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	64-65
Accounting	AAS	5002	66-67
Accounting Procedures	Cert.	5002	68-69
Architectural Technology	AAS	5317	70-71
Business Administration	AS	5004	72-73
Business Management	AAS	5004	74-75
Business Studies	Cert.	5001.0	76-77
Clerical Office Assistant	Cert.	5005	78-79
Computer Information Technology (CIT)–Networking	AAS	5101	80-81
Computer Information Technology (CIT)–Web Development	AAS	5101	82-83
Computer Science	AS	5101	84-85
Criminal Justice	AS	5505	86-87
Criminal Justice-Police	AAS	5505	88-89
Cyber Security	AAS	5199	90-91
Dental Hygiene	AAS	5203	92-93
Early Childhood Development & Care	AAS	5503	94-95
Early Childhood Development & Care	Cert.	5003	96-97
Electrical Technology—Telecommunications	AAS	5310	98-99
Emergency Management	AAS		100-101
Engineering Science	AS	5609	102-103
Exercise Studies	AS	5299.30	104-105
Honors Program			106-107
Human Services	AS	5501	108-109
International Studies	AA	5622	110-111
Jointly Registered Teacher Education Program (JRTEP)			
(Liberal Arts and Science)	AA	5649	112-117
Jointly Registered Teacher Education Program (JRTEP)			
(Liberal Arts and Science)	AS	5649	118-121
Law Enforcement/Security	Cert.	5505	122-123
Liberal Arts: Humanities & Social Science	AA	5649	124-125
Liberal Arts: Individual Studies	AS	5699	126-127
Liberal Arts & Sciences/			
Mathematics & Natural Science	AS	5649	128-129
Marketing	AAS	5004	130-131
Medical Laboratory Technology	AAS	5205	132-133
Medical Office Assistant	AAS	5005	134-135
Nursing	AAS	5208.10	136-139
Occupational Therapy Assistant	AAS	5210	140-141
Office Technologies	AAS	5005	142-143
Performing Arts: Music	AAS	5610	144-145
Physical Therapist Assistant	AAS	5219	146-147
Radiologic Technology	AAS	5207	148-149
Teaching Assistant	Cert.	5101	150-151
Telecommunications	Cert.	5310	152-153
Visual Communications Technology: Graphic Arts/Printing	AAS	0590	154-155
SUNY General Education Course Listing			156-157
Guide for Social Science Requirement			158
Non-SUNY Elective Categories			159

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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 at least an overall "C" average (CQPA of 2.00)
- 30 of the total number of required credits must be taken at SUNY Orange
- For all A.A.S. degree programs, students are also required to achieve at least an overall "C" average (CQPA of 2.00) in their professional/technical major

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.

As of the Spring 2011 semester, students enrolled in the Business Management, Criminal Justice, Criminal Justice–Police, Human Services, Liberal Arts: Humanities and Social Science, Liberal Arts: Individual Studies and Nursing degree programs on the Newburgh campus can complete all of their degree requirements at that campus. Students enrolled in the College's remaining degree programs may take courses in Newburgh but must also complete a portion of their degree requirements at the Middletown campus.

Students may complete no more than 30 of their credits online as the College does not offer complete degree programs 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.

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Accounting

Degree Awarded: Associate in Science

Accredited by the Accreditation Council for Business Schools and Programs (ACBSP) 7007 College Boulevard, Suite 420, Overland Park, KS, 66211

Recommended Course Sequence

F1 . G		G 11.
First Sem		Credits
ENG 101	Freshman English 1	3
) (A TE	Restricted SUNY Elective*	3
MAT	Math Course**	3/4
	Keyboarding***	1
	Financial Accounting	4
BUS 161	Computer Applications for	
DDG 400	Business****	3
PES 100	Concepts of Physical Wellness	s 1
Second Se		
ENG 102	Freshman English 2	3
	Restricted SUNY Elective*	3
MAT	Math Course	**3/4
ECO 201	Macro-Economics	3
ACC 154	Managerial Accounting	4
PES	Physical Education	1
Third Ser		
ECO 202	Micro-Economics	3
	SUNY Natural Science (GE	2) 3/4
BUS 201	Business Law 1	3
ACC 205	Accounting w/ Micro. Appl.	or
BUS 205	Business Statistics	3
ACC 201	Intermediate Accounting 1	4
Fourth Se	emester	
	Restricted SUNY Elective*	3
MKT 101	Marketing or	
	Principles of Management	3
BUS 202	Business Law 2	3
ACC 202	Intermediate Accounting 2	4
	Business Communications	3
	Total Credit	s: 67-70
ACC 220	Accounting Internship+	3

* Select from three different SUNY lists; do not duplicate: American History (GE 4), Western Civilization (GE 5), Other/World Civilization (GE 6), Arts (GE 8), Foreign Language (GE 9).

** 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)

****formerly CIT 101 Microcomputer Applications

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.

This degree has been approved by ACBSP and SUNY NYS Education Department for online distance learning delivery. This does not mean that SUNY Orange offers every course in the program online; however, many are offered in this format. Please check the current credit course schedule for online DL virtual course listings offered each semester.

^{***} 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

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

Accounting

Degree Awarded: Associate in Applied Science

Accredited by the Accreditation Council for 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	
	Business Math	3
	Introduction to Business	3 3 3
ACC 101	Accounting Principles 1	4
OFT 106	Keyboarding*	1
PES 100	Concepts of Physical Wellness	1
Second Se	emester	
	Freshman English 2	3
MAT	Mathematics	3
BUS 161	Computer Applications for	
	Business***	3
BUS 105	Business & Society	3
	Accounting Principles 2	4
PES	Physical Education	1
Third Ser		
	Social Science Elective	3
BUS 201	Business Law 1	3 3 3
BUS 203	Business Communications	3
ACC 211	Income Tax Procedures	3
ACC 205	Accounting with Microcomp Applications	uter 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.

This degree has been approved by ACBSP and SUNY NYS Education Department for online distance learning delivery. This does not mean that SUNY Orange offers every course in the program online; however, many are offered in this format. Please check the current credit course schedule for online DL virtual course listings offered each semester.

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^{*} 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.

^{***}formerly CIT 101 Microcomputer Applications

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

Business 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
BUS 161	Computer Applications for	
	Business***	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

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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. ***formerly CIT 101 Microcomputer Applications

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

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

Architectural Technology

Degree Awarded: Associate in Applied Science

Recommended Course Sequence

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First Seme	ester	Credits
ENG 101	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	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	2 4
ARC 112	Architectural Design 2	3
ARC 215		ntury 3
Third Semester		
	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 (\mathbb{C} 3
PES 100	Concepts of Physical Wellne	ess 1
Fourth Se	mester	
	Social ScienceElective	3
ARC 220	Mechanical and Electrical Eq	uip. 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, Engineering and Architecture Department Chair (845) 341-4571 Admissions Office (845) 341-4030

Business Administration

Degree Awarded: Associate in Science

Accredited by the Accreditation Council for 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
	Foundations of Communicat	ion 3
MAT	Selected Math Courses*	3/4
MKT 101	Principles of Marketing	3
ACC 153	Financial Accounting	4
Second Se	mester	
OFT 106	Keyboarding***	1
ENG 102		3
	Restricted SUNY Elective**	3
MAT	Selected Math Courses*	3/4
ACC 154	Managerial Accounting	4
MGT 201	Principles of Management	3
Third Sem	nester	
ECO 201	Macro-Economics	3
	SUNY Natural Science (GE	2) 3/4
BUS 205	Business Statistics	3
BUS 201	Business Law 1	3
MGT 205	Human Resource Manageme	ent 3
PES 100	Concepts of Physical Wellness	1
PES	Physical Education	1
Fourth Ser	mester	
ECO 202	Micro-Economics	3
	SUNY Natural Science (GE2	2) 3/4
BUS 161	Computer Applications for	
	Business****	3
	Restricted SUNY Elective***	** 3
BUS 207	International Business	3
BUS 202	Business Law 2	3

Total Credits: 68-72

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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.

This degree has been approved by ACBSP and SUNY NYS Education Department for online distance learning delivery. This does not mean that SUNY Orange offers every course in the program online; however, many are offered in this format. Please check the current credit course schedule for online DL virtual course listings offered each semester.

^{*} 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 (GE 4), Western Civilization (GE 5) or Other/World Civilization (GE 6) or Arts (GE 8) or Foreign Language (GE 9) 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.

^{*****}formerly CIT 101 Microcomputer Applications

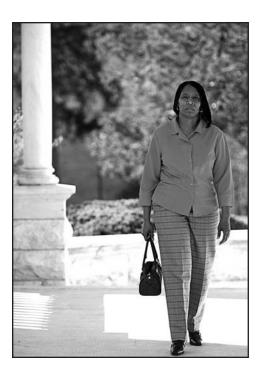
Business Administration

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

Business Management

Degree Awarded: Associate in Applied Science

Accredited by the Accreditation Council for Business Schools and Programs (ACBSP) 7007 College Boulevard, Suite 420, Overland Park, KS, 66211

Recommended Course Sequence

First Seme	ester (Credits
	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
OFT 106	Keyboarding*	1
Second Se	mester	
ENG 102	Freshman English 2	3
	Social Science Elective	3
	Math or Liberal Arts Science	
BUS 105	Business and Society	3
MKT 101	Principles of Marketing	3
PES 100	Concepts of Physical Wellnes	s 1
Third Sem		
ACC 101	Accounting Principles 1	4
BUS 161	Computer Applications in	
	Business***	3
BUS 203	Business Communications	3
BUS 201	Business Law 1	3
MGT 205	Human Resource Manageme	nt 3
PES	Physical Education	1
Fourth Ser		
	Accounting Principles 2	4
	Principles of Management	3
	Business Law 2	3
	Entrepreneurship or	3
MGT 220	Internship: Business**	
	Liberal Arts Elective	3

Total Credits: 65

This program can be completed in its entirety at either the Middletown campus or the Newburgh campus.

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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.

This degree has been approved by ACBSP and SUNY NYS Education Department for online distance learning delivery. This does not mean that SUNY Orange offers every course in the program online; however, many are offered in this format. Please check the current credit course schedule for online DL virtual course listings offered each semester.

^{*}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.

^{***}formerly CIT 101 Microcomputer Applications

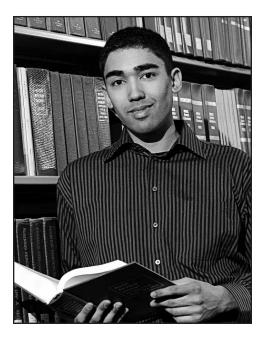
Business Management

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

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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
Remaining	10 credits (3 courses) must b	oe .
taken at SU	JNY New Paltz	

Total: 34

New Paltz Courses

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New Partz 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

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

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

Clerical Office Assistant

Degree Awarded: Certificate

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Recommended Course Sequence

First Seme	ester	Credits
OFT 108	Intermediate Computer	3
	Keyboarding	
OFT 208	Computer Fundamentals	
	for the Office or	
	Business Elective	3
OFT 209	Microsoft Word and PowerPo	oint 3
	Business Elective	3
Second Se	mester	
OFT 109	Advanced Computer	3
	Keyboarding	
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

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

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Computer Information Technology–Networking

Degree Awarded: Associate in Applied Science

Recommended Course Sequence Credits First Semester ENG 101 Freshman English 1 MAT ___ College Algebra or higher 3 3 CIT 103 Management Information Systems CIT 107 Introduction to C++ Programming 3 3 CIT 105 Data Communic. & Networking CIT 100 Computer Literacy 3 **Second Semester** ENG 102 Freshman English 2 3 MAT ___ College Trigonometry or higher 3 4 CIT 112 Computer Hardware and Maint. CIT 116 Networking 1 4 PES 100 Concepts of Physical Wellness 1 **Third Semester** 3 Social Science Elective CIT 211 Systems Analysis 3 CIT 225 Database Fundamentals 3 CIT 217 Unix/Linux CIT 203 Networking 2 4 PES Physical Education 1 **Fourth Semester** Social Science Elective 3 CIT 212 Systems Design 3 3 CIT 206 Network Security CIT 230 Internship 3 3 Restricted Elective* Total Credits: 65

Internet & HTML Programming

*Restricted Electives:

Visual Basic

Any course approved by department

CIT 111

CIT 115

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 to 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-of- the-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
- St. John's University
- SUNY Institute of Technology

Contact Information

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

Computer Information Technology—Web Development

Degree Awarded: Associate in Applied Science

Recommended Course Sequence

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First Seme	ester Credi	its
ENG 101	Freshman English 1	3
MAT	College Algebra or higher	3
CIT 103	Management Information Systems	3
CIT 100	Computer Literacy	3
CIT 111	Internet and HTML	3
PES 100	Concepts of Physical Wellness	1
Second Se	mester	
ENG 102	Freshman English 2	3
MAT	College Trigonometry or higher	3
BUS 111	E-Business Principles	3
CIT 217	Unix/Linux	3
CIT 108	Web Page Programming 1	3
PES	Physical Education	1
Third Sem	nester	
	Social Science Elective	3
CIT 105	Data Comm. &	
	Intro to Networking	3
CIT 211	Systems Analysis	3
CIT 225	Database Funds. and Design	3
CIT 205	Web Page Programming 2	3
Fourth Ser	mester	
	Social Science Elective	3
CIT 208	Flash Programming	3
CIT 230	Internship (E-Commerce	
	Practicum)	3
CIT 212	Systems Design	3
CIT 215	Web Site Management	3
CIT 216	Internet Security	3

Total Credits: 65

Program Description

The Associate in Applied Science degree program in CIT-Web Development prepares students for job entry in the field of Internet Systems. 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 to prepare for CIW certifications. The primary focus of this degree program is in the area of installation and configuring web server services and programs. The degree course work introduces students to basic web systems and builds on theoretical and technical knowledge and skills to develop a strong understanding of web technologies including the implementation of client and server sided web pages. Classes are designed to provide students with training utilizing state-of-the-art computer facilities. Students are also placed in a work environment in order to provide actual service to a business through the CIT-Web Development internship. Students are encouraged to discuss their future career and/or transfer goals with a CIT-Web Development 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.) Students should place into ENG 101 and MAT 121.)

NOTE: This program is being terminated. Please contact the department Chair, Fern Steane at 341-4523 with any questions or concerns

Computer Information Technology—Web Development

Degree Awarded: Associate in Applied Science

Student Learning Outcomes

Students will:

- summarize how web servers, browsers, XHTML, and scripting languages contribute to the Internet resource know as the Web.
- analyze an existing system and determine appropriate systems design implementation strategies.
- create and implement a Web site development cycle.
- create a Web page that utilizes XHTML, JavaScript, Flash, Dynamic HTML.
- identify and summarize security issues and then program a secure application for the internet.
- identify and discuss general quality assurance principles.
- create client sided Web page programs.
- create server-sided Web page programs.



