Development and Care. A grade of C (2.00) or better is required in all EDU courses for progression in the program and graduation.

Admission Criteria

Admission to this program requires that students be high school graduates or have high school equivalency diplomas (GEDs). If students are not high school graduates, they may be eligible for admission to the College's 24 Credit Hour Program. If students are home schooled, they may be eligible for admission. (See pages 7 through 13 for more details on the admission process for all applicants.)

⁺⁺ Local daytime observations beyond college classroom required.

[#] Offered Spring semester ONLY

Degree Awarded: Certificate

Student Learning Outcomes

Students will:

- demonstrate knowledge of physical, intellectual, language, creative, social and emotional domains by incorporating developmentally appropriate practices in an early childhood environment.
- apply knowledge by effectively planning relevant stage and age level learning activities using varied curricula and lesson plan formats.
- provide a balanced learning atmosphere evidenced by an appropriate physical environment and supportive cognitive and affective methods.
- welcome and integrate into their classroom an unbiased understanding and appreciation of a population that is diverse in appearance, performance, ability and culture.
- demonstrate effective communication skills with children, colleagues and parents.
- develop and exhibit professional and ethical standards of integrity, confidentiality, personal growth and collaborative teamwork in College classrooms and field assignments.



Career Opportunities

Entry level or aide positions in:

- · child care centers
- preschools
- · nursery schools.

Transfer Opportunities

The ECDC certificate is designed to prepare graduates for immediate entry into the workplace. However, every credit from the certificate will apply to the SUNY Orange ECDC A.A.S. degree.

Contact Information

Education
Department Chair
341-4354
Admissions Office
(845) 341-4030

Electrical Engineering Technology—Telecommunications

Degree Awarded: Associate in Applied Science

Recommended Course Sequence

First Semester		Credits	
ENG 101	Freshman English 1	3	
ENG 160	Technical Writing Module	1.5	
PHY 111	Applied Physics 1	3	
MAT 121	College Algebra	3	
EET 101	Electric Circuits	4	
EET 110	Computer Appl. and Graphic	cs 3	
PES 100	Concepts of Physical Wellnes		
Second Se	mester		
ENG 102	Freshman English 2	3	
	Social Science Elective	3	
MAT 122	College Trigonometry	3	
EET 106		4	
EET 104	Digital Electronics	4	
Third Sem	nester		
ENG 161	Technical Writing Module	1.5	
EET 201	Electronics 1	4	
EET 107	Telecommunications 2	4	
EET 206	Telecommunications 3	4	
PES	Physical Education	1	
Fourth Semester			
	Social Science Elective	3	
EET 202	Electronics 2	4	
EET 204	Digital Electronics 2	4	
EET 230	Internship-Technology	3	

Total Credits: 64

Program Description

The Associate in Applied Science degree program in Electrical Engineering Technology–Telecommunications prepares graduates to succeed in a variety of technical fields such as telecommunications, health care, utilities, manufacturing and other related electronic occupations.

In the course curriculum, students learn the basics of DC and AC electrical circuits. They build and test digital electronic, analog electronic and telecommunications circuits. Students research, build and present a wireless communications project. Most courses in the program are a combination of lecture and lab. The lecture covers the theoretical aspect of the curriculum, while the lab provides hands-on experience, as well as reinforcing the concepts.

A new state-of-the-art telecommunications lab, coupled with courses teaching current technology and internships, will provide students with a well rounded education and jobs with highly competitive salaries.

While A.A.S. graduates are prepared to enter the workforce immediately, many students choose to transfer to upper-level programs leading to a bachelor's degree in technology. If students are considering this, they should consult with the department chair and advisors for program planning. Special planning is available for students entering the program with previous college credit or equivalent training/work experience.

Admission Criteria

Admission to this program requires that students be high school graduates or have high school equivalency diplomas (GEDs). If students are not high school graduates, they may be eligible for admission to the College's 24 Credit Hour Program. If students are home schooled, they may be eligible for admission. (See pages 7 through 13 for more details on the admission process for all applicants.)

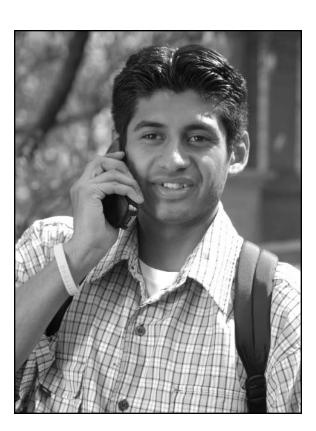
Electrical Engineering Technology—Telecommunications

Degree Awarded: Associate in Applied Science

Student Learning Outcomes

Students will:

- develop logical techniques for designing, implementing and maintaining advanced telecommunications and electronic systems.
- learn the practical skills required to design and troubleshoot telecommunications and electronic systems.
- develop techniques to reason out new concepts.
- develop methods to maintain currency in the technology fields.
- utilize mathematics and computer software as the basic tools for design and analysis of complex telecommunications and electronic systems.
- develop the ability to communicate effectively in both a written and oral format.
- promote and develop teamwork and team building as an effective tool for increased productivity.
- Mimic and develop standard workplace competencies.



Career Opportunities

Students successfully completing the program should be qualified for entry level careers in the telecommunications field and other related fields in electronics.

Graduates of the program are currently working at:

- Time Warner Cable
- Citizens/Frontier Communications
- Verizon Communications
- Orange Regional Medical Center
- · Orange and Rockland
- · Con Edison
- IBM
- and in a variety of technical positions requiring a telecommunications and electronics background

Transfer Opportunities

While the A.A.S. degree leads to immediate employment, SUNY Orange students have successfully transferred.

If a student plans to pursue a four-year degree program, he or she should see the department chair or a faculty advisor as soon as possible.

SUNY Orange students have successfully transferred to:

- Fairleigh Dickinson University
- New York Institute of Technology
- Rochester Institute of Technology
- SUNY Farmingdale
- SUNY Utica

Contact Information

Applied Technology Department Chair 341-4505 Admissions Office (845) 341-4030

Engineering Science

Degree Awarded: Associate in Science

Recommended Course Sequence

First Seme	Credits		
ENG 101	Freshman English 1	3	
	General Chemistry 1	4	
	Physics for Science & Eng. 1	4	
MAT 205	Calculus 1	4	
EGR 101	Engineering 1	3	
PES 100	Concepts of Physical Wellnes	ss 1	
Second Se	mester		
ENG 102	Freshman English 2	3	
PHY 104	Physics for Science & Eng. 2	4	
CHM 106	General Chemistry 2	4	
MAT 206	Calculus 2	4	
EGR 102	Engineering 23		
PES	Physical Education	1	
Third Sem	ester		
	SUNY Social Science list	3	
PHY 203	Physics for Science & Eng. 3	4	
	Calculus 34		
EGR 205	Mechanics 14		
	Restricted Engineering Electi	ive 3	
Fourth Semester			
	SUNY American History list	t 3	
MAT 214	Differential Equations & Serie	es 4	
EGR 206	Mechanics 2	4	
EGR	Restricted Engineering Election	ive 3	
	Elective	2/3	

Total Credits: 72-73

Program Description

The Associate in Science degree program in Engineering Science is designed specifically to enable students to transfer, with junior status, to the upper-level engineering college or university of their choice, where they can complete the B.S. Degree in Engineering. As such, the program provides the core courses that would be encountered in the first two years of study at most four-year institutions offering engineering degrees in the following disciplines:

- Aeronautical Engineering
- Architectural Engineering
- Biological Engineering
- Chemical Engineering, ChE
- Civil Engineering, CE
- Computer Engineering
- Electrical Engineering, EE
- Environmental Engineering
- Geological Engineering
- Materials Engineering
- Mechanical Engineering, ME

Core courses in calculus, chemistry, engineering physics and engineering science constitute the nucleus of this program for students planning to specialize in one of the above engineering fields at their intended four-year college or university. Selected courses in the liberal arts support and enhance this central core. To begin the program, students must be at the mathematical level of Calculus 1 (MAT 205) or must have completed either College Trigonometry (MAT 108) or Pre-Calculus Mathematics (MAT 109).

Students who do not meet the above requirements should not be discouraged. Many students, who have either missed some foundational courses or who have family/job commitments, opt to take the extended program, which prepares them for Calculus 1 (MAT 205). Although this path will require more than four semesters, it enables students to reach their educational goal and to work as professional engineers in the above-mentioned fields. Students taking the extended option should meet with their advisor to arrange a planned course of study.

The Engineering Science program at SUNY Orange strives to form a student's ability to think critically in real time, to develop a professional work ethic built on cooperation and group problem solving, and to provide the rigorous conceptual and ethical framework required in a field where professional competence is expected.

Degree Awarded: Associate in Science

Admission Criteria

Admission to this program requires that students be high school graduates or have high school equivalency diplomas (GEDs). If students are not high school graduates, they may be eligible for admission to the College's 24 Credit Hour Program. If students are home schooled, they may be eligible for admission. (See pages 7 through 13 for more details on the admission process for all applicants.)

Students must have tested into or completed Calculus 1 (MAT 205) to begin progress toward this degree. If recent high school graduates have concerns about their mathematics preparation they should consider taking Pre-Calculus Mathematics (MAT 109) during the summer before their entrance into the program.

Student Learning Outcomes

Students will:

- demonstrate literacy in the basic mathematical, computational and scientific languages of Engineering Science.
- demonstrate a mastery of communication skills, both written and oral, especially in their applications to Engineering Science.
- demonstrate literacy in a programming language and in computer assisted techniques for engineering design.
- plan, organize and implement laboratory experiments and prepare a formal detailed laboratory report of findings.
- set up and solve Engineering Science problems, using advanced mathematical techniques, with and without computers.
- conduct herself or himself in a professional manner consistent with acceptable standards and ethics.



Career Opportunities

- private sector engineering firms
- research and development opportunities in private and public sector
- engineering positions in city, state or federal agencies
- excellent background for other fields, i.e. law or medicine

Transfer Opportunities

SUNY Orange has special relationships with upper-level colleges and universities for transfer.

These transfer institutions include:

- Clarkson University
- · Manhattan College
- · New Mexico Tech
- Ohio State University
- Penn State University
- Rensselaer Polytechnic University (RPI)
- Stevens Institute of Technology
- SUNY Binghamton
- SUNY Buffalo
- SUNY New Paltz.
- SUNY Stony Brook
- Syracuse University
- University of Colorado
- University of Dayton
- University of Illinois

Contact Information

Science & Engineering Department Chair 341-4571 Admissions Office (845) 341-4030

Exercise Studies

Degree Awarded: Associate in Science

Recommended Course Sequence

First Seme	ester Cree	dits
ENG 101	Freshman English 1	3
	SUNY Social Science list	3
BIO 111	Anatomy & Physiology 1	4
PEM	Skills	1
PED 100	Introduction to Physical Education	2
	Elective*	3
Second Ser	mester	
ENG 102	Freshman English 2	3
	Intermediate Algebra (MAT 102)	
	or higher	3
BIO 112	Anatomy & Physiology 2	4
PEM	Skills	1
PED 201	Introduction to Bio-Mechanics	
	of Human Movement	3
PED 112	Contemporary Health	3
Third Semester		
COM 101	Foundations of Communication	3
BIO 125	Nutrition	3
PEM	Skills	1
PED 150	First Aid	2
PED 202	Basic Exercise Physiology	3
	Restricted SUNY Elective***	3
Fourth Se	mester	
PEM	Skills	1
PED 155	CPR	1
PED 111	Substance Abuse	3
PED 203	Physical Fitness and Exercise	
	Prescription	3
	Restricted History Elective**	3
	Restricted SUNY Elective***	3

Total Credits: 62

Program Description

The Associate in Science degree program in Exercise Studies is designed for students who are interested in professional areas of fitness and exercise specialties in a variety of physical fitness/health promotion programs. This program prepares students to pursue further education and careers in such fields as athletics, medicine, instruction, research and community health. Completing this degree program, students will have built a base knowledge and prepare for transfer to four-year programs including physical education, health and wellness programs, exercise physiology or nutrition.

The theoretical coursework is concentrated in the areas of human movement, exercise physiology, exercise prescription and fitness assessment. These classes give students a broad background in, as well as a practical experience with, the mechanics and physiology of the human body with regard to fitness, health and well-being. The Exercise Studies students complete specific lifetime and sport skills coursework. In addition, students complete coursework in a broad liberal arts education; this work includes study in arts, foreign language, English, history, and sociology.

Admission Criteria

Admission to this program requires that students be high school graduates or have high school equivalency diplomas (GEDs). If students are not high school graduates, they may be eligible for admission to the College's 24 Credit Hour Program. If students are home schooled, they may be eligible for admission. (See pages 7 through 13 for more details on the admission process for all applicants.)

In addition, students must declare themselves exercise studies majors and meet with a Movement Science faculty member to review their career goals and course selections. Once students are accepted, they are required to attend one of the program orientation sessions.

^{*}Students are encouraged to take PED 101 Introduction to Exercise Science

^{**}SUNY American History or Western Civilization or Other/World Civilization

^{***}SUNY Arts or Foreign Languages list not chosen in Restricted History elective above

Degree Awarded: Associate in Science

Student Learning Outcomes

Students will:

- possess a broad educational background which includes humanities, mathematics, social sciences, biological sciences, and technologies to prepare for transfer to a four-year institution for a bachelor's degree in Exercise Science.
- prepare and sit for the national personal trainer and or group fitness instructor exam.
- learn problem solving and critical thinking in context to the world of exercise science.
- design, implement, manage and evaluate health promotion, wellness programs and recreational opportunities.
- demonstrate appropriate skills and abilities for the physical fitness assessment and exercise prescription for apparently healthy individuals and special populations.
- reflect upon their personal experiences in physical activity and improve their own levels of skills and fitness.
- welcome the idea of being "physically educated."



Career Opportunities

- · athletic trainer
- cardiac technician
- coach
- director of recreation
- exercise physiologist
- health instructor
- personal trainer
- physical educator
- · recreational therapist
- strength and conditioning coach
- · sports agent
- sports equipment designer
- weight management specialist
- · wellness coordinator
- cardiopulmonary rehabilitation specialist
- community health director

Transfer Opportunities

SUNY Orange has special relationships with upper-level colleges and universities for transfer.

These transfer institutions include:

- Dominican College
- East Stroudsburg University
- Montclair State University
- · Queens College
- SUNY Brockport
- SUNY Cortland

Contact Information

Movement Science Department Chair 341-4245 Admissions Office (845) 341-4030

Honors Program

Degree Awarded: Associate in Arts, Science or Applied Science

Member of the National Collegiate Honors Council and Regional NCHC

Program Requirements

A.A. Degree

6 credits English (H) ENG 101 and ENG 102 3 credits Honors Social Science 3 credits Honors Humanities MAT 205 Calculus 1 *

Honors Seminar (3 semesters, 1 credit each) ** HON 120 Service Learning (1 cr) freshman year HON 290 Capstone Project (1 cr) last semester

A.S. Degree

6 credits English (H) ENG 101 and ENG 102 6 credits Honors Social Science MAT 205 Calculus 1 * Honors Seminar (3 semesters, 1 credit each) ** HON 120 Service Learning (1 cr) freshman year HON 290 Capstone Project (1 cr) last semester

A.A.S. Degree

6 credits English (H) ENG 101 and ENG 102 6 credits Honors Social Science or 3 credits Honors Social Science and 3 credits Honors Humanities * MAT 205 Calculus 1 * Honors Seminar (3 semesters, 1 credit each) ** HON 120 Service Learning (1 cr) freshman year HON 290 Capstone Project (1 cr) last semester

* May be fulfilled by taking one of the following math courses and one of the following four credit lab science courses, depending upon degree requirements:

Math: MAT 125 Introduction to Statistics

MAT 121 College Algebra

MAT 131 Pre-Calculus

Lab Science: PHY 101 General Physics 1

CHM 105 General Chemistry 1 BIO 101 General Biology 1

** The seminar, service and capstone credits are not part of any degree requirement, but are a requirement for the Honors Program. They are restricted to those students who have been admitted into the program.

Students who already possess a first Honors degree may not seek a second Honors degree should they pursue a second degree at SUNY Orange.

Program Description

The Honors Program was created to offer highly motivated and talented students an opportunity to develop their potential more fully as they study for the associate degree. The honors courses are selected from the areas of: English, social science, arts, communications. humanities, math, biology, movement science and business. Honors sections of these courses follow the Socratic dialogue format and offer enrichment through alternative texts, outside readings, research projects and abstract concept development beyond the traditional course section. Additionally, students complete three Honors seminars, the service course and the capstone project.

The Honors Program is open to both full and parttime degree-seeking students.

Student Learning Outcomes

Students will:

- engage in interdisciplinary academic inquiry
- raise cultural awareness
- strengthen community responsibility
- develop transformational leadership

For expanded student learning outcomes, please visit the Honors web page at www.sunyorange.edu/honors.

Admission Criteria

Admission requirements are for first-time college students, transfers, current SUNY Orange students, GED holders and 24 Credit Hour students.

Applicants who are first-time college students or transfers must follow the regular college admissions process as well as complete the Honors Program Intent form.

Applicants who are current SUNY Orange students, including those presently enrolled in the 24 Credit Hour Program, are required to file an Honors Program Intent Form with the Admissions Office.

All Applicants:

- must take the required College Placement Assessment in English and math and place into Freshman English 1. Those who have taken and passed a college-level English class may obtain an Assessment Waiver. Information is available on the College's web site.
- must provide two letters of recommendation from faculty, counselors, administrators or mentors.

Degree Awarded: Associate in Arts, Science or Applied Science

Additionally:

- 1. First time college students must be graduates of a college prep high school program with at least one of the following: 1) high school average of 90% at the end of junior year; 2) class rank in the top 10% of the class; 3) combined SAT score of 1200 (math + verbal) or 1800 (3 parts); 4) ACT score of 27.
 - Home schooled students and GED holders are welcome to the Honors Program. They must talk with Admissions and the Honors Program Coordinator to discuss eligibility.
- 2. High school seniors with accumulated college credits:
 - a) Between 1 and 11.5 credits must meet the requirements for first time college students and have attained a cumulative average of 3.5 for completed college courses.
 - b) Twelve or more credits must meet transfer student requirements.
- 3. Transfer Students with 12 or more credits must have a GPA of 3.5 and must provide a two- to five-page typed essay to be evaluated as part of the admissions application.

Honors courses taken at other colleges will be accepted toward the SUNY Orange Honors Program, where appropriate, following current transfer course guidelines.

Students may meet an Honors English course requirement with a course previously taken at another college with a grade of "A" in an appropriate transfer English course or a grade of 4 in Advanced Placement English from high school. If AP English, student must also submit the essay component of the AP English exam for evaluation; however, the Honors Program required credits must be made up with other Honors courses, in consultation with the Program Coordinator.

4. Current SUNY Orange Students, including 24 Credit Hour students, must have a GPA of 3.5 and provide an essay to be included with the admissions application for evaluation.

Note: If students have already achieved an "A" in SUNY Orange's Freshman English 1 and/or 2*, the above noted essay and Honors English 1 and/or 2 requirement will be satisfied. Still, the three or six Honors credits must be made up with other Honors courses, in consultation with the Program Coordinator.

* Dependent upon major

Students interested in taking an Honors course who are not in the Honors Program should contact the Honors Program Coordinator.

Transfer Opportunities –

Completion of the Honors program may enhance transfer and scholarship opportunities to more selective colleges and universities and prepare new students for the academic work required for continued pursuit of undergraduate and graduate degrees.

Our students have successfully transferred to many prestigious schools including:

- Emery University
- Rensselear Polytechnic University (RPI)
- Vassar
- American University
- · SUNY Buffalo
- SUNY Binghamton

Requirements for Honors - Designation

In order for students to show the Honors Designation on their transcripts and seal on their diplomas upon graduation, they must have been accepted to and have attained the following in the Honors Program:

- 1. Completion of all degree requirements;
- 2. Achievement of a 3.5 GPA at the time of graduation, with no semester GPA less than 3.0.

Contact Information

Honors Program Coordinator (845) 341-4004 Admissions (845) 341-4030

Human Services

Degree Awarded: Associate in Science

Recommended Course Sequence

First Seme	ester Cre	edits
ENG 101	Freshman English 1	3
	Foundations of Communication	3
PSY 101	General Psychology 1	3 3 3
SOC 120		3
HMS 101	Intro to Human Services	3
PES 100	Concepts of Physical Wellness	1
Second Se	mester	
ENG 102	Freshman English 2	3
	SUNY American History	3 3 3
PSY 102	General Psychology 2	
	SUNY Natural Science	3-4
PHL 220	Ethics	3
PES	Physical Education	1
Third Semester		
	SUNY Other/World	
	Civilizations	3
	SUNY Arts Course	3
SOC 101	Intro to Sociology	3 3 3
MAT 125	Intro to Statistics	
HMS 201	Human Services Field Exp 1	2
ENG 160	Technical Writing	1.5
Fourth Semester		
	SUNY Western Civilization	3
	SUNY Foreign Language	3
SOC 231	Family	3 3 3
PSY	Psychology Elective	3
HMS 202	Human Services Field Exp 2	2
ENG 161		1.5

Total Credits: 63-64

Program Description

The Associate in Science degree program in Human Services prepares graduates to transfer and complete a bachelor's degree in human services, psychology or sociology. Because of the broad liberal arts component, concentration in psychology and sociology with field experiences in at least two human services agencies, the program also prepares the graduate for employment as a direct care worker.

The primary goal of the curriculum is the development of critical thinking and clinical problem solving skills as they relate to populations served by human service agencies. The program offers introductory coursework in human services, psychology and sociology, writing skills directly related to the human services field, and field experiences in at least two human service agencies. Most courses are offered each year, often in the Fall, Spring and Summer semesters. Field Studies in human services are offered each year: Field Studies 1 in the Fall semester, and Field Studies 2 in the Spring. The course of study may be pursued on a part-time basis, daytime or evening. Some courses are available on Saturdays.

This program was developed in support of both the Coalition for Direct Care Providers and the New York State Family Development Training and Credentialing Program goals. Students may seek tuition assistance through the Coalition for Direct Care Providers.