Career Opportunities

- web development company
- small businesses
- · corporations
- advertising agencies
- medical offices
- government agencies
- 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
- SUNY Delhi

Contact Information

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

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Computer Science

Degree Awarded: Associate in Science

Recommended Course Sequence

First Semester		
ENG 101	Freshman English 1	3
	SUNY Social Science (GE 3)	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	Restricted History Elective*	3
MAT 206	Calculus 2	4
CSC 102	Computer Science 2	4
EET 104	Digital Electronics 1	4
PES	Physical Education	1
Third Sem	nester	
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 Ser	mester	
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

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Program Description

The Associate in Science degree program in Computer Science is designed for students of mathematics and science who wish to pursue a Bachelor of Science 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 (GE 4) or Western Civilization (GE 5) or Other/World Civilization (GE 6).

^{**}Consult catalog of the college to which you intend to transfer. Some require the General Physics with calculus. ***SUNY Arts (GE 8) or Foreign Language (GE 9) lists

or any list not selected from in Second Semester SUNY History Elective above.

Computer Science

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)
- St. John's University
- SUNY Binghamton
- · SUNY Buffalo
- · SUNY Institute of Technology
- SUNY New Paltz
- · SUNY Oneonta
- · SUNY Purchase

Contact Information

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

Criminal Justice

Degree Awarded: Associate in Science

Recommended Course Sequence

First Semester Cred		
ENG 101	Freshman English 1	3
CRJ 101	Criminal Justice	3
CRJ 105	Police Community Relations	3
CRJ 107	Industrial/Private Security or	
CRJ 106	Patrol Operations	3
CRJ 215	Criminal Investigation 1	3
PES 100	Concepts of Physical Wellness	1
Second Se	mester	
ENG 102	Freshman English 2	3
CRJ 111	Criminology	3
	SUNY Math (GE 1) -	
	MAT 121 or higher*	3/4
CRJ 213	Police Organization Admn.	3
CRJ 216	Criminal Investigation 2	3
PES	Physical Education	1
Third Semester		
PSY 101	General Psychology 1 or	
SOC 101	Introduction to Sociology	3
CRJ 109	Critical Issues in Law Enforc	ement3
	SUNY Natural Science (GE	2) 3/4
CRJ 226	Criminalistics	3
	Restricted SUNY Elective**	3
Fourth Se	mester	
COM 101	Foundations of Communicat	ion 3
	Restricted SUNY Elective**	3
CRJ 103	Understanding the Juvenile	
	Offender	3
CRJ 211	Criminal Law	3
	Elective	3

Total Credits: 62-64

This program can be completed in its entirety at either the Middletown campus or the Newburgh campus.

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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 ensure 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 (GE 5) or Other/World Civilization (GE 6) or Arts (GE 8) or Foreign Language (GE 9) or American History (GE 4) 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		Credits
ENG 101	Freshman English 1	3
	Criminal Justice	3
CRJ 105	Police/Community Relations	3
CRJ 107	Industrial & Private Security	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 103	Understanding the Juvenile	
	Offender	3
	Math or Liberal Arts Science	3
CRJ 213	<u> </u>	
	Administration	3
CRJ 226	Criminalistics	3
Fourth Semester		
COM 101	Foundation of Communication	
POL 102	U.S. Gov't-State & Local	3
CRJ 211	Criminal Law	3
	Math or Liberal Arts Science	3
	Elective*	3

Total Credits: 62

This program can be completed in its entirety at either the Middletown campus or the Newburgh campus.

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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

Criminal Justice-Police

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

Cyber Security

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Degree Awarded: Associate in Applied Science

Recommended Course Sequence

First Semester		Credits
ENG 101	Freshman English 1	3
MAT 121	College Algebra	3
CRJ 101	Intro to Criminal Justice	3
CIT 100	Computer Literacy	3
CIT 105	Data Communications and	
	Introduction to Networking	3
PES 100	Concepts of Physical Wellness	s 1
Second Se	emester	
ENG 102	Freshman English 2	3
CIT 116	Networking 1	4
CIT 112		
	Maintenance	4
CIT 118	Operating Systems	4
Third Semester		
CIT 203	Networking 2	4
CIT 217	Introduction to Unix/Linux	3
CFR 221	Computer Forensics	3
CSS 223		3
PSY	Psychology	3
PES	Physical Education	1
Fourth Semester		
CFR 222	Network Forensics	3
CSS 224	Network Perimeter Security	3
	Cyber Crime Investigations	3
CRJ 111		3
	Math or Liberal Arts Science	3

Total Credits: 65

Program Description

The Associate in Applied Science degree program in Cyber Security prepares students for employment in a variety of entry level careers in Cyber Security. Today, everyone is concerned with security, and people with knowledge in this area are in high demand. Positions can include such titles as Network Administrator, network security specialist, information security technician, just to name a few. The main thrust is protection of information and limiting access to network resources. In addition to security, students will also be instructed in techniques used to track perpetrators once an attack has occurred.

In addition to basic computer and networking skills, the student will be instructed in Operating Systems, Computer Forensics, Network Forensics, Information Security, Network Perimeter Security, and Cyber Crime Investigation.

Classes are designed to provide students with hands-on training utilizing state-of-the-art computer facilities. Lab work and assignments will present real world cyber security scenarios encountered in the work place. For forensics studies, industry standard software will be used.

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.

Degree Awarded: Associate in Applied Science

Student Learning Outcomes

Students will:

- develop basic network administration skills
- perform computer forensic analysis
- demonstrate an understanding of network forensics
- develop an understanding of the legal issues associated with cyber security
- document an appropriate procedure of handling case evidence

Career Opportunities

Entry level

- Network Administrator
- Network Security Specialist
- Computer Crime Investigation

Transfer Opportunities

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

These transfer institutions include:

• St. John's University

Contact Information

Applied Technology Department Chair 341-4523

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 Cre	dits	
	Freshman English 1	3	
BIO 115		4	
	General and Biological	7	
CIIIVI 110	Chemistry	3	
DNT 101	Preventive Oral Health Services		
	Maxillofacial Anatomy		
2111 100	and Oral Histology	4	
Second Se			
	Freshman English 2	3	
	Preventive Oral Health Services		
	Dental Radiology	3	
	Oral Health Education	3 2 2	
	Pharmacology	2	
MLT 106	Microbiology for Health		
	Professionals	3	
Summer S	ession 1		
DNT 110	Pain Management in Dentistry	2	
Third Sem	Third Semester		
BIO 125	Nutrition	3	
DNT 201	Preventive Oral Health		
	Services III	5	
DNT 203	Oral Pathology	2 2	
	Periodontology	2	
DNT 207	Dental Bio-Materials and		
	Advanced Functions	3	
PES 100	Concepts of Physical Wellness	1	
Fourth Ser			
COM 101		3	
PSY 101	General Psychology 1	3	
SOC 101	2,	3	
DNT 202	Preventive Oral Health		
	Services IV	5 2	
	Community Dental Health		
PES	Physical Education	1	

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.

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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. Upon initial entrance into the program, a negative 10-panel drug test and criminal background check will be required. 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 Freshman English I (ENG 101)
- Eligible to take Intermediate Algebra (MAT 102), or have completed Elementary Algebra (MAT 101) or equivalent with a 2.0 or higher
- Completed High School AP Biology (score of 3, 4, or 5) or a passing grade in the Biology CLEP examination; or introduction to Biology or Anatomy & Physiology 1 with a grade of 2.0 or better within 5 years (Spring, 2007 semester or later).
- Completed High School Regents Chemistry with a grade of 75 or better; Elements of Chemistry & Physics (CHM 120); or a college Chemistry course (with a lab) with a grade of 2.0 or better within 5 years (Spring, 2007 semester or later)
- Students must attain a minimum cumulative GPA of 2.5

Department Specific Requirements:

- Submit Dental Hygienist observation form (16 hour min. with documentation)
- Attendance at a Dental Hygiene department pre-admission orientation. At this orientation, students will receive and sign off on information pertaining to health forms, drug testing, and criminal record policies.

Note: Admission to this program is selective. In addition to an application to the College, students must apply for acceptance into this program through the Admissions office. Consideration for admission is based on the completion of all mandatory academic and departmental-specific requirements, highest combination of CQPA and credits completed towards the degree, Orange County residency and seat availability. All requirements must be completed and an eligibility form must be submitted to the Admissions Office before February 1 in order for a student to be considered for acceptance into this program for the Fall semester.

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
- Massachusetts College of Pharmacy and Health Sciences
- Pennsylvania College of Technology

Contact Information

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

Early Childhood Development and Care

Degree Awarded: Associate in Applied Science

Recommended Course Sequence

First Semester		its
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 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* (GE1)	3
EDU 208	Home, School, Community#	3
PES	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/Field	
	Experience 1++	5
EDU 201	Observation & Assessment++	3
	SUNY Gen Ed Elective**	3
Fourth Se	mester	
PED 156	Infant/Child First Aid & CPR	1
EDU 202	Infant and Toddler Care++#	3
EDU 204	Child Care Curriculum	
	Development/Field	
	Experience 2++#	5
EDU 206	Administration and	
	Management#	3
	SUNY Gen Ed Elective**	3

Total Credits: 64

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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. Upon completion of the coursework students will have accumulated 235 hours of field work.

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: Natural Sciences (GE2), American History (GE4), Western Civilization (GE5), Other World Civilizations (GE6), Arts (GE8), Foreign Languages (GE9), with at least ONE from either Category GE 4, GE 5 or GE 6.

Early Childhood Development and Care

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 341-4482 Admissions Office (845) 341-4030

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Early Childhood Development and Care

Degree Awarded: Certificate

Recommended Course Sequence

First Semester		lits
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	Childhood Health and Safety	3
EDU 202	Infant Toddler Development++#	3
EDU 206	Administration & Management#	or
EDU 208	Home, School, and Community#	3

Total Credits: 31

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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

Early Childhood Development and Care

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
341-4482
Admissions Office
(845) 341-4030

Electrical Technology—Telecommunications

Degree Awarded: Associate in Applied Science

Recommended Course Sequence

First Semester Cred		
ENG 101	Freshman English 1	3
ENG 160	Technical Writing Module	1.5
PHY 111	Applied Physics 1*	3
MAT 121	College Algebra or higher	3
EET 101	Electric Circuits	4
EET 110	Computer Appl. and Graphic	s 3
PES 100	Concepts of Physical Wellness	s 1
Second Se	mester	
ENG 102	Freshman English 2	3
	Social Science Elective	3
MAT 122	College Trigonometry or high	er 3
EET 106	Telecommunications 1	4
EET 104	Digital Electronics	4
Third Sem	nester	
ENG 161	Technical Writing Module	1.5
EET 201	_	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

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Program Description

The Associate in Applied Science degree program in Electrical 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.)

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^{*}students seeking transfer should speak to program advisor

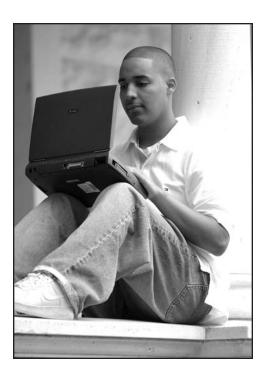
Electrical Technology—Telecommunications

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
- Vaughn College.

Contact Information

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

Emergency Management

Degree Awarded: Associate in Applied Science

Recommended Course Sequence First Semester Credits **ENG 101** Freshman English I 3 COM 101 Foundation of Communication EMG 150 Principles of Emergency Mgmt. Public Safety Critical Incident EMG 152 Management EMG 160 Developing Volunteer Resources Resource and Donations Mgmt. 2 EMG 162 EMG 170 Public Information Officer Basic 3 Course PES 100 Concepts of Physical Wellness 1 **Second Semester** ENG 102 3 Freshman English ll C I T 101 Microcomputer Applications 3 3-4 Science Elective EMG 178 Emergency Response Planning 3 EMG 180 **Emergency Management** Leadership EMG 182 Basic Incident Command System 1 EMG 184 Emergency Response to Terrorism 1 **Third Semester** POL 103 US Government-National MAT 102 Intermediate Algebra or Higher Elective EMG 252 Disaster Response and Recovery **Operations** EMG 256 Mitigation for Emergency Mgrs. 1.5 EMG 262 Intermediate Incident Command 1.5 System EMG 270 Multi-Hazard Emergency Response Planning for Schools PES Physical Education Activity **Fourth Semester** SOC 101 3 Introduction to Sociology Electives 6 EMG 278 **Emergency Operations Center** (EOC) Management EMG 280 Emergency Exercise Program 3 Management EMG 282 Advanced Incident Command 1.5 System EMG 284 Terrorism Response Planning Total Credits: 64-65

Specialization: Nine credits in a first responder area such as fire prevention, public safety, health professions, or emergency medical services. These credits may be transferred or completed at the Consortium college of student's residence.

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Program Description

Students who complete this program earn an Associate in Applied Science degree. The goal of the Emergency Management A.A.S. program at SUNY Orange is to prepare students to react to, and be effective before, during, and after any local, statewide, or national emergency. Students will develop the knowledge, experience, and critical decision-making and communications skills needed to respond appropriately to emergency and disaster situations and, more importantly, manage community resources in any crisis situation. This program meets New York State and Federal Emergency Management Agency (FEMA) education and training requirements.

The courses can be completed through part-time or fulltime study. Classes are given during days, evenings, and weekends, or online.

Admission Criteria

- · High school diploma or equivalent
- Satisfactory placement in Entering Student Assessment
- Prior experience in public service is recommended. This
 can be met by working with the following types of
 agencies:
 - Public Safety
 - Fire
 - EMS
 - · Law Enforcement
 - Hazardous Materials Responders
 - Public and Private Sector Safety and Security
 - Corrections
 - Health Care Agencies
 - Government
 - Transportation

SUNY Orange recognizes that there are many people and agencies, public and private, that could benefit from this program. Please contact the coordinator if you wish to discuss your experience to determine eligibility. The experience requirement ensures that students have basic understanding of an emergency service.

Developmental Assistance Available

For students who do not meet basic reading and math requirements, or who have other learning issues, extra assistance is readily available through SUNY Orange's Student Support Initiatives in the Shepard Student Center, Learning Center in the LRC, Harriman math lab, and the Writing Lab, the LRC Tutorial Center and English as a Second Language (ESL) tutors.

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Emergency Management

Degree Awarded: Associate in Science

Student Learning Outcomes

Graduates will be able to:

- communicate effectively a knowledge of emergency management content areas, including public safety critical incident command, emergency planning, emergency operations, exercise planning, emergency operations center organization and management, leadership, resource planning, utilization of national emergency management operation guidelines.
- apply the knowledge base of necessary skills to be able to function within the New York State and National incident management system during a local, state wide, or federal emergency.
- demonstrate critical thinking, communications, and management skills by analyzing situations, determining proper actions, understanding the costs and benefits of actions, evaluating possible alternatives and unforeseen circumstances, and then taking appropriate actions as an incident manager.