Admission Criteria

Admission to this program requires that students be high school graduates or have high school equivalency diplomas (GEDs). If students are not high school graduates, they may be eligible for admission to the College's 24 Credit Hour Program. If students are home schooled, they may be eligible for admission. (See pages 7 through 13 for more details on the admissions process for all applicants.)

Students may begin taking the required program courses upon completion of all required developmental courses. Students are also required to:

- complete two field placement courses, each requiring 48 hours of observation/interaction in at least two human service settings, with a grade of C or better.
- have an overall C average upon completion of all coursework.

Degree Awarded: Associate in Science

Student Learning Outcomes

Students will:

- develop a portfolio demonstrating application of theory, goals and objectives associated with current direct care positions in the human services field.
- demonstrate appropriate critical thinking and problem solving skills necessary to continue their education toward a four-year degree or seek entry level employment in a human service agency.
- interact with recipients, families and professionals in a manner that demonstrates an appreciation of cultural and socioeconomic diversity.
- demonstrate an awareness of an appreciation of the goals and objectives set forth by the Coalition for Direct Care Providers and New York State Family Training and Credentialing Program (FDC).



Career Opportunities

- In-patient and out-patient mental health and rehabilitation facilities such as AHRC, Occupations Inc., RSS and MHA
- State facilities such as MPC, Mid-Hudson and Crystal Run.
- · social services agencies

Transfer Opportunities

SUNY Orange has special relationships with upper-level colleges and universities for transfer.

These transfer institutions include:

- SUNY four year schools
- other public and private institutions
- transfer agreements are being developed with SUNY New Paltz's Direct Care Program and Mount St. Mary's Human Services Degree Program

Contact Information

Social Sciences Department Chair and Assistant Chair (845) 341-4344 Admissions Office (845) 341-4030

International Studies

Degree Awarded: Associate in Arts

Recommended Course Sequence

First Semester C		dits	
ENG 101	Freshman English 1	3	
	Inter. Algebra (MAT 102) or hig	her3	
HIS 121	World History to 1500 AD	3	
	Language Intermediate 1*	3	
	Emphasis Elective***	3	
PES 100	Concepts of Physical Wellness	1	
Second Se	mester		
ENG 102	Freshman English 2	3	
HIS 122	World History Since 1500AD	3	
-	Language Intermediate 2*	3	
	Social Science Elective (Cat. A)	3	
	Emphasis Elective***	3	
Third Semester			
GEO 102	Human Geography	3	
ENG	Advanced English**	3	
- -	Social Science Elective (Cat. B)	3	
POL 221	International Relations****	3	
	SUNY Natural Science List	3/4	
	Emphasis Elective***	3	
PES	Physical Education	1	
Fourth Semester			
ENG	Advanced English**	3	
POL 220	Comparative Government****	3	
	Math/Lib. Arts/Science Elective	3	
COM 101	Foundations of Communication		
	Emphasis Elective***	3	

Total Credits: 65-66

NOTE: A, B, C and D following social science course titles listed above refer to groupings of courses necessary to meet distribution requirements.

* A student must demonstrate foreign language proficiency through the Intermediate II level by course work and/or examination as per college policy.

Note: The six credit hour humanities requirement for the A.A. degree is met when the student has completed two semesters of study of the same language. Students who need four semesters of foreign language study (12 credits) may apply three of those credits to the liberal arts elective. Students in the Humanities Emphasis may use the other additional 3 credits as part of their Emphasis elective. Students in the Social Sciences or Business Emphasis will have 3 credits beyond the 62/63 credits in order to meet their program requirements.

Program Description

The Associate in Arts degree program in International Studies provides students with a range of studies that emphasize the interconnections among global political, economic, social, and cultural events and processes. As globalization literally makes the world a smaller place, International Studies helps prepare students to take advantage of those changes, both in terms of their personal growth and career opportunities. The degree is designed to prepare students for transfer and continued academic success within a liberal arts setting, especially one dedicated to the study of international and global events. This program also features a solid grounding in liberal arts education.

The curriculum is designed to include a broad range of courses with international themes in the humanities and social sciences. In addition to core courses in the liberal arts common to many programs, International Studies requires students to take classes in foreign languages, international relations, world history and international literature. Through these courses, students will develop critical learning skills, a foundation of knowledge about the international system and the ability to clearly write, analyze and communicate about concepts in the discipline.

Admission Criteria

Admission to this program requires that students be high school graduates or have high school equivalency diplomas (GEDs). If students are not high school graduates, they may be eligible for admission to the College's 24 Credit Hour Program. If students are home schooled, they may be eligible for admission. (See pages 7 through 13 for more details on the admission process for all applicants.)

Social Science Emphasis Electives: Macro-Economics, Micro-Economics, Economic Development, Introduction to Political Science, Comparative Governments, Introduction to Sociology, Human Evolution, Archaeology and Prehistory, Cultural and Social Anthropology, Cultural/ Historical Seminar, Field Studies, International Relations and all history and area studies courses.

Humanities Emphasis Electives: 200-level English, Foreign Language, Philosophy, Religion, Music, Art, Speech or Theater courses.

Business Emphasis Electives: Introduction to International Business (a requirement) plus three others from this group: Financial Accounting, Managerial Accounting, Business Law 1, Principles of Marketing and Principles of Management.

****Either POL 221 (Fall) or POL 220 (Spring) is required, not both.

^{**}Students should choose a 200-level English course which includes literature from a foreign country.

^{***12} hours of social science or 12 hours of humanities or 12 hours of business electives from lists found below, according to the emphasis in the program chosen by the student.

International Studies

Degree Awarded: Associate in Arts

Student Learning Outcomes

Students will:

- develop a foundation of essential knowledge about the cultural, social and natural worlds, and processes contributing to globalization and interdependence.
- understand both the commonalities and diversity of human experiences, values and opinions among and between cultures.
- understand the forms of international artistic expressions and their inherent creative processes.
- think critically, applying systematic reasoning, information management and quantitative skills.
- communicate effectively in English and develop a basis for continued progress in acquiring skills in a language other than English.
- be prepared for transfer to, and success at, upper-level institutions offering programs of study in International Relations.



Career Opportunities

- · language interpreter
- · high school teacher
- international business
- international law
- government or diplomatic work
- export-import work

Transfer Opportunities

SUNY Orange has special relationships with upper-level colleges and universities for transfer.

These transfer institutions include:

- four-year SUNY units
- a variety of public and private four-year colleges with whom articulation agreements are under development

Contact Information

Global Studies Department Chair (845) 341-4828 Admissions Office (845) 341-4030

Degree Awarded: Associate in Arts

Recommended Course Sequence

JRTEP A.A. — B-2 English			
First Seme	ester Cre	dits	
ENG 101	Freshman English 1	3	
COM 101	Foundations of Communication	3	
HIS 101	US History to 1865 or		
HIS 102	US History since 1865	3	
PSY 101	General Psychology 1	3	
MAT 111	Foundations of Elementary		
	School Mathematics	3	
PES 100	Concepts of Physical Wellness	1	
Second Se	mester		
ENG 102	Freshman English 2	3	
PSY 221	Child Psychology	3 3 3	
SOC 120	Social Problems		
	SUNY Natural Science	3/4	
EDU 103	Introduction to Early Childhood	1	
	Childhood Education++	3	
Third Sen	nester		
ENG	Restricted English Elective*	3	
ENG	Restricted English Elective#	3	
ENG	Restricted English Elective**	3	
	Elementary Language 1 or		
	Intermediate Language 1	3	
EDU 201	Observation/Assessment++	3	
PES	Physical Education	1	
Fourth Se	mester		
ENG	Restricted English Elective+	3	
ENG	Restricted English Elective**	3	
GEO 101	Elements of Physical Geography	3	
HIS 121	World History to 1500 or		
	World History since 1500	3	
	SUNY Western Civilization (5)	3	
	Elementary Language 2 or		
EDU 202	Infant/Toddler Development++**	** 3	
	Total Credits: 6	5-66	

Total Credits: 65-66

Program Description

The Associate in Arts degree in this Jointly Registered Teacher Education Program (JRTEP) is primarily for students who plan to transfer to SUNY New Paltz and become certified to teach in New York State in either Early Childhood, Elementary or Secondary Education. Developed by Orange County Community College and SUNY New Paltz, this jointly registered liberal arts/teacher education program has been approved by the New York State Education Department. Students in this program are, at the same time, given priority status for admission consideration into The College at New Paltz. Upon successful completion of the A.A. or A.S. degree at SUNY Orange, with a minimum 2.75 grade point average, students who are accepted will transfer to SUNY New Paltz with full junior standing in order to complete the bachelor's degree.

The primary focus of the JRTEP concentration is to develop and integrate critical thinking, problem solving, and creative skills with information and theories about education. Coupled with a broad general liberal arts foundation, JRTEP students will experience between 10 and 80 hours of observation in local schools and centers. This field work provides excellent practical application opportunities.

Students planning to transfer to other SUNY four-year schools may also benefit from these courses. They should see their advisor.

Admission Criteria

Admission to this program requires that students be high school graduates or have high school equivalency diplomas (GEDs). If students are not high school graduates, they may be eligible for admission to the College's 24 Credit Hour Program. If students are home schooled, they may be eligible for admission. (See pages 7 through 13 for more details on the admission process for all applicants.)

Before beginning their coursework, JRTEP students must choose an age level: birth to second grade (B-2), first to sixth grade (1-6), or seventh to twelfth grade (7-12). These are NYS Teaching Certification age level categories and determine course sequences at SUNY Orange.

Then, students must choose an educational concentration:

- English (available in B-2 or 1-6 or 7-12) OR
- History (available in B-2 or 1-6 or 7-12) OR
- Spanish (available in B-2 or 1-6 or 7-12) OR
- Biology (available in 1-6 or 7-12) OR
- Math (available in 1-6 or 7-12)

^{*} ENG 207 or ENG 208 # ENG 209 or ENG 210

⁺ ENG 211 or ENG 212

^{**}Choose from the following: ENG 120, ENG 203, ENG 204, ENG 205, ENG 206, ENG 211, ENG 212, ENG 215, ENG 216, ENG 217, ENG 220, ENG 221, ENG 222, ENG 223, ENG 225, ENG 226, ENG 230, ENG 297

⁺⁺Local observations beyond college classroom required.

^{***}Spring semester only.

Degree Awarded: Associate in Arts

Student Learning Outcomes

Students will:

- acquire a broad base of knowledge in the academic area of concentration.
- demonstrate developmentally appropriate practices in teaching methodology.
- understand, welcome, and integrate an unbiased appreciation of a classroom population that is diverse in appearance, performance, ability and culture.
- plan effective, relevant, innovative lesson plans adhering to New York State Learning Standards and/or National Association for the Education of Young Children (NAEYC) Standards.
- grow in professional and ethical standards, collaborative teamwork, self-confidence, confidentiality and personal achievement.

Transfer Criteria:

To transfer, SUNY Orange JRTEP students must:

- Meet all entry criteria for SUNY Orange
- Declare their intent to be in JRTEP at or prior to registration for proper advice/courses
- Complete the courses outlined in their academic concentration
- Complete SUNY-mandated General Education Requirements
- Maintain a minimum cumulative GPA of 2.75 (some courses have higher GPA requirements). SUNY New Paltz recommends a GPA of 3.25
- Complete the A.A. or A.S. degree
- Complete separate application and/or procedures for SUNY New Paltz

Note: Because teacher education programs and the New York State Education Department certification regulations are precisely defined, it is essential that JRTEP students work closely with both their SUNY Orange advisor and their New Paltz advisor, who is on the SUNY Orange campus by appointment.

Career Opportunities

- classroom teacher
- positions in related educational fields, such as special education, guidance

Transfer Opportunities

JRTEP is specifically designed to transfer seamlessly to SUNY New Paltz. Other SUNY and non-SUNY schools with teaching preparatory programs may accept all or a large percentage of credits (see transfer criteria below left).

When JRTEP students successfully complete the A.A. or A.S. at SUNY Orange, they may apply for transfer to SUNY New Paltz to complete the bachelor's degree. JRTEP applicants are given priority review and the highly academically prepared student will be accepted first.

Contact Information

Education Department Chair (845) 341-4354 Admissions Office (845) 341-4030

Degree Awarded: Associate in Arts

JRTEP A.A. — B-2 History

First Seme	ester Cred	lits	
ENG 101	Freshman English 1	3	
	Foundations of Communication	3	
HIS 133			
HIS 131	Medieval/Renaissance Europe	3	
PSY 101		3	
MAT 111			
	School Mathematics	3	
PES 100	Concepts of Physical Wellness	1	
Second Se	mester		
ENG 102	Freshman English 2	3	
PSY 221		3	
	SUNY Natural Science	3/4	
EDU 103	Introduction to Early Childhood/		
	Childhood Education++	3	
	SUNY Arts	3	
PES	Physical Education	1	
Third Semester			
ENG	200-Level English	3	
GEO 101	Elements of Physical Geography	3	
HIS 101	US History to 1865	3	
ANT 101	Social/Cultural Anthropology	3 3 3 3 3	
	Foreign Language<	3	
EDU 201	Observation/Assessment++	3	
Fourth Semester			
ENG	200-Level English	3	
HIS 102	US History since 1865	3	
HIS 220	China and Japan or		
HIS 220	India and Southeast Asia	3	
POL 103	US Government National	3 3 3	
	Foreign Language<		
EDU 202			

Total Credits: 68-69

JRTEP A.A. — B-2 Spanish

First Seme	ester	Credits
ENG 101	Freshman English 1	3
COM 101	Foundations of Communicati	ion 3
HIS 101	US History to 1865 or	
HIS 102	US History since 1865	3
PSY 101	General Psychology 1	3 3 3
SPN 201	Intermediate Spanish 1	3
EDU 107	Mandated Training	1
Second Se	mester	
ENG 102	Freshman English 2	3
HIS 123	Latin American Heritage & Hi	
MAT 111	Foundations of Elementary	,
	School Mathematics	3
SPN 202	Intermediate Spanish 2	3 3
EDU 103	Introduction to Early Childho	ood/
	Childhood Education++	3
PES 100	Concepts of Physical Wellness	
Third Sem	nester	Credits
	SUNY Western Civilization	3
PSY 221	Child Psychology	3
	SUNY Natural Science	3/4
<u>SPN 203</u>	Spanish Conversation	
	and Composition	3
EDU 201	Observation and Assessment	
PES	Physical Education	1
Fourth Ser	maatau	
Fourth Sei		
SOC 120	Social Problems	3
	Approved Math (MAT 102	
	or higher) or Science	3/4
SPN 204	Introduction to Spanish Liter	ature 3
EDU 207	Social and Philosophical	
	Foundations of Education	3
EDU 202	Infant/Toddler Development+	++** 3
	SUNY Arts	3

Total Credits: 66-68

< If completed Elementary Language 1, must also complete Elementary Language 2 of the same language. If completed Elementary Language 2, must also complete Intermediate Language 1 of the same language. If completed Intermediate Language 1, no other language need be taken.

⁺⁺Local observations beyond college classroom required.

^{***}Spring semester only.

⁺⁺Local observations beyond college classroom required.

^{***}Spring semester only.

Degree Awarded: Associate in Arts

JRTEP A.A. 1 - 6 English

First Semester ENG 101 Freshman English 1 3 COM 101 Foundations of Communication 3 HIS 101 US History to 1865 or 3 HIS 102 US History since 1865 MAT 111 Foundations of Elementary **School Mathematics** 3 Foreign Language< 3 PES 100 Concepts of Physical Wellness 1 **Second Semester** 3 ENG 102 Freshman English 2 3 PSY 101 General Psychology 1 SUNY Natural Science 3 Foreign Language< 3 EDU 103 Introduction to Early Childhood/ Childhood Education++ 3 PES ____ Physical Education 1 **Third Semester** ENG __ Restricted English Elective* 3 Restricted English Elective# ENG__ 3 **ENG** Restricted English Elective** 3 PSY 221 Child Psychology 3 SOC 120 Social Problems 3 **Fourth Semester** ENG __ Restricted English Elective+ 3 Restricted English Elective** **ENG** 3 GEO 101 Elements of Physical Geography 3 HIS 121 World History to 1500 or HIS 122 World History since 1500 3 SUNY Western Civilization 3

Total Credits: 62-63

JRTEP A.A. — 1-6 History

First Seme	ester	Credits	
ENG 101	Freshman English 1	3	
COM 101	Foundations of Communication	on 3	
HIS 133	Modern Europe	on 3 3 3	
PSY 101	General Psychology 1	3	
MAT 111	Foundations of Elementary		
	School Mathematics	3	
PES 100 C	Concepts of Physical Wellness	1	
Second Se	mester		
ENG 102	Freshman English 2	3	
HIS 131	Medieval/Renaissance Europe	3	
	SUNY Natural Science	3/4	
EDU 103	Introduction to Early Childho	od/	
	Childhood Education	3	
	SUNY Arts	3 3 1	
PES	Physical Education	1	
Third Sem	nester		
ENG	200-Level English	3	
GEO 101	Elements of Physical Geograp	ohy 3 3 3 3 3	
	US History to 1865	3	
ANT 101	Social/Cultural Anthropology	3	
	Foreign Language<	3	
Fourth Semester			
ENG	200-Level Advanced English	3	
HIS 102	US History since 1865	3	
HIS 220	China and Japan or		
HIS 221	India and Southeast Asia	3	
POL 103	US Government National	3	
PSY 221	Child Psychology	3 3 3	
	Foreign Language<	3	

Total Credits: 65-66

^{*}ENG 207 or ENG 208 #ENG 209 or ENG 210 +ENG 211 or ENG 212

^{**}Choose from the following: ENG 120, ENG 203, ENG 204, ENG 205, ENG 206, ENG 211, ENG 212, ENG 215, ENG 216, ENG 217, ENG 220, ENG 221, ENG 222, ENG 223, ENG 225, ENG 226, ENG 230, ENG 297

< If completed Elementary Language 1, must also complete Elementary Language 2 of the same language. If completed Elementary Language 2, must also complete Intermediate Language 1 of the same language. If completed Intermediate Language 1, no other language must be taken. If a student takes Intermediate Language 1 as the first foreign language in this sequence, he or she MUST either take the next level of the same language OR a non-developmental three-credit academic course to replace the credits.

⁺⁺Local observations beyond college classroom required

< If completed Elementary Language 1, must also complete Elementary Language 2 of the same language. If completed Elementary Language 2, must also complete Intermediate Language 1. If completed Intermediate Language 1 of the same language, no other language need be taken.

⁺⁺Local observations beyond college classroom required.

Degree Awarded: Associate in Arts

JRTEP A.A. 1 - 6 Spanish

First Seme	ester Cre	dits
ENG 101	Freshman English 1	3
	Foundations of Communication	3
HIS 101	US History to 1865 or	
HIS 102	US History since 1865	3
MAT 111		
	School Mathematics	3
SPN 201	Intermediate Spanish 1	3
PES 100	Concepts of Physical Wellness	1
Second Se	mester	
ENG 102	Freshman English 2	3
PSY 101	General Psychology 1	3
	SUNY Natural Science	3 3 3
SPN 202	Intermediate Spanish 2	3
EDU 103	Introduction to Early Childhood	/
	Childhood Education++	3
PES	Physical Education	1
Third Sem		
ENG	200-Level English	3
	SUNY Western Civilization	3 3 3
PSY 221	Child Psychology	3
SOC 120	Social Problems	3
SPN 203	Spanish Conversation and	
	Composition	3
Fourth Ser	mester	
ENG	200-Level Advanced English	3
GEO 101	Elements of Physical Geography	3
	Restricted SUNY World	
	Civilization*	3
SPN 204	Introduction to Spanish Literatur	3 re 3
	SUNY Arts	3

Total Credits: 62-63

JRTEP A.A. — 7-12 English

First Seme	ester		
ENG 101	Freshman English	3	
	Foundations of Communication	3	
HIS 101	US History to 1865 or		
HIS 102	US History since 1865	3	
MAT 102	Intermediate Algebra or Higher	3	
	Foreign Language<	3	
EDU 107	Mandated Training	1	
PES 100	Concepts of Physical Wellness	1	
Second Se	mester		
ENG 102	Freshman English 2	3	
	SUNY Arts	3	
PSY 101	General Psychology 1	3	
	SUNY Natural Science	3/4	
	Foreign Language<	3	
PES	Physical Education	1	
Third Sem	ester		
ENG 207	English Literature:		
	14th Through 18th Century	3	
ENG 209			
	To the Civil War	3	
ENG	Restricted English Elective**	3	
	Restricted English Elective**	3 3 3	
	Psychology of Adolescence	3	
	Social and Philosophical		
	Foundations of Education	3	
Fourth Semester			
ENG 208	English Literature:		
	19th and Early 20th Century	3	
ENG 210	American Literature:		
	1865 to Present	3	
ENG	Restricted English Elective**	3 3 3	
	SUNY Western Civilization	3	
	SUNY Other World		
	Civilization	3	
	Approved Math (higher than		
	MAT 102) or Science	3/4	
	<i>'</i>		

Total Credits: 69-71

^{*}HIS 123, HIS 121 or HIS 122

⁺⁺Local observations beyond college classroom required

^{**}Choose from the following: ENG 120, ENG 203, ENG 204, ENG 205, ENG 206, ENG 211, ENG 212, ENG 215, ENG 216, ENG 217, ENG 220, ENG 221, ENG 222, ENG 223, ENG 225, ENG 226, ENG 230, ENG 297

<If completed Elementary Language 1, must also complete Elementary Language 2of the same language. If completed Elementary Language 2, must also complete Intermediate Language 1 of the same language. If completed Intermediate Language 1, no other language need be taken.