Career Opportunities

The Emergency Management A.A.S. program is designed to enhance the skills of already first responder employed personnel. The training will enable them to advance in their fields. chosen Emergency management expertise is valuable to first responders employed as police, fire fighters, emergency medical workers, or private safety and security officials.

Since the program will train emergency managers to a common emergency system and since opportunities for trained and experienced emergency managers now exist in every federal, state, municipal, and local government entity, graduates will be qualified for positions throughout New York as well as other states. In addition, almost all major private concerns maintain, plan for, and practice emergency management operation responses.

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

SUNY Orange Admissions Office (845) 341-4030 James Truitt, Program Coordinator, Emergency Management (800) 724-0833, ext. 5156 or (845) 687-5156 E-mail: truittj@sunyulster.edu

Engineering Science

Degree Awarded: Associate in Science

Recommended Course Sequence

First Seme	ester-Fall Cr	edits
ENG 101	Freshman English 1	3
	General Chemistry 1	4
	Physics for Science & Eng. 1	4
	Calculus 1	4
EGR 101	Engineering 1	3
PES 100	Concepts of Physical Wellness	1
Second Se	mester-Spring	
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 2	3
PES	Physical Education (two)	1
Third Sem	ester-Fall	
	SUNY Social Science (GE 3)	3
PHY 203	Physics for Science & Eng. 3	4
MAT 207	Calculus 3	4
EGR 205	Mechanics 1 (Statics)	4
	Engineering Elective	3
Fourth Semester-Spring		
	SUNY American History (GE	4) 3
MAT 214	Differential Equations & Series	4
EGR 206	Mechanics 2 (Dynamics)	4
	Engineering Elective	3
	Engineering Elective	2/3

Total Credits: 72-73

Note: Students must take a minimum of three courses (eight credits) from the following depending on their area of specialization:

Thermodynamics (EGR 214) summer Solid Mechanics (EGR 220) spring Circuit Theory (EGR 212) spring Modern Physics (PHY 204)

Materials Science (EGR 218) fall Linear Algebra (MAT 209) fal

Linear Algebra (MAT 209) fall/summer Engineering Computations (EGR 216)

Students majoring in chemical, biological or environmental engineering should plan to take:

Organic Chemistry I (CHM201) and Organic Chemistry II (CHM202)

Computer Engineering majors should take: Computer Science II (CSC 102) and Data Structures (CSC 201).

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(Organic Chemistry II or Data Structures may be substituted for Mechanics II with the permission of the department chair.) Proper advising is crucial for proper course selection.

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 Bachelor of Science degree in Engineering. As such, the program provides the same 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
- Nuclear Engineering

Core courses in calculus, chemistry, engineering physics and engineering science constitute the nucleus of this program. Selected courses in the liberal arts support and enhance this central core.

To begin the two year program, students must be at the mathematical level of Calculus 1 (MAT 205) or must have completed either College Trigonometry* (MAT 122) or Pre-Calculus Mathematics* (MAT 131).

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.

^{*}These prerequisite courses may be taken in the summer.

Engineering Science

Degree Awarded: Associate in Science

Admission Criteria

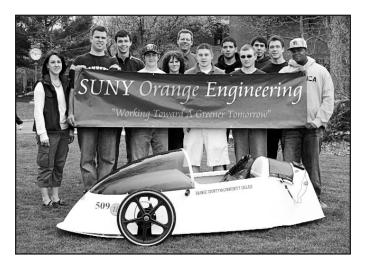
Admission to this program requires that students be high school graduates or have high school equivalency diplomas (GEDs). If students are not high school graduates, they may be eligible for admission to the College's 24 Credit Hour Program. If students are home schooled, they may be eligible for admission. (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 and Architecture Department Chair 341-4571 Admissions Office (845) 341-4030

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Exercise Studies

Degree Awarded: Associate in Science

Recommended Course Sequence

First Seme	ester C	redits
ENG 101	Freshman English 1	3
	SUNY Math (GE 1) - MAT 102	or
	higher	3
BIO 110	Introduction to Biology	4
PEM	Skills	1
PED 100	Introduction to Phys. Ed. or	
PED 101	Introduction to Exercise Studies	2
PED 150	First Aid	2 ve* 3
	Restricted SUNY History Elective	ve* 3
Second Ser	mester	
BIO 111	Anatomy and Physiology 1	4
ENG 102		3
	SUNY Social Science (GE 3)	3
PEM	Skills	1
PED 201	Introduction to Human Moveme	ent^ 3
BIO 125	Nutrition	3
Third Sem	ester	
BIO 112	Anatomy & Physiology 2	4
PED 112	Contemporary Health	3
PED 202	Basic Exercise Physiology @	3
COM 101	Foundations of Communication	3
PEM	Skills	1
PED	Exercise Studies Elective**	2/3
Fourth Ser	nester	
PED 203	Physical Fitness & EXRX+ and	3
PED 204	Lab Fitness Assessment+	1
	Restricted SUNY Elective***	3
PED	Exercise Studies Capstone	2
PED	Exercise Studies Practicum	2 3
PES 111	Substance Abuse	3
Total Cred	iits	64/65

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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.

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^{*} SUNY American History (GE 4) or Western Civilization (GE 5) or Other World Civilization (GE 6) list

^{**}Any PED course NOT required in the above curriculum

***SUNY Arts (GE 8) or Foreign Languages (GE 9) list or
any list not selected from the Restricted History elective

⁺ PED 203 & 204 are co-requisites and MUST be taken together

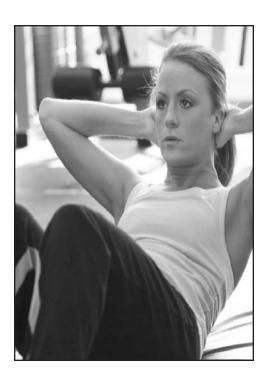
[^] PED 201 has a prelco-requisites of BIO 111 @ PED 202 has a prelco-requisites of BIO 112

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

Fire Protection Technology

Degree Awarded: Associate in Applied Science

Recommended Course Sequence

First Semester:	Credits:
Freshman English I (ENG 101)	3
Introduction to Sociology (SOC 101)	3
Elementary Algebra (MAT 101)	3
Introduction to Fire Technology (FIR 10	3 01) 3 nin. 3
Intro. to Fire & Emergency Services Adn	nin. 3
*Physical Education Elective	1
Second Semester:	
Freshman English II (ENG 102)	3
General Psychology (PSY 101)	
Race, Ethnicity, and Society (SOC 220)	3
Principles of Building Construction (FIR	(103) 3
Fire Protection Tech. Elective (FIR Elect	
Physical Education Elective (PED Elective	
`	
Third Semester:	
U.S. Government (POL 103)	3
Foundations of Communication (COM	
Fire Protection Tech. Elective (FIR Elect	rive) 3
Fire Protection Tech. Elective (FIR Elect	
Fire Protection Tech. Elective (FIR Elect	
Physical Education Elective (PED Elective	
`	
Fourth Semester:	
Natural Science Gen Ed Elective	3-4
Computer Literacy (CIT 100)	3
Fire Protection Tech. Elective (FIR Elect	rive) 3
Fire Protection Tech. Elective (FIR Elect	
Fire Protection Tech. Elective (FIR Elect	
	,
Total Credits	64-65

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Program Description

Given the unique conditions that have developed in our country over the last several years in public safety and homeland security, the Fire Protection Technology Program has gained increasing importance. The program is designed to meet the growing needs of Rockland, Orange, Sullivan and Ulster Counties and their neighboring communities for persons preparing for a career as a firefighter, fire and emergency service practitioner or engineer specialist.

The study of fire protection technology is multifaceted. It involves the study of the complete fire protection system, including fire department resources, private resources and system, chemistry and physics of fire safety, fire department management, emergency management, the legal environment and fire protection.

Studies in fire protection technology guide the student through a series of college-level courses that are designed to prepare the student for a career in the highly demanding field of fire and emergency services. Through the study of fire protection technology the student will discover the entire process for the requirements of becoming a firefighter.

The role of the firefighter has increased in complexity in recent years. The scope of responsibilities and knowledge requirements of a firefighter has grown significantly and now includes emergency medical services, assisting in the recovery from disasters, and responding to and recovering from hazardous materials incidents, building safety compliance issues, public education, wildlands fire fighting, mutual aid and more. The program is designed to prepare the students to perform as a firefighter and an effective member of a multi-agency emergency response team.

The program is designed to meet the guidelines established by the New York Emergency Management System and the National Interagency Integrated Management System (NIIMS) under the Department of Homeland Security. Field training occurs at the regional Fire Training Center. The A.A.S. degree in Fire Protection Technology has already received SUNY and NYSED approval through the Hudson Valley Educational Consortium.

SUNY Rockland has taken a leadership role in developing the Fire Protection Technology curriculum and the Associate of Applied Sciences degree is currently available there. Students wishing to register in this program from other HVEC colleges (SUNY Orange, SUNY Ulster and SUNY Sullivan) and participate via the Interactive Television Training Rooms will receive their degree from SUNY Rockland. Interested students should contact their home school Registrars office for assistance in the registration process.

Fire Protection Technology

Degree Awarded: Associate in Science

Recent graduates have secured positions within the New York City Fire Department and as Fire Inspectors for local government. The current fire protection technology program follows the recommendations of the Fire and Emergency Service Higher Education (FESHE) model which is a division of the Federal Department of Homeland Security. An articulation agreement with John Jay College, a member of the City University of New York (CUNY) system is available for those student intending to continue their education in fire protection technology.

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.)

Student Learning Outcomes

Students will:

- discover the entire process for the requirements of becoming a firefighter.
- effectively communicate knowledge of Fire Science content areas, including fire safety critical incident command system, emergency planning, fire scene operations, fire exercise planning, fire and emergency operations center organization and management, leadership, resource planning, and utilization of national fire science operation guidelines.
- demonstrate critical thinking, communications and management skills by analyzing situations, determining proper actions, understanding the costs and benefits of actions, evaluating possible alternatives and unforeseen circumstances, and then taking appropriate actions as an incident responder or manager.
- possess the technical and general education courses needed to be able to pursue a baccalaureate degree in fire science or emergency management.
- •support the community by providing fire and emergency services when required.

Career Opportunities

- firefighter
- fire heavy equipment operator
- fire prevention specialist
- fire hazard program specialist
- fire training specialist
- public safety and education
- dispatcher
- fire equipment manufacturing, sales, service, research and development
- forestry service fire control
- technician and consultant in aerospace services
- fire protection education

Transfer Opportunities

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

- · John Jay College
- University of Maryland -University College
- University of New Haven

Contact Information

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

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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 Honors English: ENG 101H and ENG 102H
3 credits Honors Social Science
3 credits Honors Humanities
MAT 205 Calculus 1 *
HON 201H Honors Seminar
(3 semesters, 1 credit each) ***
HON 120H Service Learning (1 cr) freshman year
HON 288H Honors Capstone: Planning & Research
HON 289H Honors Capstone: Writing &

A.S. Degree

6 credits Honors English: ENG 101H and ENG 102H 6 credits Honors Social Science

MAT 205 Calculus 1 * HON 201H Honors Seminar

(3 semesters, 1 credit each) **

HON 120H Service Learning (1 cr) freshman year HON 288H Honors Capstone: Planning & Research

HON 289H Honors Capstone: Writing &

Presentation

Presentation

A.A.S. Degree

6 credits Honors English: ENG 101H and ENG 102H

6 credits Honors Social Science or 3 credits Honors Social Science and

3 credits Honors Humanities *

MAT 205 Calculus 1 * HON 201H Honors Seminar

(3 semesters, 1 credit each) **

HON 120 Service Learning (1 cr) freshman year HON 288H Honors Capstone: Planning & Research

HON 289H Honors Capstone: Writing and

Presentation

* 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 121 College Algebra

MAT 125 Introduction to Statistics

MAT 131 Pre-Calculus

Lab Science: PHY 101 General Physics 1

CHM 105 General Chemistry 1 BIO 101 General Biology 1

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. Honors courses are selected from the areas of: English, social science, arts, communication, 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 part-time 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.

All applicants must:

- complete the Honors Program application.
- 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.
- provide two letters of recommendation from faculty, counselors, administrators or mentors.

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

^{**} The seminar, service and capstone credits are specific requirements of the Honors Program. They also may be counted as Liberal Arts or General Electives. They are restricted to those students who have been admitted into the program.

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 who are are not in the Honors Program but are interested in taking an Honors course 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 students for the academic work required for continued pursuit of undergraduate and graduate degrees.

Our students have successfully transferred to many prestigious schools including:

- Smith College
- · Clemson University
- Rensselear Polytechnic Institute (RPI)
- · Vassar College
- Emerson University
- American University
- · Cornell University
- · Bard College

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 Degree Awarded: Associate in Science

Recommended Course Sequence

First Semester Credits		
ENG 101	Freshman English 1	3
COM 101	Foundations of Communication	
PSY 101	General Psychology 1	3
SOC 120	Social Problems	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 (GE 4) 3
PSY 102	General Psychology 2	3
	SUNY Natural Science (GE 2)	3-4
PHL 220	Ethics	3
PES	Physical Education	1
Third Sem	nester	
	SUNY Other/World	
	Civilizations (GE 6)	3
	SUNY Arts Course (GE 8)	3
SOC 101	Intro to Sociology	3
MAT	Restricted SUNY Math course*	3
HMS 201	Human Services Field Exp 1	2
	Technical Writing	1.5
Fourth Sea		
	SUNY Western Civilization (GE	5)3
	SUNY Foreign Language (GE 9	-
SOC 231	Family	3
PSY	Psychology Elective*	3
HMS 202	Human Services Field Exp 2	3 2
ENG 161		1.5
	Total Credits: 63	3-64
* either MA MAT 125	AT 102 or (if tested into MAT 121 or h	igher)

**PSY 220 Developmental Psychology

Child Psychology

PSY 222 Adolescent Psychology

PSY 230 Abnormal Psychology

PSY 223 Adulthood and Aging

This program can be completed in its entirety at either the Middletown campus or the Newburgh campus.

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:

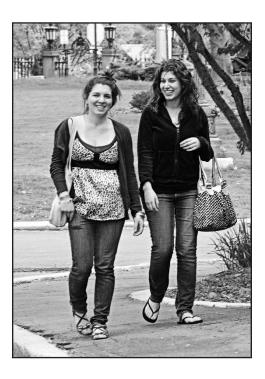
- complete two field placement courses, each requiring 48 hours of observation/interaction in at least two human service settings, with a grade of C or better.
- have an overall C average upon completion of all coursework.