Degree Awarded: Associate in Arts

JRTEP A.A.—7-12 Social Studies

First Semester		redits	
ENG 101	Freshman English 1	3	
HIS 101		3	
PSY 101	General Psychology 1	3 3 3	
MAT	Math (higher than MAT 101)		
	SUNY Natural Science	3/4	
EDU 107	Mandated Training	1	
Second Se	mester		
ENG 102	Freshman English 2	3	
COM 101	Foundations of Communication	3 3 3 3	
HIS 102	US History since 1865	3	
PSY 222	Psychology of Adolescence	3	
	SUNY Arts		
PES 100	Concepts of Physical Wellness	1	
Third Sen			
GEO 102	Human Geography	3	
ECO 201	Introduction to Macroeconomic	s 3 pe 3 3	
HIS 131	Medieval and Renaissance Europ	pe 3	
	Foreign Language<	3	
EDU 207	*		
	Foundations of Education	3	
PES	Physical Education	1	
Fourth Semester			
ECO 202		s 3	
HIS	Restricted SUNY Social Science		
POL			
POL		e* 3	
	Approved Math (higher than		
	MAT 102) or Science	3/4	
	Foreign Language<	3	

Total Credits: 66-68

JRTEP A.A. — 7-12 Spanish

ENG 101 Freshman English 1 COM 101 Foundations of Communication 3 HIS 101 US History to 1865 or HIS 102 US History since 1865 3 PSY 101 General Psychology 1 3 SPN 201 Intermediate Spanish 1 3 Second Semester ENG 102 Freshman English 2 3 PSY 222 Psychology of Adolescence 3 SUNY Natural Science 3/4 SPN 202 Intermediate Spanish 2 3 EDU 207 Social and Philosophical Foundations of Education 3 EDU 107 Mandated Training 1 Third Semester ENG Restricted English Elective** 3 SUNY Western Civilization 3 SOC 120 Social Problems 3 MAT 102 Intermediate Algebra or Higher 3 SPN 203 Spanish Conversation and Composition 3 PES 100 Concepts of Physical Wellness 1 Fourth Semester ENG Restricted English Elective** 3 HIS 123 Latin American Heritage &History 3 Approved Math (higher than MAT 102) or Science 3/4 SPN 204 Introduction to Spanish Literature 3 Latin American Heritage &History 3 Latin Suny Arts 3 PES Physical Education 1	First Seme	ester			
COM 101 Foundations of Communication HIS 101 US History to 1865 or HIS 102 US History since 1865 3 PSY 101 General Psychology 1 3 SPN 201 Intermediate Spanish 1 3 Second Semester ENG 102 Freshman English 2 3 PSY 222 Psychology of Adolescence 3 SUNY Natural Science 3/4 SPN 202 Intermediate Spanish 2 3 EDU 207 Social and Philosophical Foundations of Education 3 EDU 107 Mandated Training 1 Third Semester ENG Restricted English Elective** 3 SUNY Western Civilization 3 SOC 120 Social Problems 3 MAT 102 Intermediate Algebra or Higher 3 SPN 203 Spanish Conversation and Composition 3 PES 100 Concepts of Physical Wellness 1 Fourth Semester ENG Restricted English Elective** 3 HIS 123 Latin American Heritage & History 3 Approved Math (higher than MAT 102) or Science 3/4 SPN 204 Introduction to Spanish Literature 3 SUNY Arts 3	ENG 101	Freshman English 1	3		
HIS 102 US History since 1865 3 PSY 101 General Psychology 1 3 SPN 201 Intermediate Spanish 1 3 Second Semester ENG 102 Freshman English 2 3 PSY 222 Psychology of Adolescence 3 SUNY Natural Science 3/4 SPN 202 Intermediate Spanish 2 3 EDU 207 Social and Philosophical Foundations of Education 3 EDU 107 Mandated Training 1 Third Semester ENG Restricted English Elective** 3 SUNY Western Civilization 3 SOC 120 Social Problems 3 MAT 102 Intermediate Algebra or Higher 3 SPN 203 Spanish Conversation and Composition 3 PES 100 Concepts of Physical Wellness 1 Fourth Semester ENG Restricted English Elective** 3 HIS 123 Latin American Heritage & History 3 Approved Math (higher than MAT 102) or Science 3/4 SPN 204 Introduction to Spanish Literature 3 SUNY Arts 3			3		
PSY 101 General Psychology 1 SPN 201 Intermediate Spanish 1 Second Semester ENG 102 Freshman English 2 PSY 222 Psychology of Adolescence SUNY Natural Science SUNY Social and Philosophical Foundations of Education Foundations of Education SUNY Mandated Training SUNY Western Civilization SUNY Western Civilization SUNY Western Civilization SUNY Western Civilization SUNY Untermediate Algebra or Higher SPN 203 Spanish Conversation and Composition SUNY Semester SUNY Approved Math (higher than MAT 102) or Science SUNY Arts SUNY Arts	HIS 101	US History to 1865 or			
PSY 101 General Psychology 1 SPN 201 Intermediate Spanish 1 Second Semester ENG 102 Freshman English 2 PSY 222 Psychology of Adolescence SUNY Natural Science SUNY Social and Philosophical Foundations of Education Foundations of Education SUNY Mandated Training Third Semester ENG Restricted English Elective** SUNY Western Civilization SOC 120 Social Problems SUNY Western Civilization SOC 120 Social Problems SPN 203 Spanish Conversation and Composition SPES 100 Concepts of Physical Wellness Tourth Semester ENG Restricted English Elective** SPN 203 Latin American Heritage & History Approved Math (higher than MAT 102) or Science SPN 204 Introduction to Spanish Literature 3 SUNY Arts SUNY Arts	HIS 102	US History since 1865	3		
Second Semester ENG 102 Freshman English 2 3 PSY 222 Psychology of Adolescence 3 SUNY Natural Science 3/4 SPN 202 Intermediate Spanish 2 3 EDU 207 Social and Philosophical Foundations of Education 3 EDU 107 Mandated Training 1 Third Semester ENG Restricted English Elective** 3 SUNY Western Civilization 3 SOC 120 Social Problems 3 MAT 102 Intermediate Algebra or Higher 3 SPN 203 Spanish Conversation and Composition 3 PES 100 Concepts of Physical Wellness 1 Fourth Semester ENG Restricted English Elective** 3 HIS 123 Latin American Heritage & History 3 Approved Math (higher than MAT 102) or Science 3/4 SPN 204 Introduction to Spanish Literature 3 SUNY Arts 3	PSY 101		3		
PSY 222 Psychology of Adolescence 3 PSY 222 Psychology of Adolescence 3 SUNY Natural Science 3/4 SPN 202 Intermediate Spanish 2 3 EDU 207 Social and Philosophical Foundations of Education 3 EDU 107 Mandated Training 1 Third Semester ENG Restricted English Elective** 3 SUNY Western Civilization 3 SOC 120 Social Problems 3 MAT 102 Intermediate Algebra or Higher 3 SPN 203 Spanish Conversation and Composition 3 PES 100 Concepts of Physical Wellness 1 Fourth Semester ENG Restricted English Elective** 3 HIS 123 Latin American Heritage & History 3 Approved Math (higher than MAT 102) or Science 3/4 SPN 204 Introduction to Spanish Literature 3 SUNY Arts 3	SPN 201		3		
PSY 222 Psychology of Adolescence 3 SUNY Natural Science 3/4 SPN 202 Intermediate Spanish 2 3 EDU 207 Social and Philosophical Foundations of Education 3 EDU 107 Mandated Training 1 Third Semester ENG Restricted English Elective** 3 SUNY Western Civilization 3 SOC 120 Social Problems 3 MAT 102 Intermediate Algebra or Higher 3 SPN 203 Spanish Conversation and Composition 3 PES 100 Concepts of Physical Wellness 1 Fourth Semester ENG Restricted English Elective** 3 HIS 123 Latin American Heritage & History 3 Approved Math (higher than MAT 102) or Science 3/4 SPN 204 Introduction to Spanish Literature 3 SUNY Arts 3	Second Se	mester			
SUNY Natural Science 3/4 SPN 202 Intermediate Spanish 2 3 EDU 207 Social and Philosophical Foundations of Education 3 EDU 107 Mandated Training 1 Third Semester ENG Restricted English Elective** 3 SUNY Western Civilization 3 SOC 120 Social Problems 3 MAT 102 Intermediate Algebra or Higher 3 SPN 203 Spanish Conversation and Composition 3 PES 100 Concepts of Physical Wellness 1 Fourth Semester ENG Restricted English Elective** 3 HIS 123 Latin American Heritage & History 3 Approved Math (higher than MAT 102) or Science 3/4 SPN 204 Introduction to Spanish Literature 3 SUNY Arts 3	ENG 102	Freshman English 2			
SPN 202 Intermediate Spanish 2 3 EDU 207 Social and Philosophical Foundations of Education 3 EDU 107 Mandated Training 1 Third Semester ENG Restricted English Elective** 3 SUNY Western Civilization 3 SOC 120 Social Problems 3 MAT 102 Intermediate Algebra or Higher 3 SPN 203 Spanish Conversation and Composition 3 PES 100 Concepts of Physical Wellness 1 Fourth Semester ENG Restricted English Elective** 3 HIS 123 Latin American Heritage & History 3 Approved Math (higher than MAT 102) or Science 3/4 SPN 204 Introduction to Spanish Literature 3 SUNY Arts 3			3		
EDU 207 Social and Philosophical Foundations of Education 3 EDU 107 Mandated Training 1 Third Semester ENG Restricted English Elective** 3 SUNY Western Civilization 3 SOC 120 Social Problems 3 MAT 102 Intermediate Algebra or Higher 3 SPN 203 Spanish Conversation and Composition 3 PES 100 Concepts of Physical Wellness 1 Fourth Semester ENG Restricted English Elective** 3 HIS 123 Latin American Heritage &History 3 Approved Math (higher than MAT 102) or Science 3/4 SPN 204 Introduction to Spanish Literature 3 SUNY Arts 3		SUNY Natural Science	3/4		
EDU 207 Social and Philosophical Foundations of Education 3 EDU 107 Mandated Training 1 Third Semester ENG Restricted English Elective** 3 SUNY Western Civilization 3 SOC 120 Social Problems 3 MAT 102 Intermediate Algebra or Higher 3 SPN 203 Spanish Conversation and Composition 3 PES 100 Concepts of Physical Wellness 1 Fourth Semester ENG Restricted English Elective** 3 HIS 123 Latin American Heritage &History 3 Approved Math (higher than MAT 102) or Science 3/4 SPN 204 Introduction to Spanish Literature 3 SUNY Arts 3	SPN 202	Intermediate Spanish 2	3		
Foundations of Education 3 EDU 107 Mandated Training 1 Third Semester ENG Restricted English Elective** 3 SUNY Western Civilization 3 SOC 120 Social Problems 3 MAT 102 Intermediate Algebra or Higher 3 SPN 203 Spanish Conversation and Composition 3 PES 100 Concepts of Physical Wellness 1 Fourth Semester ENG Restricted English Elective** 3 HIS 123 Latin American Heritage &History 3 Approved Math (higher than MAT 102) or Science 3/4 SPN 204 Introduction to Spanish Literature 3 SUNY Arts 3	EDU 207	Social and Philosophical			
Third Semester ENG Restricted English Elective** 3 SUNY Western Civilization 3 SOC 120 Social Problems 3 MAT 102 Intermediate Algebra or Higher 3 SPN 203 Spanish Conversation and Composition 3 PES 100 Concepts of Physical Wellness 1 Fourth Semester ENG Restricted English Elective** 3 HIS 123 Latin American Heritage & History 3 Approved Math (higher than MAT 102) or Science 3/4 SPN 204 Introduction to Spanish Literature 3 SUNY Arts 3			3		
ENG Restricted English Elective** 3 SUNY Western Civilization 3 SOC 120 Social Problems 3 MAT 102 Intermediate Algebra or Higher 3 SPN 203 Spanish Conversation and Composition 3 PES 100 Concepts of Physical Wellness 1 Fourth Semester ENG Restricted English Elective** 3 HIS 123 Latin American Heritage & History 3 Approved Math (higher than MAT 102) or Science 3/4 SPN 204 Introduction to Spanish Literature 3 SUNY Arts 3	EDU 107	Mandated Training	1		
SUNY Western Civilization 3 SOC 120 Social Problems 3 MAT 102 Intermediate Algebra or Higher 3 SPN 203 Spanish Conversation and Composition 3 PES 100 Concepts of Physical Wellness 1 Fourth Semester ENG Restricted English Elective** 3 HIS 123 Latin American Heritage & History 3 Approved Math (higher than MAT 102) or Science 3/4 SPN 204 Introduction to Spanish Literature 3 SUNY Arts 3	Third Sen	nester			
SUNY Western Civilization 3 SOC 120 Social Problems 3 MAT 102 Intermediate Algebra or Higher 3 SPN 203 Spanish Conversation and Composition 3 PES 100 Concepts of Physical Wellness 1 Fourth Semester ENG Restricted English Elective** 3 HIS 123 Latin American Heritage & History 3 Approved Math (higher than MAT 102) or Science 3/4 SPN 204 Introduction to Spanish Literature 3 SUNY Arts 3	ENG	Restricted English Elective**	3		
SPN 203 Spanish Conversation and Composition 3 PES 100 Concepts of Physical Wellness 1 Fourth Semester ENG Restricted English Elective** 3 HIS 123 Latin American Heritage & History 3 Approved Math (higher than MAT 102) or Science 3/4 SPN 204 Introduction to Spanish Literature 3 SUNY Arts 3			3		
SPN 203 Spanish Conversation and Composition 3 PES 100 Concepts of Physical Wellness 1 Fourth Semester ENG Restricted English Elective** 3 HIS 123 Latin American Heritage & History 3 Approved Math (higher than MAT 102) or Science 3/4 SPN 204 Introduction to Spanish Literature 3 SUNY Arts 3	SOC 120	Social Problems	3		
SPN 203 Spanish Conversation and Composition 3 PES 100 Concepts of Physical Wellness 1 Fourth Semester ENG Restricted English Elective** 3 HIS 123 Latin American Heritage &History 3 Approved Math (higher than MAT 102) or Science 3/4 SPN 204 Introduction to Spanish Literature 3 SUNY Arts 3	MAT 102	Intermediate Algebra or Higher	3		
PES 100 Concepts of Physical Wellness 1 Fourth Semester ENG Restricted English Elective** 3 HIS 123 Latin American Heritage & History 3 Approved Math (higher than MAT 102) or Science 3/4 SPN 204 Introduction to Spanish Literature 3 SUNY Arts 3	SPN 203				
PES 100 Concepts of Physical Wellness 1 Fourth Semester ENG Restricted English Elective** 3 HIS 123 Latin American Heritage &History 3 Approved Math (higher than MAT 102) or Science 3/4 SPN 204 Introduction to Spanish Literature 3 SUNY Arts 3		Composition	3		
ENG Restricted English Elective** 3 HIS 123 Latin American Heritage & History 3 Approved Math (higher than MAT 102) or Science 3/4 SPN 204 Introduction to Spanish Literature 3 SUNY Arts 3	PES 100	Concepts of Physical Wellness			
HIS 123 Latin American Heritage & History 3 Approved Math (higher than MAT 102) or Science 3/4 SPN 204 Introduction to Spanish Literature 3 SUNY Arts 3	Fourth Sea	Fourth Semester			
HIS 123 Latin American Heritage & History 3 Approved Math (higher than MAT 102) or Science 3/4 SPN 204 Introduction to Spanish Literature 3 SUNY Arts 3	ENG	Restricted English Elective**	3		
Approved Math (higher than MAT 102) or Science 3/4 SPN 204 Introduction to Spanish Literature 3 SUNY Arts 3	HIS 123		3		
SPN 204 Introduction to Spanish Literature 3 SUNY Arts 3		Approved Math (higher than			
SUNY Arts 3					
	SPN 204				
PES Physical Education 1			3		
	PES	Physical Education	1		

Total Credits: 63-65

^{*} Choose from the following: POL 102, POL 103, POL 221

^{**}Choose from the following: HIS 123, HIS 221, HIS 222

<If completed Elementary Language 1, must also complete Elementary Language 2 of the same language. If completed Elementary Language 2, must also complete Intermediate Language 1 of the same language. If completed Intermediate Language 1, no other language need be taken.

^{**}Choose from the following: ENG 203, ENG 204, ENG 205, ENG 206, ENG 211, ENG 212, ENG 215, ENG 216, ENG 217, ENG 220, ENG 221, ENG 222, ENG 223, ENG 225, ENG 226, ENG 230, ENG 297

Degree Awarded: Associate in Science

Recommended Course Sequence

JRTEP A.S. — 1-6 Biology

First Seme	ester Cred	lits	
	Freshman English 1	3	
PSY 101		3	
BIO 101	General Biology 1	4	
	College Algebra or Higher	3	
	Restricted SUNY Elective*	3	
PES 100	Concepts of Physical Wellness	1	
Second Se	mester		
ENG 102	Freshman English 2	3	
PSY 221		3	
BIO 102	General Biology 2	4	
MAT 111	Foundations of Elementary		
	School Mathematics	3	
	Restricted SUNY Elective*	3	
Third Sem	nester		
BIO 201	Genetics	4	
BIO	Approved Biology Elective+	3	
	Foreign Language<	3	
EDU 103	Introduction to Early Childhood/		
	Childhood Education++	3	
	Restricted SUNY Elective*	3	
Fourth Semester			
COM 101	Foundations of Communication	3	
GEO 101	Elements of Physical Geography	3	
BIO 202	Comparative Vertebrate Anatomy	4	
	Foreign Language<	3	
	Restricted SUNY Elective*	3	
PES	Physical Education	1	

Total Credits: 66

- * Student must take one course from each of the following SUNY General Education Requirements: American History (Category 4); Western Civilization (Category 5); Other/World Civilizations (Category 6); and Arts (Category 8)
- + BIO 146, BIO 148 or BIO 143
- < If completed Elementary Language 1, must also complete Elementary Language 2 of the same language. If completed Elementary Language 2, must also complete Intermediate Language 1 of the same language. If completed Intermediate Language 1, no other language need be taken.
- ++Local observations beyond college classroom required.

Program Description

The Associate in Science degree in this Jointly Registered Teacher Education program (JRTEP) is primarily for students who plan to transfer to SUNY New Paltz and become certified to teach in New York State in either early childhood, elementary or secondary education. Upon successful completion of the A.S. degree at SUNY Orange, with a minimum 2.75 grade point average, students who are accepted will transfer to SUNY New Paltz to complete the bachelor's degree.

The primary focus of the JRTEP concentration is to develop and integrate critical thinking, problem solving, and creative skills with information and theories about education. Coupled with a broad general liberal arts foundation, JRTEP students will experience between 10 and 80 hours of observation in local schools and centers. This field work provides excellent practical application opportunities.

Students planning to transfer to other SUNY four-year schools may also benefit from these courses. They should see their advisor. SUNY Orange students are, at the same time, given priority status for admission consideration into The College at New Paltz.

Admission Criteria

Admission to this program requires that students be high school graduates or have high school equivalency diplomas (GEDs). If students are not high school graduates, they may be eligible for admission to the College's 24 Credit Hour Program. If students are home schooled, they may be eligible for admission. (See pages 7 through 13 for more details on the admission process for all applicants.)

Department-Specific Requirements:

Before beginning their coursework, JRTEP students must choose an age level: birth to second grade (B-2), first to sixth grade (1-6), or seventh to twelfth grade (7-12). These are NYS Teaching Certification age level categories and determine course sequences at SUNY Orange.

Then, students must choose an educational concentration:

- English (available in B-2 or 1-6 or 7-12) OR
- History (available in B-2 or 1-6 or 7-12) OR
- Spanish (available in B-2 or 1-6 or 7-12) OR
- Biology (available in 1-6 or 7-12) OR
- Math (available in 1-6 or 7-12)

Degree Awarded: Associate in Science

Student Learning Outcomes

Students will:

- acquire a broad base of knowledge in liberal arts.
- acquire and develop technological skills and/or laboratory skills.
- demonstrate an understanding of the scientific method: observation, hypothesis development, measurement and data collection, evaluation of data, mathematical analysis of data, and the ability to draw conclusions.
- acquire a broad base of knowledge in the academic area of concentration.
- demonstrate developmentally appropriate practices in teaching methodology.
- understand, welcome and integrate an unbiased appreciation of a classroom population that is diverse in appearance, performance, ability and culture.
- plan effective, relevant, innovative lesson plans adhering to New York State Learning Standards.
- grow in professional and ethical standards, collaborative teamwork, self-confidence, confidentiality and personal achievement.

Transfer Criteria:

To transfer, SUNY Orange JRTEP students must:

- meet all entry criteria for SUNY Orange.
- declare their intent to be in JRTEP at or prior to registration for proper advice/courses.
- complete the courses outlined in their academic concentration.
- complete SUNY-mandated General Education Requirements.
- maintain a minimum cumulative GPA of 2.75 (some courses have higher GPA requirements); SUNY New Paltz recommends a GPA of 3.25.
- complete the A.A. or A.S. degree.
- complete separate application and/or procedures for SUNY New Paltz.

Note: Because teacher education programs and the New York State Education Department certification regulations are precisely defined, it is essential that JRTEP students work closely with both their SUNY Orange advisor and their New Paltz advisor, who is on the SUNY Orange campus by appointment.

Career Opportunities

- public school classroom teacher (pre-K through grade 12)
- related education positons, such as school psychologist, special education teacher, and guidance counselor

Transfer Opportunities

JRTEP is specifically designed to transfer seamlessly to SUNY New Paltz. Other SUNY and non-SUNY schools with teaching preparatory programs may accept all or a large percentage of credits (see transfer criteria below left).

When JRTEP students successfully complete the A.A. or A.S. at SUNY Orange, they may apply for transfer to SUNY New Paltz to complete the bachelor's degree. JRTEP applicants are given priority review, and the highly academically prepared student will be accepted first.