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

Behavioral Sciences Department Chair (845) 341-4344 Admissions Office (845) 341-4030

International Studies

Degree Awarded: Associate in Arts

Recommended Course Sequence

First Seme	ester	Credits
ENG 101	Freshman English 1	3
	Foundations of Communicati	ion 3
MAT		3/4
GEO 102	` /	
ANT 101		3
POL 220	Comparative Governments	3
PES 100	Concepts of Physical Wellnes	s 1
Second Se	mester	
ENG 102	Freshman English 2	3
PSY 101	General Psychology 1	3
	SUNY Natural Science (GE	2) 3/4
POL 221	International Relations	3
HIS 121	World History to 1500	3
PES	Physical Education	1
Third Sem	nester	
ENG 203/	4 World Literature	3
HIS 122	World History Since 1500	3
	SUNY Art (GE 8)	3
	SUNY Foreign Language (G	E 9)
	(Elementary 2 or above)	3
ECO 201	Macro-Economics	3
Fourth Se	mester	
ENG 225	International Literature	3
	General Elective	3
	Liberal Arts Science or	
	Math (MAT 113 or higher)	3/4
	Restricted Elective*	3
	Restricted Elective*	3
	Total Credits:	62-64
COM 211 ECO 203 HIS 123 HIS 124 HIS 133	wo of the following courses: Intercultural Communications Economic Development Latin American Heritage Africa: Past and Present Modern Europe Modern China and Japan The Middle East Non-Western Art	
	Foreign Language Intermediate or higher	e 1
	Intro to International Rusiness	

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.)

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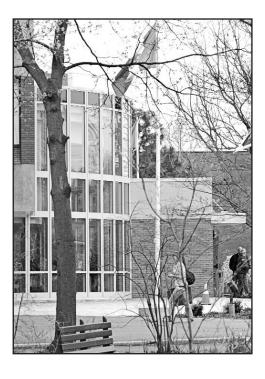
International Studies

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

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Degree Awarded: Associate in Arts

Recommended Course Sequence

JRTEP A.A. — B-2 English			
First Seme	ester (Credits	
ENG 101	Freshman English 1	3	
	Foundations of Communication		
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		3 3 3	
SOC 120	Social Problems		
	SUNY Natural Science (GE 2)	3/4	
EDU 103	Introduction to Early Childho	od/	
	Childhood Education++>@	3	
Third Sem	nester		
ENG	Restricted English Elective*	3	
ENG	Restricted English Elective#	3 3 3	
ENG	Restricted English Elective**	3	
	SUNY Foreign Language -		
	Elementary 1 or Intermediate	1	
	(GE 9)	3	
EDU 201	Observation and Assessment+	+ 3	
PES	Physical Education	1	
Fourth Sea	mester		
ENG	Restricted English Elective+	3	
ENG	Restricted English Elective**	3 3	
GEO 101	Elements of Physical Geograph		
HIS 122	World History to 1500 or	-	
	World History since 1500	3	
	SUNY Western Civilization (C	3E 5) 3	
	SUNY Foreign Language -		
	Elementary 2 (GE9)		
	or		
EDU 202	Infant/Toddler Development+	+*** 3	

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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 or another SUNY school 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 and check transfer credits with transfer school if other than SUNY 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.)

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

> Evidence of completion of fingerprinting through NYS Dept. of Education is required.

[@] B- or higher required for JRTEP

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 or another SUNY school.
- show evidence of completion of fingerprinting through NYS Department of Education.

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) 341-4482 Admissions Office (845) 341-4030

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Degree Awarded: Associate in Arts

JRTEP A.A. — B-2 History

First Semester Credit		its
ENG 101	Freshman English 1	3
	Foundations of Communication	3
HIS 133	Modern Europe or	
HIS 131	Medieval/Renaissance Europe	3
PSY 101	General Psychology 1	3
MAT 111	Foundations of Elementary	
	School Mathematics	3
PES 100	Concepts of Physical Wellness	1
Second Se		
ENG 102	Freshman English 2	3
PSY 221	Child Psychology	3
		/4
EDU 103	Introduction to Early Childhood/	
	Childhood Education++>@	3
	SUNY Arts (GE 8)	3
PES	Physical Education	1
Third Sen		
ENG	Advanced English (ADVE)	3
	Elements of Physical Geography	3 3 3 3
HIS 101	US History to 1865	3
ANT 101	Social/Cultural Anthropology	3
	SUNY Foreign Language (GE 9)<	3
EDU 201	Observation and Assessment++	3
Fourth Semester		
ENG	Advanced English (ADVE)	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 3 3
	SUNY Foreign Language (GE 9)<	
EDU 202	Infant/Toddler Development++***	3

Total Credits: 68-69

JRTEP A.A. — B-2 Spanish

First Seme	ester C	redits
ENG 101	Freshman English 1	3
COM 101	Foundations of Communication	1 3
HIS 101	US History to 1865 or	
HIS 102	US History since 1865	3
PSY 101	General Psychology 1	3 3 1
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 & Hist	ory 3
MAT 111	Foundations of Elementary	
	School Mathematics	3
SPN 202	Intermediate Spanish 2***	3
EDU 103	Introduction to Early Childhoo	
	Childhood Education++>@	3
PES 100	Concepts of Physical Wellness	1
Third Sem	nester	
	SUNY Western Civilization (G	E 5) 3
PSY 221	Child Psychology	3
	SUNY Natural Science (GE 2)	3/4
SPN 203	Spanish Conversation	
	and Composition##	3
EDU 201	Observation and Assessment++	
PES	Physical Education	1
Fourth Sea	mester	
SOC 120	Social Problems	3
30C 120	Add'l Math (MAT 102	3
	or higher), Liberal Arts Science	
	or Computer Science	3/4
SPN 204	Introduction to Spanish Lit.***	
EDU 207		3
LD 0 207	Foundations of Education++>	3
EDII 202	Infant/Toddler Development++	*** 3
LD 0 202	SUNY Arts (GE 8)	3
	55111 /Htb (GL 0)	5

Total Credits: 66-68

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< 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.

> Evidence of completion of fingerprinting through NYS Dept. of Education is required.

[@] B- or higher required for JRTEP

⁺⁺Local observations beyond college classroom required.

^{***}Spring semester only.

> Evidence of completion of fingerprinting through NYS Dept. of Education is required.

^{##} Fall semester only

[@] B- or higher required for JRTEP

Degree Awarded: Associate in Arts

JRTEP A.A. 1 - 6 English

First Seme	ester	
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
	SUNY Foreign Language (GE 9)<	3
PES 100	Concepts of Physical Wellness	1
Second Se	mester	
ENG 102	Freshman English 2	3
PSY 101	General Psychology 1	3
		/4
	SUNY Foreign Language (GE 9)<	3
EDU 103	Introduction to Early Childhood/	
	Childhood Education++>@	3
PES	Physical Education	1
Third Sem	nester	
ENG	Restricted English Elective*	3
ENG	Restricted English Elective#	3
ENG	Restricted English Elective**	3
PSY 221	Child Psychology	3
SOC 120	Social Problems	3
Fourth Ser	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	
HIS 122	World History since 1500	3
	SUNY Western Civilization (GE 5)	3

Total Credits: 62-63

JRTEP A.A. — 1-6 History

First Seme	ester Cred	its
ENG 101	Freshman English 1	3
COM 101	Foundations of Communication	3
HIS 133	Modern Europe	
PSY 101	General Psychology 1	3
MAT 111	Foundations of Elementary	
	School Mathematics	3
PES 100	Concepts of Physical Wellness	1
Second Ser	mester	
ENG 102	Freshman English 2	3
HIS 131	Medieval/Renaissance Europe	3
	SUNY Natural Science (GE 2) 3	3/4
EDU 103	Introduction to Early Childhood/	
	Childhood Education++>@	3
	SUNY Arts (GE 8)	3
PES	Physical Education	1
Third Sem	ester	
ENG	Advanced English (ADVE)	3
	Elements of Physical Geography	3
	US History to 1865	3 3 3
ANT 101	Social/Cultural Anthropology	3
	SUNY Foreign Language (GE 9)<	3
Fourth Ser	nester	
ENG	Advanced English (ADVE)	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	
	SUNY Foreign Language (GE 9)<	3

Total Credits: 65-66

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^{*}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.

> Evidence of completion of fingerprinting through NYS Dept. of Education is required.

[@] B- or higher required for JRTEP

< 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.

> Evidence of completion of fingerprinting through NYS Dept. of Education is required.

[@] B- or higher required for JRTEP

Degree Awarded: Associate in Arts

JRTEP A.A. 1 - 6 Spanish

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 MAT 111 Foundations of Elementary School Mathematics 3 SPN 201 Intermediate Spanish 1## 3 PES 100 Concepts of Physical Wellness 1 Second Semester ENG 102 Freshman English 2 3 PSY 101 General Psychology 1 3 SUNY Natural Science (GE 2) 3 SPN 202 Intermediate Spanish 2*** 3 EDU 103 Introduction to Early Childhood/ Childhood Education ++>@ 3 PES Physical Education 1 Third Semester ENG Advanced English (ADVE) 3 SUNY Western Civilization (GE 5) 3 PSY 221 Child Psychology 3 SOC 120 Social Problems 3 SPN 203 Spanish Conversation and Composition## 3 Fourth Semester ENG Advanced English (ADVE) 3 Fourth Semester ENG Advanced English (ADVE) 3 GEO 101 Elements of Physical Geography 3 Pestricted SUNY World	First Seme	ester Cree	lits
COM 101 Foundations of Communication HIS 101 US History to 1865 or HIS 102 US History since 1865 3 MAT 111 Foundations of Elementary School Mathematics 3 SPN 201 Intermediate Spanish 1## 3 PES 100 Concepts of Physical Wellness 1 Second Semester ENG 102 Freshman English 2 3 PSY 101 General Psychology 1 3 SPN 202 Intermediate Spanish 2*** 3 EDU 103 Introduction to Early Childhood/Childhood Education++>@ 3 PES Physical Education 1 Third Semester ENG Advanced English (ADVE) 3 SPN 203 Spanish Conversation and Composition## 3 Fourth Semester ENG Advanced English (ADVE) 3 SPN 203 Spanish Conversation and Composition## 3 Fourth Semester ENG Advanced English (ADVE) 3 SPOC 120 Social Problems 3 SPN 203 Spanish Conversation and Composition## 3	ENG 101	Freshman English 1	3
HIS 102 US History since 1865 MAT 111 Foundations of Elementary School Mathematics 3 SPN 201 Intermediate Spanish 1## 3 PES 100 Concepts of Physical Wellness 1 Second Semester ENG 102 Freshman English 2 3 PSY 101 General Psychology 1 3 SUNY Natural Science (GE 2) 3 SPN 202 Intermediate Spanish 2*** 3 EDU 103 Introduction to Early Childhood/ Childhood Education++>@ 3 PES Physical Education 1 Third Semester ENG Advanced English (ADVE) 3 PSY 221 Child Psychology 3 SOC 120 Social Problems 3 SPN 203 Spanish Conversation and Composition## 3 Fourth Semester ENG Advanced English (ADVE) 3 Fourth Semester ENG Advanced English (ADVE) 3 Fourth Semester ENG Advanced English (ADVE) 3 Fourth Semester			3
MAT 111 Foundations of Elementary School Mathematics 3 SPN 201 Intermediate Spanish 1## 3 PES 100 Concepts of Physical Wellness 1 Second Semester ENG 102 Freshman English 2 3 PSY 101 General Psychology 1 3 SUNY Natural Science (GE 2) 3 SPN 202 Intermediate Spanish 2*** 3 EDU 103 Introduction to Early Childhood/Childhood Education++>@ 3 PES Physical Education 1 Third Semester ENG Advanced English (ADVE) 3 SUNY Western Civilization (GE 5) 3 PSY 221 Child Psychology 3 SOC 120 Social Problems 3 SPN 203 Spanish Conversation and Composition## 3 Fourth Semester ENG Advanced English (ADVE) 3 Fourth Semester ENG Advanced English (ADVE) 3 GEO 101 Elements of Physical Geography 3	HIS 101	US History to 1865 or	
School Mathematics 3 SPN 201 Intermediate Spanish 1## 3 PES 100 Concepts of Physical Wellness 1 Second Semester ENG 102 Freshman English 2 3 PSY 101 General Psychology 1 3 SUNY Natural Science (GE 2) 3 SPN 202 Intermediate Spanish 2*** 3 EDU 103 Introduction to Early Childhood/Childhood Education++>@ 3 PES Physical Education 1 Third Semester ENG Advanced English (ADVE) 3 SUNY Western Civilization (GE 5) 3 PSY 221 Child Psychology 3 SOC 120 Social Problems 3 SPN 203 Spanish Conversation and Composition## 3 Fourth Semester ENG Advanced English (ADVE) 3 Fourth Semester ENG Advanced English (ADVE) 3 GEO 101 Elements of Physical Geography 3	HIS 102	US History since 1865	3
SPN 201 Intermediate Spanish 1## 3 PES 100 Concepts of Physical Wellness 1 Second Semester ENG 102 Freshman English 2 3 PSY 101 General Psychology 1 3 SUNY Natural Science (GE 2) 3 SPN 202 Intermediate Spanish 2*** 3 EDU 103 Introduction to Early Childhood/ Childhood Education++>@ 3 PES Physical Education 1 Third Semester ENG Advanced English (ADVE) 3 SUNY Western Civilization (GE 5) 3 PSY 221 Child Psychology 3 SOC 120 Social Problems 3 SPN 203 Spanish Conversation and Composition## 3 Fourth Semester ENG Advanced English (ADVE) 3 Fourth Semester ENG Advanced English (ADVE) 3 GEO 101 Elements of Physical Geography 3	MAT 111	Foundations of Elementary	
PES 100 Concepts of Physical Wellness 1 Second Semester ENG 102 Freshman English 2 3 PSY 101 General Psychology 1 3 SUNY Natural Science (GE 2) 3 SPN 202 Intermediate Spanish 2*** 3 EDU 103 Introduction to Early Childhood/		School Mathematics	3
PES 100 Concepts of Physical Wellness 1 Second Semester ENG 102 Freshman English 2 3 PSY 101 General Psychology 1 3 SUNY Natural Science (GE 2) 3 SPN 202 Intermediate Spanish 2*** 3 EDU 103 Introduction to Early Childhood/	SPN 201	Intermediate Spanish 1##	3
ENG 102 Freshman English 2 PSY 101 General Psychology 1 SUNY Natural Science (GE 2) 3 SPN 202 Intermediate Spanish 2*** 3 EDU 103 Introduction to Early Childhood/Childhood Education++>@ 3 PES Physical Education 1 Third Semester ENG Advanced English (ADVE) 3 SUNY Western Civilization (GE 5) 3 PSY 221 Child Psychology 3 SOC 120 Social Problems 3 SPN 203 Spanish Conversation and Composition## 3 Fourth Semester ENG Advanced English (ADVE) 3 Fourth Semester ENG Advanced English (ADVE) 3 GEO 101 Elements of Physical Geography 3	PES 100		1
PSY 101 General Psychology 1 SUNY Natural Science (GE 2) 3 SPN 202 Intermediate Spanish 2*** 3 EDU 103 Introduction to Early Childhood/ Childhood Education++>@ 3 PES Physical Education 1 Third Semester ENG Advanced English (ADVE) 3 SUNY Western Civilization (GE 5) 3 PSY 221 Child Psychology 3 SOC 120 Social Problems 3 SPN 203 Spanish Conversation and Composition## 3 Fourth Semester ENG Advanced English (ADVE) 3 Fourth Semester ENG Advanced English (ADVE) 3 GEO 101 Elements of Physical Geography 3	Second Se	mester	
EDU 103 Introduction to Early Childhood/ Childhood Education++>@ 3 PES Physical Education 1 Third Semester ENG Advanced English (ADVE) 3 SUNY Western Civilization (GE 5) 3 PSY 221 Child Psychology 3 SOC 120 Social Problems 3 SPN 203 Spanish Conversation and Composition## 3 Fourth Semester ENG Advanced English (ADVE) 3 GEO 101 Elements of Physical Geography 3	ENG 102	Freshman English 2	3
EDU 103 Introduction to Early Childhood/ Childhood Education++>@ 3 PES Physical Education 1 Third Semester ENG Advanced English (ADVE) 3 SUNY Western Civilization (GE 5) 3 PSY 221 Child Psychology 3 SOC 120 Social Problems 3 SPN 203 Spanish Conversation and Composition## 3 Fourth Semester ENG Advanced English (ADVE) 3 GEO 101 Elements of Physical Geography 3	PSY 101	General Psychology 1	3
EDU 103 Introduction to Early Childhood/ Childhood Education++>@ 3 PES Physical Education 1 Third Semester ENG Advanced English (ADVE) 3 SUNY Western Civilization (GE 5) 3 PSY 221 Child Psychology 3 SOC 120 Social Problems 3 SPN 203 Spanish Conversation and Composition## 3 Fourth Semester ENG Advanced English (ADVE) 3 GEO 101 Elements of Physical Geography 3			3
EDU 103 Introduction to Early Childhood/ Childhood Education++>@ 3 PES Physical Education 1 Third Semester ENG Advanced English (ADVE) 3 SUNY Western Civilization (GE 5) 3 PSY 221 Child Psychology 3 SOC 120 Social Problems 3 SPN 203 Spanish Conversation and Composition## 3 Fourth Semester ENG Advanced English (ADVE) 3 GEO 101 Elements of Physical Geography 3	SPN 202	Intermediate Spanish 2***	3
PES Physical Education 1 Third Semester ENG Advanced English (ADVE) 3 SUNY Western Civilization (GE 5) 3 PSY 221 Child Psychology 3 SOC 120 Social Problems 3 SPN 203 Spanish Conversation and Composition## 3 Fourth Semester ENG Advanced English (ADVE) 3 GEO 101 Elements of Physical Geography 3	EDU 103	Introduction to Early Childhood/	
Third Semester ENG Advanced English (ADVE) 3		Childhood Education++>@	3
ENG Advanced English (ADVE) 3 SUNY Western Civilization (GE 5) 3 PSY 221 Child Psychology 3 SOC 120 Social Problems 3 SPN 203 Spanish Conversation and Composition## 3 Fourth Semester ENG Advanced English (ADVE) 3 GEO 101 Elements of Physical Geography 3	PES	Physical Education	1
SUNY Western Civilization (GE 5) 3 PSY 221 Child Psychology 3 SOC 120 Social Problems 3 SPN 203 Spanish Conversation and Composition## 3 Fourth Semester ENG Advanced English (ADVE) 3 GEO 101 Elements of Physical Geography 3	Third Sem	nester	
SPN 203 Spanish Conversation and Composition## 3 Fourth Semester ENG Advanced English (ADVE) 3 GEO 101 Elements of Physical Geography 3	ENG	Advanced English (ADVE)	
SPN 203 Spanish Conversation and Composition## 3 Fourth Semester ENG Advanced English (ADVE) 3 GEO 101 Elements of Physical Geography 3		SUNY Western Civilization (GE 5	5) 3
SPN 203 Spanish Conversation and Composition## 3 Fourth Semester ENG Advanced English (ADVE) 3 GEO 101 Elements of Physical Geography 3	PSY 221	Child Psychology	3
Composition## 3 Fourth Semester ENG Advanced English (ADVE) 3 GEO 101 Elements of Physical Geography 3		Social Problems	3
Fourth Semester ENG Advanced English (ADVE) 3 GEO 101 Elements of Physical Geography 3	SPN 203	Spanish Conversation and	
ENG _ Advanced English (ADVE) 3 GEO 101 Elements of Physical Geography 3		Composition##	3
GEO 101 Elements of Physical Geography 3	Fourth Ser	mester	
GEO 101 Elements of Physical Geography 3	ENG	Advanced English (ADVE)	3
Pastrioted SLINV World	GEO 101	Elements of Physical Geography	3
Restricted SUNT WORLD		Restricted SUNY World	
Civilization*		Civilization*	3
SPN 204 Introduction to Spanish Literature 3	SPN 204	Introduction to Spanish Literature	e 3
SUNY Arts (GE 8)*** 3			3

Total Credits: 62-63

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JRTEP A.A. — 7-12 English

First Seme	ester	
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
	SUNY Math (GE 1) - MAT 102	
	or higher	3
	SUNY Foreign Language (GE 9)<	3
EDU 107	Mandated Training	1
PES 100	Concepts of Physical Wellness	1
Second Se		
ENG 102	Freshman English 2#	3
	SUNY Arts (GE 8)	3 3 3
PSY 101	General Psychology 1	3
	SUNY Natural Science (GE 2) 3	/4
	SUNY Foreign Language (GE 9)<	3
PES	Physical Education	1
Third Sem		_
ENG 207	English Literature:	
	14th Through 18th Century	3
ENG 209		
	To the Civil War	3
ENG	Restricted English Elective**	3 3 3
ENG	Restricted English Elective**	3
PSY 222	Psychology of Adolescence	3
EDU 207	Social and Philosophical	
	Foundations of Education++>	3
Fourth Sea	mester	
ENG 208	English Literature:	
	19th and Early 20th Century	3
ENG 210	American Literature:	
	1865 to Present	3
ENG	Restricted English Elective**	3
	SUNY Western Civilization (GE 5)	3
	SUNY Other World	
	Civilization (GE 6) Add'l Math (MAT 102 or higher),	3
	Add'l Math (MAT 102 or higher),	
	Liberal Arts Science or Computer Science 3	/4
	Sololiec	, ¬r

Total Credits: 69-71

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

⁺⁺Local observations beyond college classroom required.

> Evidence of completion of fingerprinting through NYS Dept. of Education is required.

^{##} Fall semester only

^{***} Spring semester only

[@] B- or higher required for JRTEP

^{**}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 need be taken.

⁺⁺Local observations beyond college classroom required

[#] Must earn grade of B or higher

> Evidence of completion of fingerprinting through NYS Dept. of Education is required

Degree Awarded: Associate in Arts

JRTEP A.A.—7-12 Social Studies Credits First Semester ENG 101 Freshman English 1# 3 HIS 101 US History to 1865 3 PSY 101 General Psychology 1 3 SUNY Math (GE 1) - MAT 102 3 or higher SUNY Natural Science (GE 2) 3/4 EDU 107 Mandated Training 1 Second Semester ENG 102 Freshman English 2# 3 COM 101 Foundations of Communication 3 3 HIS 102 US History since 1865 PSY 222 Psychology of Adolescence 3 SUNY Arts (GE 8) 3 PES 100 Concepts of Physical Wellness 1 Third Semester 3 GEO 102 Human Geography ECO 201 Introduction to Macroeconomics 3 Medieval and Renaissance Europe 3 HIS 131 SUNY Foreign Language (GE 9)< 3 EDU 207 Social and Philosophical Foundations of Education++> 3 Physical Education 1 Fourth Semester ECO 202 Introduction to Microeconomics HIS Restricted SUNY Social Science** POL ____ Restricted SUNY Social Science* POL Restricted SUNY Social Science* Add'l Math (MAT 102 or higher), Liberal Arts Science or Computer SUNY Foreign Language (GE 9) < 3 Total Credits: 66-68

JRTEP A.A. — 7-12 Spanish

First Semester			
ENG 101	Freshman English 1#	3	
COM 101		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 Se	mester		
ENG 102	Freshman English 2#	3	
PSY 222	Psychology of Adolescence	3	
	SUNY Natural Science (GE 2)	3/4	
SPN 202	Intermediate Spanish 2***	3	
EDU 207	1		
	Foundations of Education++>	3	
EDU 107	Mandated Training	1	
Third Sen	nester		
ENG	Restricted English Elective**	3	
	SUNY Western Civilization (GE	5) 3	
SOC 120		3	
	SUNY Math (GE1) - MAT 102		
	or higher	3	
SPN 203	Spanish Conversation and		
	Composition##	3	
PES 100	Concepts of Physical Wellness	1	
Fourth Se			
ENG	Restricted English Elective**	3	
HIS 123	Latin American Heritage & Histor		
	Add'l Math (MAT 102 or higher)		
	Liberal Arts Science, or Compute		
	Science	3/4	
SPN 204	Introduction to Spanish Lit.***	3	
	SUNY Arts (GE 8)	3	
PES	Physical Education	1	

Total Credits: 63-65

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^{*} 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</p> 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

[#] Must earn grade of B or higher

> Evidence of completion of fingerprinting through NYS Dept. of Education is 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

⁺⁺Local observations beyond college classroom required

[#] Must earn grade of B or higher

> Evidence of completion of fingerprinting through NYS Dept. of Education is required

^{##} Fall semester only

^{***}Spring semester only

Degree Awarded: Associate in Science

Recommended Course Sequence

JRTEP A.S. — 1-6 Biology

First Seme	ester Credi	ts
ENG 101	Freshman English 1	3
PSY 101	General Psychology 1	3
BIO 101	General Biology 1	4
MAT 121	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	Child Psychology	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
	SUNY Foreign Language (GE 9)<	3
EDU 103	Introduction to Early Childhood/	
	Childhood Education++>@	3
	Restricted SUNY Elective*	3
Fourth Sea	mester	
COM 101	Foundations of Communication	3
GEO 101	Elements of Physical Geography	3
BIO 202	Comparative Vertebrate Anatomy	or
BIO 204	General Botany	4
	SUNY Foreign Language (GE 9)<	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 (GE 4); Western Civilization (GE 5); Other/World Civilizations (GE 6); and Arts (GE 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.
- > Evidence of completion of fingerprinting through NYS Dept. of Education is required.
- @ B- or higher required for JRTEP

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. Students may transfer to another SUNY school and should check transfer requirements with transfer school. 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 and check transfer credits with transfer school if other than SUNY New Paltz. 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.
- show evidence of completion of fingerprinting through NYS Department of Education.

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) 341-4482 Admissions Office (845) 341-4030

Degree Awarded: Associate in Science

JRTEP A.S. — 1-6 Math

First Seme	ester C	redits
ENG 101	Freshman English 1	3
	Foundations of Communication	3
GEO 101	Physical Geography	3 3 4
PSY 101	General Psychology 1	3
MAT 205	Calculus 1	
	SUNY Foreign Language (GE 9)< 3
Second Se	mester	
ENG 102	Freshman English 2	3
PSY 221	Child Psychology	3
MAT 206	Calculus 2	4
	SUNY Foreign Language (GE 9)< 3
EDU 103	Introduction to Early Childhood	l/
	Childhood Education++>@	3
PES 100	Concepts of Physical Wellness	1
Third Sem	nester	
PHY 101	General Physics 1	4
MAT 125	Introduction to Statistics	3
CSC 101	Computer Science 1	4
	Restricted SUNY Elective*	3
	Restricted SUNY Elective*	3
PES	Physical Education	1
Fourth Ser	mester	
	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

- * Students must take one course from each of the following SUNY General Education Requirements: American History (GE 4); Western Civilization (GE 5); Other/World Civilizations (GE 6); Arts (GE 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.
- > Evidence of completion of fingerprinting through NYS Dept. of Education is required.
- @ B- or higher required for JRTEP

JRTEP A.S. —7-12 Biology

First Seme	ester Cred	its
ENG 101	Freshman English 1#	3
	Restricted SUNY Gen Ed Elective*	3
PSY 101	General Psychology 1	3
BIO 101	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
	Restricted 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	
	Restricted SUNY Gen Ed Elective*	3
BIO 201	Genetics	4
CHM 106	General Chemistry 2	4
	SUNY Foreign Language (GE 9)<	3
EDU 207	Social and Philosophical	
	Foundations of Education++>	3
Fourth Sea	mester	
COM 101	Foundations of Communication	3
BIO 202	Comparative Vertebrate Anatomy or	•
BIO 204		4
MAT 125	Introduction to Statistics	3
	SUNY Foreign Language (GE 9)	3
PES	Physical Education	1
	SUNY Arts (GE 8)	3

Total Credits: 70

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- * Students must take one course from each of the following SUNY General Education Requirements: American History (GE 4); Western Civilization (GE 5); Other/World Civilizations (GE 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.
- ++Local observations beyond college classroom required
- # Must earn grade of B or higher
- > Evidence of completion of fingerprinting through NYS Dept. of Education is required.

Degree Awarded: Associate in Science

<u>JRTEP A.S. — 7-12 Math</u>

First Seme	ester	
ENG 101	Freshman English 1#	3
COM 101	Foundations of Communication	3
PSY 101	General Psychology 1	3
MAT 205	Calculus 1	4
	SUNY Foreign Language (GE 9)	3
EDU 107	Mandated Training	1
Second Se	mester	
ENG 102	Freshman English 2#	3
PSY 222	Psychology of Adolescence	3
MAT 206	Calculus 2	4
	SUNY Foreign Language (GE 9)<	3
EDU 207	Social and Philosophical	
	Foundations of Education++>	3
PES 100	Concepts of Physical Wellness	1
Third Sem	nester	
	Restricted SUNY Gen Ed Elective*	3
PHY 105	General Physics 1 with Calculus	4
MAT 211	Linear Algebra	3
MAT 207	Calculus 3	4
	SUNY Arts (GE 8)	3
Fourth Sea	mester	
MAT	MAT 134 or MAT 136	3
	Restricted SUNY Gen Ed Elective*	3
	Restricted SUNY Gen Ed Elective*	3
PHY 106	General Physics 2 with Calculus	4
CSC 130	Computers and Computing	3
PES	Physical Education	1

Total Credits: 68

- * Students must take one course from each of the following SUNY General Education Requirements: American History (GE 4); Western Civilization (GE 5); Other/World Civilizations (GE 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.
- ++Local observations beyond college classroom required
- # Must earn grade of B or higher
- > Evidence of completion of fingerprinting through NYS Dept. of Education is required

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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.)