Contact Information

Education Department Chair (845) 341-4354 Admissions Office (845) 341-4030

Degree Awarded: Associate in Science

JRTEP A.S. — 1-6 Math

First Seme	ester Cred	lits	
ENG 101	Freshman English 1	3	
COM 101	Foundations of Communication	3	
GEO 101	Physical Geography	3	
PSY 101	General Psychology 1	3	
MAT 205	Calculus 1	4	
	Foreign Language<	3	
Second Se	mester		
ENG 102	Freshman English 2	3	
PSY 221	Child Psychology	3	
MAT 206	Calculus 2	4	
	Foreign Language<	3	
EDU 103	Introduction to Early Childhood	1	
	Childhood Education++	3	
PES 100	Concepts of Physical Wellness	1	
Third Sem	ester		
PHY 101	General Physics 1	4	
MAT 125	Introduction to Statistics	3	
CSC 101	*	4	
	Restricted SUNY Elective*	3	
	Restricted SUNY Elective*	3	
PES	Physical Education	1	
Fourth Ser	Fourth Semester		
	Restricted SUNY Elective*	3	
	Restricted SUNY Elective*	3	
PHY 102	General Physics 2	4	
CSC 102	Computer Science 2 or		
CSC 130	Computers and Computing	3/4	
MAT 111	Foundations of Elementary		
	School Mathematics	3	

Total Credits: 70-71

JRTEP A.S. —7-12 Biology

First Semester		dits
ENG 101	Freshman English	3
	SUNY Gen Ed Elective*	3
PSY 101	General Psychology 1	3
	General Biology 1	4
MAT 205	Calculus 1	4
PES 100	Concepts of Physical Wellness	1
Second Se	mester	
ENG 102	Freshman English 2	3
	SUNY Gen Ed Elective*	3
PSY 222	Psychology of Adolescence	3
BIO 102	General Biology 2	4
CHM 105	General Chemistry 1	4
EDU 107	Mandated Training	1
Third Sem	ester	
	SUNY Gen Ed Elective*	3
BIO 201	Genetics	4
CHM 106	General Chemistry 2	4
	Foreign Language<	3
EDU 207	Social and Philosophical	
	Foundations of Education	3
Fourth Semester		
COM 101	Foundations of Communication	3
BIO 202	Comparative Vertebrate Anatom	ny 4
MAT 125	Introduction to Statistics	3
	Foreign Language<	3
PES	Physical Education	1
	SUNY Arts	3

Total Credits: 70

^{*} Students must take one course from each of the following SUNY General Education Requirements: American History (Category 4); Western Civilization (Category 5); Other/World Civilizations (Category 6); Arts (Category 8)

< If completed Elementary Language 1, must also complete Elementary Language 2 of the same language. If completed Elementary Language 2, must also complete Intermediate Language 1 of the same language. If completed Intermediate Language 1, no other language need be taken.

⁺⁺Local observations beyond college classroom required.

^{*} Students must take one course from each of the following SUNY General Education Requirements: American History (Category 4); Western Civilization (Category 5); Other/World Civilizations (Category 6)

< If completed Elementary Language 1, must also complete Elementary Language 2 of the same language. If completed Elementary Language 2, must also complete Intermediate Language 1 of the same language. If completed Intermediate Language 1, no other language need be taken.

Degree Awarded: Associate in Science

<u>JRTEP A.S. — 7-12 Math</u>

First Semester		
ENG 101	Freshman English 1	3
COM 101	Foundations of Communication	3
PSY 101	General Psychology 1	3
MAT 205	Calculus 1	4
	Foreign Language<	3
EDU 107	Mandated Training	1
Second Se	mester	
ENG 102	Freshman English 2	3
	Psychology of Adolescence	3
MAT 206	Calculus 2	4
	Foreign Language<	3
EDU 207	Social and Philosophical	
	Foundations of Education	3
PES 100	Concepts of Physical Wellness	1
Third Semester		
Third Sen	nester	
Third Sem	nester SUNY Gen Ed Elective*	3
		3 4
PHY 105	SUNY Gen Ed Elective*	
PHY 105 MAT 211	SUNY Gen Ed Elective* General Physics 1 with Calculus	4
PHY 105 MAT 211	SUNY Gen Ed Elective* General Physics 1 with Calculus Linear Algebra	4 3
PHY 105 MAT 211	SUNY Gen Ed Elective* General Physics 1 with Calculus Linear Algebra Calculus 3 SUNY Arts	4 3 4
PHY 105 MAT 211 MAT 207	SUNY Gen Ed Elective* General Physics 1 with Calculus Linear Algebra Calculus 3 SUNY Arts	4 3 4
PHY 105 MAT 211 MAT 207	SUNY Gen Ed Elective* General Physics 1 with Calculus Linear Algebra Calculus 3 SUNY Arts mester	4 3 4
PHY 105 MAT 211 MAT 207	SUNY Gen Ed Elective* General Physics 1 with Calculus Linear Algebra Calculus 3 SUNY Arts mester Pre-Approved Science or Math	4 3 4 3
PHY 105 MAT 211 MAT 207	SUNY Gen Ed Elective* General Physics 1 with Calculus Linear Algebra Calculus 3 SUNY Arts mester Pre-Approved Science or Math Elective	4 3 4 3
PHY 105 MAT 211 MAT 207 ————————————————————————————————————	SUNY Gen Ed Elective* General Physics 1 with Calculus Linear Algebra Calculus 3 SUNY Arts mester Pre-Approved Science or Math Elective SUNY Gen Ed Elective*	4 3 4 3 4 3
PHY 105 MAT 211 MAT 207 ————————————————————————————————————	SUNY Gen Ed Elective* General Physics 1 with Calculus Linear Algebra Calculus 3 SUNY Arts mester Pre-Approved Science or Math Elective SUNY Gen Ed Elective* SUNY Gen Ed Elective* General Physics 2 with Calculus	4 3 4 3 4 3 3
PHY 105 MAT 211 MAT 207 Fourth Ser	SUNY Gen Ed Elective* General Physics 1 with Calculus Linear Algebra Calculus 3 SUNY Arts mester Pre-Approved Science or Math Elective SUNY Gen Ed Elective* SUNY Gen Ed Elective* General Physics 2 with Calculus	4 3 4 3 4 3 4 3

Total Credits: 69

^{*} Students must take one course from each of the following SUNY General Education Requirements: American History (Category 4); Western Civilization (Category 5); Other/World Civilizations (Category 6)

< If completed Elementary Language 1, must also complete Elementary Language 2 of the same language. If completed Elementary Language 2, must also complete Intermediate Language 1 of the same language. If completed Intermediate Language 1, no other language need be taken.

Law Enforcement/Security

Degree Awarded: Certificate

Recommended Course Sequence

First Semester	Credits
CRJ 101 Criminal Justice	3
CRJ 211 Criminal Law	3
CRJ 106 Patrol Administration	3
CRJ 107 Industrial & Private Security	3
CRJ 215 Criminal Investigation 1	3
Second Semester	
POL 102 U. S. Gov't-State & Local	3
SOC 120 Social Problems	3
CRJ 105 Police-Community Relations	3
CRJ 111 Criminology	3
CRJ 216 Criminal Investigation 2	3

Total Credits: 30

Program Description

The Law Enforcement/Security certificate program is designed for students who are interested in a career in law enforcement or industrial security. The program provides an analysis of the close relationship between the public and private sector and their importance in providing a secure and safe environment for our citizens. The program emphasizes the methods, procedures and techniques that are utilized in the area of private security and current security-related issues such as loss prevention, disaster preparation, business continuity and homeland security. The program provides the student with an in-depth knowledge of police-related issues such as criminal law, patrol operations and criminal investigations.

Students who complete this program will be certified to seek employment as security officers with local or state security agencies.

Admissions Requirements

Admission to this program requires that students be high school graduates or have high school equivalency diplomas (GEDs). If students are not high school graduates, they may be eligible for admission to the College's 24 Credit Hour Program. If students are home schooled, they may be eligible for admission. (See pages 7 through 13 for more details on the admission process for all applicants.)

Degree Awarded: Certificate

Student Learning Outcomes

Students will:

- identify and assess current issues in security and security management.
- be able to identify relevant issues of constitutional, procedural, and substantive law and their impact on security systems.
- be able to understand the importance of crime scene protection and be able to demonstrate the proper methods of gathering and presenting evidence properly.
- provide specific courses which meet New York State requirements for certification as a security officer.



Career Opportunities

- uniformed security officer
- plainclothes security officer
- loss prevention analyst
- · risk analyst
- hotel security
- industrial security
- · executive protection

Transfer Opportunities

Although this is a certificate program designed for immediate entry into the workplace, credits can be applied to further college study.

Consult a department advisor for more information.

Contact Information

Criminal Justice Department Chair (845) 341-4355 Admissions Office (845) 341-4030

Liberal Arts: Humanities and Social Science

Degree Awarded: Associate in Arts

Recommended Course Sequence

First Seme	ester Cre	edits
ENG 101	Freshman English 1	3
	Intermediate Algebra (MAT 102) or	•
	higher	3/4
	Social Science (Cat. A)*	3
COM 101	Foundations of Communication	3
	Liberal Arts Elective	3
PES 100	Concepts of Physical Wellness	1
Second Se	mester	
ENG 102	Freshman English 2	3
	SUNY Natural Science list	3/4
	Social Science (Cat. B)	3
	Restricted SUNY Elective**	3
	Liberal Arts elective	3
PES	Physical Education	1
Third Sem	nester	
ENG	200-level Advanced English	3
	Math/Science***	3/4
	Social Science (Cat. C)	3
	Liberal Arts elective	3
	SUNY Arts list	3
Fourth Se	mester	
ENG	200-level Advanced English	3
	Social Science (Cat D)	3
	Elective	3
	Elective	3
	Elective	3

Total Credits: 62-65

Program Description

At Orange County Community College, areas of study under the Associate in Arts degree span a wide range of academic interests. Typically, these areas include specific studies in the social sciences, humanities, communication, education, the arts, and criminal justice. For more specific information, consult the individual Associate in Arts program descriptions within this catalog. Students should also meet regularly with their advisors to determine the best course of study for their particular area of interest.

In addition to taking courses in their particular area of interest, students are required to successfully complete a number of General Education courses as mandated by the State University of New York. These General Education areas include: math, natural sciences, social sciences, American history, western civilization, world civilizations, humanities, the arts, foreign language and communication.

Admission Criteria

Admission to this program requires that students be high school graduates or have high school equivalency diplomas (GEDs). If students are not high school graduates, they may be eligible for admission to the College's 24 Credit Hour Program. If students are home schooled, they may be eligible for admission. (See pages 7 through 13 for more details on the admission process for all applicants.)

^{*}Categories A-D must include a SUNY History and a SUNY Social Science.

^{**}SUNY Humanities list or Foreign Language list-Elementary II level or above.

^{***} MAT 102 or higher. Lab science not required.

Liberal Arts: Humanities and Social Science

Degree Awarded: Associate in Arts

Student Learning Outcomes

Students will:

- develop a foundation of essential knowledge about the cultural, social, and natural worlds, and individual well-being.
- understand the commonalities and diversity of the human experience, values and opinions.
- understand the forms of artistic expression and their inherent creative processes.
- think critically, apply systematic reasoning and develop information management quantitative skills.
- communicate effectively.
- be prepared to transfer to, and succeed, at an upper-level institution.



Career Opportunities

The Associate in Arts degree program serves as a foundation for students who will complete their bachelor's degree at a four- year institution. They may then pursue careers in a number of areas, including:

- · the social sciences
- the arts
- · the humanities
- education and communication In addition, successful completion of a bachelor's degree can also lead to continued study on the graduate level. For a more complete list of career opportunities, consult the individual Associate in Arts program descriptions in this catalog.

Transfer Opportunities

SUNY Orange has special relationships with upper-level colleges and universities for transfer.

These transfer institutions include:

- four-year institutions in the State University of New York (SUNY) system
- private NYS and national four-year institutions

To provide for a smooth transfer, students should consult with both their academic advisors and the potential transfer institutions for academic course selection and guidance as soon as possible.

Contact Information

Advising and Counseling Center (845) 341-4070 Admissions Office (845) 341-4030

Liberal Arts: Individual Studies

Degree Awarded: Associate in Science

Recommended Course Sequence

First Seme	ester Cre	dits
ENG 101	Freshman English 1	3
ENG 101	Restricted SUNY Elective*	3
MAT		3
1417 11	Math or Higher	3
	Restricted SUNY History**	3
COM 101		
PES 100	Concepts of Physical Wellness	1
Second Se		
ENG 102	Freshman English 2	3
	SUNY Humanities	3
	SUNY Natural Science	3/4
	SUNY Social Science	3
	Concentration	3
	Physical Education	1
Third Sem	nester	
	Math/Science Elective***	3/4
	SUNY Social Science	3
	Concentration	3
	Concentration	3 3 3
	Concentration	3
Fourth Semester		
	Concentration	3
	Concentration	3
	Restricted SUNY Elective****	3 3 3
	Elective	3
	Elective	3

Total: 62-64

Program Description

The Associate in Science degree program in Individual Studies is a transfer degree program designed for those students whose goals are not adequately addressed by one of the College's other programs. Its purpose is to allow students to shape a program to meet their individual needs.

The program is divided into three components: core requirements, concentration area and electives. Core requirements are intended to provide students with a firm general education foundation through exposure to the three traditional areas of liberal arts study—humanities, social science and sciences—and development of communication and computational skills. The concentration area is comprised of course work reflecting the individual's educational objectives. The elective component provides the student with the flexibility to build upon the special area of study.

Admission Criteria

Prior to the sophomore year (30 credits), the student is required to submit an Individual Studies Program Plan. This form, available in the Advising and Counseling Center, requires a 250 word statement of the student's educational, transfer and career objectives. Based on these objectives, the student and advisor will select the courses to fulfill the concentration and elective component of the degree. The Program Plan will then be submitted to the appropriate Associate Vice President in Academic Affairs. On approval of the plan, a faculty advisor whose academic background is appropriate to the student's area of concentration will be assigned to assist in the next phase of study.

^{*}SUNY Humanities, SUNY Arts, or Foreign Language

^{**} HIS 101, HIS 102, HIS 121, HIS 122, HIS 130, HIS 131, HIS 132, or HIS 133

^{***} Math must be MAT 113 or higher, or any liberal arts science

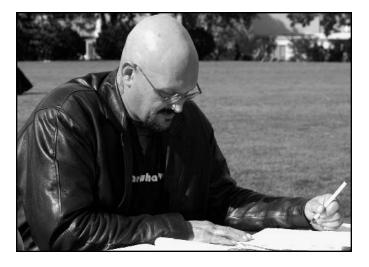
^{****}SUNY Arts or Foreign Language Elementary 2 or higher

Degree Awarded: Associate in Science

Student Learning Outcomes

Students will:

- demonstrate their broad base of knowledge in the liberal arts and sciences by evoking critical thinking skills in drawing reasonable conclusions from evaluated data.
- develop a foundation of essential knowledge about the cultural, social and natural worlds, and individual well-being.
- demonstrate a mastery of communication skills, both written and oral.
- understand the commonalities and diversity of the human experience, values and opinions.
- apply systematic reasoning and develop information management quantitative skills.
- be prepared to transfer to an upper-level institution.



Career Opportunities

The Individual Studies degree program serves as a base for students who plan to continue their education at a four-year institution.

Because of the flexibility of the degree, students have the option of developing a career path of their choice early in their educational experience.

Transfer Opportunities

SUNY Orange has special relationships with upper-level colleges and universities for transfer.

These institutions include:

- four year institutions in the State University of New York (SUNY) system
- private state and national four-year institutions

Contact Information

Advising and Counseling Center (845) 341-4070 Admissions Office (845) 341-4030

Liberal Arts and Sciences: Mathematics and Natural Science

Degree Awarded: Associate in Science

Recommended Course Sequence

First Seme	ester Cr	edits
ENG 101	Freshman English 1	3
	SUNY Social Science list	3
	SUNY Natural Science list	3/4
	MAT 113 Math for Liberal Arts	S
	or higher or Liberal Arts Science	e 3/4
MAT 121	College Algebra or higher*	3/4
PES 100	Concepts of Physical Wellness	1
Second Se	mester	
ENG 102	Freshman English 2	3
HIS	Restricted History Elective*	3
	SUNY Natural Science list	3/4
	MAT 113 Math for Liberal Arts	S
	or higher or	
	Liberal Arts Science	3/4
MAT 121	College Algebra or higher	
	or Liberal Arts Science	3/4
PES	Physical Education	1
Third Sen	nester	
COM 101	Foundations of Communication	1 3
	MAT 113 Math for Liberal Arts	S
	or higher or	
	Liberal Arts Science	3/4
	MAT 113 Math for Liberal Arts	S
	or higher or	
	Liberal Arts Science	3/4
	Restricted SUNY Elective**	3
	Elective	3
Fourth Ser	mester	
	MAT 113 Math for Liberal Arts	S
	or higher or	
	Liberal Arts Science	3/4
	MAT 113 Math for Liberal Arts	S
	or higher or	
	Liberal Arts Science*	3/4
	Elective	3
	Elective	3
	Elective	3

Total Credits: 62-72

Program Description

The Associate in Science degree program in Liberal Arts and Sciences with a Mathematics and Science emphasis is designed specifically for students to transfer, with junior status, to the appropriate upper-level college or university of their choice, where they can complete the B.S./B.A. degree in their chosen field of study. As such, the program provides core courses and general education requirements that would be included in the first two years of study at four-year institutions. This degree gives mathematics/ science students the flexibility to match a program to their individual goals, backgrounds and talents. The various curricula provide the opportunity to pursue a variety of academic and career interests in mathematics and in the natural/physical sciences.

The course distribution in mathematics and science is designed to provide a solid foundation in the basics of natural and physical sciences/mathematics: future advanced coursework will build on this foundation. The general education elective credits round out the curriculum in this degree program. Students should consult the appropriate department chairperson and faculty for specific advice about pursuing a particular discipline within this area. Only such consultation will guarantee the correct level of course choice and rigor required to match the student's transfer plans as they work toward a bachelor's degree.

Admission Criteria

Admission to this program requires that students be high school graduates or have high school equivalency diplomas (GEDs). If students are not high school graduates, they may be eligible for admission to the College's 24 Credit Hour Program. If students are home schooled, they may be eligible for admission. (See pages 7 through 13 for more details on the admission process for all applicants.)

Before initiating study for this A.S. degree a student must have achieved a mathematical proficiency which includes intermediate level algebra. At SUNY Orange, this means that a student must have tested beyond Intermediate Algebra (MAT 102) to begin progress toward this degree. If this is not the case the student must speak with an advisor in order to choose the proper preparatory courses.

^{*}SUNY American History or Western Civilization or Other/World Civilization lists

^{**}SUNY Arts or Foreign Language lists

A minimum of 30 credits of math and science combined is required for this degree. At least 6 credits of math must be College Algebra (MAT 121) or higher <u>and</u> at least 6 credits of science must be from the SUNY Natural Science list.

Liberal Arts and Sciences: Mathematics and Natural Science

Degree Awarded: Associate in Science

Student Learning Outcomes

Students will:

- demonstrate an understanding of the scientific method through their ability to integrate the observation, measurement, collection, reduction and evaluation of scientific data.
- demonstrate their broad base of knowledge in the liberal arts and sciences by evoking critical thinking skills in drawing reasonable conclusions from evaluated data.
- demonstrate a mastery of communication skills, both written and oral, especially as related to the analytic methods of natural science.
- perform mathematically at a level commensurate with their chosen field of study.
- plan, organize and implement laboratory experiments and demonstrate the requisite technical/laboratory skills.
- transfer to a four-year institution to earn a baccalaureate degree in either mathematics or the natural/physical sciences.



Career Opportunities

- professional degrees or working in private sector firms in the various fields
- R&D or laboratory opportunities in private and public sector
- positions in education on primary or secondary level
- excellent background for other fields requiring mathematics/science proficiency, including:
 - biology
 - pre-professional training for medicine, dentistry, veterinary science, pharmacy, etc.
 - environmental sciences
 - Teaching or research
 - chemistry
 - geology
 - mathematics
 - physics/astronomy

Transfer Opportunities

SUNY Orange has special relationships with upper-level colleges and universities for transfer. Students regularly transfer with junior status to colleges and universities in the State University of New York System as well as to private and state colleges and universities across the country.

Contact Information

Biology Department Chair
(845) 341-4124
Mathematics Department Chair
(845) 341-4566
Science & Engineering
Department Chair
(845) 341-4571
Admissions Office
845) 341-4030

Marketing

Degree Awarded: Associate in Applied Science

Accredited by the Associate of Collegiate Business Schools and Programs (ACBSP) 7007 College Boulevard, Suite 420, Overland Park, KS, 66211

Recommended Course Sequence

First Seme	ester	Credits
ENG 101	Freshman English 1	3
	Any Social Science	3
	Math or Liberal Arts Electiv	/e 3
BUS 101	Business Math	3
BUS 103	Introduction to Business	3
PES 100	Concepts of Physical Wellne	ess 1
Second Se	mester	
ENG 102	Freshman English 2	3
	Any Social Science	3
	Math or Liberal Arts Electiv	
BUS 105	Business and Society	3
MKT 101	Principles of Marketing	3
PES	Physical Education	1
Third Sem	ester	
OFT 106	Keyboarding**	1
BUS 111	E-Business Principles or	
MKT 202	Salesmanship	3
ACC 101	Accounting 1	4
BUS 201	Business Law 1	3
	Marketing Management	3
BUS 203	Business Communications	3
Fourth Semester		
MKT 201	Advertising	3
CIT 101	Microcomputer Applications	s 3
MKT 204	Problems in Marketing	3
	Business Elective*	3
	Liberal Arts Elective	3

Total Credits: 64

Program Description

The Associate in Applied Science degree program in Marketing prepares graduates for immediate entry into positions ranging from entry level to marketing management. Students develop interpersonal and conceptual skills such as communication, decision making and problem solving.

The primary focus of the curriculum is on marketing strategy, selling techniques, advertising procedures and international marketing. This well-balanced program includes a marketing core, accounting, computer information systems, law and liberal arts courses. Students will be involved in developing marketing plans, creating advertising, presenting sales presentations, and participating in both group and individual projects designed to enhance their skills.

Business Department faculty are well-trained and experienced in their areas of expertise, and highly motivated to work with students, helping them to succeed in their quest for a job. Many students complete this degree and transfer to four-year colleges to earn a bachelor's degree; however, students who have this objective are advised that they may suffer transfer credit losses due to the concentration of business courses.