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Law Enforcement/Security

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 C	redits
ENG 101	Freshman English 1	3
	SUNY Math (GE 1)	3/4
	Social Science (Cat. A)*	3
COM 101	Foundations of Communicatio	
	Liberal Arts Elective	3
PES 100	Concepts of Physical Wellness	1
Second Se	mester	
ENG 102	Freshman English 2	3
	SUNY Natural Science (GE 2)	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/Liberal Arts Science***	3/4
	Social Science (Cat. C)	3
	Liberal Arts elective	3
	SUNY Arts (GE 8)	3
Fourth Sea	mester	
ENG	200-level Advanced English	3
	Social Science (Cat D)	3
	Elective	3
	Elective	
	Elective	3

Total Credits: 62-65

This program can be completed in its entirety at either the Middletown campus or the Newburgh campus.

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.)

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^{*}Categories A-D must include a SUNY History (GE 4, GE 5 or GE 6) and a SUNY Social Science (GE 3).

^{**}SUNY Humanities (GE 7) list or SUNY Foreign Language (GE 9) list-Elementary 2 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		edits
ENG 101	Freshman English 1	3
	Restricted SUNY Elective*	3
MAT	Found. of Elementary School	
	Math (MAT 111) or Higher	3
	Restricted SUNY History**	3
COM 101		1 3
PES 100	Concepts of Physical Wellness	1
Second Se	mester	
ENG 102	Freshman English 2	3
	SUNY Humanities (GE 7)	3
	SUNY Natural Science (GE 2)	3/4
	SUNY Social Science (GE 3)	3
	Concentration	3
	Physical Education	1
Third Sem	nester	
	Math/Science Elective***	3/4
	SUNY Social Science (GE 3)	3
	Concentration	3
	Concentration	3
	Concentration	3
Fourth Ser	mester	
	Concentration	3
	Concentration	3
	Restricted SUNY Elective****	3
	Elective	3
	Elective	3
	T (1)	- -

Total: 62-64

This program can be completed in its entirety at either the Middletown campus or the Newburgh campus.

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.

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^{*}SUNY Humanities (GE 7), SUNY Arts (GE 8), or SUNY Foreign Language (GE 9)

^{**} 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 (GE 8) or SUNY Foreign Language (GE 9) Elementary 2 or higher

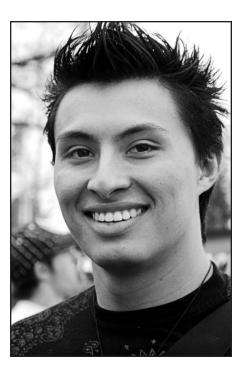
Liberal Arts: Individual Studies

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		redits
ENG 101	Freshman English 1	3
	SUNY Social Science (GE 3)	3
	SUNY Natural Science (GE 2)	3/4
	MAT 111 or higher or Comput	er
	Science or Liberal Arts Science	3/4
	SUNY Math (GE 1) - MAT 12	1
	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 (GE 2)	3/4
	MAT 111 or higher or Comput	er
	Science or Liberal Arts Science	3/4
MAT	MAT 122 or higher	3/4
PES		1
Third Sem	nester	
COM 101	Foundations of Communicatio	n 3
	MAT 111or higher or Compute	er
	Science or Liberal Arts Science	3/4
	MAT 111or higher or Computer	er
	Science or Liberal Arts Science	3/4
	Restricted SUNY Elective**	3
	Elective	3
Fourth Ser	mester	
	MAT 111 or higher or Comput	er
	Science or Liberal Arts Science	3/4
	MAT 111or higher or Compute	er
	Science or Liberal Arts Science	3/4
	Elective	
	Elective	3 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.

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^{*}SUNY American History (GE 4) or Western Civilization (GE 5) or Other/World Civilization (GE 6) lists **SUNY Arts (GE 8) or Foreign Language (GE 9) 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, at least 3 credits of which must be a SUNY Math and at least 6 credits of science must be from the SUNY Natural Science list

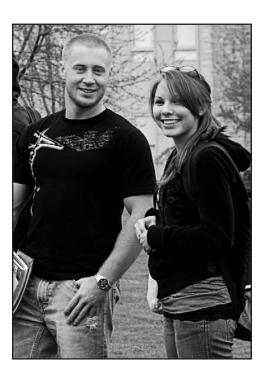
Liberal Arts and Sciences: Mathematics and Natural Science

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 and

Architecture Department Chair
(845) 341-4571

Admissions Office
845) 341-4030

Marketing

Degree Awarded: Associate in Applied Science

Accredited by the Accreditation Council for Business Schools and Programs (ACBSP) 7007 College Boulevard, Suite 420, Overland Park, KS, 66211

Recommended Course Sequence

First Semester Credit		
ENG 101	Freshman English 1	3
	Any Social Science	3
	Math or Liberal Arts Science	e 3
BUS 101	Business Math	3
BUS 103	Introduction to Business	3
OFT 106	Keyboarding**	1
Second Ser	mester	
ENG 102	Freshman English 2	3
	Any Social Science	3
	Math or Liberal Arts Science	
BUS 105	Business and Society	3
MKT 101	Principles of Marketing	3
PES 100	Concepts of Physical Wellne	ss 1
Third Semester		
BUS 111	E-Business Principles or	
MKT 202	Salesmanship	3
ACC 101	Accounting 1	4
BUS 201	Business Law 1	3
MKT 203	Marketing Management	3
BUS 203	Business Communications	3
PES	Physical Education	1
Fourth Ser	mester	
MKT 201	Advertising	3
BUS 161	Computer Applications for	
	Business***	3
MKT 204	Problems in Marketing	3
	Business Elective*	3
	Liberal Arts Elective	3

Total Credits: 64

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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.

This degree has been approved by ACBSP and SUNY NYS Education Department for online distance learning delivery. This does not mean that SUNY Orange offers every course in the program online; however, many are offered in this format. Please check the current credit course schedule for online DL virtual course listings offered each semester.

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^{*}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. ***formerly CIT 101 Microcomputer Applications

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 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) 5600 N. River Road, Suite 720, Rosemont, IL 60018-5119

Recommended Course Sequence

First Seme	ester	Credits
	Freshman English 1	3
	Technical Writing Module	1.5
	Applied Chemistry 1	3
	Math (Elementary Algebra o	
	higher)	3
MLT 101	Fundamentals of Medical	5
1.121 101	Physiology 1	4
MLT 105	Intro to Laboratory Science	2
	Serology/Immunology	2
Second Se		
	Freshman English 2	3
	Technical Writing Module	1.5
LIVO IOI	Social Science Elective	3
CHM 104	Applied Chemistry 2	3
	Fundamentals of Medical	
1.121 102	Physiology 2	4
MLT 104	Hematology	3
Third Sen	••	
	Social Science Elective	3
MLT 203	Immunohematology	3
MLT 201		1
	Applications 1	1
MLT 207	Clinical Chemistry 1	3
MLT 209	General Microbiology	4
MLT 251	Clinical Training 1	2
PES 100	Concepts of Physical Wellnes	s 1
Fourth Se	mester	
MLT 202	Instrumentation and Clinical	1
	Applications 2	1
	Clinical Chemistry 2	3
MLT 212	Clinical Microbiology	3
	Elective*	3
	Clinical Training 2	2
PES		1
	Elective	3

Total Credits: 69

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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 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. Once you begin taking MLT courses, the degree must be completed within three years.

Students who are considering this program must provide their own transportation to and from the college and clinical sites. They must also have a yearly physical examination and tuberculin skin test (TST). Upon admission to the program, students will need to successfully complete a urine drug screen as well as a criminal background check. The Hepatitis B vaccine is strongly recommended. 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

Academic Requirements

- · High school diploma or GED
- Eligible to take Freshman English I (ENG 101)
- Eligible to take Elementary Algebra (MAT 101) or have successfully completed Developmental Algebra (MAT 020)
- Students must attain a minimum cumulative GPA of 2.0

Department-Specific Requirements:

• Attendance at a pre-admission orientation. At this orientation, students will receive and sign off on information pertaining to health forms, drug testing, and criminal record policies.

Note: Admission to this program is selective. In addition to an application to the College, students must apply for acceptance into this program through the Admissions office. Consideration for admission is based on the completion of all mandatory academic and departmental-specific requirements, highest combination of CQPA and credits completed towards the degree, Orange County residency and seat availability. All requirements must be completed and an eligibility form must be submitted to the Admissions Office before February 1 in order for a student to be considered for acceptance into this program for the Fall semester.

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 the examination given by the American Society for Clinical Pathology Board of Certification.
- 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 degree program prepares students for immediate entry into the workplace. Consult the department for more information regarding further educational opportunities in this profession.

Contact Information

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

Medical Office Assistant

Degree Awarded: Associate in Applied Science

Accredited by the Accreditation Council for Business Schools and Programs (ACBSP) 7007 College Boulevard, Suite 420, Overland Park, KS, 66211

Recommended Course Sequence

First Seme	ester Cr	edits
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	Accounting Principles 1	4
RAD 219	Medical Terminology	1
	Elective+	1
Third Sem	iester	
	Social Science Elective	3
BUS 203	Business Communications	3
OFT 209	Microsoft Word and PowerPoin	t 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 Managem	ent 3
OFT 214	Excel and Access**	3
	Total Credits	s: 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.
- + 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.

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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.

This degree has been approved by ACBSP and SUNY NYS Education Department for online distance learning delivery. This does not mean that SUNY Orange offers every course in the program online; however, many are offered in this format. Please check the current credit course schedule for online DL virtual course listings offered each semester.

Medical Office Assistant

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

Business 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
3343 Peachtree Road NE, Suite 850, Atlanta, Georgia 30326. Phone: (404) 975-5000, Fax: (404) 975-5020, www.nlnac.org

Recommended Course Sequence for Full-Time Study

or Full-Time	<u>e Study</u>		
First Seme	ester	Cred	lits
ENG 101	Freshman English 1		3
BIO 111	Anatomy and Physiology 1		4
MLT 106	Microbiology for Health Prof		3
NUR 101	Nursing 1: Fundamentals		7
Second Se	mester		
ENG 102	Freshman English 2		3
BIO 112	Anatomy & Physiology 2		4
NUR 102	Nursing 2: Fundamentals		10
Third Sem	iester		
PSY 101	General Psychology		3
CHM 120	Elements of Chem. & Physics	5	3
NUR 201	Nursing 3: Caring for the		
	Growing Family		7
	Elective		3
PES 100	Concepts of Physical Wellness	S	1
Fourth Ser	mester		
	Social Science Elective*		3
NUR 202	Nursing 4: Physical and		
	Mental Illness		9
NUR 203	Nursing 5: Transition to Practic	æ	1
	Elective		3
PES	Physical Education		1
	Total Cred	lits:	68

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

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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.

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. Due to limited availability of clinical experience in some areas, students may be assigned to evening and/or weekend clinical experiences. Students' personal schedules will have to be adjusted to allow for these required opportunities. 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 are eligible to take the National Council Licensure Examination (NCLEX) for Registered Professional Nurse (RN) and will demonstrate the ability to pass the 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 age appropriate care to clients in diverse healthcare settings.

Admission Criteria

Academic Requirements:

- · High school diploma or GED
- Eligible to take Freshman English I (ENG 101)
- Eligible to take Intermediate Algebra (MAT 102), or have completed Elementary Algebra (MAT 101) or equivalent with a 2.0 or higher
- Eligible to take Anatomy and Physiology I (BIO 111) may be met by successful completion of one of the following: Intro to Biology (BIO 110), Anatomy & Physiology I (BIO 111), or Anatomy & Physiology II (BIO 112), with a 2.0 or higher; or High School AP Biology (score of 3, 4, or 5); or a passing grade on the Biology CLEP examination.
- Students must attain a minimum cumulative GPA of 2.75

Department-Specific Requirements:

- Attendance at a pre-admission orientation. At this orientation, student
 will receive and sign off on information pertaining to health forms,
 program standards, CPR certification, and criminal record & drug
 screening policies. All students must submit to a criminal background
 check and urine drug screening. Orientation dates are available online
 at www.sunyorange.edu/admissions/healthforms.shtml.
- Applicants for the Nursing program will be required to take the Test of Essential Academic Skills (TEAS) a score in the proficient range. Visit www.sunyorange.edu/testing/ services.shtml for test information, and scheduling.
- The Nursing Department will review transcripts of those students who have been enrolled in a health professions program at SUNY Orange or another college.

Note: Admission to this program is selective. In addition to an application to the College, students must apply for acceptance into this program through the Admissions office. Consideration for admission is based on the completion of all mandatory academic and departmental pecific requirements, highest combination of GPA, TEAS score and credits completed towards the degree, and seat availability.

All requirements must be completed and an eligibility form admission consideration must be submitted to the Admissions Office before February 1 for the fall semester at the Middletown Campus and October 1st for the spring semester at the Newburgh campus.

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.

- · Mercy College
- Mount St. Mary College
- New York University
- Pace University
- Russell Sage College

Contact Information

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

Recommended Course Sequence – for Part-Time Study

First Seme		dits
ENG 101	Freshman English 1	3
BIO 111	Anatomy and Physiology 1	4
Second Se	mester	
ENG 102	Freshman English 2	3
BIO 112	Anatomy & Physiology 2	4
Third Sem	ester	
MLT 106	Microbiology for Health Prof.	3
PSY 101	General Psychology	3
PES 100	Concepts of Physical Wellness	1
Fourth Ser	mester	
CHM 120	Elements of Chem. & Physics	3
	Elective	3
PES	Physical Education	1
Fifth Seme	ester	
NUR 101	Nursing 1: Fundamentals	7
	Elective*	3
Sixth Sem	ester	
NUR 102	Nursing 2: Fundamentals	10
Seventh Se	emester	
NUR 201	Nursing 3: Caring for the	
	Growing Family	7
	Social Science Elective	3
Eighth Ser	mester	
NUR 202	Nursing 4: Physical and	
	Mental Illness	9
NUR 203	Nursing 5: Transition to Practice	e 1

Total Credits: 68

Guidelines for Advanced Placement for Licensed Practical Nurses

• Transfer from a Practical Nursing Program

SUNY Orange has an articulation agreement with OUBOCES School of Practical Nursing. Graduates of this program may transfer into NUR 102–Fundamentals of Nursing 2 based on the following criteria:

- o Meet the college and nursing program admission criteria
- o Attainment of an overall GPA of 85% in the LPN program
- o Graduation within the previous five years
- o Have a letter of recommendation from an OUBOCES practical nursing program instructor
- o Pass the NYS Licensed Practical Nurse Examination
- o Successful completion of Nursing Bridge Course 1 (N3029)

• Advance Standing into the Second Semester

Licensed Practical Nurses who do not meet the transfer requirements from an articulation agreement, may apply for admission to NUR 102–Fundamentals of Nursing 2. The application will be reviewed when the individual has met the college and nursing program admission criteria and the following has been achieved:

- o Successful completion of an NLN accredited and/or state registered LPN program
- o A score of B on the Excelsior College Examination for Fundamentals of Nursing. (score may not be more than three years old)
- o Successful completion of Nursing Bridge Course 1 (N3029)

• Advance Standing into the Fourth Semester

Licensed Practical Nurses, who have successfully completed NUR 102–Fundamentals of Nursing 2, may be considered for advanced standing into NUR 202–Physical and Mental Illness after completing the following requirements:

- o PN transcript review demonstrates a minimum of 70 clinical hours in Maternal and Child Nursing
- o Score of B on the Excelsior College Examination in Maternal and Child Nursing (baccalaureate)
- o Successful completion of Nursing Bridge Course 2

Credit for Nursing 1 will be granted after successful completion of Nursing 2 with a grade of C (2.0) or higher. Credit for Nursing 3 will be granted after successful completion of Nursing 4 and 5 with a grade of C (2.0) or higher. Minimum passing grade in all core nursing courses is 75. Nursing 2 and 4 are offered in the Spring semesters. The offering of these courses out of sequence is never guaranteed & at the discretion of the nursing department based on enrollment & clinical placement availability.