Admission Criteria

Admission to this program requires that students be high school graduates or have high school equivalency diplomas (GEDs). If students are not high school graduates, they may be eligible for admission to the College's 24 Credit Hour Program. If students are home schooled, they may be eligible for admission. (See pages 7 through 13 for more details on the admission process for all applicants.)

Students are required to complete most developmental classes before attempting the courses in this program. See Developmental Course List on page 47.

^{*}It is strongly recommended that students with at least a 2.50 CQPA register for MGT 220. Approval of the department chair is required to register for this course.

^{**}Students with sufficient keyboarding ability who pass the keyboarding waiver exam will fulfill this requirement; they do not need to replace the 1 credit.

Degree Awarded: Associate in Applied Science

Student Learning Outcomes

Students will:

- demonstrate knowledge of marketing principles and applications.
- demonstrate the ability to identify, analyze, and evaluate market segments and strategies.
- express business information effectively in both oral and in written forms.



Career Opportunities

- · advertising
- marketing and manufacturing
- · marketing service
- marketing research
- public relations
- sales
- · customer service

Transfer Opportunities

While the A.A.S. is a degree leading to immediate job placement upon graduation, SUNY Orange has special relationships with Franklin University for transfer to a B.S. degree in marketing, business administration or human resource management.

Other transfer opportunities exist with:

- Franklin University
- Mount St. Mary College
- · Ramapo College
- SUNY Empire State

Contact Information

Business Management Department Chair (845) 341-4411 Admissions Office (845) 341-4030

Medical Laboratory Technology

Degree Awarded: Associate in Applied Science

Accredited by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS) 8410 W. Byrn Mawr Ave. Suite 670, Chicago IL 60631-3415

Recommended Course Sequence

First Seme	ester	Credits
ENG 101	Freshman English 1	3
	Technical Writing Module	1.5
	Applied Chemistry 1	3
	Math (Elementary Algebra o	or
	higher)	3
MLT 101	Fundamentals of Medical	
	Physiology 1	4
MLT 105	Intro to Laboratory Science	2
MLT 103	Serology/Immunology	2
Second Se	mester	
ENG 102	Freshman English 2	3
ENG 161	Technical Writing Module	1.5
	Social Science Elective	3
CHM 104	Applied Chemistry 2	3
MLT 102	Fundamentals of Medical	
	Physiology 2	4
MLT 104	Hematology	3
Third Sen	nester	
	Social Science Elective	3
	Immunohematology	3
MLT 201	Instrumentation and Clinica	1
	Applications 1	1
	Clinical Chemistry 1	3
	General Microbiology	4
	Clinical Training 1	2
PES 100	Concepts of Physical Wellnes	ss 1
Fourth Se		
MLT 202		1
	Applications 2	1
	Clinical Chemistry 2	3
	Clinical Microbiology	3
MLT		3
	Clinical Training 2	2
PES	Physical Education	1
	Elective	3

Total Credits: 69

Program Description

The Associate in Applied Science degree program in Medical Laboratory Technology prepares students to become certified and licensed as medical laboratory technicians.

A medical laboratory technician is a healthcare professional who performs general testing on biological specimens such as blood, urine, various body fluids and tissues in the medical laboratory. The results of these analyses are utilized to determine the presence, absence, progress and causes of disease. A medical laboratory technician enjoys science, problem solving and investigation, and performs his/her work accurately, efficiently and responsibly. The medical laboratory technician must be able to perform several duties simultaneously, work well in a fast-paced laboratory and be self-motivated.

The Medical Laboratory Technology Program curriculum corresponds to the program's mission: it provides each student with educational experiences and knowledge to develop the critical thinking, technical and interpersonal skills required to be a successful clinical laboratory scientist. The program will integrate knowledge gained from general education, biological science and clinical laboratory science so that the future laboratory professional will exercise good judgment, ethics and appropriate decision-making abilities to serve the needs of the community and the profession.

Students will, therefore, take courses in the following disciplines: medical physiology, clinical chemistry, hematology, urinalysis, immunology, immunohematology and microbiology. Students study laboratory safety, microscopy and clinical instrumentation and apply the principles in the laboratory. As part of the program, a clinical rotation is assigned at one of the clinical affiliates.

The program begins in the fall semester of each year and the courses must be taken in the sequence in which they are offered. A grade of C (2.00) or better is required in all MLT courses for progression in the program and graduation with an A.A.S. degree in Medical Laboratory Technology.

An individual who has charges pending or has ever been convicted of a felony or misdemeanor and/or has been found guilty of professional misconduct or negligence may not be eligible for licensure. Contact the Office of Professional Discipline, New York State Education Department prior to applying to this program.

^{*} MLT 216 Histology strongly suggested

Medical Laboratory Technology

Degree Awarded: Associate in Applied Science

Admission Criteria

The Medical Laboratory Technology Program is a selective program requiring specific prerequisites for consideration in the admission process. Students who meet the following criteria are eligible to apply for admission to the program:

Academic Requirements

- High school diploma or GED.
- Eligible to take or have completed Freshman English 1 or equivalent.
- Eligible to take or have completed Elementary Algebra or equivalent with a 2.0 or higher.
- GPA: students must attain a minimum GPA of 2.0.
- Number of acceptable credits completed towards the degree: 26
 23 completed = 3 pts; 22 18 completed = 2 pts; 17 12 completed = 1 point; < 12 completed = 0 pts.).

Department-Specific Requirements:

Attendance at a pre-admission orientation. At this orientation, students will receive and sign off on information pertaining to health forms and criminal record policies (0-2 points).

Note: All admission eligibility requirements must be completed before February 1 in order for a student to be considered for acceptance into the program for the fall semester. Priority in Admissions to all Health Professions Programs goes to currently enrolled Orange County Community College students who are legal Orange County residents. Meeting the Admissions requirements for a Health Professions program does not guarantee admission into the program.

Student Learning Outcomes

Students will:

- properly collect, process and analyze biological specimens.
- safely and accurately perform analytical procedures, recognize factors affecting results and take the appropriate action.
- be eligible for national certification as a Medical Laboratory Technician by successfully completing examinations given by the National Credentialing Agency for Laboratory Personnel, Inc. (NCA) and/or the American Society of Clinical Pathologists (ASCP).
- be eligible to sit for the NYS Certified Clinical Laboratory Technician Licensing Examination.

Note: Several essential movement, observational, communication, intellectual and behavioral functions are required to complete the objectives of the courses in the program and to perform the necessary duties required of a medical laboratory technician. A detailed listing of these essential functions is included in the MLT admissions packet and is discussed at the pre-admission orientation session.

Career Opportunities

- hospitals
- · doctors' offices
- · reference laboratories
- food/cosmetic industries
- pharmaceuticals
- veterinary laboratories
- · research
- sales and marketing

Transfer Opportunities

This certificate program prepares students for immediate entry into the workplace. Therefore, transfer opportunities are not usual.

Consult the department for more information.

Contact Information

Laboratory Technology Department Chair (845) 41-4136 Admissions Office (845) 341-4030

Medical Office Assistant

Degree Awarded: Associate in Applied Science

Accredited by the Association of Collegiate Business Schools and Programs (ACBSP) 7007 College Boulevard, Suite 420, Overland Park, KS, 66211

Recommended Course Sequence

First Seme	ester Cre	dits
ENG 101	Freshman English 1	3
	Math or Liberal Arts Science	3
OFT 108	Intermediate Computer	
	Keyboarding*	3
BUS 103	Introduction to Business	3
MLT 110	Fundamentals of Medical	
	Physiology	3
PES 100	Concepts of Physical Wellness	1
Second Se	mester	
ENG 102	Freshman English 2	3
	Social Science Elective	3
OFT 109	Advanced Computer	
	Keyboarding**	3
ACC 101	•	4
RAD 219	Medical Terminology	1
	Elective+	1
Third Sem	nester	
	Social Science Elective	3
BUS 203	Business Communications	3
OFT 209	Microsoft Word and PowerPoint	3
OFT 207	Transcription Skills** or	
OFT 211	Medical Transcription	3
MGT 205	Human Resource Management	3
PES	Physical Education	1
Fourth Ser	mester	
OFT 103	Medical Coding	3
	Liberal Arts Elective	3
OFT 220	Office Internship	3
OFT 201	Records/Information Manageme	nt 3
OFT 214	Excel and Access**	3
	Total Credits:	62

* Students without sufficient keyboarding ability will be required to take OFT 107 Elementary Keyboarding. Students with sufficient keyboarding ability to pass the waiver for OFT 108 fulfill this requirement with a business elective.

** Special medical projects are provided in OFT 109, OFT 207, and OFT 214 for students in this program.

Program Description

The Associate in Applied Science degree program in Medical Office Assistant prepares graduates to begin their careers in medical organizations. Emphasis is placed on developing office skills and knowledge of medical terms.

The medical office assistant provides office support to medical facilities including records management, medical report production, patient interface, insurance and billing responsibilities, telephone interaction, and confidentially.

Students take a sequence of office skill courses including various levels of Keyboarding, Microsoft Word and PowerPoint, Excel and Access, Transcription Skills, Medical Terminology, Physiology, and Medical Coding. Students learn to use modern office equipment and are exposed to realistic office situations through internships. Special medical projects are provided in Advanced Computer Keyboarding, Transcription Skills and Excel and Access.

Admission Criteria

Admission to this program requires that students be high school graduates or have high school equivalency diplomas (GEDs). If students are not high school graduates, they may be eligible for admission to the College's 24 Credit Hour Program. If students are home schooled, they may be eligible for admission. (See pages 7 through 13 for more details on the admission process for all applicants.)

Students without sufficient keyboarding ability will be required to take Elementary Computer Keyboarding. Students with sufficient keyboarding ability to pass the waiver for Intermediate Computer Keyboarding fulfill this requirement with a business elective.

⁺ Another course must be added to complete the degree such as CPR, First Aid, Stress Management or a business elective. Please see the department chair for other suggestions.

Degree Awarded: Associate in Applied Science

Student Learning Outcomes

Students will:

- demonstrate the ability to keyboard in correct form medical correspondence, which includes letters, memos, forms, reports, tables and statements.
- demonstrate the ability to keyboard straight copy for five minutes with a maximum of three errors.
- effectively communicate both orally and in written documents.
- understand and apply proper medical codes.
- learn critical thinking skills through an analytical business report project.



Career Opportunities

Medical office assistant positions exist in the following fields:

- hospitals
- · long-term care
- · community agencies
- health maintenance organizations
- government and industry
- physicians' offices
- outpatient services
- military-medical services
- · medical laboratories
- · imaging centers

Transfer Opportunities

While the A.A.S. is a degree leading to immediate job placement upon graduation, SUNY Orange has a special relationship for transfer to a B.S. degree in Applied Management with Franklin University.

Other transfer of courses exist with:

- Franklin University (to another related degree)
- Mount St. Mary College
- · Ramapo College
- SUNY Empire State College

Contact Information

Accounting/Office Technologies
Department Chair
341-4411
Admissions Office
(845) 341-4030

Nursing

Degree Awarded: Associate in Applied Science

Accredited by the National League for Nursing Accrediting Commission 61 Broadway, New York, NY, 10006 (800) 669-1656 ext. 153

Recommended Course Sequence

First Semester C		
ENG 101 Freshman English 1	3	
BIO 111 Anatomy and Physiology 1	4	
MLT 106 Microbiology for Health Pro	of. 3	
NUR 101 Nursing 1: Fundamentals	7	
Second Semester		
ENG 102 Freshman English 2	3	
BIO 112 Anatomy & Physiology 2	4	
NUR 102 Nursing 2: Fundamentals	10	
Third Semester		
PSY 100 Psychology of Adjustment	3	
CHM 120 Elements of Chem. & Physic	cs 3	
NUR 201 Nursing III: Caring for the		
Growing Family	7	
Elective	3	
PES 100 Concepts of Physical Wellness	1	
Fourth Semester		
Social Science Elective*	3	
NUR 202 Nursing IV: Physical and		
Mental Illness	9	
NUR 203 Nursing V: Transition to Pract	tice 1	
Elective	3	
PES Physical Education	1	

Total Credits: 68

Progression Through The Program

A minimum grade of 75% (C) in each nursing course is required for progress in and graduation in nursing. Nursing students must complete Freshman English 1 & 2 prior to enrollment in Nursing 3. Required nursing courses must be taken in the prescribed sequence. A student may repeat only one required nursing course one time. Once students are enrolled, they are to complete the program in three years. Students interested in admission to the evening nursing program are advised that this is a part-time program. All required courses should be completed before students register for the core nursing courses in the evening program.

Program Description

The Associate in Applied Science degree program in Nursing prepares students to become registered nurses. It provides for the development of those competencies expected of registered nurses in general nursing practice at the technical level. Emphasis is on direct client care within a career in nursing. Graduates are eligible to take the National Council Licensure Examination (NCLEX) for Registered Professional Nurse (RN).

Through study in the humanities, biological and social sciences, and the experience of academic life, the student gains an understanding of the value of the individual and his/her contribution to society. This curriculum combines general education courses and nursing courses with laboratory and clinical experiences, during which students have the opportunity to care for clients in a variety of healthcare settings. Students gain clinical experience in long-term care, medical-surgical, maternal/child and mental health nursing. A variety of teaching methods is employed to integrate the classroom with the clinical experience.

Graduates of the program will have the necessary theoretical background and technical skills for an entry-level nursing position. They will value the pursuit of lifelong learning. Graduates of the program will demonstrate the ability to pass the licensing examination at a rate equal to or exceeding the mean for New York State.

Student Learning Outcomes

Students will:

- utilize a reasoning process to resolve clinical and professional problems.
- listen, speak and write to promote the client's well being.
- follow accepted standards of nursing practice to provide safe and appropriate care.
- through professional role development, provide ageappropriate care to clients in diverse healthcare settings.

Licensure

Graduates of the nursing program are eligible to apply for the National Council Licensing Examination for Registered Nurses (NCLEX). Completion of the Nursing program does not assure admittance to attempt the RN licensure exam. When submitting an application for licensure and first registration, the applicant is required to report any history of a felony or misdemeanor. The state boards of nursing will review all applicant information submitted and determine if the applicant is eligible for licensure.

^{*}Refer to Guide for Social Science Requirement and select from group A, C or D.

Degree Awarded: Associate in Applied Science

Admission Criteria

Admission to the Nursing program is selective. In addition to an application to the College, students must apply for acceptance into the nursing program through the Admissions office. Priority in admissions to all health professions programs goes to currently enrolled SUNY Orange students who are legal Orange County residents. Students will be considered for acceptance into the Nursing program based on the completion of all mandatory academic and department-specific requirements. All requirements must be completed before February 1 in order for a student to be considered for acceptance into the Nursing program for the Fall semester.

Academic Requirements:

- high school diploma or GED.
- eligible to take or have completed Freshman English 1 or equivalent.
- eligible to take Intermediate Algebra or equivalent, or have completed Elementary Algebra or equivalent with a 2.0 or better.
- completed High School AP Biology (score of 3, 4, or 5) or Introduction to Biology or General Biology: or Anatomy & Physiology 1, or higher with a grade of 2.0 or better or a passing grade in the Biology CLEP examination (within 5 years of applying).
- GPA: students must attain a minimum GPA of 2.5 but will receive more points for a higher GPA (4.0 3.75 = 5 pts; 3.74 -3.50 = 4 pts; 3.49 3.25 = 3 pts; 3.24 3.00 = 2 pts; 2.99 2.50 = 1 pt.).
- number of acceptable credits (located on the back of this form) completed towards the degree. (34 28 completed = 3 pts; 27 20 completed = 2 pts; 19 12 completed = 1 pt.; < 12 completed = 0 pts.).
- a passing grade on a nursing program entrance examination (beginning fall 2008).

Department-Specific Requirements:

• Attendance at a pre-admission orientation where student will receive and sign off on information pertaining to health forms, program standards, CPR certification, and criminal record and drug screening policies.

Admission Process for Licensed Practical Nurses

LPN's may be admitted to the A.A.S. in Nursing program if they are participating in the NYS LPN to RN articulation model. This model requires successful completion of the LPN to RN Transition course offered through the Continuing Education Department (for information, call 341-4380). Upon successful completion of this course, students will be granted 14 of the 34 nursing credits. They must also successfully complete the 34 general education credits required as part of the Nursing curriculum. LPN to RN students will be considered for acceptance into the Nursing program based on the completion of the transition course, a required bridge course, which includes passing a Clinical Calculations Skill Examination with a grade of 80%. All LPN to RN Admissions Eligibility Requirements must be completed by the end of the fall semester in order for a student to be considered for acceptance into the program for the spring semester.

Nursing Readmission

Students who withdraw from, fail or receive a grade below "C" in any one of the required nursing courses may apply for readmission to the Nursing program. A student is only allowed to do this one time. Readmission is neither guaranteed nor is it an automatic process. Prior to readmission, students are required to successfully complete a special bridge course.

Career Opportunities

- hospitals
- long-term care settings
- community agencies
- health maintenance organizations
- government
- physicians' offices
- industry
- military
- · education
- nursing specialties

Transfer Opportunities

Many of our graduates transfer to upper-level colleges and universities to pursue advanced degrees in the nursing profession. Successful transfer depends on the courses taken and the student's grade point average. SUNY Orange has special relationships with a number of colleges and universities.

- · Hartwick College
- Mount St. Mary College
- New York University
- Pace University
- Russell Sage College
- SUNY New Paltz

Contact Information

Nursing Department (845)-341-4107 Admissions Office (845) 341-4030

Occupational Therapy Assistant

Degree Awarded: Associate in Applied Science

Recommended Course Sequence

First Seme	ester C	Credits
ENG 101	Freshman English 1	3
ENG 160	Technical Writing Module	1.5
PSY 101	General Psychology 1	3
BIO 111	Anatomy & Physiology 1	4
OTA 101	Fund. of Occupational Therap	y 1 3
OTA 103	Occupational Performance 1	1
OTA 107	Principles of OT in Geriatrics	&
	Gerontology	2
PES 100 C	oncepts of Physical Wellness	1
Second Se	mester	
ENG 102	Freshman English 2	3
PSY 220	Developmental Psychology	3
BIO 112	Anatomy & Physiology 2	4
OTA 102	Fund. of Occupational Therapy	2 3
OTA 104	Occupational Performance 2	1
OTA 106	Medical Conditions	3
PES	Physical Education	1
Third Sem	nester (Credits
COM 101	Foundations of Communicatio	n 3
ENG 161	Technical Writing Module	1.5
PSY 230	Abnormal Psychology	3
SOC	Sociology Elective	3
OTA 201	Principles of OT in Pediatrics	,
	& Developmental Disabilities	3
OTA 203	Clinical Reasoning Skills	1
OTA 205	Principles of Occupational	
	Therapy in Mental Health	3
OTA 207	Principles of Occupational	
	Therapy in Physical Disabiliti	es 3
Fourth Semester		
OTA 217	Clinical Practice 1	7.5
OTA 218	Clinical Practice 2	7.5

Program Description

The Associate in Applied Science degree program in Occupational Therapy Assistant prepares graduates to obtain New York State certification and to take the National Certification Board for Occupational Therapy exam* to become Certified Occupational Therapy Assistants (COTA). Certified Occupational Therapy Assistants work under the supervision of, and in collaboration with, Registered Occupational Therapists (OTR). Occupational therapy practitioners provide service to children, adults and seniors whose abilities to engage in their occupations (tasks) of living are impaired by physical injury or illness, developmental delays, the aging process or psychological and social disability.

The COTA's responsibilities include providing purposeful and meaningful activity to restore lost or impaired physical, cognitive and psychological skills; development and use of assistive technology; adapting home, play and work environments and activities to ensure successful and safe performance. The COTA may design adapted toys and games for a child with physical limitations; provide handwriting adaptations for students within a school setting to enhance their learning process; evaluate and design home adaptations to enhance independence in self-care activities such as feeding, bathing, shaving, cooking and dressing; encourage the elderly client to participate in leisure activities and to maintain personal independence.

The primary focus of the curriculum is on the development of critical thinking and clinical problemsolving skills, and on essential elements in designing and applying therapeutic interventions for the clients served by COTAs. The program includes classroom instruction, laboratory and community-based fieldwork rotations. Occupational therapy assistant courses are offered once each year. Courses must be taken in the sequence in which they are offered. A minimum grade of C is required in all occupational therapy assistant courses. The course of study may be pursued on a part-time basis. All program requirements must be completed within six consecutive semesters from the time of enrollment in the first OTA course. Individualized part-time schedules can be developed between the student and the OTA faculty advisor.

Note: Graduates of the OTA program are required to apply for NBCOT® certification. Candidates applying for the Certification Examination must notify the NBCOT's Qualifications Review Committee (QRC) if they have ever been charged with or convicted of a felony. A felony conviction may prevent the candidate from taking the examination. Please consult the department chair if this may be an issue in successfully pursuing a career in occupational therapy.

Total Credits: 72

Occupational Therapy Assistant

Degree Awarded: Associate in Applied Science

Admission Criteria

Applicants are required to complete the OTA Admissions Eligibility Form to be considered for acceptance into the OTA program. The form can be obtained from the SUNY Orange Admissions office. Candidates for admission to the OTA program are required to:

Academic Requirements:

- · High school diploma or GED.
- Eligible to take or have completed Freshman English 1 or equivalent.
- Eligible to take Elementary Algebra or equivalent.
- GPA: students must attain a minimum GPA of 2.0 but will receive more points for a higher GPA (4.0 3.75 = 5 pts; 3.74 3.50 = 4 pts; 2.49 3.25 = 3 pts; 3.24 3.00 = 2 pts; 2.99 2.50 = 1 pt.)
- Number of acceptable credits (located on the back of this form) completed towards the degree:(31 25 completed = 3 pts; 24 18 completed = 2 pts; 18 12 completed = 1 pt.; < 12 completed = 0 pts.)
- Completed High School AP Biology (score of 3, 4, or 5); Introduction to Biology; or General Biology; or Anatomy & Physiology 1, or higher with a grade of 2.0 or better (within 5 years of applying)

Department-Specific Requirements:

- Occupational Therapy practitioner observation (15 hour minimum with documentation)
- Attendance at a pre-admission orientation (includes interview with department chair; problem-solving activity and discussion). At this orientation, student will receive and sign off on information pertaining to health forms and criminal record policies.

All Admissions requirements must be completed before February 1 in order for a student to be considered for acceptance into the program for the fall semester. Priority in admission to all Health Professions programs goes to currently enrolled Orange County Community College students who are legal Orange County residents. Meeting the admission requirements for a Health Professions program does not guarantee admission into the program.

Student Learning Outcomes

Students will:

- learn problem-solving and clinical reasoning.
- build on knowledge, practice skills, theory and critical thinking applications.
- apply these multiple skills and insights to adapt to and cope in this novel and diverse world.
- think and act with flexibility, to think "outside the box."
- welcome change and growth in themselves, their clients and the organizations they serve.

Career Opportunities

- hospitals, inpatient and outpatient mental health facilities
- rehabilitation centers and skilled nursing facilities
- schools, developmental disabilities service sites
- home and community health agencies
- accessibility and home modification specialists
- assistive technology specialists
- health and wellness centers
- · advancement to OTR

Transfer Opportunities

While the A.A.S. is a degree leading to immediate job placement upon graduation and successful completion of the National Certification exam, SUNY Orange has special relationships with weekend college programs for transfer to a B.S./M.S. degree at:

- Dominican College,
- · Mercy College,
- Misericordia College

Contact Information

Occupational Therapist
Assistant
Department Chair
341-4323
Admissions Office
(845) 341-4030

Office Technologies

Degree Awarded: Associate in Applied Science

Accredited by the Association of Collegiate Business Schools and Programs (ACBSP) 7007 College Boulevard, Suite 420, Overland Park, KS, 66211

Recommended Course Sequence

First Seme	ester C	redits
ENG 101	Freshman English 1	3
	Math/Liberal Arts Science	3
OFT 108	Intermed. Computer Keyboardin	
BUS 103	Introduction to Business	ng* 3 3
	Emphasis Credits	3
PES 100	Concepts of Physical Wellness	1
Second Se	mester	
ENG 102	Freshman English 2	3
	Social Science Elective	3
ACC 101	Accounting Principles 1	4
OFT 201	Records/Information Managem	nent 3
	Emphasis Credits	3
Third Sem	ester	
BUS 203	Business Communications	3
OFT 209	Microsoft Word	3
MGT 205	Human Resource Management	t 3
	Emphasis Credits	3
	Emphasis Credits	3-4
Fourth Ser	mester	
OFT 220	Office Internship	3
OFT 214	Excel and Access**	3
	Emphasis Credits	3
	Emphasis Credits	3
	Liberal Arts Elective	2-3
PES	Physical Education	1

Total Credits: 62-64

Emphasis Areas:

Legal Office Assistant (18 credits)

First Semester	Credits
BUS 201 Business Law 1	3
Second Semester BUS 202 Business Law 2	3
Third Semester	
POL 102 U.S. Government-State & Local OFT 207 Transcription Skills**	3 3
Fourth Semester	2
Math or Liberal Arts Science OFT 110 Legal Documents & Terminology or OFT 109 Advanced Computer Keyboarding	
Office Management (19 credits)	
First Semester	
BUS 101 Business Math	3
Second Semester	3
Math or Liberal Arts Science	3
Third Semester	4
ACC 102 Accounting Principles 2 BUS 201 Business Law 1	4 3
Fourth Semester	
Social Science Elective MGT 201Principles of Management	3
Secretarial/Word Processing (18 credits)	3
First Semester	
BUS 101 Business Math	3
Second Semester	
OFT 109 Advanced Computer Keyboarding	3
Third Semester	•
Math or Liberal Arts Science OFT 207 Transcription Skills**	3 3
Fourth Semester	
Social Science Elective Business Elective	3
Business Elective	3

^{*} Students without sufficient keyboarding ability will be required to take OFT 107 Elementary Keyboarding. Students with sufficient keyboarding ability to pass the waiver for OFT 108 fulfill this requirement with a business elective.

^{**} Special legallmedical projects are provided in OFT 109, OFT 207 and OFT 214 for students in these programs.

Degree Awarded: Associate in Applied Science

Program Description

The Associate in Applied Science degree program in Office Technologies prepares graduates to begin their careers as office assistants. Three special emphasis areas are provided: legal office assistant, office manager, and secretary/information processor. Specialized courses combine with the common core courses to prepare graduates to enter the office support staff.

The office assistant provides office support to employers in a wide variety of settings. This support includes document production, computer software capability, records management, telephone interaction, customer service, keyboarding and data entry.

Students learn to use modern office equipment and, through internships, are exposed to realistic office situations. The internship experience includes 90 hours of office work with a cooperating employer along with weekly meetings with the College instructor. Topics for these meetings include: minute-taking instruction, telephone techniques, human relations issues, problem solving, the resume and interview, and the creation of a professional portfolio.

Admission Criteria

Admission to this program requires that students be high school graduates or have high school equivalency diplomas (GEDs). If students are not high school graduates, they may be eligible for admission to the College's 24 Credit Hour Program. If students are home schooled, they may be eligible for admission. (See pages 7 through 13 for more details on the admission process for all applicants.)

Students without sufficient keyboarding ability will be required to take Elementary Computer Keyboarding. Students with sufficient keyboarding ability to pass the waiver for Intermediate Computer Keyboarding fulfill this requirement with a business elective.

Student Learning Outcomes

Students will:

- demonstrate the ability to keyboard in correct form business correspondence, which includes letters, interoffice memos, forms, reports, tables, legal documents and financial statements.
- demonstrate the ability to keyboard straight copy for five minutes with a maximum of three errors.
- effectively communicate both orally and in written documents.
- understand the concepts of current information and word processing functions through the successful completion of learning exercises, application problems and exams at a microcomputer workstation.
- learn critical thinking skills through an analytical business report project.

Career Opportunities

- service
- education
- travel
- entertainment
- manufacturing
- · legal and medical
- insurance
- industrial
- media/advertising

Transfer Opportunities

While the A.A.S. is a degree leading to immediate job placement upon graduation, SUNY Orange has a special relationship for transfer to a B.S. degree in Applied Management with Franklin University.

Other transfer opportunities exist with:

- Franklin University (to another related degree)
- Mount St. Mary College
- · Ramapo College
- SUNY Empire State College

Contact Information

Accounting/Office Technologies Department Chair (845) 341-4411 Admissions Office (845) 341-4030

Performing Arts: Music

Degree Awarded: Associate in Applied Science

Recommended Course Sequence

First Seme	ester	Credits
ENG 101	Freshman English 1	3
MAT		3 3 5 2
	Basic Musicianship 1	5
MUS	Piano	2
	Concepts of Physical Wellness.	1
	Emphasis Credits	3-5
Second Se	mester	
ENG 102	Freshman English 2	3
	Acoustics	3 3 5 2
MUS 124	Basic Musicianship 2	5
MUS		2
PES	Physical Education	1
	Emphasis Credits	2-4
Third Sen	nester	
MUS 223	Advanced Musicianship 1	4
MUS	Piano	2
MUS 1	Ensemble*	1
MUS 109	Music Business	3 3
	Music History**	3
MUS	Emphasis Credits	3-6
Fourth Se	mester	
MUS 224	Advanced Musicianship 2	4
MUS		2
MUS 1	Ensemble	1
	Social Science	3
MUS 10_	Music History	3
	Emphasis Credits	1-6

Total Credits: 67-71

Students in the program take a common core of 54 credits and select one of three degree emphasis areas: Music Performance (total of 67 credits), Jazz and Commercial Music (total of 70 credits) or Music Business (total of 71 credits).

Emphasis Areas:

Music (13 cr.)

First Seme		Credits
MUS 141	Group Voice 1	2
MUS 1	Ensemble Private Instruction	1
Second Ser		
MUS 142	Group Voice 2	2
MUS 1	Ensemble	1
MUS 1	Private Instruction	1
Third Sem		
MIIC 1	Social Science Private Instruction	3
		1
Fourth Sen		1
MUS I_	Private Instruction	1
Music Busines	s (17 cr.)	
First Seme		
BUS 103	Intro to Business	3
Second Ser		2
ECO 202	Micro Economics	3
Third Sem		2
	Marketing Business Law 1	3
		3
Fourth Sen		1
ACC 153	Keyboarding Financial Accounting	4
Jazz/Commerc	· · ·	
First Seme	ster Social Science Elective	3
	Jazz Ensemble	1
	Private Instruction	1
Second Ser	nester	
MUS 161	Jazz Ensemble	1
MUS 1	Private Instruction	1
Third Sem		
	Jazz Improvisation 1	2
	Private Instruction	1
Fourth Sen		2
MUS 164	Flements of Arranging	2 3
MUS 1	Jazz Improvisation 2 Elements of Arranging Private Instruction	1

^{*} Must be MUS 161 Jazz Ensemble if in Jazzl Commercial Music emphasis.

^{**}Must be MUS 105 History of Jazz if in Jazzl Commerical Music emphasis.

Degree Awarded: Associate in Applied Science

Program Description

The Associate in Applied Science degree program in Performing Arts: Music prepares graduates for employment in a field connected with music or possible transfer to a bachelor's degree music program. Students select one of three emphasis areas: Music Performance, Jazz and Commercial Music or Music Business. For those seeking such a transfer, an articulation with SUNY Purchase has been established giving students the opportunity for seamless transition to a four-year program. Students interested in the transfer program should schedule a conference with the department chair.

The program includes core courses in music history, theory and related musicianship skills, piano, instrumental or vocal performance, acoustics, and music business. Performing ensembles enable students to learn in active, collaborative settings and offer ongoing service and enrichment to the College and community through a variety of musical performances. Courses in arranging and improvisation are required for students choosing the Jazz and Commercial option. Students selecting the Music Performance or Jazz and Commercial options must complete four credits of private music instruction with a department-approved teacher and are responsible for the private instructor's fee. Courses not required to complete the degree but also available include songwriting, jazz keyboard harmony, jazz/commercial guitar, jazz/commercial drumming, and audio engineering and design for the arts.

An ongoing visiting artist series enables students to learn directly from some of the best contemporary performing artists in workshops featuring musicians such as Cindy Blackman (drummer for Lenny Kravitz), Randy Brecker, Bob Mintzer and Kenny Barron. Many of the courses required in the program fulfill New York State general education requirements and thus are easily transferable within the SUNY system.

Admission Criteria

Admission to this program requires that students be high school graduates or have high school equivalency diplomas (GEDs). If students are not high school graduates, they may be eligible for admission to the College's 24 Credit Hour Program. If students are home schooled, they may be eligible for admission. (See pages 7 through 13 for more details on the admission process for all applicants.)

Note: Although this is an open admissions program, music placement assessment is required for registration into certain courses. Consult with Arts and Communication Department music faculty.

Student Learning Outcomes

Students will:

- demonstrate proficiency in music theory, notation, harmony and part-writing.
- apply their knowledge of music theory, notation and harmony at the keyboard.
- demonstrate proficiency in sight reading on their instrument and sight singing.
- · notate musical materials from dictation.
- demonstrate proficiency on the piano through the performance of standard repertory.
- perform in an instrumental or vocal ensemble.
- demonstrate knowledge of music history, musical styles, genres and composers.
- demonstrate fundamental understanding of music business.
- · demonstrate fundamental understanding of acoustics.
- pursue a career in the field of music and/or transfer to a baccalaureate music program.

Career Opportunities

- performing/recording artist
- record production
- music composition
- · music education
- media careers
- music retail/wholesale
- · music publishing
- · music law
- music management/ promotion
- publicity
- facility/concert management
- music therapy
- journalism
- · music library science
- instrument construction/ repair

Note: Some careers require training beyond the two-year degree.

Transfer Opportunities

Although the A.A.S. is designed primarily as professional degree, many graduates do transfer baccalaureate programs at other colleges. The program prepares students for successful results on theory placement assessments and auditions leading to acceptance into such programs. SUNY Orange enjoys an articulation agreement with SUNY Purchase guaranteeing acceptance and transfer of all SUNY Orange credits assuming basic entrance criteria are met.

Contact Information

Arts and Communication Department Chair (845) 341-4787 Admissions Office (845) 341-4030

Physical Therapist Assistant

Degree Awarded: Associate in Applied Science

Recommended Course Sequence

First Seme	ester C	redits
ENG 101	Freshman English 1	3
BIO 111	Anatomy & Physiology 1	4
PTA 101	PTA 1	4
PTA 103	Introduction to Physical Thera	py 2
PTA 105	Medical Conditions for the PT	A 3
PES 100	Concepts of Physical Wellness	1
Second Se	mester	
ENG 102	Freshman English 2	3
COM 101	Foundations of Communication	on 3
BIO 112	Anatomy & Physiology 2	4
PTA 102	PTA 2	4
PTA 104	Kinesiology	4
Third Sem	iester	
PSY 223	General Psychology 1	3
PES 202	Basic Exercise Physiology	3
PTA 201	PTA 3	4
PTA 205	Clinical Education 1	3
PTA 207	Tests and Measurement Skills	
	for the PTA	4
Fourth Ser	mester	
PSY 220	Developmental Psychology	3
MAT 102	Intermediate Algebra	3
PTA 202	PTA 4	4
PTA 206	Clinical Education 2	3
PTA 208	Contemp.Practice for the PTA	3
PES	Physical Education	1
PTA 220	Summer Clinical	3

Total: 72

Licensure

Graduates of the Physical Therapist Assistant program are eligible to apply for certification in the state where they plan to practice. This process includes providing a history of possible existing criminal convictions and/or professional misconduct. Criteria for determination of good moral character varies from state to state, therefore, completion of the program does not guarantee acceptance by that state's regulatory entity to become certified or licensed.

Program Description

The Associate in Applied Science degree program in Physical Therapist Assistant (PTA) is designed to provide students with both the academic knowledge and clinical skills to become registered PTAs. The field of Physical Therapy is demanding. Graduates are required to meet all program requirements which are guided by the Commission on Accreditation in Physical Therapy Education. Many states, including New York, also require that students pass the national licensing examination as part of the registration process.

The PTA works with, and under the direction of, the physical therapist who plans the patient care program; the PTA then helps to carry out this program. Duties of the PTA include monitoring of vital signs, lifting of patients and equipment, training of patients in therapeutic exercises and activities of daily living, wound care, use of whirlpool and electrical stimulation during treatment procedures, application of heat and cold modalities, patient and family education, wheelchair activities, use of walkers and crutches, assisting the physical therapist in performing patient assessments and complex treatment procedures. The PTA also monitors the patient's responses to treatment, documents relevant aspects of patient care and maintains ongoing communication with the patient, family, supervising physical therapist and other health care professionals.

The primary focus of the curriculum is to develop a strong clinician who possesses critical thinking and problem-solving skills. To accomplish this, the program provides the clinical training as well as a broad general education background. Courses include both core classes and non-core classes (general education courses). The core Physical Therapist Assistant courses are offered once each year beginning in the fall semester.

All program requirements must be completed within six consecutive semesters from the time of enrollment in the first PTA course. These courses must be taken in the sequence in which they are offered. The curriculum includes classroom instruction, laboratory time and clinical experiences. However, general education courses may be taken on a part-time basis during the day or evening, and may be completed over a longer period of time than the four semesters. But they must be completed no later than the semester in which they fall into sequence with the core courses.

A minimum grade of C-(75%) is required in all PTA courses and a 2.0 GPA is required in Anatomy and Physiology 1, Anatomy and Physiology 2, and Exercise Physiology.

Physical Therapist Assistant

Degree Awarded: Associate in Applied Science

Admission Criteria

The Physical Therapist Assistant program is a selective program requiring specific prerequisites for consideration in the admission process. Students who meet the following criteria are eligible to apply for admission to the program:

Academic Requirements:

- High school diploma or GED.
- Eligible to take or have completed Freshman English 1 or equivalent.
- Eligible to take or have completed Elementary Algebra or equivalent.
- GPA: students must attain a minimum GPA of 2.0 but will receive more points for a higher GPA: (4.0 3.75 = 5 pts; 3.74 3.50 = 4 pts; 3.49 3.25 = 3 pts; 3.24 3.00 = 2 pts; 2.99 2.50 = 1 pt.).
- Number of acceptable credits completed towards the degree: (28 23 completed = 3 pts; 22 18 completed = 2 pts; 17 12 completed = 1 pt.; < 12 completed = 0 pts.).
- Completed High School AP Biology (score of 3, 4, or 5); Introduction to Biology; or General Biology 1; or Anatomy & Physiology 1, or higher with a grade of 2.0 or better (within 5 years of applying).

Department-Specific Requirements:

- Physical therapy practitioner observation (15 hour minimum with documentation).
- Attendance at a pre-admission orientation (includes interview with department chair; problem-solving activity and discussion). At this orientation, student will receive and sign off on information pertaining to health forms and criminal record policies.

Note: All Physical Therapist Assistant admission eligibility requirements must be completed before February 1 in order for a student to be considered for acceptance into the program for the fall semester. If seats remain available after February 1, students will be assessed as they apply.

Student Learning Outcomes

Students will:

- possess entry-level skills as determined by the Commission on Accreditation in Physical Therapy Education.
- be able to work under the direct supervision of a licensed physical therapist in an ethical, legal, safe, and effective manner becoming an integral member of the healthcare team.
- demonstrate appropriate critical thinking and problem-solving skills in their role as a Physical Therapist Assistant.
- demonstrate an understanding of the New York State Education Law as it relates to the provision of Physical Therapy services.
- demonstrate an awareness of the existence of varying practice laws from state to state.
- successfully complete the National Physical Therapy Exam for PTAs.
- develop the skills necessary to pursue lifelong learning needed for personal and professional growth.
- be aware of their responsibility to promote the profession through membership in the APTA, attending local and national meetings and conferences, and participation in community events.

Career Opportunities

- hospitals, nursing homes
- private offices
- rehabilitation centers
- · schools
- · fitness centers
- home care settings

Transfer Opportunities

The A.A.S. degree is primarily intended to prepare students for immediate employment: however, transfer opportunities exist in some areas.

If a student plans to pursue a four-year degree program, he or she should see the department chair or a faculty advisor as soon as possible.

Contact Information

Physical Therapist Assistant Department Chair (845) 341-4290 Admissions Office (845) 341-4030

Radiologic Technology

Degree Awarded: Associate in Applied Science

Accredited by the Joint Review Committee on Education in Radiologic Technology (JRCERT) 20 N. Wacker Drive, Chicago, IL 60606-2901 (312) 704-5300 in cooperation with the NYS Board of Health

Recommended Course Sequence

First Seme	ester	Credits
BIO 111	Anatomy & Physiology 1	4
MAT 102		3
RAD 101	Principles of Radiographic	
	Exposure 1	4
RAD 103	Introduction to Radiography	1
RAD 105	Radiographic Positioning 1	4
RAD 107	Methods of Patient Care 1	2
Second Se	mester	
ENG 101	Freshman English 1	3
BIO 112	Anatomy & Physiology 2	4
RAD 102	Principles of Radiographic	
	Exposure 2	4
RAD 104	Radiation Protection	1
RAD 106	Radiographic Positioning 2	4
RAD 111	Clinical Practicum 1	1
RAD 108	Methods of Patient Care 2	1
First Sum	mer Clinical	
RAD 112	Clinical Practicum 2 (12 weel	(s) 2
Third Sen	nester	
ENG 102	Freshman English 2	3
PSY 2101	General Psychology 1	3
RAD 213		1.5
RAD 217		2 3
RAD 221	Radiographic Pathology	
RAD 209		4
	Concepts of Physical Wellness	1
Fourth Se	mester	
PSY 102	General Psychology 2	3
EET 110	Computer Graphics	3
RAD 210	Quality Assurance	1
RAD 218	Radiation Biology	2
	Advanced Imaging Modalitie	
RAD 214		1.5
RAD 219	23	1
PES	Physical Education	1
Second Su	mmer Clinical	

Total Credits: 73

2

Program Description

The Associate in Applied Science degree program in Radiologic Technology prepares students to take the Registry exam offered by the American Registry of Radiologic Technologists to become a radiographer. An essential member of the healthcare team, the radiographer positions body parts accurately and manipulates radiographic equipment to produce a quality diagnostic image with the least amount of radiation necessary.

The Radiologic Technology program is dedicated to providing each student with the educational activities necessary to develop the required critical thinking and technical and interpersonal skills of the radiographer. The highly skilled radiographer is educated in properly caring for the patient's needs during the radiographic examination, manipulates radiographic and computerized equipment, as well as adheres to protocols in bedside, CT and operating room areas, selects technical factors and diagnostic parameters, instructs and assists the patient in order to obtain the necessary positioning, demonstrates appropriate application of radiation safety principles of "time, distance and shielding," in order to protect the patient, self and others, exhibits care and accuracy in the administration, preparation and disposal of drugs and contrast agents.

Note: The Radiologic Technology program, as well as the field of radiologic technology, is a rigorous one. Program standards are not altered for disabled students. The College will make every effort to provide reasonable accommodations to students with disabling conditions.

Admission Criteria

The Radiologic Technology program is a selective program requiring specific pre-requisites for consideration in the admissions process. Students who do not have the necessary pre-requisites are encouraged to seek admissions into the pre-radiography track. Students will be considered for acceptance into the Radiologic Technology program based on the completion of all eligibility requirements. Students must meet all of these requirements to be considered for admission into the program.

Academic Requirements:

- High school diploma or GED.
- Eligible to take or have completed Freshman English 1 or equivalent.
- Eligible to take or have completed Intermediate Algebra or equivalent.
- GPA: students must attain a minimum GPA of 2.0.
- Number of acceptable credits completed towards the degree: (28 23 completed = 3 pts; 22 18 completed = 2 pts; 17 12 completed = 1 pt.; < 12 completed = 0 pts.).