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

Students will be considered for acceptance into the Nursing Program based on the admission criteria in effect at the time of the request. Please be advised that certain general education requirements are co-requisites with nursing courses. A&P 2 must be taken with or prior to Nursing 2. Elements of Chemistry and Physics & Psychology of Adjustment must be taken prior to Nursing 4.

LPN to RN Admissions Eligibility Forms are to be submitted by September 1st and all LPN - RN admissions requirements must be completed by November 1st in order for a student to be considered for acceptance into the program for the spring semester.

Progression Through The Program

A minimum grade of 75% (C) in each nursing course is required for progress in and graduation in nursing. A minimum grade of C is required in all laboratory science courses for progression in the nursing program. 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 in the core nursing courses, 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 limited to 11.5 credits each semester. In order to meet this requirement; all non-clinical courses should be completed prior to starting this part-time program. The day program is two academic years in length if pursued on a full time basis. Because of the intense nature of the Nursing Program, the student may find that part-time study is more appropriate.

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. Additionally the program is to be completed within three years from the start of the first nursing course. A student seeking readmission must meet the program requirements in effect at the date of re-entry. Readmission is neither guaranteed nor is it an automatic process. Students requesting to be considered for readmission to Nursing 1 are to do so through the admissions office of the college. Students requesting to be considered for readmission to Nursing 2, 3, 4 or 5 must inform the nursing department chairperson in writing. Written requests must be submitted by June 1st for the Fall semester and September 1st for the Spring semester. Prior to readmission, students are required to successfully complete a special bridge course.

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.

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
- Mercy College

Contact Information

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

Occupational Therapy Assistant

Degree Awarded: Associate in Applied Science

Accredited by the Accreditaton Council for Occupational Therapy Education, 4720 Montgomery Lane, PO Box31220, Bethesda, MD 20824-1220. (301) 652-AOTA

Recommended Course Sequence

First Seme	ester Cı	redits
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 Therapy	1 3
OTA 103	Occupational Performance 1	1
OTA 107	Principles of OT in Geriatrics &	ķ
	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	PES Physical Education	
Third Sem	nester Cı	edits
COM 101	Foundations of Communication	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 Disabilitie	s 3
Fourth Ser	mester	
OTA 217	Clinical Practice 1	7.5
OTA 218	Clinical Practice 2	7.5

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Total Credits: 72

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.

Occupational Therapy Assistant

Degree Awarded: Associate in Applied Science

Admission Criteria

Academic Requirements:

- · High school diploma or GED
- Eligible to take Freshman English I (ENG 101)
- Eligible to take Elementary Algebra (MAT 101) or have successfully completed Developmental Algebra (MAT 020)
- Completed High School AP Biology (score of 3, 4, or 5) or a passing grade in the Biology CLEP examination; or introduction to Biology or Anatomy & Physiology 1 with a grade of 2.0 or better (within 5 years of program entry)
- Students must attain a minimum cumulative GPA of 2.0

Department-Specific Requirements:

- Submit Occupational Therapy practitioner observation form with essay. (15 hour min. with documentation).
- Attendance at a pre-admission orientation (includes interview with Dept Chair; problem solving activity and discussion). At this orientation, students will receive and sign off on information pertaining to health forms, drug testing, and criminal record policies.

Note: Admission to this program is selective. In addition to an application to the College, students must apply for acceptance into this program through the Admissions office. Consideration for admission is based on the completion of all mandatory academic and departmental-specific requirements, highest combination of CQPA and credits completed towards the degree, Orange County residency and seat availability. All requirements must be completed and an eligibility form must be submitted to the Admissions Office before February 1 in order for a student to be considered for acceptance into this program for the Fall semester.

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

Office Technologies

Degree Awarded: Associate in Applied Science

Accredited by the Accreditation Council for 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	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	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

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Emphasis Areas:

Legal Office	Assistant ((18 credits)	

egal 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	3
OFT 207 Transcription Skills**	3
Fourth Semester	
Math or Liberal Arts Science	3
OFT 110 Legal Documents & Terminology or	. 3
OFT 109 Advanced Computer Keyboarding	**
ffice Management (19 credits)	
First Semester	
BUS 101 Business Math	3
Second Semester	3

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Secretarial/Word Processing (18 credits)

First Semester

BUS 101 Business Math	3
Second Semester	
OFT 109 Advanced Computer Keyboarding**	3
Third Semester	
Math or Liberal Arts Science	3
OFT 207 Transcription Skills**	3
Fourth Semester	

3

This degree has been approved by ACBSP and SUNY NYS Education Department for online distance learning delivery. This does not mean that SUNY Orange offers every course in the program online; however, many are offered in this format. Please check the current credit course schedule for online DL virtual course listings offered each semester.

Social Science Elective

_____ Business Elective

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^{*} 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 legal/medical projects are provided in OFT 109, OFT 207 and OFT 214 for students in these programs.

Office Technologies

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

Business 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
MAT MUS 123 MUS	Basic Musicianship 1	3 3 5 2 1 3-5
Second Se	mester	
PHY 108 MUS 124 MUS	Physical Education Emphasis Credits	3 3 5 2 1 2-4
MUS 223 MUS MUS 1 MUS 109	Advanced Musicianship 1 Piano Ensemble* Music Business Music History** Emphasis Credits	4 2 1 3 3 3-6
MUS 224 MUS_ MUS 1_ MUS 10_	Advanced Musicianship 2	4 2 1 3 3 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).

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Emphasis Areas:

Music (13 cr.)

Music (13 cr.)		
First Seme	ster	Credits
	Group Voice 1	2
MUS 1_	Ensemble	1
_	Private Instruction	1
Second Ser		
	Group Voice 2	2
MUS I MUS 1	Ensemble Private Instruction	1 1
Third Sem		1
Till Selli		
MUS 1	Social Science Elective Private Instruction	3
Fourth Sen		-
	Private Instruction	1
Music Busines		
First Seme		
BUS 103	Intro to Business	3
Second Ser	mester	
ECO 202	Micro Economics	3
Third Sem	ester	
MKT 101	\mathcal{E}	3
BUS 201	Business Law 1	3
Fourth Ser	mester	
	Keyboarding	1
ACC 153	Financial Accounting	4
Jazz/Commerc	cial (16 cr.)	
First Seme		
	Social Science Elective	3
MUS 161		1
MUS 1	Private Instruction	1
Second Ser	mester	
MUS 161	Jazz Ensemble	1
MUS 1	Private Instruction	1
Third Sem	ester	
MUS 163	1	2
MUS 1		1
Fourth Ser		
MUS 164	1	2
MUS 226	2 2	3
MUS 1	Private Instruction	1

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^{*} 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.

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

Accredited by the Commission on Accreditation in Physical Therapy Education, The American Physical Therapy Association, 1111 N. Fairfax Street, Alexandria, VA 22314 (703) 684-2782

Recommended Course Sequence

First Semester Cred		
ENG 101	Freshman English 1	3
BIO 111	_	4
PTA 101	PTA 1	4
PTA 103	Introduction to Physical Therapy	/ 2
PTA 105	Medical Conditions for the PTA	3
PES 100	Concepts of Physical Wellness	1
Second Se	mester	
ENG 102	Freshman English 2	3
BIO 112	Anatomy & Physiology 2	4
PTA 102	PTA 2	4
PTA 104	Kinesiology	4
MAT 101	Elementary Algebra	3
Third Sem	nester	
PSY 101	General Psychology 1	3
PED 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 Sea	mester	
COM 101	Foundations of Communication	3
PSY 220	Developmental Psychology	3
PTA 202	PTA 4	4
PTA 206	Clinical Education 2	3
PTA 208	Contemp.Practice for the PTA	3
PES	Physical Education	1
	N1 1	
Summer C		
PTA 220	Clinical Education 3	3

Total: 72

Licensure

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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 certified/licensed 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 certification/licensure process.

The PTA works with, and under the direction and supervision 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 is required in all PTA courses and a minimum grade of C is required in each of the following courses: Anatomy and Physiology 1, Anatomy and Physiology 2, and Basic Exercise Physiology.

Physical Therapist Assistant

Degree Awarded: Associate in Applied Science

Admission Criteria

Academic Requirements:

- · High school diploma or GED
- Eligible to take Freshman English I (ENG 101)
- Eligible to take Elementary Algebra (MAT 101) or equivalent with a 2.0 or higher or have completed Developmental Algebra (MAT 020)
- Completed High School AP Biology (score of 3, 4, or 5) or a passing grade in the Biology CLEP examination; or introduction to Biology or Anatomy & Physiology 1 with a grade of 2.0 or better (within 5 years of program entry)
- Minimum cumulative GPA of 2.0

Department-Specific Requirements:

- Submit Physical Therapy practitioner observation form with essay (15 hour min. with documentation).
- Attendance at a pre-admission orientation (includes interview with Dept Chair; Problem solving activity and discussion). At this orientation, students will receive and sign off on information pertaining to health forms, drug testing, and criminal record policies.

Note: Admission to this program is selective. In addition to an application to the College, students must apply for acceptance into this program through the Admissions office. Consideration for admission is based on the completion of all mandatory academic and departmental-specific requirements, highest combination of CQPA and credits completed towards the degree, Orange County residency and seat availability. All requirements must be completed and an eligibility form must be submitted to the Admissions Office before February 1 in order for a student to be considered for acceptance into this 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 direction and 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 Physical Therapy doctorate 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		
EET 110	Computer Applications and			
	Graphics	3		
RAD 101				
	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			
BIO 112	Anatomy & Physiology 2	4		
ENG 101		3		
	Principles of Radiographic			
	Exposure 2	4		
RAD 104	Radiation Protection	1		
RAD 106	Radiographic Positioning 2	4		
RAD 108	Methods of Patient Care 2	1		
RAD 111	Clinical Practicum 1	1		
First Sum	mer Clinical			
RAD 112	Clinical Practicum 2	2		
Third Sen	nester			
ENG 102	Freshman English 2	3		
PES 100	Concepts of Physical Wellnes	ss 1		
PSY 101	General Psychology 1	3		
RAD 209	Radiographic Physics	4		
RAD 213	Clinical Practicum 3	1.5		
	Radiographic Positioning 3	2		
RAD 221	Radiographic Pathology	3		
Fourth Se	Fourth Semester			
PES	Physical Education	1		
PSY 102	General Psychology 2	3		
	Quality Assurance	1		
RAD 214	Clinical Practicum 4	1.5		
RAD 216	Advanced Imaging Modalitie	es 3		
RAD 218	Radiation Biology	2		
RAD 219	Medical Terminology	1		
Second Summer Clinical				
RAD 215	Clinical Practicum 5	2		

Total Credits: 70

Program Description

The Associate in Applied Science degree program in Radiologic Technology prepares students to apply 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

Academic Requirements:

- High school diploma or GED
- Eligible to take Freshman English I (ENG 101)
- Eligible to take College Algebra (MAT 121), or have completed Intermediate Algebra (MAT 102) or equivalent with a 2.0 or higher
- Completed High School AP Biology (score of 3, 4, or 5) or a passing grade in the Biology CLEP examination; or introduction to Biology or Anatomy & Physiology 1 with a grade of 2.0 or better (within 5 years of program entry)
- Minimum cumulative GPA of 2.5

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Radiologic Technology

Degree Awarded: Associate in Applied Science

Department-Specific Requirements:

• Attendance at a pre-admission orientation. At this orientation, students will receive and sign off on information pertaining to technical standards, health forms, and criminal record policies.

Note: Admission to this program is selective. In addition to an application to the College, students must apply for acceptance into this program through the Admissions office. Consideration for admission is based on the completion of all mandatory academic and departmental-specific requirements, highest combination of CQPA and credits completed towards the degree, Orange County residency and seat availability. All requirements must be completed and an eligibility form must be submitted to the Admissions Office before February 1 in order for a student to be considered for acceptance into this program for the Fall semester.

At the time prospective students submit their applications 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 following 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 F	Credits	
ENG 101	Freshman English 1	3
PSY 101		3
PSY 221	Child Psychology	3
	Intro to Early Childhood/	
	Childhood Education++>	3
COM 101	Foundations of Communication	on 3
EDU 107	Mandated Training	1
	Restricted Elective	3
	Restricted Elective	3
	Restricted Elective	3

Total: 25

3

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.

EDU 201 Observation and Assessment++

Option 2: I	Birth to 2 nd Grades (Choose 3)	
	SUNY General Education course*	3
	SUNY General Education course*	3
	SUNY General Education course*	3

	C C C C T T C C C C C C C C C C C C C C	_
MAT 111	Foundations of Elementary	
	School Mathematics	3
GEO 101	Elements of Physical Geography	3
HIS	SUNY GenEd (Category 4, 5, or 6)	3

Option 3: 1st to 6th Grades (Choose 3)

- P	()	
	Elements of Physical Geography	3
MAT 111	Foundations of Elementary	
	School Math	3
	SUNY General Ed. Course*	3
	SUNY General Ed. Course*	3

Option 4:	7th to 12th Grades	
EDU 103		
	Psychology of Adolescence (Replaces PSY 221)	3
GEO 101	Elements of Physical Geography	3
	SUNY General Education course* SUNY General Education course*	3
	SUNY General Education course*	3

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

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.)

^{*} Each elective must be chosen from the following SUNY General Education categories: Mathematics (GE1), Natural Sciences (GE2), American History (GE4), Western Civilization (GE5), Other World Civilizations (GE6), Humanities (GE7), Arts (GE8), or Foreign *Languages (GE9), with at least ONE from either Category* 4, 5, or 6. Do not take more than one elective from the same

>Evidence of completion of fingerprinting through NYS Department of Education is required.