RAD 215 Clinical Practicum V

Radiologic Technology

Degree Awarded: Associate in Applied Science

• Complete High School AP Biology (score of 3, 4, or 5); Introduction to Biology (BIO 110); or General Biology (BIO 102): or Anatomy & Physiology 1 (BIO 111), or higher with a grade of C- or better (within 5 years of applying)

Department-Specific Requirements:

- Technical standards and verification form has been signed and filed with the Admissions Office.
- Attendance at a pre-admission orientation. At this orientation, student will receive and sign off on information pertaining to health forms and criminal record policies.

Note: All Radiologic Technology admission eligibility requirements must be completed before February 1 in order for a student to be considered for acceptance into the program for the Fall semester.

At the time prospective students submit their app;lications to the American Registry of Radiologic Technologists and the New York State Department of Health, they must make a statement about their conviction record, if any. If they would have to answer "yes" to a question about a felony conviction, they should contact the NYS Department of Health (518) 402-7580 AND The American Registry of Radiologic Technologist (651) 687-0048. Both of these agencies MUST be contacted to determine if students will be eligible to sit for the certification exam and/or to be licensed.

Student Learning Outcomes

Students will:

- demonstrate the ability to think critically when performing radiographic procedures.
- demonstrate the technical skills necessary to create quality radiographic images while applying radiation protection practices.
- effectively interact and communicate with the public, patients and members of the healthcare team.
- demonstrate the ability to properly care for patients.
- with speed and accuracy, meet these technical standards,
- place the patient in position, set the controls of the x-ray machine and evaluate the quality of the radiographic image.
- provide patient instructions and respond to questions and requests in both routine and emergency situations.
- transport and assist the patient, and to move the x-ray machine and image receptor to the desired position, including operation of equipment in the surgical suite and at the patient's bedside.

Career Opportunities

- hospitals, clinics, medical imaging centers, doctors' offices, educational facilities and equipment manufacturers as:
- radiographers and special procedures technologists
- mammographers, CT technologists and MRI technologists
- nuclear medicine technologists, PET/CT technologists
- · radiation therapists
- sales personnel, educators, clinical instructors and hospital administrators

Transfer Opportunities

The A.A.S. degree is primarily intended to prepare students for immediate employment: however, some graduates have gone on to further study in radiation therapy, nuclear medicine, cardiac catheterization and education.

Contact Information

Diagnostic Imaging Department Chair (845) 341-4277 Admissions Office (845) 341-4030

Teaching Assistant

Degree Awarded: Certificate

Meeting the educational requirements for permanent NYSED Teaching Assistant Certification

Recommended Course Sequence

Program I	Requirements	Credits
ENG 101	Freshman English 1	3
PSY 101	General Psychology 1	3
PSY 221	Child Psychology	3
EDU 103	Intro to Early Childhood/	
	Childhood Education++	3
COM 101	Foundations of Communicat	tion 3
EDU 107	Mandated Training	1
	Restricted Elective	3
	Restricted Elective	3
	Restricted Elective	3

Total: 25

Restricted Elective Options

This program has been developed to include options matching the New York State Teaching Certifications.

Option 1: For students who do not wish to follow a particular grade range.

Electives restricted to SUNY General Education Course Listing, category 4, 5 or 6*.

Option 2: Birth to 2nd Grades (Choose 3)EDU 201 Observation and Assessment++

MAT 111	Foundations of Elementary	
	School Mathematics	3
GEO 101	Elements of Physical Geography	3
HIS	History Course*	3
Option 3:	1st to 6th Grades (Choose 3)	
-	1st to 6th Grades (Choose 3) Elements of Physical Geography	3
GEO 101	` '	3
GEO 101 MAT 111	Elements of Physical Geography	3 3 3

Option 4: 7th to 12th Grades (Choose 3 plus PSY 222)

EDU 103 Omit
PSY 222 Replaces PSY 221 in program reqs.3
GEO 101 Elements of Physical Geography 3
HIS ______ History Course* 3
SUNY General Ed. Course 3
SUNY General Ed. Course 3

Program Description

The Teaching Assistant certificate program is designed to prepare teacher assistants and paraprofessionals at all public school levels. Students will develop career skills in preparation for New York State Teacher Assistant Licensure and Certification. They will be introduced to career aptitudes and skills necessary for educational and behavioral assistance in New York State classrooms from preschool to high school. The program will supply a basic educational foundation comprised of at least three SUNY General Education topics and at least one area of liberal arts and sciences, as well as specific educational courses which meet Federal and/or New York State requirements for Teaching Assistants. Educational courses may include Introduction to Education, Mandated Training, and Foundations of Elementary School Mathematics. All courses are applicable toward an associate's degree AND the Jointly Registered Teacher Education Program (JRTEP).

Admission Criteria

Admission to this program requires that students be high school graduates or have high school equivalency diplomas (GEDs). If students are not high school graduates, they may be eligible for admission to the College's 24 Credit Hour Program. If students are home schooled, they may be eligible for admission. (See pages 7 through 13 for more details on the admission process for all applicants.)

⁺⁺Local daytime observations beyond college classroom are required. Students will be placed according to their employment/school needs.

^{*}General Education and History selections must be applicable to educational program leading to teaching certification.

Degree Awarded: Certificate

Certification Requirements

Federal Requirements under NCLB

- Currently employed TAs are "grandfathered" if they have a Continuing Certificate AND are tenured.
- Currently employed TAs with a Continuing Certificate who are NOT tenured (Provisional Status) have until January 2006 to fulfill the NCLB requirements: passing grade on the NYSATAS exam OR complete two (2) years of college (48 credits) or earn an Associate's Degree.
- All TAs hired after January 2002 must have a high school diploma AND a passing grade on the NYSATAS exam OR have completed two years of college (48 credits) OR earn an Associate's Degree. This requirement must be met immediately if hired to work in a Title I or school-wide program.

New York State Requirements

- Currently employed TAs are "grandfathered" if they have a Continuing Certificate, unless they choose to apply for a Level I, II or III Certificate under the new requirements. (In order to be "grandfathered", a TA must have obtained a Continuing Certificate by February 2004.)
- All TAs hired after February 2004 must pass the NYSATAS exam AND complete 18 credits of college coursework within three years AND complete 75 hours of professional development every five years.

Student Learning Outcomes

Students will:

- exhibit critical thinking and problem solving skills.
- acquire a broad base knowledge in at least one area of liberal arts and sciences, and at least three SUNY General Education topics.
- understand the fundamentals of child development theories and their classroom applications.
- demonstrate relevant, creative, developmentally appropriate teaching techniques.
- communicate effectively in oral and written forms.

Career Opportunities

Entry-level teaching assistant or paraprofessional in:

- birth to second grade
- first to sixth grade
- seventh to twelfth grade

Transfer Opportunities

All of the courses in the Teaching Assistant Certificate are applicable toward an Associate in Arts and Associate in Sciences degree AND the Jointly Registered Teacher Education Program.

Contact Information

Education Department Chair (845) 341-4354 Admissions Office (845) 341-4030

Visual Communications Technology: Graphic Arts/Printing

Degree Awarded: Associate in Applied Science

Recommended Course Sequence

First Sem	ester Cre	dits
ENG 101	Freshman English 1	3
	Math or Liberal Arts Science	3
ART103	Drawing 1	2
ART107	Design 1	2 3
ART123	Vis. Com. & Graphic Design 1	3
EET 110	Computer Applications and	
	Graphics	3
PES 100	Concepts of Physical Wellness	1
Second Se	emester	
ENG 102	Freshman English 2	3
ART124	Vis. Com. & Graphic Design 2	3
ART104	Drawing 2	2
ART108	Design 2	2 3 3
ART128	History of Art 2	
ART111	Color	2
Third Sen	nester	
	Social Science Elective	3
ART223	Vis. Com. & Graphic Design 3	3
ART113	Painting 1 or	
ART117	Figure Drawing 1 or	
ART119	Photography 1	3/4
ART203	Modern Art: The 20th Century	3
	Restricted Elective*	3
ART227	Arts & Communication Practicu	ım 1
Fourth Se	emester	
	Social Science Elective	3
	Math or Liberal Arts Science	3
ART224	Vis. Com. & Graphic Design 4	2
ART114	Painting 1 or	
ART118	Figure Drawing 1 or	
ART120	Photography 1	3
	Restricted Elective*	3
ART230	Arts & Communication Practicu	ım 1
PES	Physical Education	1

Total Credits 66-67

Program Description

The Associate in Applied Science degree program in Visual Communications Technology: Graphic Arts/Printing prepares graduates in all aspects of visual communications and graphic design. These include layout, production, typography, commercial print processes, illustration and computer graphics for entry level positions in graphic design, printing, publishing, desktop publishing, advertising, marketing, presentation graphics, game design, animation, multimedia and communications. As a result, the program prepares students for successful portfolio reviews leading to acceptance into B.A. or B.F.A. programs

Beginning with Visual Communications 1, students are introduced to Visual Communications theories, graphic design principles, elements, typography, influential persons and contemporary digital media. The curriculum offers sequential Visual Communications and Graphic Design courses, complemented by a broad offering of studio art and art history courses. After taking core courses in the first year, the student selects a concentration area in either Photography, Painting or Figure Drawing in the second year. Concurrently, the student completes the Visual Communications course sequence culminating with Viscom 4, the portfolio development course. Two Practicum courses offer the Viscom student the opportunity to experience an internship with local businesses or departments within the College.

Through an articulation agreement, qualified BOCES candidates can enter the A.A.S. degree program, and receive credit for certain first-year courses. After completing the program, students may either enter the workforce or transfer into a bachelor's degree program (see next page). Detailed course descriptions appear in the course description section of this catalog.

Please note that not all courses are offered in the evening.

^{*} Students select appropriate restricted electives based on their career goals after consultation with their academic advisor. Restricted Electives: COM101, COM 107, ART 201, ART 127, ART 207, ART 113, ART 114, ART 213, ART 114, ART 213, ART 214, ART 117, ART 118, ART 119, ART 120, ART 215, ART 225, CIT 111, CAD 101, ARC 101, MKT 201, MKT 101

Visual Communications Technology: Graphic Arts/Printing

Degree Awarded: Associate in Applied Science

Student Learning Outcomes

Students will:

- be prepared for entry level positions in visual communications and/or placement in upper-level programs of study.
- know fundamental concepts and processes of visual communications and graphic design.
- have a basic understanding of the visual communications industry and career opportunities in the field of visual communications.
- be proficient in industry standard technology including hardware and page layout, digital imaging, vector drawing, presentation and web design software.
- produce a portfolio appropriate for entry level roles in visual communications and/or continuing education in upper-level programs.



Career Opportunities

- graphic design, advertising design and marketing
- publishing, desktop publishing and printing
- game design, web design, animation and multimedia
- art direction, illustration, digital photography and color correction

Transfer Opportunities

Although the Associate in Applied Science degree is designed primarily as a professional degree, many students do transfer to baccalaureate programs at other colleges. Many of the courses in the program fulfill New York State general education requirements and thus are easily transferable within the State University of New York system. Presently SUNY Orange has an articulation agreement with Cazenovia College.

Many other students have successfully transferred to

- Fashion Institute of Technology
- SUNY Albany
- SUNY New Paltz
- SUNY Oneonta
- · SUNY Purchase

Contact Information

Arts and Communication Department Chair (845) 341-4787 Admissions Office (845) 341-4030

SUNY General Education Course Listing

	ate of an A.A. or A.S. program (except	ECO 201	Micro - Economics
	ering Science) transferring to a SUNY	ECO 202	Macro - Economics
institution mu	ast fulfill 7 of the following 10 categories.	GEO 102	Human Geography
1. MATHEM	IATICS	POL 101	Introduction to Political Science
MAT 102	Intermediate Algebra	POL 102	U.S. Government–State & Local
MAT 111	Foundations of Elementary School Math	POL 220	Comparative Governments
MAT 111	Math for the Liberal Arts	POL 221	International Relations
MAT 113 MAT 114	Contemporary Math	PSY 102	General Psychology 2
MAT 121	College Algebra	PSY 220	Developmental Psychology
MAT 121 MAT 122	College Trigonometry	PSY 221	Child Psychology
MAT 125	Introduction to Statistics	PSY 222	Psychology of Adolescence
MAT 131	Pre-Calculus	PSY 223	Psychology of Adulthood & Aging
MAT 205		PSY 223	General Psychology 1
MAT 211	Linear Algebra	PSY 240	Social Psychology
MAT 214	Differential Equations and Series	SOC 101	Introduction to Sociology
WIA1 214	Differential Equations and Series	SOC 120	Social Problems
2 NATURA	L SCIENCES	SOC 202	American Society: Order & Change
Biology	L SCILIVELS		
BIO 101	General Biology 1		AN HISTORY
BIO 102	General Biology 2		U.S. History to 1865
BIO 110	Introduction to Biology	HIS 102	U.S. History since 1865
BIO 141	Diversity of Life	HIS 103	History of African Americans*
BIO 143	Field Biology		nts scoring 85 or above on NYS American History
BIO 148	Environmental Conservation	Regents	
BIO 201	Genetics	POL 103	U.S. Government - National
BIO 205	Study of Biological Habitats		
MLT 209	General Microbiology		N CIVILIZATION
Chemistry	General Wierobiology	HIS 130	The Greek & Roman World
CHM 103	Applied Chemistry 1	HIS 131	Medieval & Renaissance Europe
	Applied Chemistry 2	HIS 132	The Age of Revolutions
CHM 105		HIS 133	Modern Europe
CHM 106		(OTHER W	VODI D CIVIL IZATIONE
CHM 201			WORLD CIVILIZATIONS
CHM 202	Organic Chemistry 2	HIS 121	World History to 1500
Physical Sc		HIS 122	World History since 1500
AST 120	Astronomy	HIS 123 HIS 124	Latin American Heritage & Hist. Africa: Past & Present
	Elements of Chemistry & Physics		Modern China & Japan
GLG 110	Physical Geology	HIS 220 HIS 221	
GLG 112	Historical Geology		Modern India & Southeast Asia
PSC 125		HIS 222	The Middle East
PSC 140	Physical Science/The Environment	7. HUMANI	TIES
Physics		ENG 102	Freshman English 2
PHY 101	General Physics 1	ENG 102 ENG 120	Introduction to Mythology
PHY 102	General Physics 2	ENG 203	World Literature: Ancient
PHY 103	Physics for Science & Engineering 1	LING 203	through Renaissance
PHY 104	Physics for Science & Engineering 2	ENG 204	World Literature: Enlightenment
PHY 105	General Physics & Calculus 1	L110 204	through Modern Age
PHY 106	General Physics & Calculus 2	ENG 205	Drama: Ibsen-O'Neill
PHY 108	Acoustic	ENG 206	Drama: Contemporary
PHY 111	Applied Physics 1	ENG 207	English Literatire: 14th-18th Centuries
PHY 112	Applied Physics 2	ENG 208	English Literatire: 19th-20th Centuries
PHY 203	Physics for Science & Engineering 3	ENG 209	American Literature: To the Civil War
PHY 204	Physics for Science & Engineering 4	ENG 210	American Literature: 1865 to the Present
2 00 07:-	CUPLICEG	ENG 213	Journalism: Survey of Mass Media
3. SOCIAL S		ENG 215	Shakespeare
ANT 101	Cultural Anthropology	ENG 216	Children's Literature
ANT 102	Human Evolution	ENG 217	Film & Literature
ANT 103	Archeology and Prehistory	ENG 220	Women Writers