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) 341-4482 Admissions Office (845) 341-4030

Telecommunications

Degree Awarded: Certificate

Recommended Course Sequence

154

First Seme	Credits		
ENG 160	Technical Writing Module	1.5	
MAT 107	Technical Math 1	3	
EET 101	Electric Circuits	4	
EET 110	Computer Applications &		
	Graphics	3	
Second Ser	nester		
EET 106	Telecommunications 1	4	
EET 104	Digital Electronics 1	4	
Third Semester			
ENG 161	Technical Writing Module	1.5	
EET 107	Telecommunications 2	4	
EET 206	Telecommunications 3	4	

Total Credits: 29

Program Description

Electrical Technology Telecommunications certificate will prepare students to succeed in a variety of areas in the field of Telecommunications. The course curriculum provides the students with the basics of DC and AC electrical circuits. They will build and test digital, 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 will provide students with a well rounded education and a competitive edge in the job market.

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.

Telecommunications

Degree Awarded: Certificate

Student Learning Outcomes

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

Career Opportunities

Students will have diverse opportunities in the field of telecommunications.

Transfer Opportunities

The courses taken in the certificate program can be applied to the SUNY Orange Electrical Technology AAS Program.

Contact Information

Admissions Office (845) 341-4030 Fern Steane, Chair (845) 341-4523 fern.steane@sunyorange.edu

Visual Communications Technology: Graphic Arts/Printing

Degree Awarded: Associate in Applied Science

Recommended Course Sequence

First Sem	ester	Credits
ENG 101	Freshman English 1	3
	Math or Liberal Arts Science	3
ART 103	Drawing 1	2
ART 107	Design 1	3
ART 123	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
ART 124	Vis. Com. & Graphic Design 2	
ART 104	Drawing 2	2
ART 108	Design 2	3
ART 128	History of Art 2	3
ART 111	Color	2
Third Sen	nester	
	Social Science Elective	3
ART 223	Vis. Com. & Graphic Design 3	3
ART 113	Painting 1 or	
	Figure Drawing 1 or	
ART 119	Photography 1 or	
ART 121	Digital Photography 1 or	
ART 225	Web Design 1	3/4
ART 203	Modern Art: The 20th Century	y 3
	Restricted Elective*	3
ART 230	Arts & Communication Practic	cum 2
Fourth Se	mester	
	Social Science Elective	3
	Math or Liberal Arts Science	3
ART 224	Vis. Com. & Graphic Design 4	. 2
ART 114	Painting 2 or	
ART 118	Figure Drawing 2 or	
ART 120	Photography 2 or	
ART 122	Digital Photography 2 or	
ART 226	Web Design 2	3
	Restricted Elective*	3
PES	Physical Education	1
	Total Credits	66-67

Students must complete a two-course sequence in Painting, Figure Drawing, Photography or Digital Photography for degree

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: ARC 101, ART 113, ART 114, ART 117, ART 118, ART 119, ART 120, ART 121, ART 122, ART 127, ART 201, ART 205, ART 207, ART 213, ART 214, ART 215, ART 225, ART 226, CAD 101, CIT 111, COM 101, COM 107, MKT 101, MKT 201

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 ering Science) transferring to a SUNY	ECO 201 ECO 202	Macro - Economics Micro - Economics
	ust fulfill 7 of the following 10 categories.	GEO 102	Human Geography
		POL 101	Introduction to Political Science
GE 1. MATH	HEMATICS	POL 102	U.S. Government–State & Local
MAT 102	Intermediate Algebra	POL 220	Comparative Governments
MAT 111	Foundations of Elementary School Math	POL 221	International Relations
MAT 113	Math for the Liberal Arts	PSY 101	General Psychology 1
MAT 114	Contemporary Math	SOC 101	Introduction to Sociology
MAT 121	College Algebra	SOC 202	American Society: Order & Change
MAT 122	College Trigonometry	500 202	American Society. Order & Change
MAT 125	Introduction to Statistics	GE 4 AME	RICAN HISTORY
MAT 131	Pre-Calculus	HIS 101	U.S. History to 1865
MAT 205	Calculus 1	HIS 101	U.S. History since 1865
		HIS 102	History of African Americans*
GE 2. NATU	URAL SCIENCES		ents scoring 85 or above on NYS American History
Biology		Regents	this scoring 65 or above on 1v15 American History
BIO 101	General Biology 1	POL 103	U.S. Government - National
BIO 102	General Biology 2	1 OL 103	O.S. Government - National
BIO 110	Introduction to Biology	GE 5 WEST	TERN CIVILIZATION
BIO 141	Diversity of Life	HIS 130	The Greek & Roman World
BIO 143	Field Biology	HIS 130	
BIO 148	Environmental Conservation		Medieval & Renaissance Europe
BIO 201	Genetics	HIS 132	The Age of Revolutions
BIO 204	General Botany	HIS 133	Modern Europe
BIO 205	General Ecology	CE (OTHE	ED WODLD CIVIL IZATIONS
BIO 210	Study of Biological Habitats		ER/WORLD CIVILIZATIONS
	Technology	HIS 121	World History to 1500
MLT 209	General Microbiology	HIS 122	World History since 1500
Chemistry	Selicial Wilelestology	HIS 123	Latin American Heritage & Hist.
CHM 103	Applied Chemistry 1	HIS 124	Africa: Past & Present
CHM 104	Applied Chemistry 2	HIS 220	Modern China & Japan
CHM 105		HIS 221	Modern India & Southeast Asia
CHM 106	General Chemistry 2	HIS 222	The Middle East
CHM 201	Organic Chemistry 1		ANHENEG
CHM 202	Organic Chemistry 2	GE 7. HUM.	
Physical Sc	viences	ENG 102	
AST 120	Astronomy	ENG 120	Introduction to Mythology
CHM 120	Elements of Chemistry & Physics	ENG 203	World Literature: Ancient
GLG 110	Physical Geology		through Renaissance
GLG 110 GLG 112	Historical Geology	ENG 204	World Literature: Enlightenment
PSC 125	Physical Science/Physical World		through Modern Age
PSC 140	Physical Science/The Environment	ENG 205	Drama: Ibsen-O'Neill
Physics	Thysical Science/The Environment	ENG 206	Drama: Contemporary
PHY 101	General Physics 1	ENG 207	English Literature:14th-18th Centuries
PHY 102	General Physics 2	ENG 208	English Literature: 19th-20th Centuries
PHY 103	Physics for Science & Engineering 1	ENG 209	American Literature: To the Civil War
PHY 103		ENG 210	American Literature: 1865 to the Present
	Physics for Science & Engineering 2	ENG 213	Journalism: Survey of Mass Media
PHY 105	General Physics & Calculus 1	ENG 215	Shakespeare
PHY 106	General Physics & Calculus 2	ENG 216	Children's Literature
PHY 108	Acoustic	ENG 217	Film & Literature
PHY 111	Applied Physics 1	ENG 220	Women Writers
PHY 112	Applied Physics 2	ENG 221	Contemporary Short Story
PHY 203	Physics for Science & Engineering 3	ENG 222	Contemporary Novel
PHY 204	Physics for Science & Engineering 4	ENG 223	Contemporary Poetry
OF 4 CC C-	AL COLENICES	ENG 225	International Literature: Non-European
	AL SCIENCES	ENG 226	Fantasy Fiction
ANT 101	Cultural Anthropology	ENG 230	African - American Literature
ANT 102	Human Evolution	ENG 297	Special Studies in Literature: Science
ANT 103	Archeology and Prehistory	/	Fiction

SUNY General Education Course Listing

ART 127 ART 128 ART 201	History of Western Art 1 History of Western Art 2 American Art 1700 - 1945	MUS 153 MUS 155 MUS 157	Madrigal Singers Orchestra Chamber Ensemble
ART 203	Modern Art - the 20th Century	MUS 159	Band
ART 205	Women in Art History	MUS 161	Jazz Ensemble
ART 207	Non-Western Art History	MUS 163	Jazz Improvisation 1
MUS 103	History of Western Music to 1750	MUS 164	Jazz Improvisation 2
MUS 104	History of Western Music from 1750		77 Private Instruction
MUS 105	History of Jazz History of Rock Music	MUS 223	Advanced Musicianship 1
MUS 107 PHL 111	Hebrew Bible (Old Testament)	MUS 224 MUS 226	Advanced Musicianship 2 Elements of Arranging
PHL 112	New Testament	MUS 231	Intermediate Piano 1
PHL 210	Philosophy	MUS 232	Intermediate Piano 2
PHL 220	Ethics	MUS 233	Advanced Piano 1
PHL 230	Religious Concepts	MUS 234	Advanced Piano 2
		THE 101	Introduction to Theater
GE 8. ARTS		THE 103	Acting Fundamentals
ART 101	Introduction to Art	THE 107	Theater Workshop
ART 103	Drawing 1	THE 109	Stage Make-Up
ART 104 ART 107	Drawing 2 Design 1	THE 111 THE 113	Stage Movement Intro to Technical Production
ART 107 ART 108	Design 2	THE 115	Performing Arts Seminar
ART 111	Color	THE 117	Puppetry/Object Performance Theater
ART 113	Painting 1		rses must be combined with other one and two credit
ART 114	Painting 2	courses for a tota	
ART 117	Figure Drawing 1		
ART 118	Figure Drawing 2		IGN LANGUAGE
ART 119	Photography 1	CHN 101	Chinese 1
ART 120	Photography 2	CHN 102	Chinese 2
ART 121 ART 122	Digital Photography 1 Digital Photography 2	FRE 101 FRE 102	Elementary French 1 Elementary French 2
ART 122 ART 123	VisCom & Graphic Design 1	FRE 201	Intermediate French 1
ART 124	VisCom & Graphic Design 2	FRE 202	Intermediate French 2
ART 213	Painting 3	FRE 203	Advanced French 1
ART 214	Painting 4	FRE 204	Advanced French 2
ART 215	Portrait Painting	GER 101	Elementary German 1
ART 223	VisCom & Graphic Design 3	GER 102	Elementary German 2
ART 224	VisCom & Graphic Design 4	ITA 101	Elementary Italian 1
ART 230 COM 103	Arts and Communication Practicum Speaking Voice	ITA 102 SPN 101	Elementary Italian 2 Elementary Spanish 1
	Television Production 1	SPN 101 SPN 102	Elementary Spanish 2
	Television Production 2	SPN 201	Intermediate Spanish 1
COM 201		SPN 202	Intermediate Spanish 2
COM 209	Debate	SPN 203	Spanish Conversation & Comp.
DNC 101	Modern Dance 1	SPN 204	Introduction to Spanish Lit.
DNC 102	Modern Dance 2		
DNC 201	Advanced Dance 1		COMMUNICATIONS
DNC 202	Advanced Dance 2	ENG 101	Freshman English 1 and
ENG 211 ENG 212	Creative Writing: Fiction Creative Writing: Poetry	COM 101	Foundations of Communication
MUS 101	Introduction to Music	Note: Courses	that are a part of the College's General Education
MUS 113	Introduction to Orchestra	requirement and	which are followed by an H are Honors sections of
MUS 121	Fundamentals of Music		As such, they are enriched versions of courses that
MUS 123	Basic Musicianship 1	already meet the	SUNY General Education requirement.
MUS 124	Basic Musicianship 2		
MUS 131	Elementary Piano 1		
MUS 132	Elementary Piano 2		
MUS 141 MUS 142	Group Voice 1 Group Voice 2		
MUS 151	Chorus		
1,100101	-1101 400		

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

Categories A - D must include at least one SUNY Social Science (GE3) and one SUNY History (GE4, GE5, or GE6) course.

A. Economics, U	United States History, or United States Gove	rnment	
ECO 201	Macro-Economics (GE3)	HIS 103	History of African Americans (GE4*)
ECO 202	Micro-Economics (GE3)	POL 102	U.S. Government-State & Local (GE3)
ECO 203	Economic Development+	POL 103	U.S. Government- National (GE4)
HIS 101	U.S. History to 1865 (GE4)		
HIS 102	U.S. History Since 1865 (GE4)		
B. Psychology			
PSY 100	Psych. of Adjustment	PSY 222	Psychology of Adolescence+
PSY 101	General Psychology 1 (GE3)	PSY 223	Psych. of Adulthood & Aging+
PSY 102	General Psychology 2+	PSY 230	Abnormal Psychology+
PSY 220	Developmental Psychology+	PSY 240	Social Psychology+
PSY 221	Child Psychology+		
C. Anthropology	, Criminal Justice, Human Geography, or Se	ociology	
ANT 101	Cultural & Social Anthropology (GE3)	CRJ 111	Criminology
ANT 102	Human Evolution (GE3)	GEO 102	Human Geography (GE3)
ANT 103	Archaeology & Prehistory (GE3)	SOC 101	Introduction to Sociology (GE3)
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 In		
HIS 105	Science, Technology & Society	HIS 133	Modern Europe (GE5)
HIS 121	World History to 1500AD (GE6)	HIS 220	Modern China & Japan (GE6)
HIS 122	World History since 1500AD (GE6)	HIS 221	Modern India & Southeast Asia (GE6)
HIS 123	Latin American Heritage/History (GE6)	HIS 222	The Middle East (GE6)
HIS 124	Africa: Past and Present (GE6)	POL 101	Intro to Political Science (GE3)
HIS 130	The Greek & Roman World (GE5)	POL 220	Comparative Government (GE3)
HIS 131	Medieval & Renaissance Europe (GE5)	POL 221	International Relations (GE3)
HIS 132	The Age of Revolution (GE5)		

^{*} Only for students scoring 85 or above on NYS American History Regents

⁺ these courses have a prerequisite

Non-SUNY Elective Categories

The following list is intended to provide guidance in selecting courses that must fall within specific categories to meet degree requirements. This list is not to be confused with degree requirements that state a specific SUNY General Education course must be taken. For example, if your degree requires you to take a SUNY Math, SUNY Social Science, etc., you must follow the SUNY General Education course listing.

Also, if you are pursuing the A.A. Liberal Arts degree, the Social Science requirements are restricted to those courses listed within specific (A-D) categories.

Note: When just a department is noted as meeting the requirement (for example ACC) and there is no number after this designation, this means that all course numbers preceded by ACC meet the requirement.

Social Science Elective

ANT (except ANT 220), CRJ 101, CRJ 103, CRJ 105, CRJ 109, CRJ 111, ECO, GEO 102, HIS (except HIS 104), POL, PSY, SOC

Math Elective

Any MAT or CSC courses.

Business Elective

ACC, BUS, MGT, MKT, OFT

Liberal Arts Science

AST, BIO, CHM, GEO 101, GLG, MLT 101, MLT 110, MLT 209, PHY, PSC

Liberal Arts Elective

ANT (Except ANT 220), ARC 215, ARC 216, ART, AST, BIO, BUS 105, CHM, CCS 100, CCS 101, CIT 100, COM, CSC, CRJ 101, CRJ 103, CRJ 105, CRJ 109, CRJ 111, ECO, EDU 207, ENG, FLD, FRE, GEO, GLG, HIS, HON, HMS 101, ITA, MAT, MLT 101, MLT 110, MLT 209, MUS, PHL, PED 111, PED 112, PSC, PHY, POL, PSY, SOC, SPN, THE

General Elective

Any course except PES courses.

Developmental courses are not applicable toward any degree program.

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