SUNY General Education Course Listing

ENG 221	Contemporary Short Story	MUS 123	Basic Musicianship
ENG 222	Contemporary Novel	MUS 124	Basic Musicianship 2
ENG 223	Contemporary Poetry	MUS 131	Elementary Piano 1
ENG 225	International Literature: Non-European	MUS 132	Elementary Piano 2
ENG 226	Fantasy Fiction	MUS 141	Group Voice 1
ENG 230	African - American Literature	MUS 142	Group Voice 2
ENG 297	Special Studies in Literature: Science	MUS 151	Chorus
1 DE 105	Fiction	MUS 153	Madrigal Singers
ART 127	History of Western Art 1	MUS 155	Orchestra
ART 128	History of Western Art 2	MUS 157	Chamber Ensemble
ART 201	American Art 1700 - 1945	MUS 159	Band
ART 203	Modern Art - the 20th Century	MUS 161	Jazz Ensemble
ART 205	Women in Art History	MUS 163	Jazz Improvisation 1
ART 207	Non-Western Art History	MUS 164	Jazz Improvisation 2
MUS 103	History of Western Music to 1750	MUS 170-77	Private Instruction
MUS 104	History of Western Music from 1750	MUS 223	Advanced Musicianship 1
MUS 105	History of Jazz	MUS 224	Advanced Musicianship 2
MUS 107	History of Rock Music	MUS 226	Elements of Arranging
MUS 111	Music of the United States	MUS 231	Intermediate Piano 1
PHL 111	Old Testament	MUS 232	Intermediate Piano 2
	New Testament	MUS 232	
PHL 112			Advanced Piano 1
PHL 210	Philosophy	MUS 234	Advanced Piano 2
PHL 220	Ethics	THE 101	Introduction to Theater
PHL 230	Religious Concepts	THE 103	Acting Fundamentals
		THE 107	Theater Workshop
8. ARTS		THE 109	Television Production 2
ART 101	Introduction to Art	THE 109	Stage Make-Up
ART 103	Drawing 1	THE 111	Stage Movement
ART 104	Drawing 2	THE 113	Intro to Technical Production
ART 107	Design 1	THE 115	Performing Arts Seminar
ART 108	Design 2	Note: Arts cou	rses must be combined with other one and two credit
ART 108 ART 111	Design 2 Color		rses must be combined with other one and two credit
ART 111	Color	Note: Arts courcourses for a total	
ART 111 ART 113	Color Painting 1	courses for a tota	al of three.
ART 111 ART 113 ART 114	Color Painting 1 Painting 2	courses for a total 9. FOREIGN	al of three.
ART 111 ART 113 ART 114 ART 117	Color Painting 1 Painting 2 Figure Drawing 1	9. FOREIGN FRE 101	of three. LANGUAGE Elementary French 1
ART 111 ART 113 ART 114 ART 117 ART 118	Color Painting 1 Painting 2 Figure Drawing 1 Figure Drawing 2	9. FOREIGN FRE 101 FRE 102	I LANGUAGE Elementary French 1 Elementary French 2
ART 111 ART 113 ART 114 ART 117 ART 118 ART 119	Color Painting 1 Painting 2 Figure Drawing 1 Figure Drawing 2 Photography 1	9. FOREIGN FRE 101 FRE 102 FRE 201	LANGUAGE Elementary French 1 Elementary French 2 Intermediate French 1
ART 111 ART 113 ART 114 ART 117 ART 118 ART 119 ART 120	Color Painting 1 Painting 2 Figure Drawing 1 Figure Drawing 2 Photography 1 Photography 2	9. FOREIGN FRE 101 FRE 102 FRE 201 FRE 202	I LANGUAGE Elementary French 1 Elementary French 2 Intermediate French 1 Intermediate French 2
ART 111 ART 113 ART 114 ART 117 ART 118 ART 119 ART 120 ART 123	Color Painting 1 Painting 2 Figure Drawing 1 Figure Drawing 2 Photography 1 Photography 2 VisCom & Graphic Design 1	9. FOREIGN FRE 101 FRE 102 FRE 201 FRE 202 FRE 203	I LANGUAGE Elementary French 1 Elementary French 2 Intermediate French 1 Intermediate French 2 Advanced French 1
ART 111 ART 113 ART 114 ART 117 ART 118 ART 119 ART 120 ART 123 ART 124	Color Painting 1 Painting 2 Figure Drawing 1 Figure Drawing 2 Photography 1 Photography 2 VisCom & Graphic Design 1 VisCom & Graphic Design 2	9. FOREIGN FRE 101 FRE 102 FRE 201 FRE 202 FRE 203 FRE 204	I LANGUAGE Elementary French 1 Elementary French 2 Intermediate French 1 Intermediate French 2 Advanced French 1 Advanced French 2
ART 111 ART 113 ART 114 ART 117 ART 118 ART 119 ART 120 ART 123 ART 124 ART 213	Color Painting 1 Painting 2 Figure Drawing 1 Figure Drawing 2 Photography 1 Photography 2 VisCom & Graphic Design 1 VisCom & Graphic Design 2 Painting 3	9. FOREIGN FRE 101 FRE 102 FRE 201 FRE 202 FRE 203 FRE 204 GRM 101	I LANGUAGE Elementary French 1 Elementary French 2 Intermediate French 1 Intermediate French 2 Advanced French 1 Advanced French 2 Elementary German 1
ART 111 ART 113 ART 114 ART 117 ART 118 ART 119 ART 120 ART 123 ART 124 ART 213 ART 214	Color Painting 1 Painting 2 Figure Drawing 1 Figure Drawing 2 Photography 1 Photography 2 VisCom & Graphic Design 1 VisCom & Graphic Design 2 Painting 3 Painting 4	9. FOREIGN FRE 101 FRE 102 FRE 201 FRE 202 FRE 203 FRE 204 GRM 101 GRM 102	I LANGUAGE Elementary French 1 Elementary French 2 Intermediate French 1 Intermediate French 2 Advanced French 1 Advanced French 2 Elementary German 1 Elementary German 2
ART 111 ART 113 ART 114 ART 117 ART 118 ART 119 ART 120 ART 123 ART 124 ART 213 ART 214 ART 215	Color Painting 1 Painting 2 Figure Drawing 1 Figure Drawing 2 Photography 1 Photography 2 VisCom & Graphic Design 1 VisCom & Graphic Design 2 Painting 3 Painting 4 Portrait Painting (3)	9. FOREIGN FRE 101 FRE 102 FRE 201 FRE 202 FRE 203 FRE 204 GRM 101 GRM 102 ITA 101	I LANGUAGE Elementary French 1 Elementary French 2 Intermediate French 1 Intermediate French 2 Advanced French 1 Advanced French 2 Elementary German 1 Elementary German 2 Elementary Italian 1
ART 111 ART 113 ART 114 ART 117 ART 118 ART 119 ART 120 ART 123 ART 124 ART 213 ART 214 ART 215 ART 223	Color Painting 1 Painting 2 Figure Drawing 1 Figure Drawing 2 Photography 1 Photography 2 VisCom & Graphic Design 1 VisCom & Graphic Design 2 Painting 3 Painting 4 Portrait Painting (3) VisCom & Graphic Design 3	9. FOREIGN FRE 101 FRE 102 FRE 201 FRE 202 FRE 203 FRE 204 GRM 101 GRM 102 ITA 101 ITA 102	I LANGUAGE Elementary French 1 Elementary French 2 Intermediate French 1 Intermediate French 2 Advanced French 1 Advanced French 2 Elementary German 1 Elementary German 2 Elementary Italian 1 Elementary Italian 1
ART 111 ART 113 ART 114 ART 117 ART 118 ART 119 ART 120 ART 123 ART 124 ART 213 ART 214 ART 215 ART 223 ART 224	Color Painting 1 Painting 2 Figure Drawing 1 Figure Drawing 2 Photography 1 Photography 2 VisCom & Graphic Design 1 VisCom & Graphic Design 2 Painting 3 Painting 4 Portrait Painting (3) VisCom & Graphic Design 3 VisCom & Graphic Design 4	9. FOREIGN FRE 101 FRE 102 FRE 201 FRE 202 FRE 203 FRE 204 GRM 101 GRM 102 ITA 101 ITA 102 SPN 101	I LANGUAGE Elementary French 1 Elementary French 2 Intermediate French 1 Intermediate French 2 Advanced French 1 Advanced French 2 Elementary German 1 Elementary German 2 Elementary Italian 1 Elementary Italian 2 Elementary Spanish 1
ART 111 ART 113 ART 114 ART 117 ART 118 ART 119 ART 120 ART 123 ART 124 ART 213 ART 214 ART 215 ART 223 ART 224 ART 230	Color Painting 1 Painting 2 Figure Drawing 1 Figure Drawing 2 Photography 1 Photography 2 VisCom & Graphic Design 1 VisCom & Graphic Design 2 Painting 3 Painting 4 Portrait Painting (3) VisCom & Graphic Design 3 VisCom & Graphic Design 4 Arts and Communication Practicum	9. FOREIGN FRE 101 FRE 102 FRE 201 FRE 202 FRE 203 FRE 204 GRM 101 GRM 102 ITA 101 ITA 102 SPN 101 SPN 102	I LANGUAGE Elementary French 1 Elementary French 2 Intermediate French 1 Intermediate French 2 Advanced French 1 Advanced French 2 Elementary German 1 Elementary German 2 Elementary Italian 1 Elementary Italian 2 Elementary Spanish 1 Elementary Spanish 2
ART 111 ART 113 ART 114 ART 117 ART 118 ART 119 ART 120 ART 123 ART 124 ART 213 ART 214 ART 215 ART 223 ART 224	Color Painting 1 Painting 2 Figure Drawing 1 Figure Drawing 2 Photography 1 Photography 2 VisCom & Graphic Design 1 VisCom & Graphic Design 2 Painting 3 Painting 4 Portrait Painting (3) VisCom & Graphic Design 3 VisCom & Graphic Design 4	9. FOREIGN FRE 101 FRE 102 FRE 201 FRE 202 FRE 203 FRE 204 GRM 101 GRM 102 ITA 101 ITA 102 SPN 101	I LANGUAGE Elementary French 1 Elementary French 2 Intermediate French 1 Intermediate French 2 Advanced French 1 Advanced French 2 Elementary German 1 Elementary German 2 Elementary Italian 1 Elementary Italian 2 Elementary Spanish 1
ART 111 ART 113 ART 114 ART 117 ART 118 ART 119 ART 120 ART 123 ART 124 ART 213 ART 214 ART 215 ART 223 ART 224 ART 230	Color Painting 1 Painting 2 Figure Drawing 1 Figure Drawing 2 Photography 1 Photography 2 VisCom & Graphic Design 1 VisCom & Graphic Design 2 Painting 3 Painting 4 Portrait Painting (3) VisCom & Graphic Design 3 VisCom & Graphic Design 4 Arts and Communication Practicum	9. FOREIGN FRE 101 FRE 102 FRE 201 FRE 202 FRE 203 FRE 204 GRM 101 GRM 102 ITA 101 ITA 102 SPN 101 SPN 102	I LANGUAGE Elementary French 1 Elementary French 2 Intermediate French 1 Intermediate French 2 Advanced French 1 Advanced French 2 Elementary German 1 Elementary German 2 Elementary Italian 1 Elementary Italian 2 Elementary Spanish 1 Elementary Spanish 2
ART 111 ART 113 ART 114 ART 117 ART 118 ART 119 ART 120 ART 123 ART 124 ART 213 ART 214 ART 215 ART 223 ART 224 ART 230 COM 103	Color Painting 1 Painting 2 Figure Drawing 1 Figure Drawing 2 Photography 1 Photography 2 VisCom & Graphic Design 1 VisCom & Graphic Design 2 Painting 3 Painting 4 Portrait Painting (3) VisCom & Graphic Design 3 VisCom & Graphic Design 4 Arts and Communication Practicum Speaking Voice	9. FOREIGN FRE 101 FRE 102 FRE 201 FRE 202 FRE 203 FRE 204 GRM 101 GRM 102 ITA 101 ITA 102 SPN 101 SPN 102 SPN 201	I LANGUAGE Elementary French 1 Elementary French 2 Intermediate French 1 Intermediate French 2 Advanced French 1 Advanced French 2 Elementary German 1 Elementary German 2 Elementary Italian 1 Elementary Italian 2 Elementary Spanish 1 Elementary Spanish 2 Intermediate Spanish 1 Intermediate Spanish 2
ART 111 ART 113 ART 114 ART 117 ART 118 ART 119 ART 120 ART 120 ART 123 ART 124 ART 213 ART 214 ART 215 ART 223 ART 224 ART 230 COM 103 COM 107	Color Painting 1 Painting 2 Figure Drawing 1 Figure Drawing 2 Photography 1 Photography 2 VisCom & Graphic Design 1 VisCom & Graphic Design 2 Painting 3 Painting 4 Portrait Painting (3) VisCom & Graphic Design 3 VisCom & Graphic Design 4 Arts and Communication Practicum Speaking Voice Television Production 1	9. FOREIGN FRE 101 FRE 102 FRE 201 FRE 202 FRE 203 FRE 204 GRM 101 GRM 102 ITA 101 ITA 102 SPN 101 SPN 102 SPN 201 SPN 202	I LANGUAGE Elementary French 1 Elementary French 2 Intermediate French 1 Intermediate French 2 Advanced French 1 Advanced French 2 Elementary German 1 Elementary German 2 Elementary Italian 1 Elementary Italian 1 Elementary Spanish 1 Elementary Spanish 1 Intermediate Spanish 2 Spanish Conversation & Comp.
ART 111 ART 113 ART 114 ART 117 ART 118 ART 119 ART 120 ART 123 ART 124 ART 213 ART 214 ART 215 ART 223 ART 224 ART 223 COM 103 COM 107 COM 201 COM 209	Color Painting 1 Painting 2 Figure Drawing 1 Figure Drawing 2 Photography 1 Photography 2 VisCom & Graphic Design 1 VisCom & Graphic Design 2 Painting 3 Painting 4 Portrait Painting (3) VisCom & Graphic Design 3 VisCom & Graphic Design 4 Arts and Communication Practicum Speaking Voice Television Production 1 Oral Interpretation	9. FOREIGN FRE 101 FRE 102 FRE 201 FRE 202 FRE 203 FRE 204 GRM 101 GRM 102 ITA 101 ITA 102 SPN 101 SPN 102 SPN 201 SPN 202 SPN 203	I LANGUAGE Elementary French 1 Elementary French 2 Intermediate French 1 Intermediate French 2 Advanced French 1 Advanced French 2 Elementary German 1 Elementary German 2 Elementary Italian 1 Elementary Italian 2 Elementary Spanish 1 Elementary Spanish 2 Intermediate Spanish 1 Intermediate Spanish 2
ART 111 ART 113 ART 114 ART 117 ART 118 ART 119 ART 120 ART 123 ART 124 ART 213 ART 214 ART 215 ART 215 ART 223 ART 224 ART 230 COM 103 COM 107 COM 201 COM 209 DNC 101	Color Painting 1 Painting 2 Figure Drawing 1 Figure Drawing 2 Photography 1 Photography 2 VisCom & Graphic Design 1 VisCom & Graphic Design 2 Painting 3 Painting 4 Portrait Painting (3) VisCom & Graphic Design 3 VisCom & Graphic Design 4 Arts and Communication Practicum Speaking Voice Television Production 1 Oral Interpretation Debate Modern Dance 1	9. FOREIGN FRE 101 FRE 102 FRE 201 FRE 202 FRE 203 FRE 204 GRM 101 GRM 102 ITA 101 ITA 102 SPN 101 SPN 102 SPN 201 SPN 201 SPN 202 SPN 203 SPN 204	I LANGUAGE Elementary French 1 Elementary French 2 Intermediate French 1 Intermediate French 1 Intermediate French 2 Advanced French 1 Advanced French 2 Elementary German 1 Elementary German 2 Elementary Italian 1 Elementary Italian 2 Elementary Spanish 1 Elementary Spanish 2 Intermediate Spanish 2 Spanish Conversation & Comp. Introduction to Spanish Lit.
ART 111 ART 113 ART 114 ART 117 ART 118 ART 119 ART 120 ART 120 ART 123 ART 124 ART 213 ART 214 ART 215 ART 215 ART 223 ART 224 ART 220 COM 103 COM 107 COM 201 COM 209 DNC 101 DNC 102	Color Painting 1 Painting 2 Figure Drawing 1 Figure Drawing 2 Photography 1 Photography 2 VisCom & Graphic Design 1 VisCom & Graphic Design 2 Painting 3 Painting 4 Portrait Painting (3) VisCom & Graphic Design 3 VisCom & Graphic Design 4 Arts and Communication Practicum Speaking Voice Television Production 1 Oral Interpretation Debate Modern Dance 1 Modern Dance 2	9. FOREIGN FRE 101 FRE 102 FRE 201 FRE 202 FRE 203 FRE 204 GRM 101 GRM 102 ITA 101 ITA 102 SPN 101 SPN 102 SPN 201 SPN 201 SPN 202 SPN 203 SPN 204	I LANGUAGE Elementary French 1 Elementary French 2 Intermediate French 1 Intermediate French 2 Advanced French 1 Advanced French 2 Elementary German 1 Elementary German 2 Elementary Italian 1 Elementary Italian 2 Elementary Spanish 1 Elementary Spanish 2 Intermediate Spanish 2 Spanish Conversation & Comp. Introduction to Spanish Lit.
ART 111 ART 113 ART 114 ART 117 ART 118 ART 119 ART 120 ART 120 ART 123 ART 124 ART 213 ART 214 ART 215 ART 215 ART 223 ART 224 ART 230 COM 103 COM 103 COM 107 COM 201 COM 209 DNC 101 DNC 102 DNC 201	Color Painting 1 Painting 2 Figure Drawing 1 Figure Drawing 2 Photography 1 Photography 2 VisCom & Graphic Design 1 VisCom & Graphic Design 2 Painting 3 Painting 4 Portrait Painting (3) VisCom & Graphic Design 3 VisCom & Graphic Design 4 Arts and Communication Practicum Speaking Voice Television Production 1 Oral Interpretation Debate Modern Dance 1 Modern Dance 2 Advanced Dance 1	9. FOREIGN FRE 101 FRE 102 FRE 201 FRE 202 FRE 203 FRE 204 GRM 101 GRM 102 ITA 101 ITA 102 SPN 101 SPN 102 SPN 201 SPN 201 SPN 202 SPN 203 SPN 204	I LANGUAGE Elementary French 1 Elementary French 2 Intermediate French 1 Intermediate French 2 Advanced French 1 Advanced French 2 Elementary German 1 Elementary German 2 Elementary Italian 1 Elementary Italian 2 Elementary Spanish 1 Elementary Spanish 2 Intermediate Spanish 2 Spanish Conversation & Comp. Introduction to Spanish Lit.
ART 111 ART 113 ART 114 ART 117 ART 118 ART 119 ART 120 ART 120 ART 123 ART 124 ART 213 ART 214 ART 215 ART 215 ART 223 ART 224 ART 230 COM 103 COM 107 COM 201 COM 209 DNC 101 DNC 102 DNC 201 DNC 202	Color Painting 1 Painting 2 Figure Drawing 1 Figure Drawing 2 Photography 1 Photography 2 VisCom & Graphic Design 1 VisCom & Graphic Design 2 Painting 3 Painting 4 Portrait Painting (3) VisCom & Graphic Design 3 VisCom & Graphic Design 4 Arts and Communication Practicum Speaking Voice Television Production 1 Oral Interpretation Debate Modern Dance 1 Modern Dance 2 Advanced Dance 1 Advanced Dance 2	9. FOREIGN FRE 101 FRE 102 FRE 201 FRE 202 FRE 203 FRE 204 GRM 101 GRM 102 ITA 101 ITA 102 SPN 101 SPN 102 SPN 201 SPN 201 SPN 202 SPN 203 SPN 204	I LANGUAGE Elementary French 1 Elementary French 2 Intermediate French 1 Intermediate French 2 Advanced French 1 Advanced French 2 Elementary German 1 Elementary German 2 Elementary Italian 1 Elementary Italian 2 Elementary Spanish 1 Elementary Spanish 2 Intermediate Spanish 2 Spanish Conversation & Comp. Introduction to Spanish Lit.
ART 111 ART 113 ART 114 ART 117 ART 118 ART 119 ART 120 ART 120 ART 123 ART 124 ART 213 ART 214 ART 215 ART 215 ART 223 ART 224 ART 230 COM 103 COM 107 COM 201 COM 209 DNC 101 DNC 102 DNC 201 DNC 202 ENG 211	Color Painting 1 Painting 2 Figure Drawing 1 Figure Drawing 2 Photography 1 Photography 2 VisCom & Graphic Design 1 VisCom & Graphic Design 2 Painting 3 Painting 4 Portrait Painting (3) VisCom & Graphic Design 3 VisCom & Graphic Design 4 Arts and Communication Practicum Speaking Voice Television Production 1 Oral Interpretation Debate Modern Dance 1 Modern Dance 2 Advanced Dance 2 Creative Writing: Fiction	9. FOREIGN FRE 101 FRE 102 FRE 201 FRE 202 FRE 203 FRE 204 GRM 101 GRM 102 ITA 101 ITA 102 SPN 101 SPN 102 SPN 201 SPN 202 SPN 203 SPN 204	I LANGUAGE Elementary French 1 Elementary French 2 Intermediate French 1 Intermediate French 1 Intermediate French 2 Advanced French 1 Advanced French 2 Elementary German 1 Elementary German 2 Elementary Italian 1 Elementary Italian 2 Elementary Spanish 1 Elementary Spanish 2 Intermediate Spanish 2 Spanish Conversation & Comp. Introduction to Spanish Lit. DMMUNICATIONS Freshman English 1 and Foundations of Communication
ART 111 ART 113 ART 114 ART 117 ART 118 ART 119 ART 120 ART 123 ART 124 ART 213 ART 214 ART 215 ART 215 ART 223 ART 224 ART 230 COM 103 COM 103 COM 107 COM 201 COM 209 DNC 101 DNC 102 DNC 201 DNC 201 DNC 202 ENG 211 ENG 212	Color Painting 1 Painting 2 Figure Drawing 1 Figure Drawing 2 Photography 1 Photography 2 VisCom & Graphic Design 1 VisCom & Graphic Design 2 Painting 3 Painting 4 Portrait Painting (3) VisCom & Graphic Design 3 VisCom & Graphic Design 4 Arts and Communication Practicum Speaking Voice Television Production 1 Oral Interpretation Debate Modern Dance 1 Modern Dance 2 Advanced Dance 1 Advanced Dance 2 Creative Writing: Fiction Creative Writing: Poetry	9. FOREIGN FRE 101 FRE 102 FRE 201 FRE 202 FRE 203 FRE 204 GRM 101 GRM 102 ITA 101 ITA 102 SPN 101 SPN 102 SPN 201 SPN 201 SPN 203 SPN 204 10. BASIC CO ENG 101 COM 101 Note: Courses in	I LANGUAGE Elementary French 1 Elementary French 2 Intermediate French 1 Intermediate French 2 Advanced French 1 Advanced French 2 Elementary German 1 Elementary German 2 Elementary Italian 1 Elementary Italian 2 Elementary Spanish 1 Elementary Spanish 2 Intermediate Spanish 2 Intermediate Spanish 2 Spanish Conversation & Comp. Introduction to Spanish Lit. DMMUNICATIONS Freshman English 1 and Foundations of Communication
ART 111 ART 113 ART 114 ART 117 ART 118 ART 119 ART 120 ART 120 ART 123 ART 124 ART 213 ART 214 ART 215 ART 215 ART 223 ART 224 ART 230 COM 103 COM 103 COM 107 COM 201 COM 209 DNC 101 DNC 102 DNC 201 DNC 201 DNC 202 ENG 211 ENG 212 MUS 101	Color Painting 1 Painting 2 Figure Drawing 1 Figure Drawing 2 Photography 1 Photography 2 VisCom & Graphic Design 1 VisCom & Graphic Design 2 Painting 3 Painting 4 Portrait Painting (3) VisCom & Graphic Design 3 VisCom & Graphic Design 4 Arts and Communication Practicum Speaking Voice Television Production 1 Oral Interpretation Debate Modern Dance 1 Modern Dance 2 Advanced Dance 1 Advanced Dance 2 Creative Writing: Fiction Creative Writing: Poetry Introduction to Music	9. FOREIGN FRE 101 FRE 102 FRE 201 FRE 202 FRE 203 FRE 204 GRM 101 GRM 102 ITA 101 ITA 102 SPN 101 SPN 102 SPN 201 SPN 201 SPN 203 SPN 204 10. BASIC CO ENG 101 COM 101 Note: Courses in requirement and	I LANGUAGE Elementary French 1 Elementary French 2 Intermediate French 1 Intermediate French 1 Intermediate French 2 Advanced French 1 Advanced French 2 Elementary German 1 Elementary German 2 Elementary Italian 1 Elementary Italian 2 Elementary Spanish 1 Elementary Spanish 1 Intermediate Spanish 2 Intermediate Spanish 2 Spanish Conversation & Comp. Introduction to Spanish Lit. DMMUNICATIONS Freshman English 1 and Foundations of Communication That are a part of the College's General Education of Which are followed by an H are Honors sections of
ART 111 ART 113 ART 114 ART 117 ART 118 ART 119 ART 120 ART 123 ART 124 ART 213 ART 214 ART 215 ART 215 ART 223 ART 224 ART 230 COM 103 COM 103 COM 107 COM 201 COM 209 DNC 101 DNC 102 DNC 201 DNC 201 DNC 202 ENG 211 ENG 212	Color Painting 1 Painting 2 Figure Drawing 1 Figure Drawing 2 Photography 1 Photography 2 VisCom & Graphic Design 1 VisCom & Graphic Design 2 Painting 3 Painting 4 Portrait Painting (3) VisCom & Graphic Design 3 VisCom & Graphic Design 4 Arts and Communication Practicum Speaking Voice Television Production 1 Oral Interpretation Debate Modern Dance 1 Modern Dance 2 Advanced Dance 1 Advanced Dance 2 Creative Writing: Fiction Creative Writing: Poetry	9. FOREIGN FRE 101 FRE 102 FRE 201 FRE 202 FRE 203 FRE 204 GRM 101 GRM 102 ITA 101 ITA 102 SPN 101 SPN 102 SPN 201 SPN 201 SPN 202 SPN 203 SPN 204 10. BASIC CO ENG 101 COM 101 Note: Courses is requirement and regular courses.	I LANGUAGE Elementary French 1 Elementary French 2 Intermediate French 1 Intermediate French 2 Advanced French 1 Advanced French 2 Elementary German 1 Elementary German 2 Elementary Italian 1 Elementary Italian 2 Elementary Spanish 1 Elementary Spanish 2 Intermediate Spanish 2 Intermediate Spanish 2 Spanish Conversation & Comp. Introduction to Spanish Lit. DMMUNICATIONS Freshman English 1 and Foundations of Communication

Guide for Social Science Requirement

GUIDE FOR SOCIAL SCIENCE REQUIREMENT

12 Credits of Social Science - select one course from group A, B, C and D.

	nited States History, or United States Gov		
ECO 201	Macro-Economics	HIS 103	History of African Americans
ECO 202	Micro-Economics	ECO 203	Economic Development+
HIS 101	U.S. History to 1865	POL 102	U.S. Government-State & Local
HIS 102	U.S. History Since 1865	POL 103	U.S. Government- National
B. Psychology			
PSY 100	Psych. of Adjustment	PSY 230	Abnormal Psychology+
PSY 222	Psychology of Adolescence+	PSY 220	Developmental Psychology+
PSY 101	General Psychology 1	PSY 240	Social Psychology+
PSY 223	Psych. of Adulthood & Aging+	PSY 221	Child Psychology+
PSY 102	General Psychology 2+		
C. Anthropology	, Criminal Justice, Human Geography, or	Sociology	
ANT 101	Cultural & Social Anthropology	CRJ 111	Criminology
ANT 102	Human Evolution	GEO 102	Human Geography
ANT 103	Archaeology & Prehistory	SOC 101	Introduction to Sociology
CRJ 101	Criminal Justice	SOC 120	Social Problems
CRJ 103	Understand. Juvenile Offender	SOC 231	The Family+
CRJ 105	Policy-Community Relations		
•	than U.S., Comparative Government, or I		
HIS 105	Science, Technology & Society	HIS 133	Modern Europe
HIS 121	World History to 1500AD	HIS 220	Modern China & Japan
HIS 122	World History since 1500AD	HIS 221	Modern India & Southeast Asia
HIS 123	Latin American Heritage/History	HIS 222	The Middle East
HIS 124	Africa: Past and Present	POL 101	Intro to Political Science
HIS 130	The Greek & Roman World	POL 220	Comparative Government
HIS 131	Medieval & Renaissance Europe	POL 221	International Relations
HIS 132	The Age of Revolution		

⁺ these courses have a prerequisite